# IPv6 READY Phase-2
# NEMO (Network Mobility)
# Test Specification Profile

## [I] Guidelines for Implementation and Priorities in Testing

**Technical Document**
**version 1.1.0**

*IPv6 Forum* *http://www.ipv6forum.org*
*IPv6 Ready Logo Committee* *http://www.ipv6ready.org*

# Modification Record

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- Major revision up.

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- Modified some editorial errors at the pages of RFC4877 in section 5.1.2 (HA) and 5.2.2 (MR).

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- Added test numbers at the pages of RFC4877 in section 5.1.2 (HA) and 5.2.2 (MR).

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- Modified section names (5.1.2 and 5.2.2) and table of contents.

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- Major revision up to cover RFC4877 and add “Fine-grain selectors” as an Advanced Function.

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- Updated the copyright.

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- First release.

# Acknowledgements

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Principle Authors:

- IPv6 Promotion Council, Certification Working Group, Mobile IPv6 Sub Working Group

Commentators:

- TTA/IT Testing Laboratory

# Table of Contents

# 1. Overview

This document gives guidelines for implementing functions specified in the IETF RFC on NEMO functions.

This document is provided

- as a guide to implementation that ensures interoperability between the Home Agent (HA) and Mobile Router (MR),
- to give a classification of individual NEMO functions according to their importance in terms of interoperability.

The NEMO Test Profile only includes [1] *Guidelines for Implementation and Priorities in Testing* (this document). It will include [2] *Test Specifications* in a future version.

The content of this document includes specifications of the interfaces between NEMO nodes, i.e., HA and MR, guidelines for the implementation of NEMO nodes, and priorities for the testing of each node function according to the function's importance for interoperability.

This document is in complete accord with the IETF's RFC specifications for NEMO, but it includes some extra information for clarification and thus more strongly ensures interoperability.

# 2. Scope of NEMO and test function it provides

## 2.1 Reference Network Architecture

Network architecture covered by NEMO is shown in Figure 2-1.

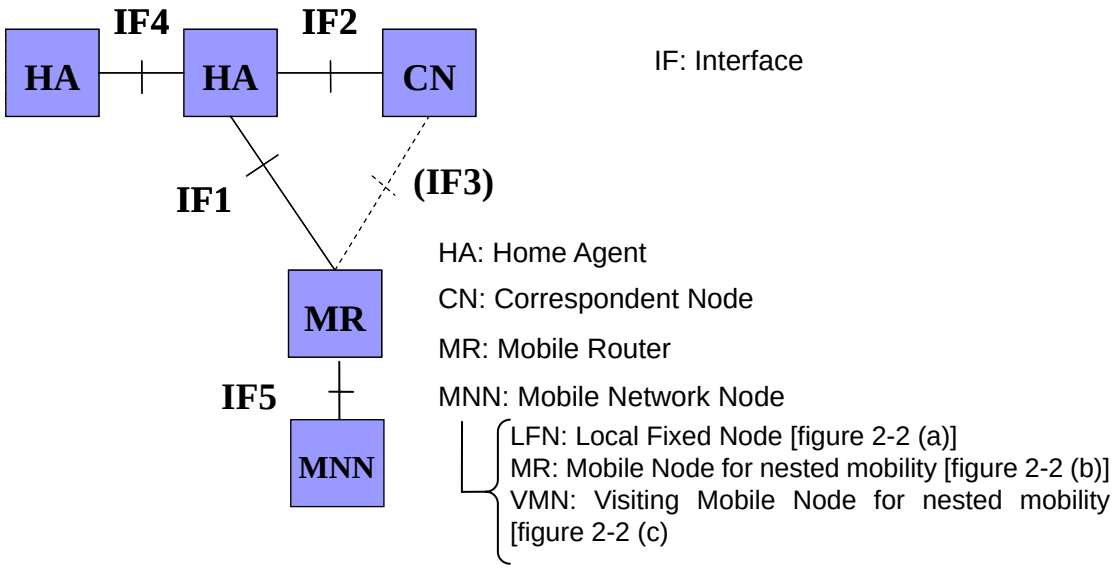



**Figure 2-1 Reference Network Architecture**

This document covers HA and MR specifications. Testing of generic IPv6 functions is beyond the scope of this test; however, some generic IPv6 functions are necessary for NEMO functions and are thus supported in this test.

## 2.2 Related standards

This document covers functions specified in the following RFC documents. NEMO RFC (1) refers RFCs (2), (3), and (4). RFCs (2) and (3) are about Mobile IPv6, and RFC (4) is about Mobility Related Terminology.

(1) RFC 3963 (http://www.ietf.org/rfc/rfc3963.txt)

(2) RFC 3775 (http://www.ietf.org/rfc/rfc3775.txt)

(3) RFC 3776 (http://www.ietf.org/rfc/rfc3776.txt)

(4) RFC 3753 (http://www.ietf.org/rfc/rfc3753.txt)

(5) RFC 4877 (http://www.ietf.org/rfc/rfc4877.txt)

## 2.3 Classification of functions

This section describes methods of classifying NEMO functions needed for interoperability and describes test functions in the NEMO Conformance Test.

### 2.3.1 Viewpoints of the classification

The classification of NEMO functions is considered from the following viewpoints.

(A) IETF specification

(B) Functional Rank

(C) Test Priority

(A) IETF specification

IETF specification refers to the classification of each NEMO function from the viewpoint of importance for implementation, as indicated by usage of the keywords below in the IETF RFC.

The keywords “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” are defined in RFC 2119.

(B) Functional Rank

Functional Rank refers to classification of functions according to their importance to interoperability.

This classification is also based on descriptions in the IETF RFC; that is, functions with descriptions “MUST”, “SHOULD”, “MUST NOT”, and “SHOULD NOT” are basically classified as Rank-A, and functions with “MAY” are classified as either Rank B or Rank C, according to their importance to interoperability.

The definition of Functional Rank is shown in Table 2-1.

Table 2-1 Definitions of Functional Rank

| | Definitions of Functional Rank |
|---|---|
| Rank A | These functions are essential to interoperability and should basically be implemented |
| Rank B | Implementation of these functions is optional, but they are important to interoperability |
| Rank C | Implementation of these functions is optional; they are not required for interoperability |

Moreover, NEMO functions described in RFC, which are not described by the keywords MUST, SHOULD, and MAY, are marked as "do." “Do” is described in sectuion 5. Functions marked as “Do” are assigned Rank A, Rank B, or Rank C as shown in Table 2-1 in consideration of the importance to interoperability.

Furthermore, although not clearly written on the RFC, what began to bundle the NEMO function considered on implementation of HA etc. as a supplementary matter is positioned as "add", and Functional Rank is assigned according to Table 2-1.

Refer to the Excel table of Chapter 5.2 for details about each classified function.

(C) Test Priority

Test Priority is the classification from the viewpoint of the importance of testing.

Testing of functions classified as Priority 1 is included in the minimum test package for testing functions that are essential to interoperability.

Testing of functions classified as Priority 2 may not be needed; this depends on the application to be used. The testing of Priority 2 (Optional Test) items is selectively incorporated in the test package according to functions to be supported by the HA/MR.

Functions assigned Rank A, as above, are classified as Priority 1; however, some Rank A functions, i.e., those that are not always implemented, should be classified as Priority 2. All functions with Rank B and Rank C are classified as Priority 2.

Moreover, using the view of Functional Rank and Test Priority, objects that are assigned Rank A and Priority 1 are set to "A1."

Objects that are assigned Rank A and Priority 2 are set to "A2."

Rank B is Priority 2, so it is classified as "B."

Similarly, Rank C is Priority 2, so it is classified as "C."

As a result, Functional Rank A was classified into Priority A1 and Priority A2.

Refer to the Excel table of Chapter 5 for details of each classified function.

The reason is also described when two or more Priorities exist in the Excel table.

The NEMO Conformance Test supports functions with Priority 1 and some of those with Priority 2.

Test Priority definitions are given in Table 2-2.

**Table 2-2 Definitions of Test Priority**

| | Definitions of Test Priority |
|---|---|
| Priority 1 (Required Test) | Testing of functions classified as Priority 1 is included in the minimum test package for testing functions that are essential to interoperability. |
| Priority 2 (Optional Test) | Testing of functions classified as Priority 2 may not be needed; this depends on the application to be used.<br>The testing of Priority 2 (Optional Test) items is selectively incorporated in the test package according to functions to be supported by the HA/MR. |

### 2.3.2 Relationship among classifications of functions and test items

Relationship among IETF specification, functional rank and test priority in the version of the NEMO Conformance Test are shown in Table 2-3.

**Table 2-3 Relationship among IETF specification, functional rank and test priority**

<table>
<tr><th>(A) IETF</th><th>(B) Functional Rank</th><th>(C) Test Priority</th></tr>
<tr><td>MUST<br>MUST NOT</td><td rowspan="2">Rank-A</td><td rowspan="2">Priority 1<br>(Required Test)<br><br>Priority 2<br>(Optional Test)</td></tr>
<tr><td>SHOULD<br>SHOULD NOT</td></tr>
<tr><td rowspan="2">MAY</td><td>Rank-B</td><td>Priority 2<br>(Optional Test)</td></tr>
<tr><td>Rank-C</td><td>Priority 2<br>(Optional Test)</td></tr>
</table>

supported except a few functions

partly supported

The NEMO Conformance Test supports HA and MR functions.

Both HA and MR refer to Mobile IPv6 specifications. The NEMO Conformance Test supports only functions that are related to NEMO's HA and MR, not functions specific to Mobile IPv6's HA and MN. Specific functions for Mobile IPv6's HA and MN in RFC3775/3776 are not supported in the NEMO Conformance Test. Functions related to Mobile IPv6's HA or MN are colored "Gray" in chapter 5.2.2, shown in Table 2-4.

**Table 2-4 NEMO functions supported by the version of conformance test.**

| Node | IETF Specifications | | |
|---|---|---|---|
| | RFC3963 | RFC3775/RFC3776 | |
| | | Common function for NEMO and Mobile IPv6 | Specific to Mobile IPv6 |
| HA | - Mobile network prefix registration<br>- IPv6 encapsulation and decapsulation<br>- Nested mobility<br>- DHAAD | - IPsec ESP (BU and BA)<br>- IKE<br>- MPD<br>- Fine-Grain Selectors | - IPsec for HoTI/HoT |
| MR | - Mobile network prefix registration<br>- IPv6 encapsulation and decapsulation<br>- IPsec ESP (BU and BA)<br>- DHAAD<br>-Dynamic routing protocol<br>-Nested mobility | - Real Home Link<br>- IKE<br>- MPD<br>- Movement detection, care-of address formation, and visiting of foreign links<br>- Fine-Grain Selectors | - Return Routability<br>- Mobile to Mobile |

### 2.3.3 Coverage

IPv6 READY Logo Phase 2 NEMO is currently based on NEMO Extended Home Network Model, in which additional prefixes are used, contiguous to the Home Link Prefix inherited from MIPv6. In addition, IPv6 READY Logo Phase 2 NEMO supports Home Address of Mobile Router derived from the prefix on the Home Link, as shown in Table 2-5. Home Address of Mobile Router derived from one of its Mobile Network Prefixes is currently out of scope.

**Table 2-5 Coverage of NEMO Conformance Test**

| Home Network Model | HoA(from HNP) [Home Address derived from Home Network Prefix] | HoA(from MNP) [Home Address derived from Mobile Network Prefix] |
|---|---|---|
| NEMO Extended Home Network | Target | N/A |
| NEMO Aggregated Home Network | N/A | N/A |

As reference, the classification of Priority A1 and Priority A2 is described for every node with typical NEMO functions in Table 2-6.

Table 2-6 NEMO functions of Priority A1 and Priority A2 for HA and MR

| Node | Function | |
|---|---|---|
| | Priority A1 | Priority A2 |
| HA | - Mobile network prefix registration<br>supporting NEMO extended home network<br>supporting HoA (from HNP)<br>supporting all of {<br>explicit mode<br>implicit mode<br>}<br>- IPv6 encapsulation and decapsulation<br>- IPsec ESP (BU and BA)<br>- Nested mobility | - Real Home Link<br>- MPD<br>- DHAAD<br>- Fine-Grain Selectors |
| MR | - Mobile network prefix registration<br>supporting NEMO extended home network<br>supporting HoA (from HNP)<br>supporting any one of {<br>explicit mode<br>implicit mode<br>}<br>- IPv6 encapsulation and decapsulation<br>- IPsec ESP (BU and BA)<br>- Movement detection, care-of address formation, and visiting of foreign links<br>- Nested mobility | - Mobile network prefix registration<br>supporting NEMO extended home network<br>supporting HoA (from HNP)<br>supporting all of {<br>explicit mode<br>implicit mode<br>}<br>- Real Home Link<br>- MPD<br>- DHAAD<br>- Fine-Grain Selectors |

HNP: home network prefix

MNP: Mobile Network Prefix

HoA(from HNP): Home Address derived from the Home Network Prefix.

HoA(from MNP): Home Address derived from the Mobile Network Prefix.

Appendix

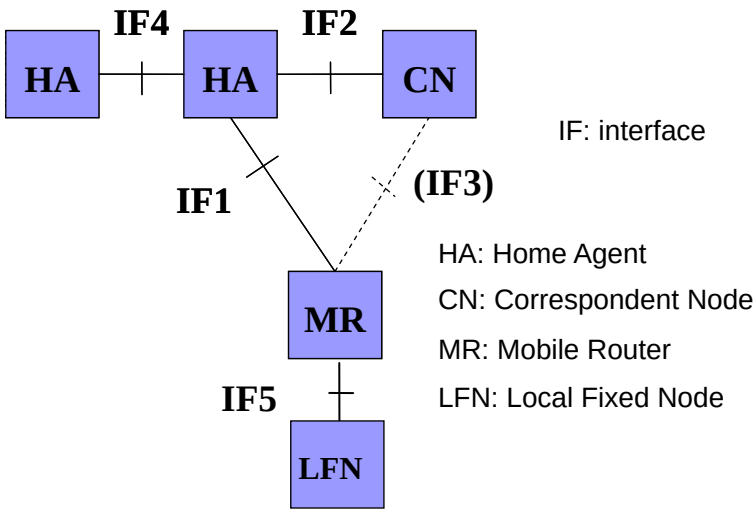



Figure 2-2 (a) Reference Network Architecture

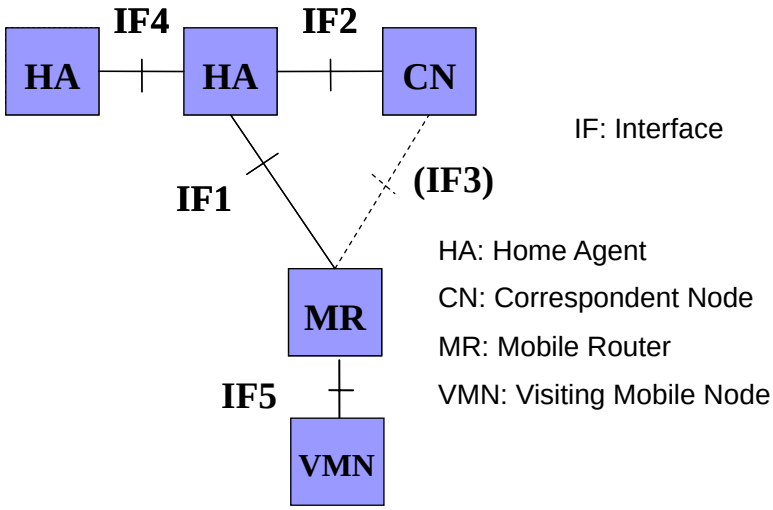



Figure 2-2 (b) Reference Network Architecture

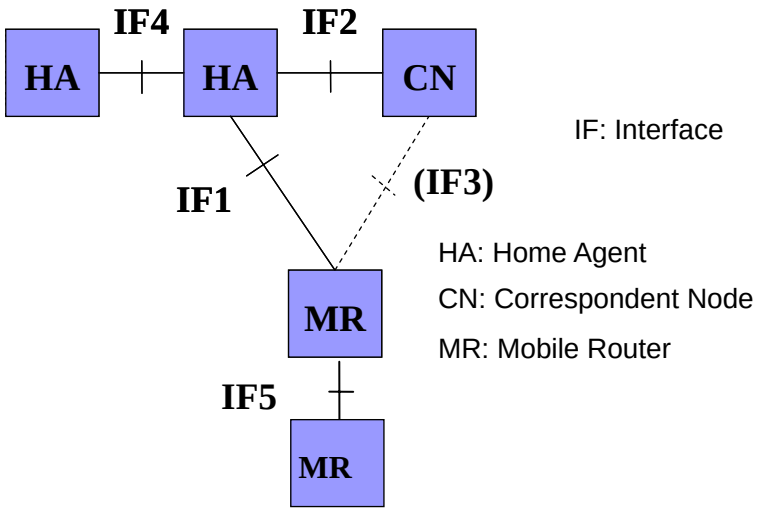



Figure 2-2 (c) Reference Network Architecture

# 3. Sequences

Reference NEMO sequences used in the NEMO Conformance Test are described in this section. The NEMO Conformance Test sends sequences of test packets to the target and expects to receive corresponding acknowledgement packets from the target. Details of test sequences utilized in each test are given in Test Specification documents.

Reference NEMO sequences are shown in Figs. 3-1 to 3-6.

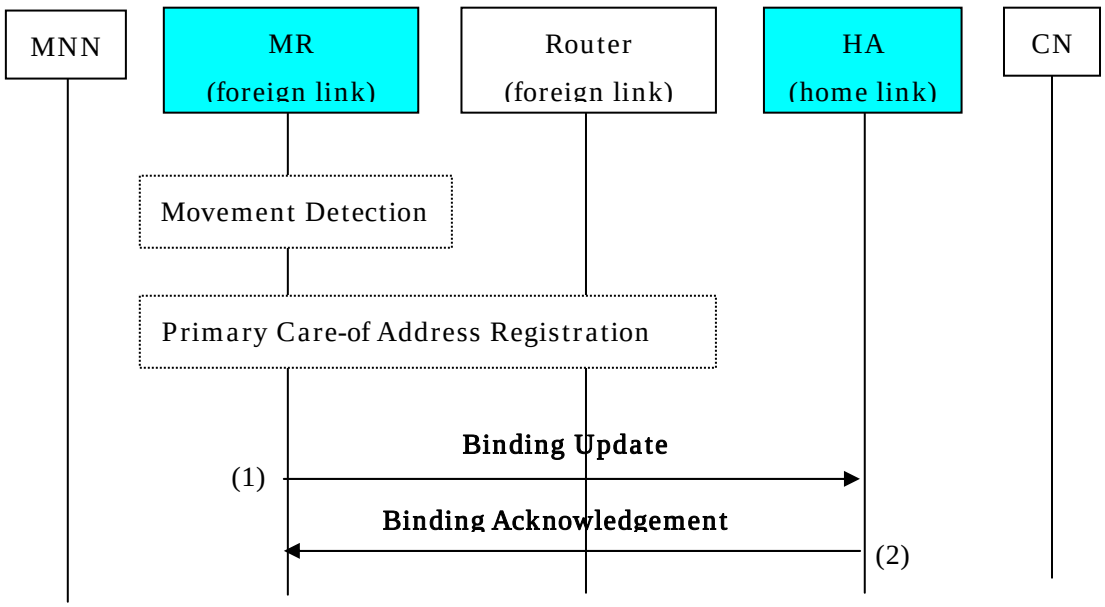



**Figure 3-1 Primary Care-of Address Registration**

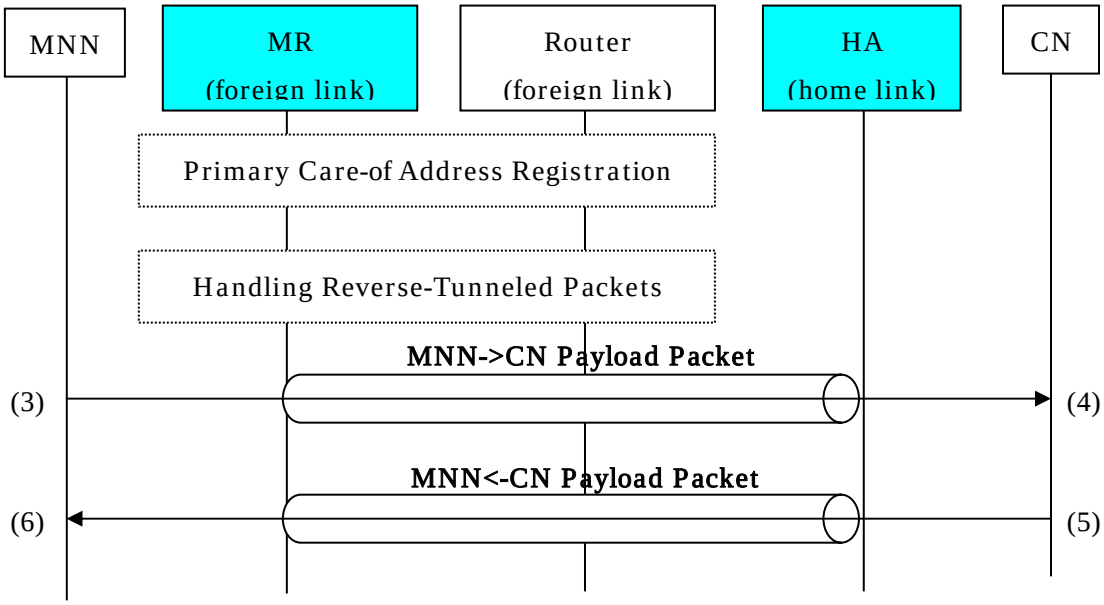



**Figure 3-2 Handling Reverse-Tunneled Packets**

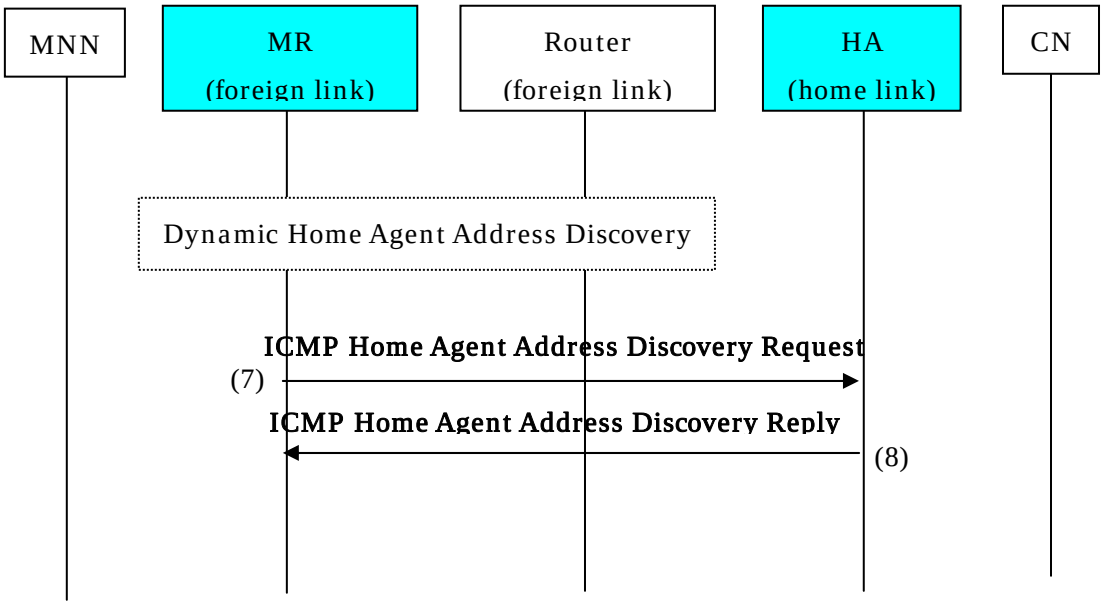



**Figure 3-3 Dynamic Home Agent Address Discovery**

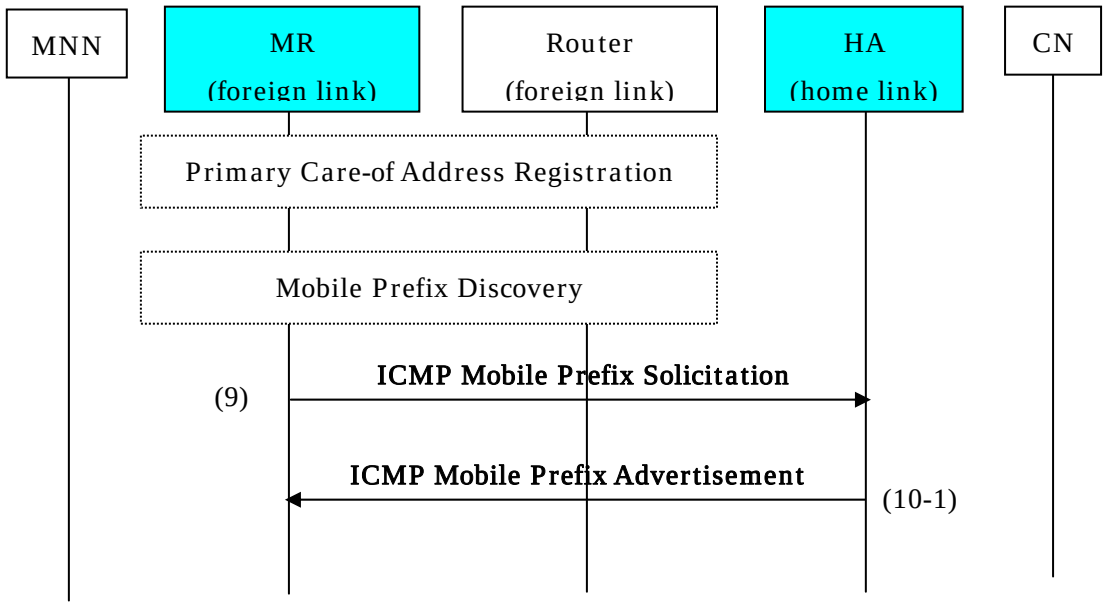



**Figure 3-4-1 Mobile Prefix Discovery**

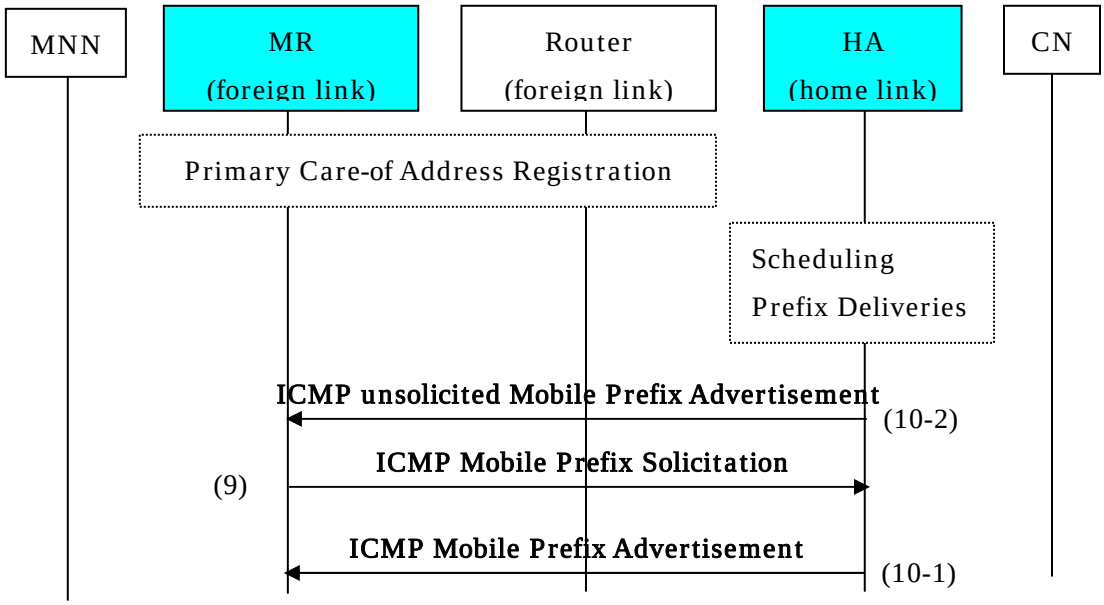



**Figure 3-4-2 Mobile Prefix Discovery (unsolicited Mobile Prefix Advertisement)**

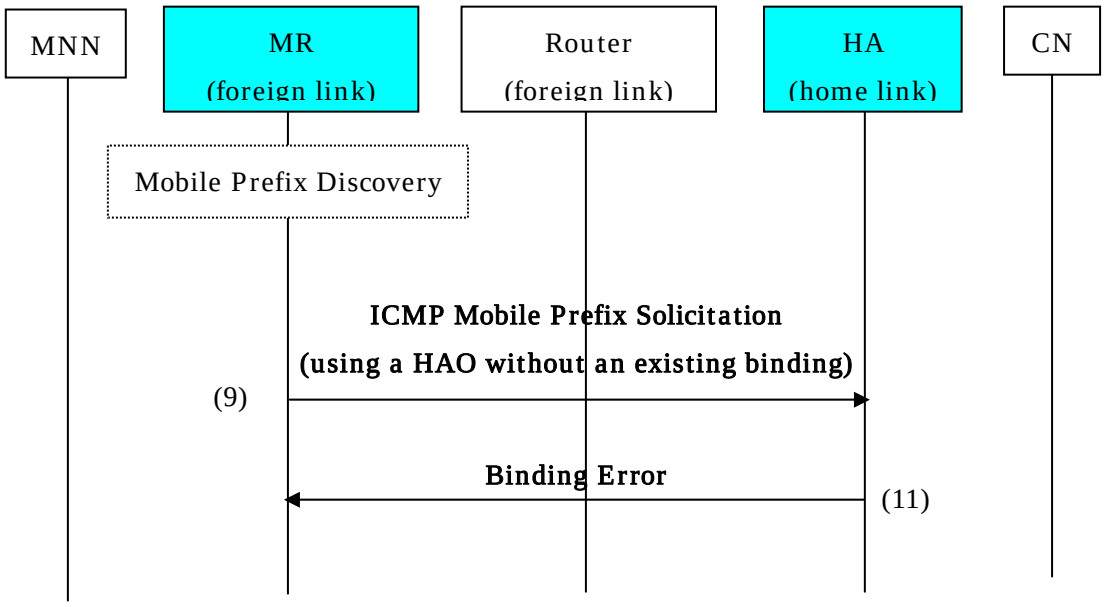



**Figure 3-5 Sending Binding Error message**

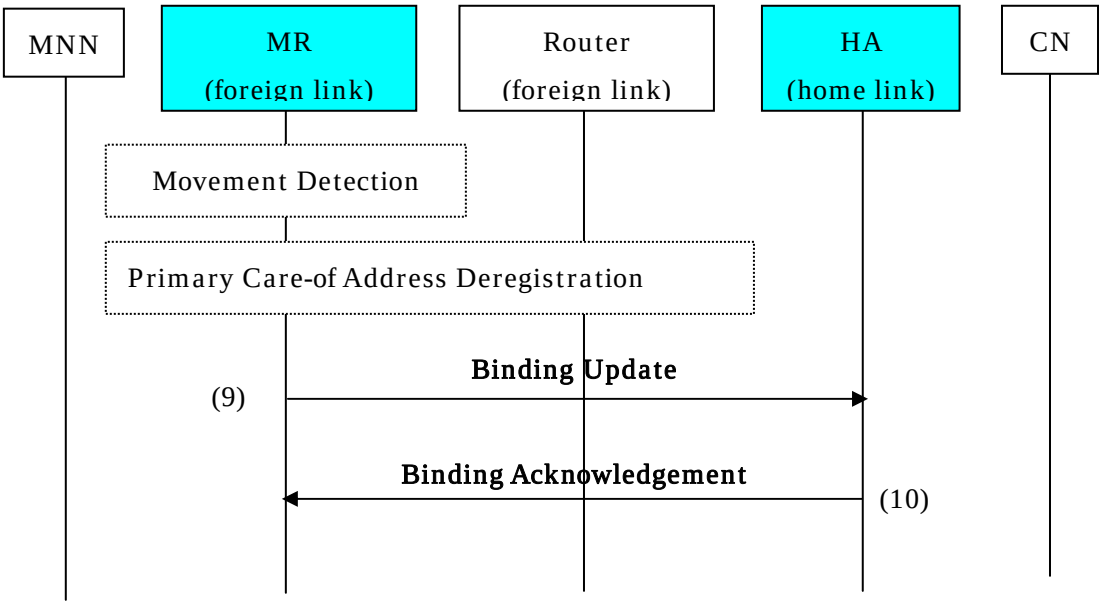



**Figure 3-6 Returning Home (Primary Care-of Address Deregistration)**

# 4. Packet formats

This section describes the reference NEMO packet formats that the NEMO Conformance Test utilizes in test sequences described in section 3. The NEMO Conformance Test sends packets in these formats to the target and expects to receive acknowledgement packets in corresponding formats from the target. Details of the packet formats are given in the Test Specification documents.

(1)-1 Binding Update message format (ESP) (Implicit mode) (MR -> HA)

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 60 | Hop Limit |
| Source Address (Care-of Address of Mobile Router 128 bits) | | | |
| Destination Address (Home Agent Address 128 bits) | | | |
| Next Header = 50 | Header Ext Len | Type = 1 | Option Len = 2 |
| Option Data = 0 | Option Data = 0 | Option Type =201 | Option Length =16 |
| Home Address of Mobile Router (128 bits) | | | |
| Security Parameters Index (SPI 32 bits) | | | |
| Sequence number (32 bits) | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | |
| Payload Proto = 59 | Header Len = 3 | MH Type = 5 | Reserved |
| Checksum | | Sequence number | |
| A H L K M R | Reserved | Lifetime | |
| Type = 1 | Option Length = 0 | Type = 3 | Length = 16 |
| Alternate Care-of Address of Mobile Node (128 bits) | | | |
| Padding (0-255 Bytes) | | Pad Len | Next Header = 135 |
| Authentication Data (variable length) | | | |

(1)-2 Binding Update message format (ESP) (Explicit mode) (MR -> HA)

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header=60 | Hop Limit |
| Source Address (Care-of Address of Mobile Router 128 bits) | | | |
| Destination Address (Home Agent Address 128 bits) | | | |
| Next Header = 50 | Header Ext Len | Type = 1 | Option Len = 2 |
| Option Data = 0 | Option Data = 0 | Option Type = 201 | Option Length =16 |
| Home Address of Mobile Router (128 bits) | | | |
| Security Parameters Index (SPI 32 bits) | | | |
| Sequence number (32 bits) | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | |
| Payload Proto = 59 | Header Len = 3 | MH Type = 5 | Reserved |
| Checksum | | Sequence number | |
| A H L K M R | Reserved | Lifetime | |
| Type = 1 | Option Length = 0 | Type = 3 | Length = 16 |
| Alternate Care-of Address of Mobile Node (128 bits) | | | |
| Type = 1 | Option Length = 2 | Option Data = 0 | Option Data = 0 |
| Type = 6 | Option Length = 18 | Reserved | Prefix Length |
| Mobile Network Prefix | | | |

| Padding (0-255 Bytes) | Pad Len | Next Header = 135 |
|---|---|---|
| Authentication Data (variable Len) | | |

(2). Binding Acknowledgement message format (ESP) (HA -> MR)

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 43 | Hop Limit |
| Source Address (Home Agent Address 128 bits) | | | |
| Destination Address (Source Address of an invoking Binding Update 128 bits) | | | |
| Next Header = 50 | Hdr Ext Len = 2 | Routing Type = 2 | Segments Left = 1 |
| Reserved | | | |
| Home Address of Mobile Node 128 bits) | | | |
| Security Parameters Index (SPI 32 bits) | | | |
| Sequence number (32 bits) | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | |
| Payload Proto = 59 | Header Len | MH Type = 6 | Reserved |
| Checksum | | Status | K \| R \| Reserved |
| Sequence number of BU | | Lifetime | |
| Type = 1 | Option Len = 2 | Option Data = 0 | Option Data = 0 |
| Padding (0-255 Bytes) | | Pad Length | Next Header = 135 |
| Authentication Data (variable length) | | | |

(3) Payload packet format（Packet sent to CN）

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 41 | Hop Limit |
| Source Address (Care-of Address of Mobile Router 128 bits) | | | |
| Destination Address (Home Agent Address 128 bits) | | | |
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 17 | Hop Limit |
| Source Address (Address of Mobile Network Node 128 bits) | | | |
| Destination Address (Correspondent Node Address 128 bits) | | | |
| Source Port | | Destination Port | |
| Length | | Checksum | |
| Data（variable length） | | | |

(4)Payload packet format（Received packet from Mobile Network Node）

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 17 | Hop Limit |
| Source Address (Address of Mobile Network Node 128 bits) | | | |
| Destination Address (Correspondent Node Address 128 bits) | | | |
| Source Port | | Destination Port | |
| Length | | Checksum | |
| Data（variable length） | | | |

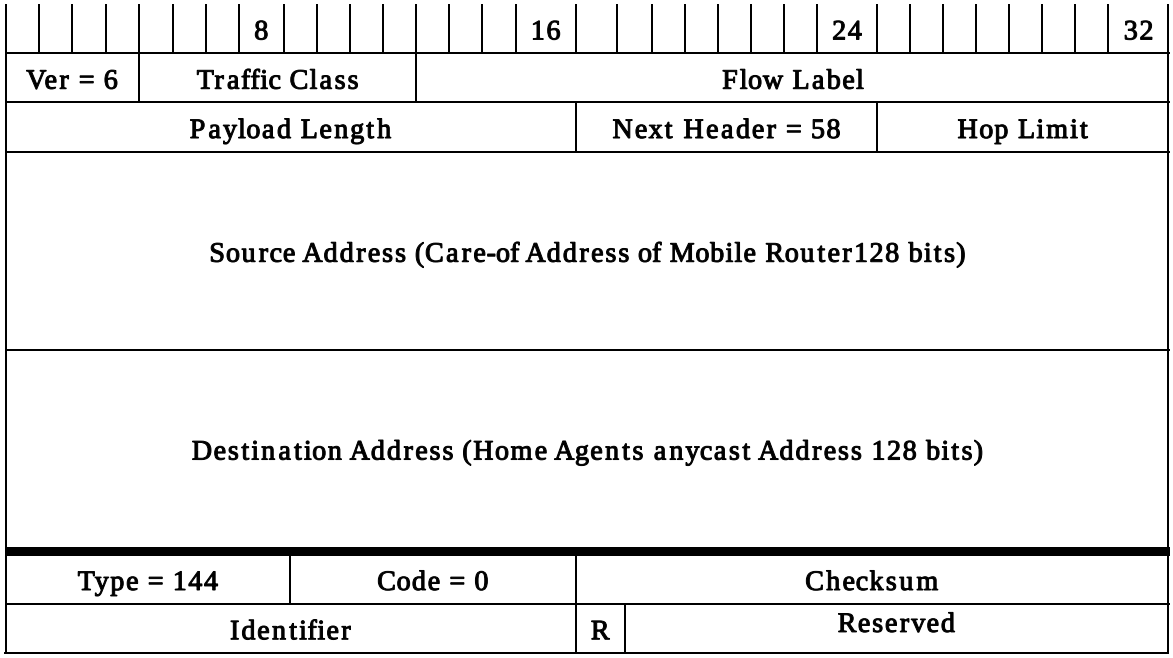
(5) Payload packet format（Packet received by Mobile Network Node）

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 17 | Hop Limit |
| Source Address (Correspondent Node Address 128 bits) | | | |
| Destination Address (Address of Mobile Network Node 128 bits) | | | |
| Source Port | | Destination Port | |
| Length | | Checksum | |
| Data（variable Len） | | | |

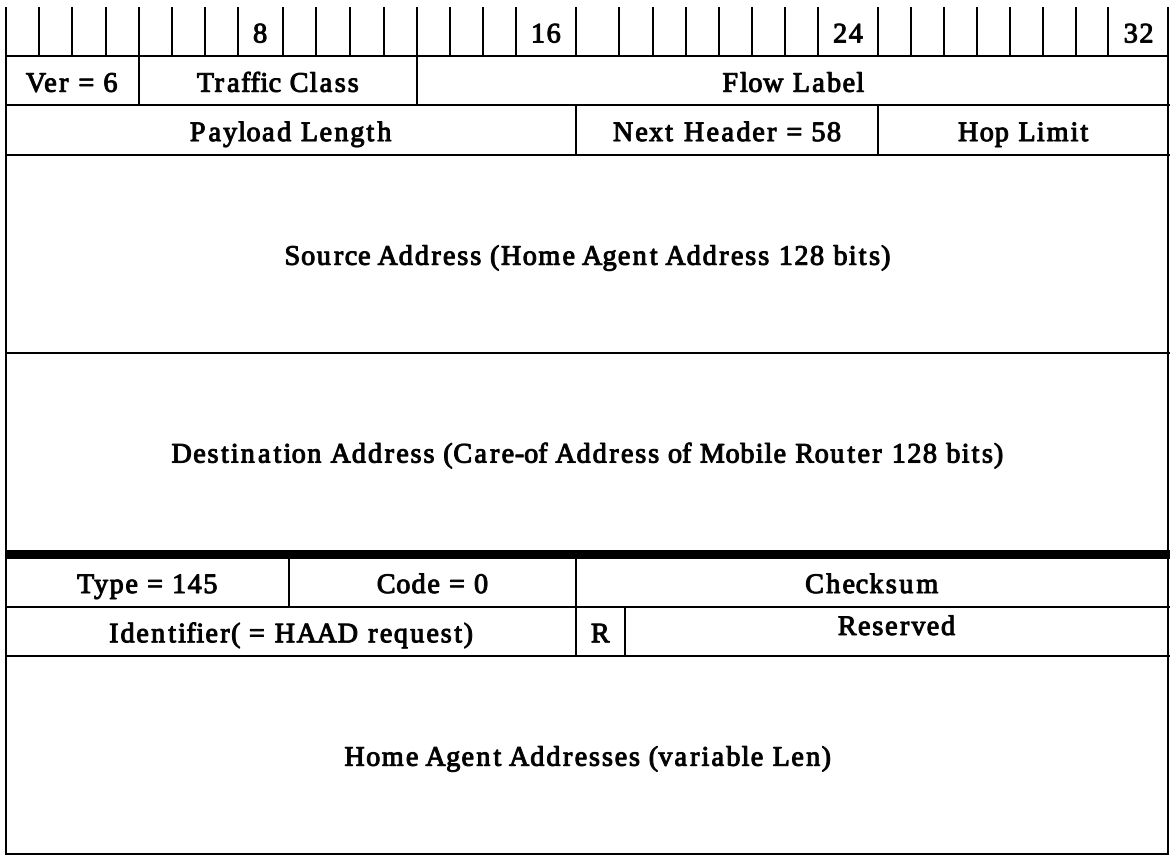
(6) Payload packet format（Packet transferred from CN）

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 41 | Hop Limit |
| Source Address (Home Agent Address 128 bits) | | | |
| Destination Address (Care-of Address of Mobile Router 128 bits) | | | |
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 17 | Hop Limit |
| Source Address (Correspondent Node Address 128 bits) | | | |
| Destination Address (Mobile Network Node 128 bits) | | | |
| Source Port | | Destination Port | |
| Length | | Checksum | |
| Data(variable Len) | | | |

(7) ICMP Home Agent Address Discovery request message format (MR -> HA)



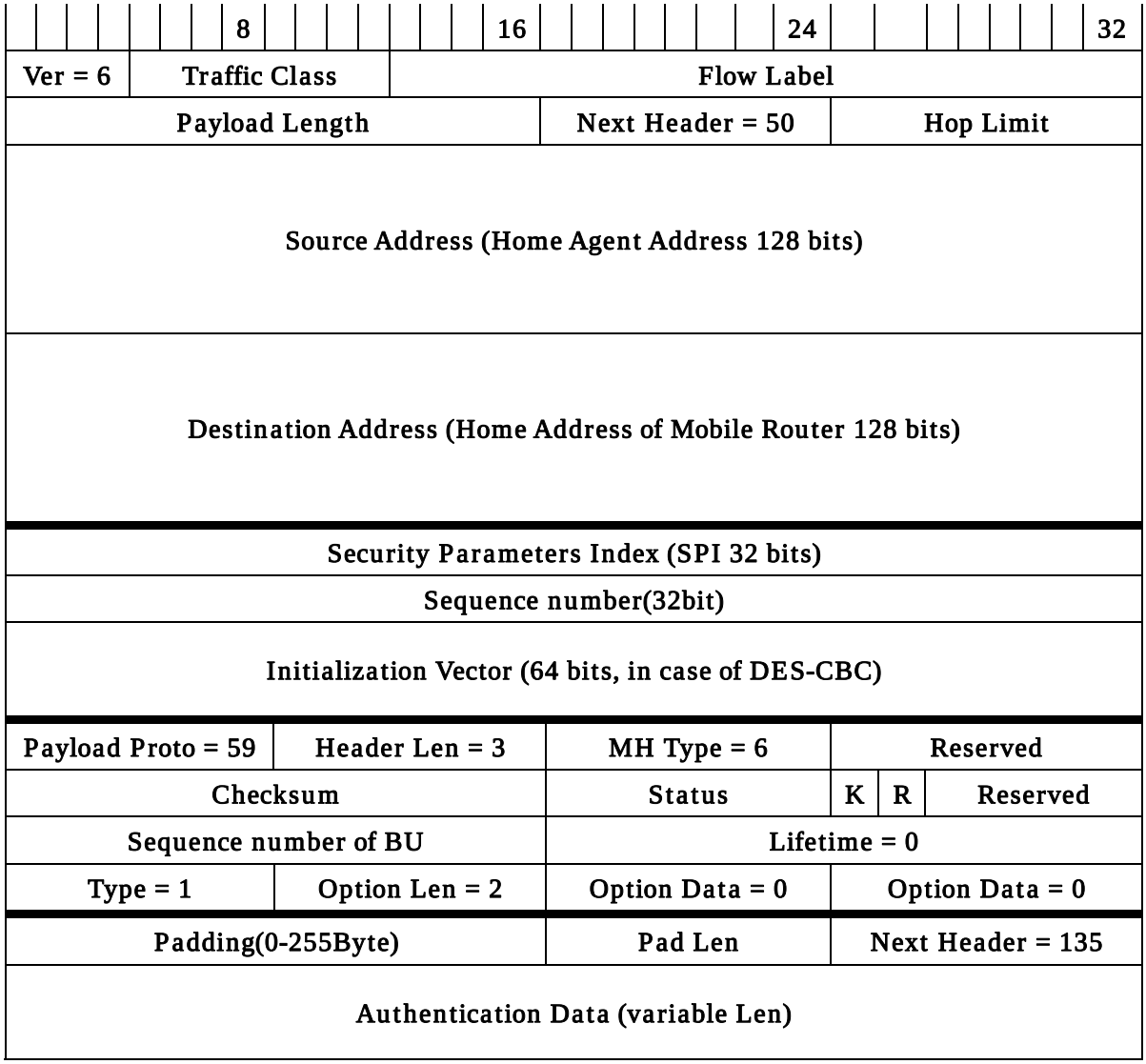
(8) ICMP Home Agent Address Discovery reply message format (HA -> MR)



(12) Binding Update message format (ESP)( MR -> HA )

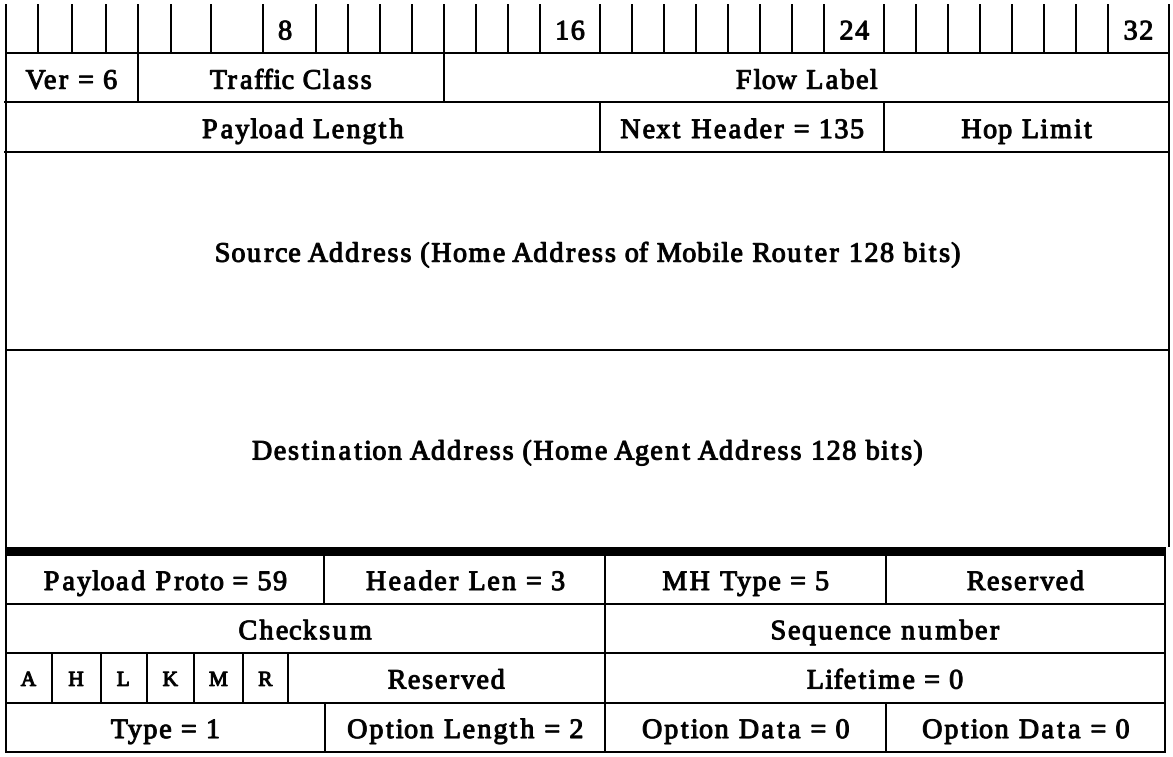
| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 50 | Hop Limit |
| Source Address (Home Address of Mobile Router 128 bits) | | | |
| Destination Address (Home Agent Address 128 bits) | | | |
| Security Parameters Index (SPI 32bit) | | | |
| Sequence number(32bit) | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | |
| Payload Proto = 59 | Header Len = 3 | MH Type = 5 | Reserved |
| Checksum | | Sequence number | |
| A H L K M R Reserved | | Lifetime = 0 | |
| Type = 1 | Option Len = 2 | Option Data = 0 | Option Data = 0 |
| Padding(0-255Byte) | | Pad Len | Next Header = 135 |
| Authentication Data (variable Len) | | | |

(13) Binding Acknowledgement message format (ESP)( HA -> MR)



| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 50 | Hop Limit |
| Source Address (Home Agent Address 128 bits) | | | |
| Destination Address (Home Address of Mobile Router 128 bits) | | | |
| Security Parameters Index (SPI 32 bits) | | | |
| Sequence number(32bit) | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | |
| Payload Proto = 59 | Header Len = 3 | MH Type = 6 | Reserved |
| Checksum | | Status | K / R / Reserved |
| Sequence number of BU | | Lifetime = 0 | |
| Type = 1 | Option Len = 2 | Option Data = 0 | Option Data = 0 |
| Padding(0-255Byte) | | Pad Len | Next Header = 135 |
| Authentication Data (variable Len) | | | |

(12*) Binding Update message Format ( MR -> HA )



| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 135 | Hop Limit |
| Source Address (Home Address of Mobile Router 128 bits) | | | |
| Destination Address (Home Agent Address 128 bits) | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Payload Proto = 59 | | | | | | Header Len = 3 | MH Type = 5 | Reserved | |
| Checksum | | | | | | | Sequence number | | |
| A | H | L | K | M | R | Reserved | Lifetime = 0 | | |
| Type = 1 | | | | | | Option Length = 2 | Option Data = 0 | Option Data = 0 | |

(13*) Binding Acknowledgement message format ( HA -> MR )

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 135 | Hop Limit |
| Source Address (Home Agent Address 128 bits) | | | |
| Destination Address (Home Address of Mobile Router 128 bits) | | | |

| | | | | | |
|---|---|---|---|---|---|
| Payload Proto = 59 | Header Len = 3 | MH Type = 6 | Reserved | | |
| Checksum | | Status | K | R | Reserved |
| Sequence number of BU | | Lifetime = 0 | | | |
| Type = 1 | Option Len = 2 | Option Data = 0 | Option Data = 0 | | |

(14) ICMP Mobile Prefix Solicitation message format (ESP)(MR -> HA)

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 60 | Hop Limit |
| Source Address (Care-of Address of Mobile Router 128 bits) | | | |
| Destination Address (Home Agent Address 128 bits) | | | |
| Next Header = 50 | Header Ext Len | Type = 1 | Option Len = 2 |
| Option Data = 0 | Option Data = 0 | Option Type = 201 | Option Length = 16 |
| Home Address of Mobile Router (128 bits) | | | |
| Security Parameters Index (SPI 32bit) | | | |
| Sequence number(32bit) | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | |
| Type = 146 | Code = 0 | Checksum | |
| Identifier | | Reserved | |
| Padding (0-255 Byte) | | Pad Len | Next Header = 58 |
| Authentication Data (variable Len) | | | |

(15) ICMP Mobile Prefix Advertisement message format (ESP)(HA->MR)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 8 | | | | | | | 16 | | | | | | | 24 | | | | | | | 32 | | | | |
| Ver = 6 | | | | Traffic Class | | | | | | | | Flow Label | | | | | | | | | | | | | | | | | | | |
| Payload Length | | | | | | | | | | | | | | | | Next Header = 43 | | | | | | | | Hop Limit | | | | | | | |
| Source Address (Home Agent Address 128 bits) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Destination Address (Source Address of an invoking Mobile Prefix Solicitation 128 bits) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Next Header = 50 | | | | | | | | Hdr Ext Len = 2 | | | | | | | | Routing Type = 2 | | | | | | | | Segments Left = 1 | | | | | | | |
| Reserved | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Home Address of Mobile Router (128 bits) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Parameters Index (SPI 32 bits) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sequence number(32bit) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type = 147 | | | | | | | | Code = 0 | | | | | | | | Checksum | | | | | | | | | | | | | | | |
| Identifier ( = MPS) | | | | | | | | | | | | | | | | M | | O | | Reserved | | | | | | | | | | | |
| Type = 3 | | | | | | | | Length = 4 | | | | | | | | Prefix Length | | | | | | | | L | A | | R | Reserved1 | | | |
| Valid Lifetime | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preferred Lifetime | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reserved 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mobile Network Prefix (128 bits) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Padding (0-255 Bytes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pad Len | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Next Header = 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Authentication Data (variable Len) |
|---|

(16) ICMP unsolicited Mobile Prefix Advertisement message format (ESP)(HA->MR)

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 43 | Hop Limit |
| Source Address (Home Agent Address 128 bits) | | | |
| Destination Address (Care-of Address of Mobile Router 128 bits) | | | |
| Next Header = 50 | Hdr Ext Len = 2 | Routing Type = 2 | Segments Left = 1 |
| Reserved | | | |
| Home Address of Mobile Router (128 bits) | | | |
| Security Parameters Index (SPI 32bit) | | | |
| Sequence number(32bit) | | | |
| Initialization Vector (64 bits, in case of DES-CBC) | | | |
| Type = 147 | Code = 0 | Checksum | |
| Identifier | | M O | Reserved |
| Type = 3 | Length = 4 | Prefix Length | L A R Reserved1 |
| Valid Lifetime | | | |
| Preferred Lifetime | | | |
| Reserved2 | | | |
| Mobile Network Prefix (128 bits) | | | |
| Padding(0-255Byte) | | Pad Len | Next Header = 58 |

| Authentication Data (variable Len) |
|---|

(11) Binding Error message ( HA -> MR )

| 8 | 16 | 24 | 32 |
|---|---|---|---|
| Ver = 6 | Traffic Class | Flow Label | |
| Payload Length | | Next Header = 135 | Hop Limit |
| Source Address (Home Agent Address 128 bits) | | | |
| Destination Address (Source Address of an invoking Mobile Prefix Solicitation 128 bits) | | | |
| Payload Proto = 59 | Header Len | MH Type = 7 | Reserved |
| Checksum | | Status = 1 | Reserved |
| Home Address of Mobile Node (128 bits) | | | |

# 5. Functional classification and test priority for individual NEMO nodes

## 5.1 Functional classification and test priority for HA

### 5.1.1 Functional classification and test priority for HA in RFC3963

This section describes the operation in Mobile IPv6 and the functional classifications for HA on the basis of the classifications given in section 2.3.

Notes

- "RFC section" gives the corresponding section number in the NEMO RFC referred to in section 2.2.
- "RFC section title" gives the section heading in the NEMO RFC referred to in section 2.2.
- In the column "Test Priority," "A1" indicates Rank A and Priority 1, "A2" indicates Rank-A and Priority 2, and "B" indicates Rank-B and Priority 2.
- In the column "Test PROFILE", "x" indicates that the function is supported.
- "Reason for Classification" gives the reason for the function's classification. A reason is given when Test Priority is "A2," "B," or "C."
- Some functions are common for both HA and MR, which are repeated in section 5.2.1.

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6. | Home Agent Operation | | For a Mobile Router to operate correctly, the Home Agent **MUST** satisfy all the requirements listed in Section 8.4 of [1]. | MUST | A | A1 | x | | | Refer to 8.4 in section 5.1.2 of NEMO(Network Mobility) Test Profile. |
| 2 | | | | The Home Agent **MUST** implement both modes described in Section 5.2 of this document. | MUST | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_4,NEMO-HA_2_2_5, NEMO-HA_2_2_6,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_14, NEMO-HA_2_11_15, NEMO-HA_2_12_4,NEMO-HA_2_12_6, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Nested mobility(Same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_6,NEMO-HA_2_1_9, NEMO-HA_2_1_14,NEMO-HA_2_1_15, NEMO-HA_2_2_1,NEMO-HA_2_2_2, NEMO-HA_2_2_3,NEMO-HA_2_2_7, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_3,NEMO-HA_2_10_4, NEMO-HA_2_10_5,NEMO-HA_2_10_6, NEMO-HA_2_11_1,NEMO-HA_2_11_2, NEMO-HA_2_11_3,NEMO-HA_2_11_4, NEMO-HA_2_11_5, NEMO-HA_2_11_7,NEMO-HA_2_11_8, NEMO-HA_2_11_9, NEMO-HA_2_12_1,NEMO-HA_2_12_3, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | | |
| | | | | | | | | | NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) | |
| 3 | 6.1 | Data structures | Binding Cache | The Home Agent maintains Binding Cache Entries for each Mobile Router<br>currently registered with the Home Agent. The Binding Cache is a conceptual data structure described in detail in [1].<br><br>The Home Agent might need to store the Mobile Network Prefixes associated with a Mobile Router in the corresponding Binding Cache Entry. This is required if the Binding Update that created the Binding Cache Entry contained explicit prefix information. This information can be used later to clean up routes installed in explicit mode, when the Binding Cache Entry is removed, and to maintain the routing table, for instance, should the routes be removed manually.<br><br>The Home Agent also stores the status of the Mobile Router Flag (R) in the Binding Cache entry. | (do) | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 4 | | | Prefix Table | The Home Agent **SHOULD** be able to prevent a Mobile Router from claiming Mobile Network Prefixes belonging to another Mobile Router. | SHOULD | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link | Prefix table |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_15,<br>NEMO-HA_2_11_17,<br>NEMO-HA_2_11_18,NEMO-HA_2_11_19,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link,<br>IKE | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_6,NEMO-HA_2_1_9, NEMO-HA_2_1_14,NEMO-HA_2_1_15, NEMO-HA_2_2_1,NEMO-HA_2_2_2, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_3,NEMO-HA_2_10_4, NEMO-HA_2_10_5,NEMO-HA_2_10_6, NEMO-HA_2_11_1,NEMO-HA_2_11_4, NEMO-HA_2_11_5, NEMO-HA_2_11_7,NEMO-HA_2_11_8, NEMO-HA_2_11_9, NEMO-HA_3_1_1,NEMO-HA_3_1_2, NEMO-HA_3_1_3,NEMO-HA_3_1_4, NEMO-HA_3_1_5,NEMO-HA_3_1_6, NEMO-HA_3_1_7,NEMO-HA_3_1_8, NEMO-HA_3_1_9,NEMO-HA_3_1_10, NEMO-HA_3_3_1,NEMO-HA_3_3_2, NEMO-HA_3_3_3,NEMO-HA_3_3_4, NEMO-HA_3_3_5,NEMO-HA_3_3_6, NEMO-HA_3_3_7,NEMO-HA_3_3_8, NEMO-HA_3_4_1,NEMO-HA_3_4_2, NEMO-HA_3_4_3,NEMO-HA_3_4_4, NEMO-HA_3_4_5,NEMO-HA_3_4_6, NEMO-HA_3_4_7,NEMO-HA_3_4_8, NEMO-HA_3_4_9,NEMO-HA_3_4_10, NEMO-HA_3_4_11,NEMO-HA_3_4_12, NEMO-HA_3_4_13,NEMO-HA_3_4_14, NEMO-HA_3_4_15, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 5 | | | | The Home Agent can prevent such attacks if it maintains a Prefix Table and verifies the Prefix information provided by the Mobile Router against Prefix Table entries. | (do) | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_15,<br>NEMO-HA_2_11_17,<br>NEMO-HA_2_11_18,NEMO-HA_2_11_19,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link | Prefix table |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9, | | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | | |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 6 | | | | The Prefix Table **SHOULD** be used<br>by the Home Agent when it processes a Binding Update in explicit mode. | SHOULD | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link | Prefix table |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_15,<br>NEMO-HA_2_11_17,<br>NEMO-HA_2_11_18,NEMO-HA_2_11_19,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link,<br>IKE | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_3,NEMO-HA_2_10_4, NEMO-HA_2_10_5,NEMO-HA_2_10_6, NEMO-HA_2_11_1,NEMO-HA_2_11_4, NEMO-HA_2_11_5, NEMO-HA_2_11_7,NEMO-HA_2_11_8, NEMO-HA_2_11_9, NEMO-HA_3_1_1,NEMO-HA_3_1_2, NEMO-HA_3_1_3,NEMO-HA_3_1_4, NEMO-HA_3_1_5,NEMO-HA_3_1_6, NEMO-HA_3_1_7,NEMO-HA_3_1_8, NEMO-HA_3_1_9,NEMO-HA_3_1_10, NEMO-HA_3_3_1,NEMO-HA_3_3_2, NEMO-HA_3_3_3,NEMO-HA_3_3_4, NEMO-HA_3_3_5,NEMO-HA_3_3_6, NEMO-HA_3_3_7,NEMO-HA_3_3_8, NEMO-HA_3_4_1,NEMO-HA_3_4_2, NEMO-HA_3_4_3,NEMO-HA_3_4_4, NEMO-HA_3_4_5,NEMO-HA_3_4_6, NEMO-HA_3_4_7,NEMO-HA_3_4_8, NEMO-HA_3_4_9,NEMO-HA_3_4_10, NEMO-HA_3_4_11,NEMO-HA_3_4_12, NEMO-HA_3_4_13,NEMO-HA_3_4_14, NEMO-HA_3_4_15, NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_4, NEMO-HA_4_2_5,NEMO-HA_4_2_6, NEMO-HA_4_2_7,NEMO-HA_4_2_8, NEMO-HA_4_2_9,NEMO-HA_4_2_10, NEMO-HA_4_2_11,NEMO-HA_4_2_12, NEMO-HA_4_2_13,NEMO-HA_4_2_14, NEMO-HA_4_2_15,NEMO-HA_4_2_16, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6, | | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 7 | | | | It is not required when a dynamic routing protocol is run between the Mobile Router and the Home Agent. | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | | | | Each entry in the Prefix Table contains the following fields:<br><br>- The Home Address of the Mobile Router. This field is used as the key for searching the pre-configured Prefix Table.<br><br>- The Mobile Network Prefix of the Mobile Router associated with the Home Address. | (do) | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_4,NEMO-HA_2_2_5, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_15, NEMO-HA_2_11_17, NEMO-HA_2_11_18,NEMO-HA_2_11_19, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_8,NEMO-HA_2_10_9, NEMO-HA_2_10_10,NEMO-HA_2_10_11, NEMO-HA_2_10_12, NEMO-HA_2_11_14, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link | Prefix table |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_6,NEMO-HA_2_1_9, NEMO-HA_2_1_14,NEMO-HA_2_1_15, NEMO-HA_2_2_1,NEMO-HA_2_2_2, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_3,NEMO-HA_2_10_4, NEMO-HA_2_10_5,NEMO-HA_2_10_6, NEMO-HA_2_11_1,NEMO-HA_2_11_4, NEMO-HA_2_11_5, NEMO-HA_2_11_7,NEMO-HA_2_11_8, NEMO-HA_2_11_9, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | | |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 9 | 6.2. | Mobile Network Prefix Registration | | The Home Agent processes the Binding Update as described in section<br>10.3.1 of the Mobile IPv6 specification [1]. | (do) | A | A1 | | | | Refer to 10.3 in section 5.1.2 of NEMO(Network Mobility) Test Profile. |
| 10 | | | This section describes the processing of the Binding Update if the Mobile Router (R) Flag is set. The Home Agent performs the following check. | - The Home Registration (H) Flag **MUST** be set. If it is not, the Home Agent MUST reject the Binding Update and send a Binding Acknowledgement with status set to 140. Note: The basic support does not allow sending a Binding Update for a Mobile Network Prefix to correspondent nodes (for route optimization). | MUST | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4, | Virtual Home link | Binding Update |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | Real Home link | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6, | | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 11 | | | | - The Home Registration (H) Flag MUST be set. If it is not, the Home Agent **MUST** reject the Binding Update and send a Binding Acknowledgement with status set to 140. Note: The basic support does not allow sending a Binding Update for a Mobile Network Prefix to correspondent nodes (for route optimization). | MUST | A | A1 | x | NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_11, | Virtual Home link | Binding Update |
| | | | | | | | A2 | x | NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_5, | Real Home link | |
| 12 | | | | - Mobile IPv6 specification [1] requires that the Home Address in the Binding Update be configured from a prefix advertised on the home link. Otherwise the Binding Update is rejected with status value 132 [1]. This specification relaxes this requirement so that the Home Agent rejects the Binding Update only if the Home Address does not belong to the prefix that the Home Agent is configured to serve. | (do) | A | A1 | x | NEMO-HA_2_2_4,NEMO-HA_2_2_5, | Virtual Home link | Binding Update |
| | | | | | | | A2 | x | NEMO-HA_2_2_1,NEMO-HA_2_2_2, | Real Home link | |
| 13 | | | | If the Home Agent has a valid binding cache entry for the Mobile Router, and if the Binding Update has the Mobile Router Flag (R) set to a value different from that in the existing binding cache entry, then the Home Agent **MUST** reject the Binding Update and send a Binding Acknowledgement with status set to 139 (Registration type change disallowed). However, if the Binding Update is a de-registration Binding Update, the Home Agent ignores the value of the Mobile Router Flag (R). | MUST | A | A1 | x | NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_12, | Virtual Home link | Binding Update (re-registration) |
| | | | | | | | A2 | x | NEMO-HA_2_10_3,NEMO-HA_2_10_4, NEMO-HA_2_10_6, | Real Home link | |
| 14 | | | | If the Home Agent has a valid binding cache entry for the Mobile Router, and if the Binding Update has the Mobile Router Flag (R) set to a value different from that in the existing binding cache entry, | (do) | A | A1 | x | NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, | Virtual Home link | Binding Update (de-registration) |

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| | | | | then the Home Agent **MUST** reject the Binding Update and send a Binding Acknowledgement with status set to 139 (Registration type change disallowed). However, if the Binding Update is a de-registration Binding Update, the Home Agent ignores the value of the Mobile Router Flag (R). | | | A2 | x | NEMO-HA_3_1_1,NEMO-HA_3_1_2, NEMO-HA_3_1_3,NEMO-HA_3_1_4, NEMO-HA_3_1_5,NEMO-HA_3_1_6, NEMO-HA_3_1_7,NEMO-HA_3_1_8, NEMO-HA_3_1_9,NEMO-HA_3_1_10, NEMO-HA_3_2_1,NEMO-HA_3_2_2, NEMO-HA_3_2_3,NEMO-HA_3_2_4, NEMO-HA_3_2_5,NEMO-HA_3_2_6, NEMO-HA_3_2_7,NEMO-HA_3_2_8, NEMO-HA_3_2_9,NEMO-HA_3_2_10, NEMO-HA_3_3_1,NEMO-HA_3_3_2, NEMO-HA_3_3_3,NEMO-HA_3_3_4, NEMO-HA_3_3_5,NEMO-HA_3_3_6, NEMO-HA_3_3_7,NEMO-HA_3_3_8, NEMO-HA_3_4_1,NEMO-HA_3_4_2, NEMO-HA_3_4_3,NEMO-HA_3_4_4, NEMO-HA_3_4_5,NEMO-HA_3_4_6, NEMO-HA_3_4_7,NEMO-HA_3_4_8, NEMO-HA_3_4_9,NEMO-HA_3_4_10, NEMO-HA_3_4_11,NEMO-HA_3_4_12, NEMO-HA_3_4_13,NEMO-HA_3_4_14, NEMO-HA_3_4_15, NEMO-HA_4_4_1,NEMO-HA_4_4_2, NEMO-HA_4_4_3,NEMO-HA_4_4_4, NEMO-HA_4_4_5,NEMO-HA_4_4_6, NEMO-HA_4_4_7,NEMO-HA_4_4_8, NEMO-HA_4_4_9,NEMO-HA_4_4_13, NEMO-HA_4_4_14,NEMO-HA_4_4_15, NEMO-HA_6_2_3,NEMO-HA_6_2_4, NEMO-HA_6_7_3,NEMO-HA_6_7_4, | Real Home link | |
| 15 | | | | If the Lifetime specified in the Binding Update is 0 or the specified Care-of address matches the Home Address in the Binding Update, then this is a request to delete the cached binding for the home address and specified Mobile Network Prefixes. The Binding Update is processed as described in section 6.7. | (do) | A | A1 | | | | Refer to 6.7 in section 5.1.1 of NEMO(Network Mobility) Test Profile. (Mobile Network Prefix De-Registration) |
| 16 | | | If the Home Agent does not reject the Binding Update as invalid, and if a dynamic routing protocol | - If a Mobile Network Prefix Option is present in the Binding Update, the prefix information for the Mobile Network Prefix is retrieved from the Mobile Network Prefix field and the Prefix Length field of the option. If the Binding Update contains more than one option, the Home Agent **MUST** set up forwarding for all the Mobile Network Prefixes. If the Home Agent fails to set up | MUST | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link | Binding Update (registration) |

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| | | | is not run between the Home Agent and the Mobile Router as described in section 8, then the Home Agent retrieves the Mobile Network Prefix information as described below. | forwarding to all the prefixes listed in the Binding Update, then it MUST NOT forward traffic to any of the prefixes, Furthermore, it MUST reject the Binding Update and send a Binding Acknowledgement with status set to 141 (Invalid Prefix). | | | | | NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_8,NEMO-HA_2_10_9, NEMO-HA_2_10_10,NEMO-HA_2_10_11, NEMO-HA_2_10_12, NEMO-HA_2_11_14, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |

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| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_6,NEMO-HA_2_1_9, NEMO-HA_2_1_14,NEMO-HA_2_1_15, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, NEMO-HA_2_10_2,NEMO-HA_2_10_3, NEMO-HA_2_10_4,NEMO-HA_2_10_5, NEMO-HA_2_10_6, NEMO-HA_2_11_4, NEMO-HA_3_1_1,NEMO-HA_3_1_2, NEMO-HA_3_1_3,NEMO-HA_3_1_4, NEMO-HA_3_1_5,NEMO-HA_3_1_6, NEMO-HA_3_1_7,NEMO-HA_3_1_8, NEMO-HA_3_1_9,NEMO-HA_3_1_10, NEMO-HA_3_3_1,NEMO-HA_3_3_2, NEMO-HA_3_3_3,NEMO-HA_3_3_4, NEMO-HA_3_3_5,NEMO-HA_3_3_6, NEMO-HA_3_3_7,NEMO-HA_3_3_8, NEMO-HA_3_4_1,NEMO-HA_3_4_2, NEMO-HA_3_4_3,NEMO-HA_3_4_4, NEMO-HA_3_4_5,NEMO-HA_3_4_6, NEMO-HA_3_4_7,NEMO-HA_3_4_8, NEMO-HA_3_4_9,NEMO-HA_3_4_10, NEMO-HA_3_4_11,NEMO-HA_3_4_12, NEMO-HA_3_4_13,NEMO-HA_3_4_14, NEMO-HA_3_4_15, NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_4, NEMO-HA_4_2_5,NEMO-HA_4_2_6, NEMO-HA_4_2_7,NEMO-HA_4_2_8, NEMO-HA_4_2_9,NEMO-HA_4_2_10, NEMO-HA_4_2_11,NEMO-HA_4_2_12, NEMO-HA_4_2_13,NEMO-HA_4_2_14, NEMO-HA_4_2_15,NEMO-HA_4_2_16, | Real Home link | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6, | | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |

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| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 17 | | | | - If a Mobile Network Prefix Option is present in the Binding Update, the prefix information for the Mobile Network Prefix is retrieved from the Mobile Network Prefix field and the Prefix Length field of the option. If the Binding Update contains more than one option, the Home Agent MUST set up forwarding for all the Mobile Network Prefixes. If the Home Agent fails to set up forwarding to all the prefixes listed in the Binding Update, then it **MUST NOT** forward traffic to any of the prefixes. Furthermore, it **MUST** reject the Binding Update and send a Binding Acknowledgement with status set to 141 (Invalid Prefix). | MUST NOT | A | A1 | x | NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_11, | Virtual Home link | Binding Update (registration) |
| | | | | | | | A2 | x | NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_5, | Real Home link | |
| 18 | | | | | MUST | A | A1 | x | NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_11, | Virtual Home link | Binding Update (registration) |
| | | | | | | | A2 | x | NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_5, | Real Home link | |
| 19 | | | | If the Home Agent verifies the prefix information with the Prefix Table and the check fails, the Home Agent **MUST** discard the Binding Update and send a Binding Acknowldegement with status set to | MUST | A | A1 | x | EMO-HA_2_11_19, | Virtual Home link | Binding Update (registration) |
| | | | | | | | A2 | x | NEMO-HA_2_11_9, | Real Home link | |
| 20 | | | | - If there are is no option in the Binding Update carrying prefix information, the Home Agent uses manual pre-configured information to determine the prefixes assigned to the Mobile Router and to set up forwarding for the mobile network. If there is no information that the Home Agent can use, it **MUST** reject the Binding Update and send a Binding Acknowledgement with status set to 143 (Forwarding Setup failed). | (do) | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_10_8,NEMO-HA_2_10_9, NEMO-HA_2_10_10,NEMO-HA_2_10_11, NEMO-HA_2_10_12, NEMO-HA_2_12_4, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, | Virtual Home link | Binding Update (registration) |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_12_1, | Real Home link | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | | |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3, | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 21 | | | | - If there are is no option in the Binding Update carrying prefix information, the Home Agent uses manual pre-configured information to determine the prefixes assigned to the Mobile Router and to set up forwarding for the mobile network. If there is no information that the Home Agent can use, it **MUST** reject the Binding Update and send a Binding Acknowledgement with status set to 143 (Forwarding Setup failed). | MUST | A | A1 | x | NEMO-HA_2_12_6, | Virtual Home link | Binding Update (registration) |
| | | | | | | | A2 | x | NEMO-HA_2_12_3, | Real Home link | |
| 22 | | | | If the Home Agent has a valid binding cache entry for the Mobile Router, it should compare the list of prefixes in the Binding Update against the prefixes stored in the binding cache entry. If the binding cache entry contains prefixes that do not appear in the Binding Update, the Home Agent **MUST** disable forwarding for these Mobile Network Prefixes. | MUST | A | A1 | x | NEMO-HA_5_4_17,NEMO-HA_5_4_18, NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link | Binding Update (registration) |
| | | | | | | | A2 | x | NEMO-HA_5_4_10,NEMO-HA_5_4_11, NEMO-HA_6_7_5,NEMO-HA_6_7_6, | Real Home link | |

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| 23 | | | | If all checks are passed, the Home Agent creates a binding cache entry for Mobile Router's Home Address or updates the entry if it already exists. Otherwise, the Home Agent **MUST NOT** register the binding of the Mobile Router's Home Address. | (do) | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link | Binding Update (registration) |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_6,NEMO-HA_2_1_9, NEMO-HA_2_1_14,NEMO-HA_2_1_15, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, NEMO-HA_2_10_2,NEMO-HA_2_10_3, NEMO-HA_2_10_4,NEMO-HA_2_10_5, NEMO-HA_2_10_6, NEMO-HA_2_11_4, NEMO-HA_2_12_1, | Real Home link | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2, NEMO-HA_3_1_3,NEMO-HA_3_1_4, NEMO-HA_3_1_5,NEMO-HA_3_1_6, NEMO-HA_3_1_7,NEMO-HA_3_1_8, NEMO-HA_3_1_9,NEMO-HA_3_1_10, NEMO-HA_3_3_1,NEMO-HA_3_3_2, NEMO-HA_3_3_3,NEMO-HA_3_3_4, NEMO-HA_3_3_5,NEMO-HA_3_3_6, NEMO-HA_3_3_7,NEMO-HA_3_3_8, NEMO-HA_3_4_1,NEMO-HA_3_4_2, NEMO-HA_3_4_3,NEMO-HA_3_4_4, NEMO-HA_3_4_5,NEMO-HA_3_4_6, NEMO-HA_3_4_7,NEMO-HA_3_4_8, NEMO-HA_3_4_9,NEMO-HA_3_4_10, NEMO-HA_3_4_11,NEMO-HA_3_4_12, NEMO-HA_3_4_13,NEMO-HA_3_4_14, NEMO-HA_3_4_15, | | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 24 | | | | If all checks are passed, the Home Agent creates a binding cache entry for Mobile Router's Home Address or updates the entry if it already exists. Otherwise, the Home Agent **MUST NOT** register the binding of the Mobile Router's Home Address. | MUST | A | A1 | x | NEMO-HA_1_1_8,NEMO-HA_1_1_9, NEMO-HA_1_1_10, NEMO-HA_2_2_4,NEMO-HA_2_2_5, NEMO-HA_2_2_6,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_15, NEMO-HA_2_11_17, NEMO-HA_2_11_18,NEMO-HA_2_11_19, NEMO-HA_2_12_6, | Virtual Home link | Binding Update (registration) |
| | | | | | | | A2 | x | NEMO-HA_1_1_1,NEMO-HA_1_1_2, NEMO-HA_1_1_3,NEMO-HA_1_1_4, NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_2_1,NEMO-HA_2_2_2, NEMO-HA_2_2_3,NEMO-HA_2_2_7, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, | Real Home link | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_3,NEMO-HA_2_10_4, NEMO-HA_2_10_5,NEMO-HA_2_10_6, NEMO-HA_2_11_1,NEMO-HA_2_11_2, NEMO-HA_2_11_3,NEMO-HA_2_11_5, NEMO-HA_2_11_7, NEMO-HA_2_11_8,NEMO-HA_2_11_9, NEMO-HA_2_12_3, | | |
| 25 | | | | The Home Agent defends the Mobile Router's Home Address through Proxy Neighbor Discovery by multicasting a Neighbor Advertisement message onto the home link on behalf of the Mobile Router. All fields in the Proxy Neighbor Advertisement message should be set in the same way they would be set by the Mobile Router if it sent this Neighbor Advertisement while at home, as described in [6]. There is an exception: If the Mobile Router (R) Flag has been set in the Binding Update, the Router (R) bit in the Advertisement **MUST** be set. | MUST | A | A2 | x | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link | Binding Update (registration) |
| 26 | | | | The Home Agent also creates a bi-directional tunnel to the Mobile Router for the requested Mobile Network Prefix or update an existing bi-directional tunnel as described in section 6.4. | (do) | A | A1 | | | | Refer to 6.4 in section 5.1.1 of NEMO(Network Mobility) Test Profile. (Establishment of Bi-directional Tunnel) |
| 27 | 6.3. | Advertising Mobile Network Reachability | | To receive packets meant for the Mobile Network, the Home Agent advertises reachability to the Mobile Network. | (do) | A | A1 | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 28 | | | | If the Home Link is configured with an aggregation prefix and the Mobile Network Prefix is aggregated under that prefix, then the routing changes related to the | (do) | A | A1 | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 29 | | | | If the Home Agent is the only default router on the Home Link, routes to the Mobile Network Prefix are get aggregated naturally under the Home Agent, which and the Home Agent does not have to do anything special. | (do) | A | A1 | | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| 30 | | | | If the Home Agent receives routing updates through a dynamic routing<br>protocol from the Mobile Router, it can be configured to propagate those routes on the relevant interfaces. | (do) | - | - | | | | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing |
| 31 | 6.4. | Establishment of Bi-directional Tunnel | | The implementation of the bi-directional tunnels and the mechanism for attaching them to the IP stack are outside the scope of this specification. | (do) | - | - | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 32 | | | | However, all implementations **MUST** be capable of the following operations.<br><br>- The Home Agent can tunnel packets meant for the Mobile Network<br>prefix to the Mobile Router's current location, the Care-of Address.<br><br>- The Home Agent can accept packets tunneled by the Mobile Router<br>with source address of the outer IPv6 header set to the Mobile Router's Care-of Address. | MUST | A | A1 | x | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link | bi-directional tunneling |
| | | | | | | | A2 | x | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Nested mobility(Same HA) | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, | Real Home link | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2, NEMO-HA_6_4_1,NEMO-HA_6_4_2, NEMO-HA_6_4_4, NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) | |
| 33 | 6.5. | Forwarding Packets | | When the Home Agent receives a data packet destined for the Mobile Network, it **MUST** forward the packet to the Mobile Router through the bi-directional tunnel. | MUST | A | A1 | x | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_21, NEMO-HA_9_1_22,NEMO-HA_9_1_23, NEMO-HA_9_1_24,NEMO-HA_9_1_25, NEMO-HA_9_1_26,NEMO-HA_9_1_27, NEMO-HA_9_1_28,NEMO-HA_9_1_29, NEMO-HA_9_1_30,NEMO-HA_9_1_31, NEMO-HA_9_1_32, | Virtual Home link | Forwarding |
| | | | | | | | A2 | x | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, | Real Home link | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_5, NEMO-HA_9_1_6,NEMO-HA_9_1_7, NEMO-HA_9_1_8,NEMO-HA_9_1_9, NEMO-HA_9_1_10,NEMO-HA_9_1_11, NEMO-HA_9_1_12,NEMO-HA_9_1_13, NEMO-HA_9_1_14,NEMO-HA_9_1_15, NEMO-HA_9_1_16, | | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 34 | | | The Home Agent uses either the routing table, the Binding Cache, or a combination, to route packets to the Mobile Network..This is implementation specific. Two examples are shown below. | 1. The Home Agent maintains a route to the Mobile Network Prefix with<br>the next hop set to the Mobile Router's Home Address. When the Home Agent tries to forward the packet to the next hop, it finds a binding cache entry for the home address. Then the Home Agent extracts the Mobile R outer's Care-of address and tunnels the packet to the Care-of address. | (do) | - | - | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 35 | | | | 2. The Home Agent maintains a route to the Mobile Network Prefix with<br>the outgoing interface set to the bi-directional tunnel interface between the Home Agent and the Mobile Router. For this purpose,<br>the Home Agent **MUST** treat this tunnel as a tunnel interface. When<br>the packets are forwarded through the tunnel interface, they are encapsulated automatically, with the source address and destination address in the outer IPv6 header set to the Home Agent's address and the Mobile Router's Care-of address, respectively. | MUST | - | - | | | | This function is implementaion-dependent. It does not effect on interoperability. |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | 6.6. | Sending Binding Acknowledgements | | A Home Agent serving a Mobile Router sends Binding Acknowledgements with the same rules it uses for sending Binding Acknowledgements to Mobile Hosts [1], | (do) | A | A1 | | | | Refer to 8.4 in section 5.1.2 of NEMO(Network Mobility) Test Profile. Binding Acknowledgement (registration) |
| 37 | | | with the following enhancements. | The Home Agent sets the status code in the Binding Acknowledgement to 0 (Binding Update accepted) to indicate to the Mobile Router that it successfully processed the Binding Update. | (do) | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_8,NEMO-HA_2_10_9, NEMO-HA_2_10_10,NEMO-HA_2_10_11, NEMO-HA_2_10_12, NEMO-HA_2_11_14, NEMO-HA_2_12_4, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link | Binding acknowledgement |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 38 | | | | It also sets the Mobile<br>Router Flag (R) to indicate to the Mobile Router that it has set up forwarding for the Mobile Network. | (do) | A | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link | Binding acknowledgement |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6, | | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |

| No. | RFC Section | RFC Section title Item | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Confuigration | Reason of TEST Priority |
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| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 39 | | | | If the Home Agent is not configured to support Mobile Routers, it sets the status code in the Binding Acknowledgement to 140 (Mobile Router Operation not permitted). | (do) | A | A1 | x | NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_11, | Virtual Home link | Binding acknowledgement |
| | | | | | | | A2 | x | NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_5, | Real Home link | |
| 40 | | | | If one or more prefixes received in the Binding Update are invalid and the Home Agent cannot set up forwarding for the prefixes, the Home Agent sets the status code in the Binding Acknowledgement to 141 (Invalid Prefix) to indicate this to the Mobile Router. | (do) | A | A1 | x | NEMO-HA_2_11_15, NEMO-HA_2_11_17,NEMO-HA_2_11_18, | Virtual Home link | Binding acknowledgement |
| | | | | | | | A2 | x | NEMO-HA_2_11_5, NEMO-HA_2_11_7,NEMO-HA_2_11_8, | Real Home link | |
| 41 | | | | If the Mobile Router is not authorized to use this Home Address to forward packets for one or more prefixes present in the Binding Update, the Home Agent sets the status code in the Binding Acknowledgement to '142' (Not Authorized for Prefix) to indicate this. | (do) | A | A1 | x | NEMO-HA_2_11_19, | Virtual Home link | Binding acknowledgement |
| | | | | | | | A2 | x | NEMO-HA_2_11_9, | Real Home link | |
| 42 | | | | The Home Agent sets the status code to 143 (Forwarding Setup failed) if it is unable to determine the information needed to set up forwarding for the Mobile Network. This is used in the Implicit mode, in which the Mobile Router does not include any prefix information in the Binding Update. | (do) | A | A1 | x | NEMO-HA_2_11_11, NEMO-HA_2_12_6, | Virtual Home link | Binding acknowledgement |
| | | | | | | | A2 | x | NEMO-HA_2_11_1, NEMO-HA_2_12_3, | Real Home link | |
| 43 | 6.7. | Mobile Network Prefix De-Registration | | When the Home Agent successfully processes the de-registration BU, it deletes the Binding Cache Entry for the Mobile Router's Home Address and stops proxying the Home Address. This is described in detail in the Mobile IPv6 specification [1]. | (do) | A | A1 | | | | Refer to 10.3.2 in section 5.1.2 of NEMO(Network Mobility) Test Profile. Binding acknowledgement (de-registration) |

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| 44 | | | | In addition, the Home Agent removes the bi-directional tunnel and stops forwarding packets to the Mobile Network. The Home Agent should keep all necessary information to clean up whichever routes it installed, whether they come from an implicit or explicit source. | (do) | A | A1 | x | NEMO-HA_6_2_4, NEMO-HA_6_7_3, | Virtual Home link | Binding acknowledgement (de-registration) |
| | | | | | | | A2 | x | NEMO-HA_6_2_3, NEMO-HA_6_7_3, | Real Home link | |
| 45 | | | | In Explicit mode, the Home Agent **MUST** ignore any Mobile Network Prefix Options present in the de-registration Binding Update. | MUST | A | A1 | x | NEMO-HA_3_4_17,NEMO-HA_3_4_18, NEMO-HA_3_4_19,NEMO-HA_3_4_20, | Virtual Home link | Binding update (de-registration) |
| | | | | | | | A2 | x | NEMO-HA_3_4_2,NEMO-HA_3_4_3, NEMO-HA_3_4_4,NEMO-HA_3_4_5, NEMO-HA_3_4_7,NEMO-HA_3_4_8, NEMO-HA_3_4_9,NEMO-HA_3_4_10, NEMO-HA_3_4_12,NEMO-HA_3_4_13, NEMO-HA_3_4_14,NEMO-HA_3_4_15, | Real Home link | |


[1] D. Johnson, C. Perkins and J. Arkko. Mobility Support in IPv6. RFC3775, IETF. June 2004.

[6] T. Narten, E. Nordmark and W. Simpson. Neighbour Discovery for IP Version 6 (IPv6). RFC 2461, IETF. December 1998.

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7 | Modifications to Dynamic Home Agent Address Discovery | This document extends the Dynamic Home Agent Address Discovery (DHAAD) defined in [1] so that Mobile Routers attempt registration with Home Agents that support them. | MR | (do) | A | A2 | x | NEMO-MR-5-1-2-1-002<br>NEMO-MR-5-1-2-1-016<br>NEMO-MR-5-1-2-1-021 | DHAAD | DHAAD<br>refer to 10.5 and 11.4 in section 5.1.2 of NEMO(Network Mobility) Test Profile |
| | | | | HA | | | | | NEMO-HA_7_1_2,NEMO-HA_7_1_4,<br>NEMO-HA_7_1_6, | Virtual Home Link,<br>DHAAD | |
| | | | | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3,<br>NEMO-HA_7_1_5,<br>NEMO-HA_7_2_1,NEMO-HA_7_2_2,<br>NEMO-HA_7_2_3,NEMO-HA_7_2_4,<br>NEMO-HA_7_2_5,NEMO-HA_7_2_6,<br>NEMO-HA_7_2_7,NEMO-HA_7_2_8,<br>NEMO-HA_7_2_9,NEMO-HA_7_2_10,<br>NEMO-HA_7_2_11,NEMO-HA_7_2_12,<br>NEMO-HA_7_2_13,NEMO-HA_7_2_14,<br>NEMO-HA_7_2_15,<br><br>NEMO-HA_7_3_1,NEMO-HA_7_3_2,<br>NEMO-HA_7_4_1,NEMO-HA_7_4_2,<br>NEMO-HA_7_5_1,<br>NEMO-HA_7_6_1,NEMO-HA_7_6_2,<br>NEMO-HA_7_6_3,NEMO-HA_7_6_4,<br>NEMO-HA_7_6_5,NEMO-HA_7_6_6,<br>NEMO-HA_7_6_7,NEMO-HA_7_6_8,<br>NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link,<br>DHAAD | |
| 2 | 7.1. | Modified Dynamic Home Agent Address Discovery Request | A new flag (R) (Support for Mobile Routers) is introduced in the DHAAD request message, defined in [1]. The Mobile Router sets this flag to indicate that it wants to discover Home Agents that supporting<br>Mobile Routers. | MR | (do) | A | A2 | x | NEMO-MR-5-1-1-1-001<br>NEMO-MR-5-1-1-1-005<br>NEMO-MR-5-1-1-1-006 | DHAAD | DHAAD |
| 3 | | | 0 1 2 3<br>0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Type \| Code \| Checksum \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Identifier \|R\| Reserved \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br><br>Mobile Router Support Flag (R)<br><br>A one-bit flag that when set indicates that the Mobile Router wants to discover Home Agents supporting Mobile Routers.<br><br>For a description of the other fields in the message, see [1]. | MR | (do) | A | A2 | | | | DHAAD |
| 4 | 7.2. | Modified Dynamic Home | A new flag (R) (Support for Mobile Routers) is introduced in the DHAAD reply message, defined in [1]. If a Home Agent receives a | HA | MUST | A | A2 | x | NEMO-HA_7_1_2,NEMO-HA_7_1_4, | Virtual Home Link,<br>DHAAD | DHAAD |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
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| | | Agent Address Discovery Reply | Dynamic Home Agent Discovery request message with the Mobile Router<br>Support Flag set, it **MUST** reply with a list of Home Agents supporting<br>Mobile Routers. | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15,<br>NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link, DHAAD | |
| 5 | | | The Mobile Router Support Flag MUST be set if there is at least one Home Agent that supporting Mobile Routers. | HA | MUST | A | A2 | x | NEMO-HA_7_1_2,NEMO-HA_7_1_4,<br>NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15,<br>NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Virtual Home Link, DHAAD<br>Real Home link, DHAAD | DHAAD |
| 6 | | | If none of the Home Agents support Mobile Routers, the Home Agent **MAY** reply with a list of Home Agents that only support Mobile IPv6 Mobile Nodes. | HA | MAY | B | B | x | NEMO-HA_7_1_6,<br>NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, | Virtual Home Link, DHAAD<br>Real Home link, DHAAD | DHAAD |

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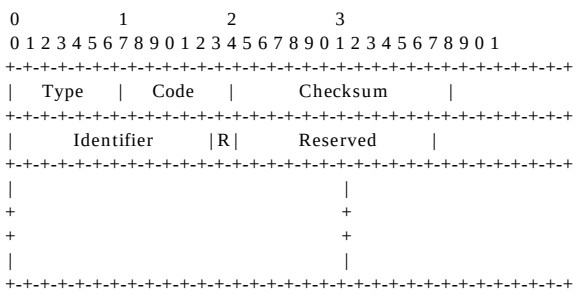
| | | | | | | | | | NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | | |
| 7 | | | In this case, the Mobile Router Support Flag **MUST** be set to 0. | HA | MUST | A | A2 | x | NEMO-HA_7_1_6,<br>NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15,<br>NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Virtual Home Link, DHAAD<br>Real Home link, DHAAD | DHAAD |
| 8 | | | The modified message format is as follows.<br>  <br>Mobile Router Support Flag (R)<br>A one-bit flag that when set indicates that the Home Agents listed in this message support Mobile Routers. | HA | (do) | A | A2 | x | NEMO-HA_7_1_2,NEMO-HA_7_1_4, NEMO-HA_7_1_6, | Virtual Home Link, DHAAD | DHAAD |

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| | | | For a description of the other fields in the message, see [1]. | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link, DHAAD | |
| 9 | 7.3 | Modified Home Agent Information Option | A new flag (R) (Support for Mobile Routers) is introduced in the Home Agent Information Option defined in [1]. If a Home Agent supports Mobile Routers, it **SHOULD** set the flag. | HA | SHOULD | A | A2 | x | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link, DHAAD | Router advertisement |
| 10 | | | 0 1 2 3<br>0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Type \| Length \|R\| Reserved \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Home Agent Preference \| Home Agent Lifetime \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ | HA | (do) | A | A2 | x | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, | Real Home link, DHAAD | Home agent information option |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mobile Router Support Flag (R)<br><br>A one-bit flag that when set indicates that the Home Agent supports Mobile Routers.<br><br>For a description of the other fields in the message, see [1]. | | | | | | NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | | |
| 11 | 8 | Support for Dynamic Routing Protocols | In the solution described so far, forwarding to the mobile network at the Home Agent is set up when the Home Agent receives a Binding Update from the Mobile Router. An alternative to this is for the Home Agent and the Mobile Router to run an intra-domain routing protocol such as RIPng [12] and OSPF [13] through the bi-directional tunnel. The Mobile Router can continue running the same routing protocol that it ran when attached to the home link. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 12 | | | Support for running a intra-domain routing protocol is optional and is governed by the configuration on the Mobile Router and the Home Agent. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing |
| | | | | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing |
| 13 | | | This feature is very useful when the Mobile Network is large with multiple subnets containing different IPv6 prefixes. Routing changes in the Mobile Network are quickly propagated to the Home Agent. Routing changes in the home link are quickly propagated to the Mobile Router. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| | | | | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | | | When the Mobile Router is attached to the home link, it runs a routing protocol by sending routing updates through its egress interface. | MR | (do) | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 15 | | | When the Mobile Router moves and attaches to a visited network, it should stop sending routing updates on the interface by which it attaches to the visited link. This reduces the chances that prefixes specific to the Mobile Network will be leaked to the visited network if routing protocol authentication is not enabled in the visited network and in the Mobile Network. It is expected that normal deployment practices will include proper authentication mechanisms to prevent unauthorized route announcements on both the home and visited networks. | MR | shoulod | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 16 | | | The Mobile Router then starts sending routing protocol messages through the bi-directional tunnel towards the Home Agent. Most routing protocols use link-local addresses as source addresses for the routing information messages. The Mobile Router is allowed to use link-local addresses for the inner IPv6 header of an encapsulated packet. But these **MUST NOT** be forwarded to another link by either the Mobile Router or the Home Agent. | MR | MUST NOT | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 17 | | | When the Home Agent receives the inner packet, it processes the encapsulated routing protocol messages and updates its routing table accordingly. As part of normal routing protocol operation, the next hop information in these routing entries is filled with the Mobile Router's link local address with the outgoing interface set to the bi-directional tunnel. | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 18 | | | Similary, the Home Agent also sends routing updates through the bi-directional tunnel to the Mobile Router. The Mobile Router processes these routing protocol messages and updates its routing table. For all routes advertised by the Home Agent, the Mobile Router sets the outgoing interface to the bi-directional tunnel to the Home Agent. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 19 | | | When the Mobile Router and the Home Agent exchange routes through a dynamic routing protocol, the Mobile Router **SHOULD NOT** include Mobile Network Prefixes in the Binding Update to the Home Agent. The Home Agent Depending on its configuration, the Home Agent might not add routes based on the prefix information in the Binding Updates at all, and might use only the routing protocol updates. Moreover, including prefix information in both the Binding Updates and the routing protocol updates is redundant. | MR | SHOULD NOT | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 20 | | | As the routing protocol messages from the Home Agent to the Mobile Router could potentially contain information about the internal routing structure of the home network, these messages require authentication and confidentiality protection. Appropriate authentication and confidentiality protection mechanisms, defined in [14], **MUST** be used. For protecting routing protocol messages by using IPsec ESP [4], the bi-directional tunnel between the Mobile Router and the Home Agent should be treated as the outgoing interface, with the Home Agent's and Mobile Router's addresses as source and destination addresses for the inner encapsulated messages. | HA | MUST | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 21 | | | If a link state routing protocol such as OSPFv3 is run by the Mobile Router and the Home Agent, the recommendations in Appendix B should be followed. | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 22 | 9 | Security Considerations | All signaling messages between the Mobile Router and the Home Agent **MUST** be authenticated by IPsec [8]. The use of IPsec to protect Mobile IPv6 signaling messages is described in detail in the HA-MN IPsec specification [2]. The signaling messages described in this | MR | MUST | A | A1 | x | NEMO-MR-1-1-2-1-001<br>NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-4-1-1-1-002<br>NEMO-MR-4-2-1-1-001 | | IPsec |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | IPsec specification [2]. The signaling messages described in this document extend Mobile IPv6 messages and do not require any changes to what is described in [2]. | HA | | | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_4,NEMO-HA_2_2_5, NEMO-HA_2_2_6,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_14, NEMO-HA_2_11_15, NEMO-HA_2_12_4,NEMO-HA_2_12_6, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_4,<br>NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3,<br>NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | | | The Mobile Router has to perform ingress filtering on packets received from the mobile network to ensure that nodes in the Mobile Network do not use the bi-directional tunnel to launch IP spoofing attacks. In particular, the Mobile Router **SHOULD** check that the IP source address in the packets received Prefix and are not the same as one of the addresses used by the Mobile Router. If the Mobile Router receives a IP-in-IP tunneled packet from a node in the Mobile Network, and it has to forward the decapsulated packet, it **SHOULD** perform the above mentioned checks on the source address of the inner packet. | MR | SHOULD | A | A1 | x | NEMO-MR-2-2-1-4-006<br>NEMO-MR-2-2-1-4-013<br>NEMO-MR-2-2-1-4-014<br>NEMO-MR-2-2-1-4-015<br>NEMO-MR-2-2-1-4-016<br>NEMO-MR-2-2-1-4-017<br>NEMO-MR-2-2-1-4-018 | | Ingress filtering |
| 24 | | | | MR | SHOULD | A | A1 | x | NEMO-MR-2-2-1-4-006<br>NEMO-MR-2-2-1-4-013<br>NEMO-MR-2-2-1-4-014<br>NEMO-MR-2-2-1-4-015<br>NEMO-MR-2-2-1-4-016<br>NEMO-MR-2-2-1-4-017<br>NEMO-MR-2-2-1-4-018 | | Ingress filtering |
| 25 | | | The Home Agent has to verify that packets received through the bi-directional tunnel belong to the mobile network. This check is necessary to prevent nodes from using the Home Agent to launch attacks that would have otherwise been prevented by ingress filtering. The source address of the outer IPv6 header **MUST** be set to the Mobile Router's current Care-of address. The source address of the inner IPv6 header **MUST** be topologically correct with respect to the IPv6 prefixes used in the Mobile Network. | HA | MUST | A | A1 | x | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link | reversed tunneling, ingress filtering check |
| | | | | | | | A2 | x | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 26 | | | | HA | MUST | A | A1 | x | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link | reversed tunneling,<br>ingress filtering check |
| | | | | | | | A2 | x | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 27 | | | If the Mobile Router sends a Binding Update with a one or more Mobile<br>Network Prefix options, the Home Agent **MUST** be able to verify that the Mobile Router is authorized for the prefixes before setting up forwarding for the prefixes. | HA | MUST | A | A1 | | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_15,<br>NEMO-HA_2_11_17,<br>NEMO-HA_2_11_18,NEMO-HA_2_11_19,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link | Binding update(Mobile network prefix registration) |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | | | Virtual Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6, | | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 28 | | | When the Mobile Router is runs a dynamic routing protocol as described in section 8, it injects routing update messages into the Home Link. As the routing protocol message could contain information about the internal routing structure of the home network, these messages require confidentiality protection. The Mobile Router **SHOULD** use confidentiality protection through IPsec ESP as described in [14]. If the bi-directional tunnel between the Mobile Router and the Home Agent is protected by ESP, in tunnel mode for all IP traffic, then no additional confidentiality protection specific to the routing protocol is required. | MR | SHOULD | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 29 | | | Home Agents and Mobile Routers may use IPsec ESP to protect payload packets tunneled between themselves. This is useful to protect communications against attackers on the path of the tunnel. | MR | may | B | B | x | | Virtual Home link | This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | HA | | | | x | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, | Virtual Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Nested mobility(Same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, NEMO-HA_6_1_1,NEMO-HA_6_1_2, NEMO-HA_6_4_1,NEMO-HA_6_4_2, NEMO-HA_6_4_4, NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | | | Please refer to the Mobile IPv6 specification [1] for security considerations when the Mobile Router operates as a Mobile Host. | MR | (do) | A | A1 | | | | Mobile node |
| 31 | 1 | Introduction (Nestd Mobility) | The terminology document [10] describes Nested Mobility as a scenario where a Mobile Router allows another Mobile Router to attach to its Mobile Network. There could be arbitrary levels of nested mobility. The operation of each Mobile Router remains the same whether the Mobile Router attaches to another Mobile Router or to a fixed Access Router on the Internet. The solution described here does not place any restriction on the number of levels for nested mobility. But note that this might introduce significant overhead on the data packets as each level of nesting introduces another IPv6 header encapsulation. | HA | (do) | A | A1*2 | x | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32 | Virtual Home Link | Nested mobility |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28 | Virtual Home link, Nested mobility(Same HA) | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) | |
| | | | | MR | (do) | A | A1*2 | x | | | |


[1] D. Johnson, C. Perkins and J. Arkko. Mobility Support in IPv6. RFC3775, IETF. June 2004.

[2] J. Arkko, V. Devarapalli and F. Dupont. Using IPsec to Protect Mobile IPv6 Signaling between Mobile Nodes and Home Agents. ,RFC3776, IETF. June 2004.

[8] S. Kent and R. Atkinson. Security Architecture for the Internet

[10] Ernst, T., and H.-Y. Lach, "Network Mobility Support Terminology", Work in Progress, October 2004.

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | [12] G. Malkin and R. Minnear. RIPng for IPv6. RFC 2080, IETF.<br>[13] R. Coltun, D. Ferguson and J. Moy. OSPF for IPv6. RFC 2470.<br>[14] M. Gupta and N. Melam. Authentication/Confidentiality for OSPFv3. Internet Draft, IETF. draft-ietf-ospf-ospfv3-auth-04.txt (work in progress). December 2003. | | | | | | | | |
| | | | *2 Please refer toTable 2-5 (NEMO functions of Priority A1 and Priority A2 for every node) | | | | | | | | |

### 5.1.2 HA - RFC3775/RFC3776/RFC4877

This section describes the operation in Mobile IPv6 and the functional classifications for HA on the basis of the classifications given in section 2.3.

Notes

- "RFC section" gives the corresponding section number in the Mobile IPv6 RFC referred to in section 2.2.
- "RFC section title" gives the section heading in the Mobile IPv6 RFC referred to in section 2.2.
- In the column "Test Priority," "A1" indicates Rank A and Priority 1, "A2" indicates Rank-A and Priority 2, and "B" indicates Rank-B and Priority 2.
- In the column "Test PROFILE", "x" indicates that the function is supported.
- "Reason for Classification" gives the reason for the function's classification. A reason is given when Test Priority is "A2," "B," or "C."

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|
| 1 | 8.4 | IPv6 Home Agents | | In order for a mobile node to operate correctly while away from home, at least one IPv6 router on the mobile node's home link must function as a home agent for the mobile node. The following additional requirements apply to all IPv6 routers that serve as a home agent: | (do) | A | A1 | Home agent |
| 2 | | | | Every home agent MUST be able to maintain an entry in its Binding Cache for each mobile node for which it is serving as the home agent (Section 10.1 and Section 10.3.1). | MUST | A | A1 | Binding cache |
| 3 | | | | Every home agent MUST be able to intercept packets (using proxy Neighbor Discovery [12]) addressed to a mobile node for which it is currently serving as the home agent, on that mobile node's home link, while the mobile node is away from home (Section 10.4.1). | MUST | A | A1 | Forwarding |
| 4 | | | | Every home agent MUST be able to encapsulate [15] such intercepted packets in order to tunnel them to the primary care-of address for the mobile node indicated in its binding in the home agent's Binding Cache (Section 10.4.2). | MUST | A | A1 | Tunneling |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | | | | Every home agent MUST support decapsulating [15] reverse tunneled packets sent to it from a mobile node's home address. Every home agent MUST also check that the source address in the tunneled packets corresponds to the currently registered location of the mobile node (Section 10.4.5). | MUST<br>MUST | A | A1 | Tunneling |
| 6 | | | | The node MUST be able to process Mobility Headers as described in Section 10.2. | MUST | A | A1 | Mobility header |
| 7 | | | | Every home agent MUST be able to return a Binding Acknowledgement in response to a Binding Update (Section 10.3.1). | MUST | A | A1 | Binding acknowledgement |
| 8 | | | | Every home agent SHOULD support a configuration mechanism to allow a system administrator to manually set the value to be sent by this home agent in the Home Agent Preference field of the Home Agent Information Option in Router Advertisements that it sends (Section 7.4). | SHOULD | A | A1 | Home agent information option |
| 9 | | | | Every home agent SHOULD support sending ICMP Mobile Prefix Advertisements (Section 6.8), and SHOULD respond to Mobile Prefix Solicitations (Section 6.7). If supported, this behavior MUST be configurable, so that home agents can be configured to avoid sending such Prefix Advertisements according to the needs of the network administration in the home domain. | SHOULD<br>SHOULD<br>MUST | A | A2 | Mobile prefix advertisement |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 10 | | | | Every home agent MUST support IPsec ESP for protection of packets belonging to the return routability procedure (Section 10.4.6). | MUST | - | - | IPsec ESP |
| 11 | | | | Every home agent SHOULD support the multicast group membership control protocols as described in Section 10.4.3. If this support is provided, the home agent MUST be capable of using it to determine which multicast data packets to forward via the tunnel to the mobile node. | SHOULD MUST | A | A2 | Multicast |
| 12 | | | | Home agents MAY support stateful address autoconfiguration for mobile nodes as described in Section 10.4.4. | MAY | B | B | Stateful address autoconfiguration |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 1 | 6.1 | Mobility Header | | Mobility Header messages **MUST NOT** be sent with a type 2 routing header, except as described in Section 9.5.4 for Binding Acknowledgement. Mobility Header messages also **MUST NOT** be used with a Home Address destination option, except as described in Section 11.7.1 and Section 11.7.2 for Binding Update. Binding Update List or Binding Cache information (when present) for the destination **MUST NOT** be used in sending Mobility Header messages. That is, Mobility Header messages bypass both the Binding Cache check described in Section 9.3.2 and the Binding Update List check described in Section 11.3.1 which are normally performed for all packets. This applies even to messages sent to or from a correspondent node which is itself a mobile node. | MUST NOT | A | A1 | X | NEMO-HA_1_1_8,NEMO-HA_1_1_9,<br>NEMO-HA_1_1_10,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_10_7,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_15,<br>NEMO-HA_2_11_17,<br>NEMO-HA_2_11_18,NEMO-HA_2_11_19,<br>NEMO-HA_2_12_6,<br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br>NEMO-HA_6_2_4,<br>NEMO-HA_6_7_4, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_8_1_4, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_1_1_1,NEMO-HA_1_1_2,<br>NEMO-HA_1_1_3,NEMO-HA_1_1_4,<br>NEMO-HA_1_1_5,<br>NEMO-HA_2_1_4,<br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_10_1,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,<br>NEMO-HA_2_11_8,NEMO-HA_2_11_9,<br>NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,<br>NEMO-HA_6_7_3, | |
| | | | | | | | | | NEMO-HA_8_1_3, | Real Home link, MPS/MPA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 2 | | | | | MUST NOT | A | A1 | - | | Mobile Node |
| 3 | | | | | MUST NOT | A | A1 | X | NEMO-HA_1_1_8,NEMO-HA_1_1_9,<br>NEMO-HA_1_1_10,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_10_7,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_15,<br>NEMO-HA_2_11_17,<br>NEMO-HA_2_11_18,NEMO-HA_2_11_19,<br>NEMO-HA_2_12_6,<br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br>NEMO-HA_6_2_4,<br>NEMO-HA_6_7_4, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_8_1_4, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_1_1_1,NEMO-HA_1_1_2,<br>NEMO-HA_1_1_3,NEMO-HA_1_1_4,<br>NEMO-HA_1_1_5,<br>NEMO-HA_2_1_4,<br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_10_1,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,<br>NEMO-HA_2_11_8,NEMO-HA_2_11_9,<br>NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,<br>NEMO-HA_6_7_3, | |
| | | | | | | | | | NEMO-HA_8_1_3, | Real Home link, MPS/MPA |

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| | | | | | | | | Supported | Test No. | |
| 1 | 10.1 | Conceptual Data Structures | | Each home agent **MUST** maintain a Binding Cache and Home Agents List. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_8,NEMO-HA_2_10_9, NEMO-HA_2_10_10,NEMO-HA_2_10_11, NEMO-HA_2_10_12, NEMO-HA_2_11_14, NEMO-HA_2_12_4, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtaul Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | A | A2 | X | | Virtual Home link, IKE |
| | | | | | | | | | NEMO-HA_7_1_2,NEMO-HA_7_1_4, NEMO-HA_7_1_6, | Virtual home link, Dynamic Home Agent Address Discovery |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8, | Real home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8, | |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real home link,<br>IKE |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_11, NEMO-HA_7_2_12,NEMO-HA_7_2_13, NEMO-HA_7_2_14,NEMO-HA_7_2_15, NEMO-HA_7_3_1, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |
| 3 | | | | The rules for maintaining a Binding Cache are the same for home agents and correspondent nodes and have already been described in Section 9.1.<br><br>(Section 9.1)<br>o The home address of the mobile node for which this is the Binding Cache entry. This field is used as the key for searching the Binding Cache for the destination address of a packet being sent.<br>o The care-of address for the mobile | (do) | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, | Virtual Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | o The care-of address for the mobile node indicated by the home address field in this Binding Cache entry.<br>o A lifetime value, indicating the remaining lifetime for this Binding Cache entry. The lifetime value is initialized from the Lifetime field in the Binding Update that created or last modified this Binding Cache entry.<br>o A flag indicating whether or not this Binding Cache entry is a home registration entry (applicable only on nodes which support home agent functionality).<br>o The maximum value of the Sequence Number field received in previous Binding Updates for this home address. The Sequence Number field is 16 bits long. Sequence Number values MUST be compared modulo 2** 16 as explained in Section 9.5.1. | | | | | NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16,<br><br>NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | |
| | | | | | | | | | | Real home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

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| | | | | | | | | Supported | Test No. | |
| 4 | | | | A router is known to be acting as a home agent, if it sends a Router Advertisement in which the Home Agent (H) bit is set. When the lifetime for a list entry (defined below) expires, that entry is removed from the Home Agents List. | (do) | A | A2 | X | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real Home link, Dynamic Home Agent Address Discovery |
| 5 | | | | The Home Agents List **MAY** be implemented in any manner consistent with the external behavior described in this document. | MAY | C | C | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 6 | | | | Each home agent maintains a separate Home Agents List for each link on which it is serving as a home agent. | (do) | A | A2 | X | NEMO-HA_7_1_2,NEMO-HA_7_1_4, NEMO-HA_7_1_6, | Virtual Home link, Dynamic Home Agent Address Discovery |
| | | | | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, | Real Home link, Dynamic Home Agent Address Discovery |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | |
| 7 | | | A new entry is created or an existing entry is updated in response to receipt of a valid Router Advertisement in which the Home Agent (H) bit is set. Each Home Agents List entry conceptually contains the following fields: | o The link-local IP address of a home agent on the link. This address is learned through the Source Address of the Router Advertisements [12] received from the router. | (do) | A | A2 | X | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real Home link, Dynamic Home Agent Address Discovery |
| 8 | | | | o One or more global IP addresses for this home agent. Global addresses are learned through Prefix Information options with the Router Address (R) bit set and received in Router Advertisements from this link-local address. | (do) | A | A2 | X | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, | Real Home link, Dynamic Home Agent Address Discovery |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | |
| 9 | | | | Global addresses for the router in a Home Agents List entry **MUST** be deleted once the prefix associated with that address is no longer valid [12]. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multiple prefix |
| 10 | | | | o The remaining lifetime of this Home Agents List entry. If a Home Agent Information Option is present in a Router Advertisement received from a home agent, the lifetime of the Home Agents List entry representing that home agent is initialized from the Home Agent Lifetime field in the option (if present); otherwise, the lifetime is initialized from the Router Lifetime field in the received Router Advertisement. | MUST | A | A2 | X | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real Home link, Dynamic Home Agent Address Discovery |
| 11 | | | | If Home Agents List entry lifetime reaches zero, the entry **MUST** be deleted from the Home Agents List. | MUST | A | A2 | | NEMO-HA_7_3_2, | Real Home link, Dynamic Home Agent Address Discovery |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 12 | | | | o The preference for this home agent; higher values indicate a more preferable home agent. The preference value is taken from the Home Agent Preference field in the received Router Advertisement, if the Router Advertisement contains a Home Agent Information Option and is otherwise set to the default value of 0. A home agent uses this preference in ordering the Home Agents List when it sends an ICMP Home Agent Address Discovery message. | (do) | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 1 | 10.2 | Processing Mobility Headers | | All IPv6 home agents **MUST** observe the rules described in Section 9.2 when processing Mobility Headers. | MUST | A | A1 | X | NEMO-HA_1_1_8,NEMO-HA_1_1_9, NEMO-HA_1_1_10, NEMO-HA_2_1_5,NEMO-HA_2_1_6, NEMO-HA_2_1_7,NEMO-HA_2_1_8, NEMO-HA_2_1_15, NEMO-HA_2_2_4,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_14, NEMO-HA_2_11_15, NEMO-HA_2_11_17,NEMO-HA_2_11_18, NEMO-HA_2_11_19, NEMO-HA_2_12_4,NEMO-HA_2_12_6, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_1,NEMO-HA_1_1_2, NEMO-HA_1_1_3,NEMO-HA_1_1_4, NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_9,NEMO-HA_2_1_14, NEMO-HA_2_2_1,NEMO-HA_2_2_2, NEMO-HA_2_2_7,NEMO-HA_2_2_9, NEMO-HA_2_2_10,NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_6_7_1,NEMO-HA_6_7_3, NEMO-HA_6_7_5,NEMO-HA_6_7_6, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |
| 2 | 9.2 | Processing Mobility Headers | Mobility Header processing MUST observe the following rules: | The checksum must be verified as per Section 6.1. Otherwise, the node **MUST** silently discard the message. | MUST | A | A1 | X | NEMO-HA_1_1_8 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_3, | Real Home link |
| 3 | | | | The MH Type field **MUST** have a known value (Section 6.1.1). Otherwise, the node **MUST** discard the message and issue a Binding Error message as described in Section 9.3.3, with Status field set to 2 (unrecognized MH Type value) | MUST | A | A1 | X | | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_1,NEMO-HA_1_1_5 | Real Home link |
| 4 | | | | | MUST | A | A1 | X | | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_1,NEMO-HA_1_1_5 | Real Home link |
| 5 | | | | The Payload Proto field **MUST** be IPPROTO_NONE (59 decimal). Otherwise, the node **MUST** discard the message and **SHOULD** send ICMP | MUST | A | A1 | X | NEMO-HA_1_1_9 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_2,NEMO-HA_1_1_6, | Real Home link |
| 6 | | | | | MUST | A | A1 | X | NEMO-HA_1_1_9 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_2,NEMO-HA_1_1_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 7 | | | | Parameter Problem [14], Code 0, to the Source Address of the packet. | SHOULD | A | A1 | X | NEMO-HA_1_1_9 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_2,NEMO-HA_1_1_6, | Real Home link |
| 8 | | | | o The Header Len field in the Mobility Header **MUST NOT** be less than the length specified for this particular type of message in Section 6.1. | MUST NOT | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_6, NEMO-HA_2_1_7,NEMO-HA_2_1_8, NEMO-HA_2_1_15, NEMO-HA_2_2_4,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_14, NEMO-HA_2_11_15, NEMO-HA_2_11_17,NEMO-HA_2_11_18, NEMO-HA_2_11_19, NEMO-HA_2_12_4,NEMO-HA_2_12_6, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_9,NEMO-HA_2_1_14, NEMO-HA_2_2_1,NEMO-HA_2_2_2, NEMO-HA_2_2_7,NEMO-HA_2_2_9, NEMO-HA_2_2_10,NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, NEMO-HA_2_9_1,NEMO-HA_2_9_2, NEMO-HA_2_9_3,NEMO-HA_2_9_4, NEMO-HA_2_9_5, NEMO-HA_2_10_1,NEMO-HA_2_10_2, NEMO-HA_2_10_3,NEMO-HA_2_10_4, NEMO-HA_2_10_5,NEMO-HA_2_10_6, NEMO-HA_2_11_1,NEMO-HA_2_11_2, NEMO-HA_2_11_3,NEMO-HA_2_11_4, NEMO-HA_2_11_5, NEMO-HA_2_11_7,NEMO-HA_2_11_8, NEMO-HA_2_11_9, NEMO-HA_2_12_1,NEMO-HA_2_12_3, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_6_7_1,NEMO-HA_6_7_3, NEMO-HA_6_7_5,NEMO-HA_6_7_6, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |
| 9 | | | | Otherwise, the node **MUST** discard the message and **SHOULD** send ICMP Parameter Problem [14], Code 0, to the Source Address of the packet. | MUST | A | A1 | X | NEMO-HA_1_1_10 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_4,NEMO-HA_1_1_7, | Real Home link |
| 10 | | | | | SHOULD | A | A1 | X | NEMO-HA_1_1_10 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_1_1_4,NEMO-HA_1_1_7, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 1 | 10.3.1 | Primary Care-of Address Registration | | When a node receives a Binding Update, it **MUST** validate it and determine the type of Binding Update according to the steps described in Section 9.5.1.<br><br>(Section 9.5.1)<br>o The packet MUST contain a unicast routable home address, either in the Home Address option or in the Source Address, if the Home Address option is not present.<br>o The Sequence Number field in the Binding Update is greater than the Sequence Number received in the previous valid Binding Update for this home address, if any.<br>If the receiving node has no Binding Cache entry for the indicated home address, it MUST accept any Sequence Number value in a received Binding Update from this mobile node.<br>This Sequence Number comparison MUST be performed modulo 2**16, i.e., the number is a free running counter represented modulo 65536. A Sequence Number in a received Binding Update is considered less than or equal to the last received number if its value lies in the range of the last received number and the preceding 32768 values, inclusive. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 2 | | | | Furthermore, it **MUST** authenticate the Binding Update as described in Section 5.1. | MUST | A | A1 | X | NEMO-HA_2_2_6 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_2_2_3, | Real Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | To begin processing the Binding Update, the home agent **MUST** perform the following sequence of tests: | o If the node implements only correspondent node functionality, or has not been configured to act as a home agent, then the node **MUST** reject the Binding Update. The node **MUST** also return a Binding Acknowledgement to the mobile node, in which the Status field is set to 131 (home registration not supported). | MUST | A | A1 | | | This function is implementaion-dependent. It does not effect on interoperability. *Disabled Home Agent |
| | | | | | MUST | A | A1 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 3 | | | | o Else, if the home address for the binding (the Home Address field in the packet's Home Address option) is not an on-link IPv6 address with respect to the home agent's current Prefix List, then the home agent **MUST** reject the Binding Update and **SHOULD** return a Binding Acknowledgement to the mobile node, in which the Status field is set to 132 (not home subnet). | MUST | A | A2 | X (*1) | NEMO-HA_2_2_1,NEMO-HA_2_2_2 | Real Home link |
| 4 | | | | | SHOULD | A | A2 | X (*1) | NEMO-HA_2_2_1,NEMO-HA_2_2_2 | Real Home link |
| 5 | | | | o Else, if the home agent chooses to reject the Binding Update for any other reason (e.g., insufficient resources to serve another mobile node as a home agent), then the home agent **SHOULD** return a Binding Acknowledgement to the mobile node, in which the Status field is set to an appropriate value to indicate the reason for the rejection. | SHOULD | A | A1 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 6 | | | | o A Home Address destination option **MUST** be present in the message. It **MUST** be validated as described in Section 9.3.1 with the following additional rule. The Binding Cache entry existence test **MUST NOT** be done for IPsec packets when the Home Address option contains an address for which the receiving node could act as a home agent.<br><br>(Section 9.3.1)<br>Packets containing a Home Address option MUST be dropped if the given home address is not a unicast routable address. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_4,NEMO-HA_2_2_5, NEMO-HA_2_2_6,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6, | |
| | | | | | | | | | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | |
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12, | |
| | | | | | | | | | NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8, | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 7 | | | | | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |

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| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 8 | | | | | MUST NOT | A | A1 | X | NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13, | Real Home link |
| 9 | | | | If home agent accepts the Binding Update, it **MUST** then create a new entry in its Binding Cache for this mobile node or update its existing Binding Cache entry, if such an entry already exists. The Home Address field as received in the Home Address option provides the home address of the mobile node. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>IKE<br>Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

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| | | | | | | | | Supported | Test No. | |
| 10 | | | | The home agent **MUST** mark this Binding Cache entry as a home registration to indicate that the node is serving as a home agent for this binding. Binding Cache entries marked as a home registration **MUST** be excluded from the normal cache replacement policy used for the Binding Cache (Section 9.6) and **MUST NOT** be removed from the Binding Cache until the expiration of the Lifetime period. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link |

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| | | | | (Section 9.6)<br>Each node's Binding Cache will, by necessity, have a finite size. A node MAY use any reasonable local policy for managing the space within its Binding Cache, except that any entry marked as a home registration (Section 10.3.1) MUST NOT be deleted from the cache until the expiration of its lifetime period. When such home registration entries are deleted, the home agent MUST also cease intercepting packets on the mobile node's home link addressed to the mobile node (Section 10.4.1), just as if the mobile node had de-registered its primary care-of address (see Section 10.3.2).<br>When attempting to add a new home registration entry in response to a Binding Update with the Home Registration (H) bit set, if no sufficient space can be found, the home agent MUST reject the Binding Update. Furthermore, the home agent MUST return a Binding Acknowledgement to the sending mobile node, in which the Status field is set to 130 (insufficient resources). | | | | | NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br><br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8, | |

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| | | | | | | | | | NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 11 | | | | | MUST | A | A2 | X | NEMO-HA_2_1_8 | Virtual Home link,<br>Cache Replacement Policy |
| | | | | | | | | | NEMO-HA_2_1_4, | Real Home link,<br>Cache Replacement Policy |
| 12 | | | | | MUST NOT | A | A2 | X | NEMO-HA_2_1_8 | Virtual Home link,<br>Cache Replacement Policy |
| | | | | | | | | | NEMO-HA_2_1_4, | Real Home link,<br>Cache Replacement Policy |

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| 13 | | | | Unless this home agent already has a binding for the given home address, the home agent **MUST** perform Duplicate Address Detection [13] on the mobile node's home link before returning the Binding Acknowledgement. This ensures that no other node on the home link was using the mobile node's home address when the Binding Update arrived. If this Duplicate Address Detection fails for the given home address or an associated link local address, then the home agent **MUST** reject the complete Binding Update and **MUST** return a Binding Acknowledgement to the mobile node, in which the Status field is set to 134 (Duplicate Address Detection failed). When the home agent sends a successful Binding Acknowledgement to the mobile node, the home agent assures to the mobile node that its address(es) will be kept unique by the home agent for as long as the lifetime was granted for the binding. | MUST | A | A2 | X (*1) | NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6 | Real Home link, Home Address(with Home prefix) |
| 14 | | | | | MUST | A | A2 | X | NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6 | Real Home link, Home Address(with Home prefix) |
| 15 | | | | | MUST | A | A2 | X | NEMO-HA_2_4_1,NEMO-HA_2_4_2, NEMO-HA_2_4_3,NEMO-HA_2_4_4, NEMO-HA_2_4_5,NEMO-HA_2_4_6 | Real Home link, Home Address(with Home prefix) |
| 16 | | | The specific addresses which are to be tested before accepting the Binding Update, and later to be defended by performing Duplicate Address Detection, depend on the settings of the Single Address Only (S) and Link-Local Address Compatibility (L) bits, as follows: | o L=0: Defend only the given address. Do not derive a link-local address. | (do) | A | A2 | X | NEMO-HA_2_3_1,NEMO-HA_2_3_3, NEMO-HA_2_4_1,NEMO-HA_2_4_4, NEMO-HA_4_1_1, NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_10, NEMO-HA_4_2_11,NEMO-HA_4_2_12, NEMO-HA_4_2_13,NEMO-HA_4_2_16, NEMO-HA_4_3_1,NEMO-HA_4_3_2, NEMO-HA_4_3_3,NEMO-HA_4_3_10, NEMO-HA_4_3_11,NEMO-HA_4_3_12, NEMO-HA_4_3_13,NEMO-HA_4_3_16, NEMO-HA_4_4_1,NEMO-HA_4_4_2, NEMO-HA_4_4_3,NEMO-HA_4_4_13 | Real Home link, Home Address(with Home prefix) |

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| 17 | | | | o L=1: Defend both the given non link-local unicast (home) address and the derived link-local. The link-local address is derived by replacing the subnet prefix in the mobile node's home address with the link-local prefix. | (do) | A | A2 | X | NEMO-HA_2_3_2, NEMO-HA_2_4_2,NEMO-HA_2_4_3, NEMO-HA_2_4_5,NEMO-HA_2_4_6, NEMO-HA_4_1_2, NEMO-HA_4_2_4,NEMO-HA_4_2_5, NEMO-HA_4_2_6,NEMO-HA_4_2_7, NEMO-HA_4_2_8,NEMO-HA_4_2_9, NEMO-HA_4_2_14,NEMO-HA_4_2_15, NEMO-HA_4_3_4,NEMO-HA_4_3_5, NEMO-HA_4_3_6,NEMO-HA_4_3_7, NEMO-HA_4_3_8,NEMO-HA_4_3_9, NEMO-HA_4_3_14,NEMO-HA_4_3_15, NEMO-HA_4_4_4,NEMO-HA_4_4_5, NEMO-HA_4_4_6,NEMO-HA_4_4_7, NEMO-HA_4_4_8,NEMO-HA_4_4_9, NEMO-HA_4_4_14,NEMO-HA_4_4_15 | Real Home link, Home Address(with Home prefix) |
| 18 | | | The lifetime of the Binding Cache entry depends on a number of factors: | o The lifetime for the Binding Cache entry **MUST NOT** be greater than the Lifetime value specified in the Binding Update. | MUST NOT | A | A1 | X | NEMO-HA_2_1_8, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_2_1_4, | Real Home link |
| 19 | | | | o The lifetime for the Binding Cache entry **MUST NOT** be greater than the remaining valid lifetime for the subnet prefix in the mobile node's home address specified with the Binding Update. The remaining valid lifetime for this prefix is determined by the home agent based on its own Prefix List entry [12]. The remaining preferred lifetime **SHOULD NOT** have any impact on the lifetime for the binding cache entry. The home agent **MUST** remove a binding when the valid lifetime of the prefix associated with it expires. | MUST NOT | A | A2 | X | NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_9, | Real Home link |
| 20 | | | | | SHOULD NOT | A | A2 | X | NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_9, | Real Home link |
| 21 | | | | | MUST | A | A1 | X | NEMO-HA_2_1_8 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_2_1_4, | Real Home link |

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| 22 | | | | o The home agent **MAY** further decrease the specified lifetime for the binding, for example based on a local policy. The resulting lifetime is stored by the home agent in the Binding Cache entry, and this Binding Cache entry **MUST** be deleted by the home agent after the expiration of this lifetime. | MAY | C | C | | | This function is implementaion-dependent. It does not effect on interoperability. |
| | | | | | | | | | | |
| 23 | | | | | MUST | A | A1 | X | NEMO-HA_2_1_8 | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_2_1_4, | Real Home link |

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| 24 | | | Regardless of the setting of the Acknowledge (A) bit in the Binding Update, the home agent **MUST** return a Binding Acknowledgement to the mobile node, constructed as follows: | o The Status field **MUST** be set to a value 0 indicating success. The value 1 (accepted but prefix discovery necessary) **MUST** be used if the subnet prefix of the specified home address is deprecated, or becomes deprecated during the lifetime of the binding, or becomes invalid at the end of the lifetime. The value 0 **MUST** be used otherwise. For the purposes of comparing the binding and prefix lifetimes, the prefix lifetimes are first converted into units of four seconds by ignoring the two least significant bits. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12, | Virtual Home link |

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| | | | | | | | | | NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6, | Real Home link |

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| | | | | | | | | | NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1, | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8, | |
| | | | | | | | | | NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 25 | | | | | MUST | A | A1 | | | This function is implementaion-dependent. It does not effect on interoperability.<br>*Multiple prefix<br>*Renumbering |

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| 26 | | | | | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8, | Real Home link |

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| | | | | | | | | | NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4, | |

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| | | | | | | | | | NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 27 | | | | o The Key Management Mobility Capability (K) bit is set if the following conditions are all fulfilled, and cleared otherwise:<br>*1 The Key Management Mobility Capability (K) bit was set in the Binding Update.<br>*2 The IPsec security associations between the mobile node and the home agent have been established dynamically.<br>*3 The home agent has the capability to update its endpoint in the used key management protocol to the new care-of address every time it moves. | (do) | A | A2 | X | | Virtual Home link,<br>IKE |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | o The Key Management Mobility Capability (K) bit is set if the following conditions are all fulfilled, and cleared otherwise:<br>*1 The Key Management Mobility Capability (K) bit was set in the Binding Update.<br>*2 The IPsec security associations between the mobile node and the home agent have been established dynamically.<br>*3 The home agent has the capability to update its endpoint in the used key management protocol to the new care-of address every time it moves. | (do) | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12, | Viratual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32,<br><br>NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1, | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8, | |
| | | | | | | | | | NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16,<br><br>NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | Depending on the final value of the bit in the Binding Acknowledgement, the home agent **SHOULD** perform the following actions:<br>K = 0<br>Discard key management connections, if any, to the old care-of address. If the mobile node did not have a binding before sending this Binding Update, discard the connections to the home address.<br>K = 1<br>Move the peer endpoint of the key management protocol connection, if any, to the new care-of address. For an IKE phase 1 connection, this means that any IKE packets sent to the peer are sent to this address, and packets from this address with the original ISAKMP cookies are accepted. | SHOULD | A | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | | Real Home link,<br>IKE |
| 28 | | | | Depending on the final value of the bit in the Binding Acknowledgement, the home agent **SHOULD** perform the following actions:<br>K = 0<br>Discard key management connections, if any, to the old care-of address. If the mobile node did not have a binding before sending this Binding Update, discard the connections to the home address. | SHOULD | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Viratual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | K = 1<br>Move the peer endpoint of the key management protocol connection, if any, to the new care-of address. For an IKE phase 1 connection, this means that any IKE packets sent to the peer are sent to this address, and packets from this address with the original ISAKMP cookies are accepted. | | | | | NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 29 | | | | oThe Sequence Number field **MUST** be copied from the Sequence Number given in the Binding Update. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br><br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6, | Real Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3, | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10, | |
| | | | | | | | | | NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8, | |
| | | | | | | | | | NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | |
| | | | | | | | | | NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

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| | | | | | | | | Supported | Test No. | |
| 30 | | | | o The Lifetime field **MUST** be set to the remaining lifetime for the binding as set by the home agent in its home registration Binding Cache entry for the mobile node, as described above. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13, | Real Home link |

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| | | | | | | | | | NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |

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| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

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| 31 | | | | o If the home agent stores the Binding Cache entry in nonvolatile storage, then the Binding Refresh Advice mobility option **MUST** be omitted. Otherwise, the home agent **MAY** include this option to suggest that the mobile node refreshes its binding bofore the actual lifetime of the binding ends.<br>If the Binding Refresh Advice mobility option is present, the Refresh Interval field in the option **MUST** be set to a value less than the Lifetime value being returned in the Binding Acknowledgement. This indicates that the mobile node **SHOULD** attempt to refresh its home registration at the indicated shorter interval. | MUST | A | A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br><br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | This function is implementaion-dependent. It does not effect on interoperability. |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 32 | | | | | MAY | B | B | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br><br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12, | This function is implementaion-dependent. It does not effect on interoperability. |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 33 | | | | | MUST | A | A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | This function is implementaion-dependent. It does not effect on interoperability. |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 34 | | | | | SHOULD | A | A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br><br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | This function is implementaion-dependent. It does not effect on interoperability. |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br><br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

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| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8, | |

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| | | | | | | | | | NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 35 | | | | The home agent **MUST** still retain the registration for the Lifetime period, even if the mobile node does not refresh its registration within the Refresh period. | MUST | A | A2 | X | NEMO-HA_2_1_8 | Viratual Home link,<br>(This function is implementaion-dependent. It does not effect on interoperability.<br>*Binding Refresh Advice mobility option) |
| | | | | | | | | | NEMO-HA_2_1_4, | Real Home link,<br>(This function is implementaion-dependent. It does not effect on interoperability.<br>*Binding Refresh Advice mobility option) |

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| 36 | | | | The rules for selecting the Destination IP address (and possibly routing header construction) for the Binding Acknowledgement to the mobile node are the same as in Section 9.5.4.<br><br>(Section 9.5.4)<br>If the Source Address field of the IPv6 header that carried the Binding Update does not contain a unicast address, the Binding Acknowledgement MUST NOT be sent, and the Binding Update packet MUST be silently discarded. Otherwise, the acknowledgement MUST be sent to the Source Address. Unlike the treatment of regular packets, this addressing procedure does not use information from the Binding Cache. However, a routing header is needed in some cases. If the Source Address is the home address of the mobile node, i.e., the Binding Update did not contain a Home Address destination option, then the Binding Acknowledgement MUST be sent to that address, and the routing header MUST NOT be used. Otherwise, the Binding Acknowledgement MUST be sent using a type 2 routing header which contains the mobile node's home address. | (do) | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br><br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Home Registration |

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| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13, | Real Home link |

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| | | | | | | | | | NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |

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| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link,<br>IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

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| 37 | | | | In addition, the home agent **MUST** follow the procedure defined in Section 10.4.1 to intercept packets on the mobile node's home link addressed to the mobile node, while the home agent is serving as the home agent for this mobile node.<br><br>(Section 10.4.1)<br>While a node is serving as the home agent for mobile node it MUST attempt to intercept packets on the mobile node's home link that are addressed to the mobile node. In order to do this, when a node begins serving as the home agent it MUST multicast onto the home link a Neighbor Advertisement message[12] on behalf of the mobile node. For the home address specified in the Binding Update, the home agent sends a Neighbor Advertisement message [12] to the all-nodes multicast address on the home link, to advertise the home agent's own link-layer address for this IP address on behalf of the mobile node.<br>If the Link-Layer Address Compatibility (L) flag has been specified in the Binding Update, the home agent MUST do the same for the link-local address of the mobile node. | MUST | A | A1 | X | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_21,<br>NEMO-HA_9_1_22,NEMO-HA_9_1_23,<br>NEMO-HA_9_1_24,NEMO-HA_9_1_25,<br>NEMO-HA_9_1_26,NEMO-HA_9_1_27,<br>NEMO-HA_9_1_28,NEMO-HA_9_1_29,<br>NEMO-HA_9_1_30,NEMO-HA_9_1_31,<br>NEMO-HA_9_1_32, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,NEMO-HA_4_2_1,<br>NEMO-HA_4_2_2,NEMO-HA_4_2_3,<br>NEMO-HA_4_2_4,NEMO-HA_4_2_5,<br>NEMO-HA_4_2_6,NEMO-HA_4_2_7,<br>NEMO-HA_4_2_8,NEMO-HA_4_2_9,<br>NEMO-HA_4_2_10,NEMO-HA_4_2_11,<br>NEMO-HA_4_2_12,NEMO-HA_4_2_13,<br>NEMO-HA_4_2_14,NEMO-HA_4_2_15,<br>NEMO-HA_4_2_16, | Real Home link |

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| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,NEMO-HA_5_3_9,<br>NEMO-HA_5_3_10,NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_5,<br>NEMO-HA_9_1_6,NEMO-HA_9_1_7,<br>NEMO-HA_9_1_8,NEMO-HA_9_1_9,<br>NEMO-HA_9_1_10,NEMO-HA_9_1_11,<br>NEMO-HA_9_1_12,NEMO-HA_9_1_13,<br>NEMO-HA_9_1_14,NEMO-HA_9_1_15,<br>NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |

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| 38 | | | | The home agent **MUST** also be prepared to accept reverse tunneled packets from the new care-of address of the mobile node, as described in Section 10.4.5.<br><br>(Section 10.4.5)<br>The tunneled traffic arrives to the home agent's address using<br>IPv6 encapsulation [15].<br>When a home agent decapsulates a tunneled packet from the mobile node, the home agent MUST verify that the Source Address in the tunnel IP header is the mobile node's primary care-of address. Otherwise, any node in the Internet could send traffic through the home agent and escape ingress filtering limitations. | MUST | A | A1 | X | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_2_2,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_3,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6, | Real Home link |

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| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) |
| 39 | | | | Finally, the home agent **MUST** also propagate new home network prefixes, as described in Section 10.6.<br><br>(Section 10.6.2)<br>The valid or preferred lifetime or the state of the flags changes for the prefix of the mobile node's registered home address.<br>The mobile node requests the information with a Mobile Prefix Solicitation (see Section 11.4.2).<br>A new prefix is added to the aggregate list. | MUST | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | 10.3.2 | Primary Care-of Address De-Registration | | A Binding Update is validated and authorized in the manner described in the previous section; | (do) | A | A1 | X | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10, | Real Home link |

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| | | | | | | | | | NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_7_3,NEMO-HA_6_7_4, | |
| 40 | | | To begin processing the Binding Update, the home agent MUST perform the following test: | o If the receiving node has no entry marked as a home registration in its Binding Cache for this mobile node, then this node **MUST** reject the Binding Update and **SHOULD** return a Binding Acknowledgement to the mobile node, in which the Status field is set to 133 (not home agent for this mobile node). | MUST | A | A1 | X | NEMO-HA_3_2_11,NEMO-HA_3_2_12, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10, | Real Home link |

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| 41 | | | | | SHOULD | A | A1 | X | NEMO-HA_3_2_11,NEMO-HA_3_2_12, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10, | Real Home link |
| 42 | | | | If the home agent does not reject the Binding Update as described above, then it **MUST** delete any existing entry in its Binding Cache for this mobile node. | MUST | A | A2 | X | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | A2 | X | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_7_3,NEMO-HA_6_7_4, | Real Home link |
| 43 | | | Then, the home agent **MUST** return a Binding Acknowledgement to the mobile node, constructed as follows: | o The Status field **MUST** be set to a value 0, indicating success. | MUST | A | A1 | X | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_7_3,NEMO-HA_6_7_4, | |
| 44 | | | | o The Key Management Mobility Capability (K) bit is set or cleared and actions based on its value are performed as described in the previous section. The mobile node's home address is used as its new care-of address for the purposes of moving the key management connection to a new endpoint. | (do) | A | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | | Real Home link,<br>IKE |
| 45 | | | | o The Sequence Number field **MUST** be copied from the Sequence Number given in the Binding Update. | MUST | A | A1/A2 | X | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | A2 | X | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_7_3,NEMO-HA_6_7_4, | Real Home link |
| 46 | | | | o The Lifetime field **MUST** be set to zero. | MUST | A | A1 | X | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_7_3,NEMO-HA_6_7_4, | |
| 47 | | | | o The Binding Refresh Advice mobility option **MUST** be omitted. | MUST | A | A1/A2 | X | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_7_3,NEMO-HA_6_7_4, | Real Home link |
| 48 | | | | In addition, the home agent **MUST** stop intercepting packets on the mobile node's home link that are addressed to the mobile node (Section 10.4.1). | MUST | A | A2 | X | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 49 | | | | The rules for selecting the Destination IP address (and, if required, routing header construction) for the Binding Acknowledgement to the mobile node are the same as in the previous section. | (do) | A | A1/A2 | X | NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_7_3,NEMO-HA_6_7_4, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 50 | | | | When the Status field in the Binding Acknowledgement is greater than or equal to 128 and the Source Address of the Binding Update is on the home link, the home agent **MUST** send it to the mobile node's link layer address (retrieved either from the Binding Update or through Neighbor Solicitation). | MUST | A | A2 | X | NEMO-HA_3_2_2,NEMO-HA_3_2_3, NEMO-HA_3_2_4,NEMO-HA_3_2_5, NEMO-HA_3_2_7,NEMO-HA_3_2_8, NEMO-HA_3_2_9,NEMO-HA_3_2_10, NEMO-HA_3_3_1,NEMO-HA_3_3_2, NEMO-HA_3_3_3,NEMO-HA_3_3_4, NEMO-HA_3_3_5,NEMO-HA_3_3_6, NEMO-HA_3_3_7,NEMO-HA_3_3_8, | Real Home link |

*1 Section 6.2 in RFC3963
relaxes this requirement so that the Home Agent rejects the Binding Update only if the Home Address does not belong to the prefix that the Home Agent is configured to

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 1 | 10.4.1. | Intercepting Packets for a Mobile Node | intercepting packets on the mobile node's home link | While a node is serving as the home agent for mobile node it **MUST** attempt to intercept packets on the mobile node's home link that are addressed to the mobile node. | MUST | A | A1 | X | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_21, NEMO-HA_9_1_22,NEMO-HA_9_1_23, NEMO-HA_9_1_24,NEMO-HA_9_1_25, NEMO-HA_9_1_26,NEMO-HA_9_1_27, NEMO-HA_9_1_28,NEMO-HA_9_1_29, NEMO-HA_9_1_30,NEMO-HA_9_1_31, NEMO-HA_9_1_32, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_4, NEMO-HA_4_2_5,NEMO-HA_4_2_6, NEMO-HA_4_2_7,NEMO-HA_4_2_8, NEMO-HA_4_2_9,NEMO-HA_4_2_10, NEMO-HA_4_2_11,NEMO-HA_4_2_12, NEMO-HA_4_2_13,NEMO-HA_4_2_14, NEMO-HA_4_2_15,NEMO-HA_4_2_16, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,NEMO-HA_5_3_9,<br>NEMO-HA_5_3_10,NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_5,<br>NEMO-HA_9_1_6,NEMO-HA_9_1_7,<br>NEMO-HA_9_1_8,NEMO-HA_9_1_9,<br>NEMO-HA_9_1_10,NEMO-HA_9_1_11,<br>NEMO-HA_9_1_12,NEMO-HA_9_1_13,<br>NEMO-HA_9_1_14,NEMO-HA_9_1_15,<br>NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 2 | | | sending Neighbor Advertisement messsage | In order to do this, when a node begins serving as the home agent it **MUST** multicast onto the home link a Neighbor Advertisement message[12] on behalf of the mobile node. For the home address specified in the Binding Update, the home agent sends a Neighbor Advertisement message [12] to the all-nodes multicast address on the home link to advertise the home agent's own link-layer address for this IP address on behalf of the mobile node. | MUST | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 3 | | | | If the Link-Layer Address Compatibility (L) flag has been specified in the Binding Update, the home agent **MUST** do the same for the link-local address of the mobile node. | MUST | A | A2 | X (*1) | NEMO-HA_4_1_2 | Real Home link |
| 4 | | | Neighbor Advertisement message | All fields in each Neighbor Advertisement message **SHOULD** be set in the same way they would be set by the mobile node if it was sending this Neighbor Advertisement [12] while at home. | SHOULD | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 5 | | | | The Target Address in the Neighbor Advertisement **MUST** be set to the specific IP address for the mobile node. | MUST | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 6 | | | | The Advertisement **MUST** include a Target Link-layer Address option specifying the home agent's link-layer address. | MUST | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 7 | | | | The Router (R) bit in the Advertisement **MUST** be set to zero. | MUST | A | A2 | X (*1)(*2) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 8 | | | | The Solicited Flag (S) in the Advertisement **MUST NOT** be set, since it was not solicited by any Neighbor Solicitation. | MUST NOT | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 9 | | | | The Override Flag (O) in the Advertisement **MUST** be set, indicating that the Advertisement **SHOULD** override any existing Neighbor Cache entry at any node receiving it. | MUST | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 10 | | | | | SHOULD | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 11 | | | | The Source Address in the IPv6 header **MUST** be set to the home agent's IP address on the interface used to send the advertisement. | MUST | A | A2 | X (*1) | NEMO-HA_4_1_1,NEMO-HA_4_1_2 | Real Home link |
| 12 | | | retransmitting Neighbor Advetisement message | Since multicasting on the local link (such as Ethernet) is typically not guaranteed to be reliable, the home agent **MAY** retransmit this Neighbor Advertisement message up to MAX_NEIGHBOR_ADVERTISEMENT (see [12]) times to increase its reliability. | MAY | C | - | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 13 | | | acting as a proxy for a mobile node | In order to intercept packets in this way, the home agent **MUST** act as a proxy for this mobile node and reply to any received Neighbor Solicitations for it. | MUST | A | A2 | X (*1) | NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_4, NEMO-HA_4_2_5,NEMO-HA_4_2_6, NEMO-HA_4_2_7,NEMO-HA_4_2_8, NEMO-HA_4_2_9,NEMO-HA_4_2_13, NEMO-HA_4_2_14,NEMO-HA_4_2_15, | Real Home link |
| 14 | | | | When a home agent receives a Neighbor Solicitation, it **MUST** check if the Target Address specified in the message matches the address of any mobile node for which it has a Binding Cache entry marked as a home registration. | MUST | A | A2 | X (*1) | NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_4, NEMO-HA_4_2_5,NEMO-HA_4_2_6, NEMO-HA_4_2_7,NEMO-HA_4_2_8, NEMO-HA_4_2_9,NEMO-HA_4_2_10, NEMO-HA_4_2_11,NEMO-HA_4_2_12, NEMO-HA_4_2_13,NEMO-HA_4_2_14, NEMO-HA_4_2_15,NEMO-HA_4_2_16, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2, NEMO-HA_4_2_3,NEMO-HA_4_3_4, NEMO-HA_4_3_5,NEMO-HA_4_3_6, NEMO-HA_4_3_7,NEMO-HA_4_3_8, NEMO-HA_4_3_9,NEMO-HA_4_3_10, NEMO-HA_4_3_11,NEMO-HA_4_3_12, NEMO-HA_4_3_13,NEMO-HA_4_3_14, NEMO-HA_4_3_15,NEMO-HA_4_3_16, NEMO-HA_4_4_1,NEMO-HA_4_4_2, NEMO-HA_4_4_3,NEMO-HA_4_4_4, NEMO-HA_4_4_5,NEMO-HA_4_4_6, NEMO-HA_4_4_7,NEMO-HA_4_4_8, NEMO-HA_4_4_9,NEMO-HA_4_4_13, NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |
| 15 | | | replying to the Neighbor Solicitation | If such an entry exists in the home agent's Binding Cache, the home agent **MUST** reply to the Neighbor Solicitation with a Neighbor Advertisement giving the home agent's own link-layer address as the link-layer address for the specified Target Address. In addition, the Router (R) bit in the Advertisement **MUST** be set to zero. | MUST | A | A2 | X (*1) | NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_4, NEMO-HA_4_2_5,NEMO-HA_4_2_6, NEMO-HA_4_2_7,NEMO-HA_4_2_8, NEMO-HA_4_2_9,NEMO-HA_4_2_13, NEMO-HA_4_2_14,NEMO-HA_4_2_15, | Real Home link |
| 16 | | | | | MUST | A | A2 | X (*1)(*2) | NEMO-HA_4_2_1,NEMO-HA_4_2_2, NEMO-HA_4_2_3,NEMO-HA_4_2_4, NEMO-HA_4_2_5,NEMO-HA_4_2_6, NEMO-HA_4_2_7,NEMO-HA_4_2_8, NEMO-HA_4_2_9,NEMO-HA_4_2_13, NEMO-HA_4_2_14,NEMO-HA_4_2_15, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 17 | 10.4.2 | Processing Intercepted Packets | sending packets to a Mobile Node | For any packet sent to a mobile node from the mobile node's home agent (in which the home agent is the original sender of the packet), the home agent is operating as a correspondent node of the mobile node for this packet and the procedures described in Section 9.3.2 apply.<br><br>Section 9.3.2<br>Before sending any packet, the sending node SHOULD examine its Binding Cache for an entry for the destination address to which the packet is being sent.<br>If the sending node has a Binding Cache entry for this address, the sending node SHOULD use a type 2 routing header to route the packet to this mobile node (the destination node) by way of its care-of address. | (do) | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br><br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8, | IPv6 encapsulation and decapsulation |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_6,NEMO-HA_2_1_9, NEMO-HA_2_1_14,NEMO-HA_2_1_15, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, | Real Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_6_7_1,NEMO-HA_6_7_3, NEMO-HA_6_7_5,NEMO-HA_6_7_6, NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |
| 18 | | | | The home agent then uses a routing header to route the packet to the mobile node by way of the primary care-of address in the home agent's Binding Cache. | (do) | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_2_12_4,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br><br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | | Virtual Home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6, NEMO-HA_1_1_7, NEMO-HA_2_1_1,NEMO-HA_2_1_2, NEMO-HA_2_1_3,NEMO-HA_2_1_4, NEMO-HA_2_1_6,NEMO-HA_2_1_9, NEMO-HA_2_1_14,NEMO-HA_2_1_15, NEMO-HA_2_2_9,NEMO-HA_2_2_10, NEMO-HA_2_2_13, NEMO-HA_2_3_1,NEMO-HA_2_3_2, NEMO-HA_2_3_3,NEMO-HA_2_3_4, NEMO-HA_2_5_1,NEMO-HA_2_5_2, NEMO-HA_2_5_5,NEMO-HA_2_5_6, NEMO-HA_2_6_1,NEMO-HA_2_6_2, NEMO-HA_2_6_3,NEMO-HA_2_6_4, NEMO-HA_2_6_5,NEMO-HA_2_6_6, NEMO-HA_2_7_1,NEMO-HA_2_7_2, NEMO-HA_2_7_5,NEMO-HA_2_7_6, NEMO-HA_2_8_1,NEMO-HA_2_8_2, NEMO-HA_2_8_3,NEMO-HA_2_8_4, NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_2,NEMO-HA_2_10_3,<br>NEMO-HA_2_10_4,NEMO-HA_2_10_5,<br>NEMO-HA_2_10_6,<br>NEMO-HA_2_11_4,<br>NEMO-HA_2_12_1,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br><br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br><br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br>NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | | Real Home link, IKE |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |
| 19 | | | forwarding packets to a Mobile Node | In order to forward each intercepted packet to the mobile node, the home agent **MUST** tunnel the packet to the mobile node using IPv6 encapsulation [15]. | MUST | A | A1 | X | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_21, NEMO-HA_9_1_22,NEMO-HA_9_1_23, NEMO-HA_9_1_24,NEMO-HA_9_1_25, NEMO-HA_9_1_26,NEMO-HA_9_1_27, NEMO-HA_9_1_28,NEMO-HA_9_1_29, NEMO-HA_9_1_30,NEMO-HA_9_1_31, NEMO-HA_9_1_32, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | A2 | X | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_5, NEMO-HA_9_1_6,NEMO-HA_9_1_7, NEMO-HA_9_1_8,NEMO-HA_9_1_9, NEMO-HA_9_1_10,NEMO-HA_9_1_11, NEMO-HA_9_1_12,NEMO-HA_9_1_13, NEMO-HA_9_1_14,NEMO-HA_9_1_15, NEMO-HA_9_1_16, | Real Home link |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 20 | | | | When a home agent encapsulates an intercepted packet for forwarding to the mobile node, the home agent sets the Source Address in the new tunnel IP header to the home agent's own IP address and sets the Destination Address in the tunnel IP header to the mobile node's primary care-of address. | (do) | A | A1 | X | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_21, NEMO-HA_9_1_22,NEMO-HA_9_1_23, NEMO-HA_9_1_24,NEMO-HA_9_1_25, NEMO-HA_9_1_26,NEMO-HA_9_1_27, NEMO-HA_9_1_28,NEMO-HA_9_1_29, NEMO-HA_9_1_30,NEMO-HA_9_1_31, NEMO-HA_9_1_32, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_5, NEMO-HA_9_1_6,NEMO-HA_9_1_7, NEMO-HA_9_1_8,NEMO-HA_9_1_9, NEMO-HA_9_1_10,NEMO-HA_9_1_11, NEMO-HA_9_1_12,NEMO-HA_9_1_13, NEMO-HA_9_1_14,NEMO-HA_9_1_15, NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |
| 21 | 9.3.4 | | | By the definition of IPv6 encapsulation [15], the home agent **MUST** relay certain ICMP error messages back to the original sender of the packet, which in this case is the correspondent node. | MUST | A | A1 | X | NEMO-HA_5_1_7, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_5_4, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_5_1_2,NEMO-HA_5_1_3, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8, NEMO-HA_5_5_1, | Real Home link |
| 22 | 10.4.2 | | Processing packets to the mobile node's link-local address | However, packets addressed to the mobile node's link-local address **MUST NOT** be tunneled to the mobile node. | MUST NOT | A | A2 | X | NEMO-HA_5_1_2 | Real Home link |
| 23 | | | | Instead, these packet **MUST** be discarded and the home agent **SHOULD** return an ICMP Destination Unreachable, Code 3, message to the packet's Source Address (unless this Source Address is a multicast address). | MUST | A | A2 | X | NEMO-HA_5_1_2 | Real Home link |
| 24 | | | | | SHOULD | A | A2 | X | NEMO-HA_5_1_2 | Real Home link |
| 25 | | | Processing packets to the mobile node's site-local address | Packets addressed to the mobile node's site-local address **SHOULD NOT** be tunneled to the mobile node by default. | SHOULD NOT | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *site-local address |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 26 | | | Processing packets to the mobile node's multicast address | Multicast packets addressed to a multicast address with link-local scope [3], to which the mobile node is subscribed, **MUST NOT** be tunneled to the mobile node. These packets **SHOULD** be silently discarded (after delivering to other local multicast recipients). | MUST NOT | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 27 | | | | | SHOULD | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 28 | | | | Multicast packets addressed to a multicast address with scope larger than link-local, but smaller than global (e.g., site-local and organization-local [3], to which the mobile node is subscribed, **SHOULD NOT** be tunneled to the mobile node. | SHOULD NOT | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *site-local address |
| 29 | | | | Multicast packets addressed with a global scope, to which the mobile node has successfully subscribed, **MUST** be tunneled to the mobile node. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 30 | | | | Before tunneling a packet to the mobile node, the home agent **MUST** perform any IPsec processing as indicated by the security policy data base. | MUST | A | A2 | | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link, and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_21, NEMO-HA_9_1_22,NEMO-HA_9_1_23, NEMO-HA_9_1_24,NEMO-HA_9_1_25, NEMO-HA_9_1_26,NEMO-HA_9_1_27, NEMO-HA_9_1_28,NEMO-HA_9_1_29, NEMO-HA_9_1_30,NEMO-HA_9_1_31, NEMO-HA_9_1_32, | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) and This function is implementaion-dependent. *IPsec Protection of the |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_5, NEMO-HA_9_1_6,NEMO-HA_9_1_7, NEMO-HA_9_1_8,NEMO-HA_9_1_9, NEMO-HA_9_1_10,NEMO-HA_9_1_11, NEMO-HA_9_1_12,NEMO-HA_9_1_13, NEMO-HA_9_1_14,NEMO-HA_9_1_15, NEMO-HA_9_1_16, | Real Home link, and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) and This function is implementaion-dependent. *IPsec Protection of the |
| 31 | 10.4.3 | Multicast Membership Control | not supporting Multicast Membership Control | This section is a prerequisite for the multicast data packet forwarding described in the previous section. If this support is not provided, multicast group membership control messages are silently ignored. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 32 | | | receiving tunneled multicast group membership control information | In order to forward multicast data packets from the home network to all the proper mobile nodes, the home agent **SHOULD** be capable of receiving tunneled multicast group membership control information from the mobile node in order to determine which groups the mobile node has subscribed to. | SHOULD | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 33 | | | periodically transmit MLD Query messages | To obtain the mobile node's current multicast group membership the home agent must periodically transmit MLD Query messages through the tunnel to the mobile node. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 34 | | | | These MLD periodic transmissions will ensure the home agent has an accurate record of the groups in which the mobile node is interested despite packet losses of the mobile node's MLD group membership messages. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |

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| | | | | | | | | Supported | Test No. | |
| 35 | | | processing MLD packets | The MLD packets between the mobile node and the home agent are encapsulated within the same tunnel header used for other packet flows between the mobile node and home agent. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 36 | | | | To avoid ambiguity on the home agent, due to mobile nodes which may choose identical link-local source addresses for their MLD function, it is necessary for the home agent to identify which mobile node was actually the issuer of a particular MLD message. This may be accomplished by noting which tunnel such an MLD arrived by, which IPsec SA was used, or by other distinguishing means. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multicast |
| 37 | 10.4.4 | Stateful Address Autoconfigura tion | stateful address autoconfigura tion mechanisms | This section describes how home agents support the use of stateful address autoconfiguration mechanisms such as DHCPv6 [29] from the mobile nodes. If this support is not provided, then the M and O bits must remain cleared on the Mobile Prefix Advertisement Messages. | (do) | B | B | | | This function is implementaion-dependent. It does not effect on interoperability. *stateful address autoconfigration |
| 38 | | | | Mobile nodes desiring to locate a DHCPv6 service may reverse tunnel standard DHCPv6 packets to the home agent. Since these link-scope packets can not be forwarded onto the home network, it is necessary for the home agent to either implement a DHCPv6 relay agent or a DHCPv6 server function itself. | (do) | B | B | | | This function is implementaion-dependent. It does not effect on interoperability. *stateful address autoconfigration |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 39 | | | | DHCPv6 messages sent to the mobile node with a link-local destination must be tunneled within the same tunnel header used for other packet flows. | (do) | B | B | | | This function is implementaion-dependent. It does not effect on interoperability. *stateful address autoconfigration |
| 40 | 10.4.5 | Handling Reverse Tunneled Packets | Home agents **MUST** support reverse tunneling as follows: | The tunneled traffic arrives to the home agent's address using IPv6 encapsulation [15]. | MUST | A | A1 | X | NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link |
| | | | | | | | A2 | X | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2, NEMO-HA_6_4_1,NEMO-HA_6_4_2, NEMO-HA_6_4_4, NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) |
| 41 | | | | Depending on the security policies used by the home agent, reverse tunneled packets **MAY** be discarded unless accompanied by a valid ESP header. | MAY | B | B | | NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2, NEMO-HA_6_4_1,NEMO-HA_6_4_2, NEMO-HA_6_4_4, NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| 42 | | | | When a home agent decapsulates a tunneled packet from the mobile node, | MUST | A | A1 | X | NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | the home agent **MUST** verify that the Source Address in the tunnel IP header is the mobile node's primary care-of address. Otherwise, any node in the Internet could send traffic through the home agent and escape ingress filtering limitations. | | | | | NEMO-HA_6_5_1,NEMO-HA_6_5_2, NEMO-HA_6_5_3,NEMO-HA_6_5_4, | Real Home link |
| 43 | additional | | | Reverse tunneled packets are discarded if there is no Binding Cache entry. | (add) | A | A1 | X | NEMO-HA_6_2_2,NEMO-HA_6_2_4, NEMO-HA_6_4_3, | Virtual Home link |
| | | | | | | | | | NEMO-HA_6_2_1,NEMO-HA_6_2_3, NEMO-HA_6_4_7, | Real Home link |
| 44 | 10.4.6 | Protecting Return Routability Packets | supporting tunnel mode IPsec ESP | Therefore, the home agent **MUST** support tunnel mode IPsec ESP for the protection of packets belonging to the return routability procedure. | MUST | A | A2 | | | This function is not defined in RFC3963. |
| 45 | | | | Support for a non-null encryption transform and authentication algorithm **MUST** be available. | MUST | A | A2 | | | This function is not defined in RFC3963. |
| 46 | | | | The home agent **MUST** set the new care-of address as the destination address of these packets, as if the outer header destination address in the security association had changed [21]. | MUST | A | A2 | | | This function is not defined in RFC3963. |
| 47 | | | | When IPsec is used to protect return routability signaling or payload packets, this protection **MUST** only be applied to the return routability packets entering the IPv6 encapsulated tunnel interface between the mobile node and the home agent. | MUST | A | A2 | | | This function is not defined in RFC3963. |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | (*1) Section 6.2 in RFC3963 relaxes this requirement so that the Home Agent rejects the Binding Update only if the Home Address does not belong to the | | | | | | |
| | | | | (*2) In section 6.2 of RFC3963, R bit field is required to be 1. | | | | | | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 1 | 10.5.1 | Receiving Router Advertisement Messages | On receipt of a valid Router Advertisement, as defined in the processing algorithm specified for Neighbor Discovery [12], the home agent performs the following steps, in addition to any steps already required of it by Neighbor Discovery: | o If the Home Agent (H) bit in the Router Advertisement is not set, delete the sending node's entry in the current Home Agents List (if one exists). Skip all the following steps. | (do) | A | A2 | X | NEMO-HA_7_4_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_8, | Real home link, Dynamic Home Agent Address Discovery |
| 2 | | | | o Otherwise, extract the Source Address from the IP header of the Router Advertisement. This is the link-local IP address on this link of the home agent sending this Advertisement [12]. | (do) | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| 3 | | | | o Determine the preference for this home agent. If the Router Advertisement contains a Home Agent Information Option, then the preference is taken from the Home Agent Preference field in the option; | (do) | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_12,NEMO-HA_7_2_13, NEMO-HA_7_2_14,NEMO-HA_7_2_15, NEMO-HA_7_3_1, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| 4 | | | | otherwise, the default preference of 0 **MUST** be used. | MUST | A | A2 | X | NEMO-HA_7_2_9,NEMO-HA_7_2_11, | Real home link, Dynamic Home Agent Address Discovery |
| 5 | | | | o Determine the lifetime for this home agent. If the Router Advertisement contains a Home Agent Information Option, then the lifetime is taken from the Home Agent Lifetime field in the option; | (do) | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_12,NEMO-HA_7_2_13, NEMO-HA_7_2_14,NEMO-HA_7_2_15, NEMO-HA_7_3_1, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 6 | | | | otherwise, the lifetime specified by the Router Lifetime field in the Router Advertisement **SHOULD** be used. | SHOULD | A | A2 | X | NEMO-HA_7_3_2, NEMO-HA_7_2_9,NEMO-HA_7_2_11, | Real home link, Dynamic Home Agent Address Discovery |
| 7 | | | | o If the link-local address of the home agent sending this Advertisement is already present in this home agent's Home Agents List and the received home agent lifetime value is zero, immediately delete this entry in the Home Agents List. | (do) | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_11, NEMO-HA_7_2_14,NEMO-HA_7_2_15, NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| 8 | | | | o Otherwise, if the link-local address of the home agent sending this Advertisement is already present in the receiving home agent's Home Agents List, reset its lifetime and preference to the values determined | (do) | A | A2 | X | NEMO-HA_7_2_12,NEMO-HA_7_2_13, | Real home link, Dynamic Home Agent Address Discovery |
| 9 | | | | o If the link-local address of the home agent sending this Advertisement is not already present in the Home Agents List maintained by the receiving home agent, and the lifetime for the sending home agent is non-zero, create a new entry in the list, and initialize its lifetime and preference to the values determined above. | (do) | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_11, NEMO-HA_7_2_14,NEMO-HA_7_2_15, NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| 10 | | | | o If the Home Agents List entry for the link-local address of the home agent sending this Advertisement was not deleted as described above, determine any global address(es) of the home | (do) | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_11, NEMO-HA_7_2_12,NEMO-HA_7_2_13, NEMO-HA_7_2_14,NEMO-HA_7_2_15 | Real home link, Dynamic Home Agent Address Discovery |

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| | | | | ~~any global address(es) of the home~~ agent based on each Prefix Information option received in this Advertisement in which the Router Address (R) bit is set (Section 7.2). Add all such global addresses to the list of global addresses in this Home Agents List entry. | | | | | NEMO-HA_7_3_1, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | |
| 11 | | | | A home agent **SHOULD** maintain an entry in its Home Agents List for each valid home agent address until that entry's lifetime expires, after which time the entry **MUST** be deleted. | SHOULD | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_4_2,NEMO-HA_7_2_3, NEMO-HA_7_2_4,NEMO-HA_7_2_5, NEMO-HA_7_2_6,NEMO-HA_7_2_7, NEMO-HA_7_2_8,NEMO-HA_7_2_9, NEMO-HA_7_2_10,NEMO-HA_7_2_11, NEMO-HA_7_2_12,NEMO-HA_7_2_13, NEMO-HA_7_2_14,NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| 12 | | | | | MUST | A | A2 | X | NEMO-HA_7_2_10,NEMO-HA_7_2_11, NEMO-HA_7_2_13, | Real home link, Dynamic Home Agent Address Discovery |
| 13 | | | | A home agent receiving a Home Agent Address Discovery Request message that serves this subnet **SHOULD** return an ICMP Home Agent Address Discovery Reply message to the mobile node with the Source Address of the Reply packet set to one of the global unicast addresses of the home agent. | SHOULD | A | A2 | X | NEMO-HA_7_1_2,NEMO-HA_7_1_4, NEMO-HA_7_1_6, | Virtual home link, Dynamic Home Agent Address Discovery |
| | | | | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |

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| 14 | | | The Home Agent Addresses field in the Reply message is constructed as follows: | o The Home Agent Addresses field **SHOULD** contain all global IP addresses for each home agent currently listed in this home agent's own Home Agents List (Section 10.1). | SHOULD | A | A2 | X (*1) | NEMO-HA_7_1_2,NEMO-HA_7_1_4, NEMO-HA_7_1_6, | Virtual home link, Dynamic Home Agent Address Discovery |
| | | | | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| 15 | | | | o The IP addresses in the Home Agent Addresses field **SHOULD** be listed in order of decreasing preference values, based either on the respective advertised preference from a Home Agent Information option or on the default preference of 0 if no preference is advertised (or on the configured home agent preference for this home agent itself). | SHOULD | A | A2 | X | NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1, NEMO-HA_7_5_1, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10, | Real home link, Dynamic Home Agent Address Discovery |
| 16 | | | | o Among home agents with equal preference, their IP addresses in the Home Agent Addresses field **SHOULD** be listed in an order randomized with respect to other home agents with equal preference every time a Home Agent Address Discovery Reply message is returned by this home agent | SHOULD | A | A2 | X | NEMO-HA_7_2_14,NEMO-HA_7_2_15, NEMO-HA_7_4_2, | Real home link, Dynamic Home Agent Address Discovery |

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| 17 | | | | o If more than one global IP address is associated with a home agent, these addresses **SHOULD** be listed in a randomized order. | SHOULD | A | A2 | X | NEMO-HA_7_2_15, | Real home link, Dynamic Home Agent Address Discovery |
| 18 | | | | o The home agent **SHOULD** reduce the number of home agent IP addresses so that the packet fits within the minimum IPv6 MTU [11]. | SHOULD | A | A2 | X | NEMO-HA_7_5_1, | Real home link, Dynamic Home Agent Address Discovery |
| 19 | | | | The home agent addresses selected for inclusion in the packet **SHOULD** be those from the complete list with the highest preference. This limitation avoids the danger of the Reply message packet being fragmented (or rejected by an intermediate router with an ICMP Packet Too Big message [14]). | SHOULD | A | A2 | X | NEMO-HA_7_5_1, | Real home link, Dynamic Home Agent Address Discovery |

(*1) In section 7 of RFC3963,
If a Home Agent receives a
Dynamic Home Agent Discovery
request message with the Mobile
Router
Support Flag set, it MUST reply with
a list of Home Agents supporting

(*2) In section 7.3 of RFC3963,
R bit flag is required in Home agent
information option

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| 1 | 10.6.1. | List of Home Network Prefixes | monitoring prefixes and passing them on to MNs | To support this, the home agent monitors prefixes advertised by itself and other home agents on the home link. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multiple prefix |
| 2 | 10.6.2 | Scheduling Prefix Deliveries | A home agent serving a mobile node will schedule the delivery of new prefix information to that mobile node when any of the following conditions occur: **MUST:** | The state of the flags changes for the prefix of the mobile node's registered home address. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 3 | | | | The valid or preferred lifetime is reconfigured or changes for any reason other than advancing real time. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 4 | | | | The mobile node requests the information with a Mobile Prefix Solicitation (see Section 11.4.2). | MUST | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 5 | additional | | | When a home agent receives a Mobile Prefix Solicitation form a mobile node before a home registration, the home agent sends a Binding Error message to the mobile node. | (add) | A | A2 | X | NEMO-HA_8_1_4 | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_3, | Real Home link, MPS/MPA |
| 6 | 10.6.2 | | A home agent serving a mobile node will schedule the delivery of new prefix information to that mobile node when any of the following conditions occur: **SHOULD:** | A new prefix is added to the home subnet interface(s) of the home agent. | SHOULD | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *Multiple prefix |

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| 7 | | | A home agent serving a mobile node will schedule the delivery of new prefix information to that mobile node when any of the following conditions occur:<br>**MAY:** | The valid or preferred lifetime or the state of the flags changes for a prefix which is not used in any Binding Cache entry for this mobile node. | MAY | B | B | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 8 | | | algorithm to determine when to send prefix information | If a mobile node sends a solicitation, answer right away. | (do) | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 9 | | | | If no Mobile Prefix Advertisement has been sent to the mobile node in the last MaxMobPfxAdvInterval seconds (see Section 13), then ensure that a transmission is scheduled. The actual transmission time is randomized as described below. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 10 | | | | If a prefix matching the mobile node's home registration is added on the home subnet interface or if its information changes in any way that does not deprecate the mobile node's address, ensure that a transmission is scheduled. The actual transmission time is randomized as described below. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 11 | | | | If a home registration expires, cancel any scheduled advertisements to the mobile node. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| 12 | | | scheduling the transmission of a Mobile Prefix Advertisement | If the home agent has already scheduled the transmission of a Mobile Prefix Advertisement to the mobile node, then the home agent will replace the advertisement with a new one to be sent at the scheduled time. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 13 | | | | Otherwise, the home agent computes a fresh value for RAND_ADV_DELAY which offsets from the current time for the scheduled transmission. First calculate the maximum delay for the scheduled Advertisement:<br>MaxScheduleDelay = min (MaxMobPfxAdvInterval, Preferred Lifetime),<br>where MaxMobPfxAdvInterval is as defined in Section 12. Then computethe final delay for the advertisement:<br>RAND_ADV_DELAY = MinMobPfxAdvInterval + (rand() % abs(MaxScheduleDelay - MinMobPfxAdvInterval))<br>Here rand() returns a random integer value in the range of 0 to the maximum possible integer value. | (do) | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 14 | | | | In addition, a home agent **MAY** further reduce the rate of packet transmission by further delaying individual advertisements, when necessary to avoid overwhelming local network resources. | MAY | C | - | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 15 | | | | The home agent SHOULD periodically continue to retransmit an unsolicited Advertisement to the mobile node, until it is acknowledged by the receipt of a Mobile Prefix Solicitation from the mobile node. | SHOULD | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| 16 | | | | The home agent **MUST** wait PREFIX_ADV_TIMEOUT (see Section 12) before the first retransmission and double the retransmission wait time for every succeeding retransmission until a maximum number of PREFIX_ADV_RETRIES attempts (see Section 12) has been tried. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 17 | | | | If the mobile node's bindings expire before the matching Binding Update has been received, then the home agent **MUST NOT** attempt any more retransmissions, even if not all PREFIX_ADV_RETRIES have been retransmitted. | MUST NOT | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. *MPS/MPA |
| 18 | | | | In the meantime, if the mobile node sends another Binding Update without returning home, then the home agent **SHOULD** begin transmitting the unsolicited Advertisement again. | SHOULD | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 19 | | | | If some condition, as described above, occurs on the home link and causes another Prefix Advertisement to be sent to the mobile node, before the mobile node acknowledges a previous transmission, the home agent **SHOULD** combine any Prefix Information options in the unacknowledged Mobile Prefix Advertisement into a new Advertisement. The home agent then discards the old Advertisement. | SHOULD | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| 20 | 10.6.3 | Sending Advertisements | When sending a Mobile Prefix Advertisement to the mobile node, the home agent **MUST** construct the packet as follows: | The Source Address in the packet's IPv6 header **MUST** be set to the home agent's IP address to which the mobile node addressed its current home registration or its default global home agent address if no binding exists. | MUST | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 21 | | | | If the advertisement was solicited, it **MUST** be destined to the source address of the solicitation. If it was triggered by prefix changes or renumbering, the advertisement's destination will be the mobile node's home address in the binding which triggered the rule. | MUST | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 22 | | | | A type 2 routing header **MUST** be included with the mobile node's home address. | MUST | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 23 | | | | IPsec headers **MUST** be supported and **SHOULD** be used. | MUST/ SHOULD | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 24 | | | | The home agent **MUST** send the packet as it would any other unicast IPv6 packet that it originates. | MUST | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |

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| 25 | | | | Set the Managed Address Configuration (M) flag if the corresponding flag has been set in any of the Router Advertisements from which the prefix information has been learned (including the ones sent by this home agent). | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 26 | | | | Set the Other Stateful Configuration (O) flag if the corresponding flag has been set in any of the Router Advertisements from which the prefix information has been learned (including the ones sent by this home agent). | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 27 | 10.6.4 | Lifetimes for Changed Prefixes | | As described in Section 10.3.1, the lifetime returned by the home agent in a Binding Acknowledgement **MUST** not be greater than the remaining valid lifetime for the subnet prefix in the mobile node's home address. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | Supported | Test No. | |
| 1 | 4.1 | Mandatory Support | The following requirements apply to both home agents and mobile nodes: | Manual configuration of IPsec security associations **MUST** be supported.The configuration of the keys is expected to take placeout-of-band, for instance at the time the mobile node is configured to use its home agent. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_4,NEMO-HA_2_2_5, NEMO-HA_2_2_6,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_14, NEMO-HA_2_11_15, NEMO-HA_2_12_4,NEMO-HA_2_12_6, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_4,<br>NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3,<br>NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |
| 2 | | | | Automatic key management with IKE [4] **MAY** be supported. Only IKEv1 is discussed in this document. Other automatic key management mechanisms exist and will appear beyond IKEv1, but this document does not address the issues related to them. | MAY | B | B | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | | Real Home link,<br>IKE |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 3 | | | | ESP encapsulation of Binding Updates and Acknowledgements between the mobile node and home agent **MUST** be supported and **MUST** be used. | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |
| 4 | | | | | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_6_7_1,NEMO-HA_6_7_3, NEMO-HA_6_7_5,NEMO-HA_6_7_6, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) |
| 5 | | | | ESP encapsulation of the Home Test Init and Home Test messages tunneled between the mobile node and home agent **MUST** be supported and **SHOULD** be used. | MUST | A | A2 | | | This function is not defined in RFC3963. |
| 6 | | | | | SHOULD | A | A2 | | | This function is not defined in RFC3963. |
| 7 | | | | ESP encapsulation of the ICMPv6 messages related to prefix discovery **MUST** be supported and **SHOULD** be used. | MUST | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_4, NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3, NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 8 | | | | | SHOULD | A | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_4, NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3, NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| 9 | | | | ESP encapsulation of the payload packets tunneled between the mobile node and home agent **MAY** be supported and used. | MAY | B | B | | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, | This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA)<br>and<br>This function is implementaion-dependent.<br>*IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,NEMO-HA_5_3_9,<br>NEMO-HA_5_3_10,NEMO-HA_5_3_12,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link<br>and<br>This function is implementaion-dependent.<br>*IPsec Protection of the payload packets tunneled between MR and HA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA)<br>and<br>This function is implementaion-dependent.<br>*IPsec Protection of the payload packets tunneled between MR and HA |
| 10 | | | | If multicast group membership control protocols or stateful address autoconfiguration protocols are supported, payload data protection **MUST** be supported for those protocols. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability.<br>*Multicast |
| 11 | 4.2 | Policy Requirements | The following requirements apply to both home agents and mobile nodes: | As required in the base specification [7], when a packet destined to the receiving node is matched against IPsec security policy or selectors of a security association, an address appearing in a Home Address destination option is considered as the source address of the packet.<br><br>Note that the home address option appears before IPsec headers. Section 11.3.2 of the base specification describes one possible implementation approach for this: The IPsec policy operations can be performed at the time when the packet has not yet been modified per Mobile IPv6 rules, or has been brought back to its normal form after Mobile IPv6 processing. That is, the processing of the Home Address option is seen as a fixed transformation of the packets that does not affect IPsec processing. | (do) | A | A1/A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_4,<br>NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6, | Real Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3,<br>NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |
| 12 | | | | Similarly, a home address within a Type 2 Routing header destined to the receiving node is considered as the destination address of the packet, when a packet is matched against IPsec security policy or selectors of a security association.<br><br>Similar implementation considers apply to the Routing header processing as was described above for the Home Address destination option. | (do) | A | A1/A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br><br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |

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| 14 | | | | When IPsec is used to protect return routability signaling or payload packets, this protection **MUST** only be applied to the return routability packets entering the IPv6 encapsulated tunnel interface between the mobile node and the home agent. This can be achieved, for instance, by defining the security policy database entries specifically for the tunnel interface. That is, the policy entries are not generally applied on all traffic on the physical interface(s) of the nodes, but rather only on traffic that enters this tunnel. | MUST | A | A2 | | | This function is not defined in RFC3963.<br>*Return routability |
| | | | | | | B | B | | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | This function is implementaion-dependent.<br>*IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Nested mobility(Same HA) and This function is implementaion-dependent.<br>*IPsec Protection of the payload packets tunneled between MR and HA |

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| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,NEMO-HA_5_3_9,<br>NEMO-HA_5_3_10,NEMO-HA_5_3_12,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link<br>and<br>This function is implementaion-dependent.<br>*IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA)<br>and<br>This function is implementaion-dependent.<br>*IPsec Protection of the payload packets tunneled between MR and HA |
| 15 | | | | The authentication of mobile nodes **MAY** be based either on machine or user credentials. Note that multi-user operating systems typically allow all users of a node to use any of the IP addresses assigned to the node. This limits the capability of the home agent to restrict the use of a home address to a particular user in such environment. Where user credentials are applied in a multi-user environment, the configuration should authorize all users of the node to control all home addresses assigned to the node. | MAY | B | B | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| 16 | | | | When the mobile node returns home and de-registers with the Home Agent, the tunnel between the home agent and the mobile node's care-of address is torn down. The security policy entries, which were used for protecting tunneled traffic between the mobile node and the home agent **MUST** be made inactive (for instance, by removing them and installing them back later through an API). The corresponding security associations could be kept as they are or deleted depending on how they were created. If the security associations were created dynamically using IKE, they are automatically deleted when they expire. If the security associations were created through manual configuration, they **MUST** be retained and used later when the mobile node moves aways from home again. The security associations protecting Binding Updates and Acknowledgements, and prefix discovery **SHOULD NOT** be deleted as they do not depend on care-of addresses and can be used again. | MUST | A | A2 | | | Real Home link |
| 17 | | | | | MUST | A | A2 | | | Real Home link |
| 18 | | | | | SHOULD NOT | A | A2 | | | Real Home link |

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| 19 | | | The following rules apply to home agents: | The home agent **MUST** use the Type 2 Routing header in Binding Acknowledgements and Mobile Prefix Advertisements sent to the mobile node, again due to the need to have the home address visible when the policy checks are made. | MUST | A | A1/A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3, | Real Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |
| 20 | | | | It is necessary to avoid the possibility that a mobile node could use its security association to send a Binding Update on behalf of another mobile node using the same home agent. In order to do this, the security policy database entries **MUST** unequivocally identify a single security association for any given home address and home agent when manual keying is used. When dynamic keying | MUST | A | A1 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | is used, the security policy database entries **MUST** unequivocally identify the IKE phase 1 credentials which can be used to authorize the creation of security associations for a particular home address. How these mappings are maintained is outside the scope of this specification, but they may be maintained, for instance, as a locally administered table in the home agent. If the phase 1 identity is a FQDN, secure forms of DNS may also be used. | | | | | NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_14, NEMO-HA_2_11_15, NEMO-HA_2_12_4,NEMO-HA_2_12_6, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_8, NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7,<br>NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |
| 21 | | | | | MUST | A | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | | Real Home link,<br>IKE |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 22 | 4.3 | IPsec Protocol Processing | The following requirements apply to both home agents and mobile nodes: | When securing Binding Updates, Binding Acknowledgements, and prefix discovery, both the mobile nodes and the home agents **MUST** support and **SHOULD** use the Encapsulating Security Payload (ESP) [3] header in transport mode and **MUST** use a non-null payload authentication algorithm to provide data origin authentication, connectionless integrity and optional anti-replay protection. | MUST | A | A1/A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br><br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_4,<br>NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3,<br>NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |

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| | | | | | | | | Supported | Test No. | |
| 23 | | | | | SHOULD | A | A1/A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br><br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link |

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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_4,<br>NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3,<br>NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) |
| 24 | | | | | MUST | A | A1/A2 | X | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_6,NEMO-HA_2_2_8,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12, | Virtual Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_12,<br>NEMO-HA_2_11_13,NEMO-HA_2_11_14,<br>NEMO-HA_2_11_15,<br>NEMO-HA_2_12_4,NEMO-HA_2_12_6,<br><br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_2_11,NEMO-HA_3_2_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20,<br><br>NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br><br>NEMO-HA_5_4_3,NEMO-HA_5_4_4,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | |
| | | | | | | | A2 | X | NEMO-HA_8_1_2,NEMO-HA_8_1_4,<br>NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link, MPS/MPA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br><br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10, | Real Home link |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br><br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4, | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_6_7_1,NEMO-HA_6_7_3, NEMO-HA_6_7_5,NEMO-HA_6_7_6, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3, NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link, MPS/MPA |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) |
| 25 | | | | Tunnel mode IPsec ESP **MUST** be supported and **SHOULD** be used for the protection of packets belonging to the return routability procedure. A non-null encryption transform and a non-null authentication algorithm **MUST** be applied. | MUST | A | A2 | | | This function is not defined in RFC3963. |
| 26 | | | | | SHOULD | A | A2 | | | This function is not defined in RFC3963. |
| 27 | | | | | MUST | A | A2 | | | This function is not defined in RFC3963. |
| 28 | | | The following rules apply to home agents: | When IPsec is used to protect return routability signaling or payload packets, IPsec security associations are | MUST | A | A2 | | | This function is not defined in RFC3963. |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | needed to provide this protection. When the care-of address for the mobile node changes as a result of an accepted Binding Update, special treatment is needed for the next packets sent using these security associations. The home agent **MUST** set the new care-of address as the destination address of these packets, as if the outer header destination address in the security association had changed. Similarly, the home agent starts to expect the new source address in the tunnel packets received from the mobile node. | | B | B | | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Nested mobility(Same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, | Real Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2, NEMO-HA_6_4_1,NEMO-HA_6_4_2, NEMO-HA_6_4_4, NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| 29 | | | | Such address changes can be implemented, for instance, through an API from the Mobile IPv6 implementation to the IPsec implementation. It should be noted that the use of such an API and the address changes **MUST** only be done based on the Binding Updates received by the home agent and protected by the use of IPsec. Address modifications based on other sources, such as Binding Updates to the correspondent nodes protected by return routability, or open access to an API from any application may result in security vulnerabilities. | MUST | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 30 | 4.4 | Dynamic Keying | The following requirements | If anti-replay protection is required, dynamic keying **MUST** be used. IPsec | MUST | A | A2 | X | | Virtual Home link, IKE |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | apply to both home agents and mobile nodes: | can provide anti-replay protection only if dynamic keying is used (which may not always be the case). IPsec also does not guarantee correct ordering of packets, only that they have not been replayed. Because of this, sequence numbers within the Mobile IPv6 messages are used to ensure correct ordering. However, if the 16 bit Mobile IPv6 sequence number space is cycled through, or the home agent reboots and loses its state regarding the sequence numbers, replay and reordering attacks become possible. The use of dynamic keying, IPsec anti-replay protection, and the Mobile IPv6 sequence numbers can together prevent such attacks. | | | | | | Real Home link, IKE |
| 31 | | | | If IKE version 1 is used with preshared secrets in main mode, it determines the shared secret to use from the IP address of the peer. With Mobile IPv6, however, this may be a care-of address and does not indicate which mobile node attempts to contact the home agent. Therefore, if preshared secret authentication is used in IKEv1 between the mobile node and the home agent then aggressive mode **MUST** be used. Note also that care needs to be taken with phase 1 identity selection. Where the ID_IPV6_ADDR Identity Payloads is used, unambiguous mapping of identities to keys is not possible. (The next version of IKE may not have these limitations.) | MUST | A | A2 | X | | Virtual Home link, IKE |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| | | | | | | | | | | Real Home link,<br>IKE |
| 32 | | | The following rules apply to home agents: | If the home agent has used IKE version 1 to establish security associations with the mobile node, it should follow the procedures discussed in Section 10.3.1 and 10.3.2 of the base specification [7] to determine whether the IKE endpoints can be moved or if IKE phase 1 has to be re-established. | (do) | A | A2 | X | | Virtual Home link,<br>IKE |
| | | | | | | | | | | Real Home link,<br>IKE |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 1 | 3 | Packet Formats | | The mobile node and the home agent **MUST** support the packet formats as defined in Section 3 of RFC 3776. | MUST | A | A1 | | | (generalization) |
| 2 | | | | The support for the above tunneled packet format is optional on the mobile node and the home agent. | (do) | B | B | | | all traffic in tunnel mode |
| 3 | 4.1 | General Requirements | | RFC 3775 states that manual configuration of IPsec security associations **MUST** be supported, and automated key management **MAY** be supported. | MUST | A | A1 | | | (generalization) |
| 4 | | | | | MAY | B | B | | | IKEv2 |
| 5 | | | | ESP encapsulation for Binding Updates and Binding Acknowledgements **MUST** be supported and used. | MUST | A | A1/A2 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5 NEMO-HA_2_2_3, NEMO-HA_2_2_6 NEMO-HA_3_1_1, NEMO-HA_3_1_11 NEMO-HA_3_1_2, NEMO-HA_3_1_4 | fine-grain selectors (BU/BA) |
| 6 | | | | ESP encapsulation in tunnel mode for the Home Test Init (HoTi) and Home Test (HoT) messages tunneled between the mobile node and the home agent **MUST** be supported and **SHOULD** be used. | MUST/ SHOULD | - | - | | NEMO-HA_6_3_2, NEMO-HA_6_3_6 NEMO-HA_6_3_4, NEMO-HA_6_3_8 NEMO-HA_6_3_9, NEMO-HA_6_3_10 | fine-grain selectors (HoTI/HoT) |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 7 | | | | ESP encapsulation of the ICMPv6 messages related to mobile prefix discovery **MUST** be supported and **SHOULD** be used. | MUST/ SHOULD | A | A2 | X | NEMO-HA_8_1_1, NEMO-HA_8_1_2 | fine-grain selectors (MPS/MPA) |
| 8 | | | | ESP encapsulation of the payload packets tunneled between the mobile node and the home agent **MAY** be supported and used. | MAY | B | B | | | ESP encapsulation of the payload packets |
| 9 | | | | If multicast group membership control protocols or stateful address autoconfiguration protocols are supported, payload data protection **MUST** be supported for those protocols. | MUST | A | A2 | | | multicast group membership control protocols |
| 10 | | | | The home agent and the mobile node **MAY** support authentication using EAP in IKEv2 as described in Section | MAY | B | B | | | IKEv2 |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 11 | | | | The home agent and the mobile node MAY support remote configuration of the home address as described in Section 9. When the home agent receives a configuration payload with a CFG_REQUEST for INTERNAL_IP6_ADDRESS, it must reply with a valid home address f | MAY | B | B | | | IKEv2 |
| 12 | 4.2 | Policy Requirements | | The home agent **MUST** be able to prevent a mobile node from using its security association to send a Binding Update on behalf of another mobile node. | MUST | A | A1 | | | (Setting of IPsec configuration) |
| 13 | | | | With manual IPsec configuration, the home agent **MUST** be able to verify that a security association was created for a particular home address. | MUST | A | A1 | | | (Setting of IPsec configuration) |
| 14 | | | | With dynamic keying, the home agent **MUST** be able to verify that the identity presented in the IKE_AUTH exchange is allowed to create security associations for a particular home address. | MUST | A | A2 | | | IKEv2 |

Functional classification and test priority for HA

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 15 | | | | As required in the base specification [2], when a packet destined to the receiving node is matched against IPsec security policy or selectors of a security association, an address appearing in a Home Address destination option is considered as the source | (do) | A | A1 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5 NEMO-HA_2_2_3, NEMO-HA_2_2_6 NEMO-HA_3_1_1, NEMO-HA_3_1_11 NEMO-HA_3_1_2 | |
| 16 | | | | Similar implementation considerations apply to the Routing header processing as was described above for the Home Address destination option. | (do) | A | A1 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5 NEMO-HA_2_2_3, NEMO-HA_2_2_6 NEMO-HA_3_1_1, NEMO-HA_3_1_11 NEMO-HA_3_1_2 | |
| 17 | | | | The security policy entries, which were used for protecting tunneled traffic between the mobile node and the home agent, **SHOULD** be made inactive (for instance, by removing them and installing them back later through an API). | SHOULD | A | A2 | | | Real home link |
| 18 | | | | If the security associations were created dynamically using IKE, they are automatically deleted when they expire. | (do) | B | B | | | IKEv2 |
| 19 | | | | If the security associations were created through manual configuration, they **MUST** be retained and used later when the mobile node moves away from home again. | MUST | A | A2 | | | tunnel traffic IPsec manual configuration (Scenario Test) |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 20 | | | | The security associations protecting Binding Updates, Binding Acknowledgements and Mobile Prefix Discovery messages SHOULD NOT be deleted as they do not depend on care-of addresses and can be used again. | SHOULD NOT | A | A1/A2 | | | A1:BU/BA<br>A2:MPS/MPA<br>(Scenario Test) |
| 21 | | | | The mobile node **MUST** use the Home Address destination option in Binding Updates and Mobile Prefix Solicitations when transport mode IPsec protection is used, so that the home address is visible when the IPsec policy checks are made. | MUST | A | A1/A2 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5<br>NEMO-HA_3_1_1, NEMO-HA_3_1_11<br>NEMO-HA_3_1_2, NEMO-HA_3_1_4<br>NEMO-HA_8_1_1, NEMO-HA_8_1_2 | A1:BU/BA<br>A2:MPS/MPA |
| 22 | | | | The home agent MUST use the Type 2 Routing header in Binding Acknowledgements and Mobile Prefix Advertisements sent to the mobile node when transport mode IPsec protection is used, again due to the need to have the home address visible when the policy checks are made. | MUST | A | A1/A2 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5<br>NEMO-HA_3_1_1, NEMO-HA_3_1_11<br>NEMO-HA_3_1_2, NEMO-HA_3_1_4<br>NEMO-HA_8_1_1, NEMO-HA_8_1_2 | A1:BU/BA<br>A2:MPS/MPA |
| 23 | 4.3 | IPsec Protocol Processing Requirement | | The home agent and mobile node **SHOULD** support Mobility Header message type as an IPsec selector. | SHOULD | A | A2 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5 | fine-grain selectors |
| 24 | | | | The home agent and mobile node **SHOULD** support ICMPv6 message type as an IPsec selector. | SHOULD | A | A2 | X | NEMO-HA_8_1_1, NEMO-HA_8_1_2 | fine-grain selectors |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 25 | | | | The home agent **MUST** be able to distinguish between HoTi messages sent to itself (when it is acting as a Correspondent Node) and those sent to Correspondent Nodes (when it is acting as a home agent) based on the destination address of the packet. | MUST | A | A2 | | | HoTI/HoT |
| 26 | | | | When securing Binding Updates, Binding Acknowledgements, and Mobile Prefix Discovery messages, both the mobile node and the home agent MUST support the use of the Encapsulating Security Payload (ESP) [6] header in transport mode and MUST use a non-null pa | MUST | A | A1/A2 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5<br>NEMO-HA_3_1_1, NEMO-HA_3_1_11<br>NEMO-HA_3_1_2, NEMO-HA_3_1_4<br>NEMO-HA_8_1_1, NEMO-HA_8_1_2 | A1:BU/BA<br>A2:MPS/MPA |
| 27 | | | | | MUST | A | A1/A2 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5<br>NEMO-HA_3_1_1, NEMO-HA_3_1_11<br>NEMO-HA_3_1_2, NEMO-HA_3_1_4<br>NEMO-HA_8_1_1, NEMO-HA_8_1_2 | A1:BU/BA<br>A2:MPS/MPA |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 28 | | | | Tunnel mode IPsec ESP **MUST** be supported and **SHOULD** be used for the protection of packets belonging to the return routability procedure. A non-null encryption transform and a non-null authentication algorithm **MUST** be applied. | MUST | - | - | - | NEMO-HA_6_3_2, NEMO-HA_6_3_6 NEMO-HA_6_3_4, NEMO-HA_6_3_8 NEMO-HA_6_3_9, NEMO-HA_6_3_10 | HoTI/HoT |
| 29 | | | | | SHOULD | - | - | - | NEMO-HA_6_3_2, NEMO-HA_6_3_6 NEMO-HA_6_3_4, NEMO-HA_6_3_8 NEMO-HA_6_3_9, NEMO-HA_6_3_10 | HoTI/HoT |
| 30 | | | | | MUST | - | - | - | NEMO-HA_6_3_2, NEMO-HA_6_3_6 NEMO-HA_6_3_4, NEMO-HA_6_3_8 NEMO-HA_6_3_9, NEMO-HA_6_3_10 | HoTI/HoT |
| 31 | | | | In order to prevent this, Mobile IPv6 implementations MUST use the Alternate Care-of Address mobility option in Binding Updates sent by mobile nodes while away from home.The exception to this is when the mobile node returns home and sends a Binding Update | MUST | A | A1 | X | NEMO-HA_2_1_1, NEMO-HA_2_1_5 NEMO-HA_3_1_1, NEMO-HA_3_1_11 | |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 32 | | | | The exception to this is when the mobile node returns home and sends a Binding Update to the home agent in order to de-register. | (do) | A | A1 | X | NEMO-HA_3_1_2, NEMO-HA_3_1_4 NEMO-HA_8_1_1, NEMO-HA_8_1_2 | Real home link for HA |
| 33 | | | | When IPsec is used to protect return routability signaling or payload packets, the mobile node **MUST** set the source address it uses for the outgoing tunnel packets to the current primary care- of address. | MUST | - | - | - | NEMO-HA_6_3_2, NEMO-HA_6_3_6 NEMO-HA_6_3_9, NEMO-HA_6_3_10 | RR |
| 34 | | | | The home agent MUST set the new care-of address as the destination address of these packets, as if the outer header destination address in the security association had changed. Similarly, the home agent starts to expect the new source address in the tunne | MUST | - | - | - | NEMO-HA_6_3_2, NEMO-HA_6_3_6 NEMO-HA_6_3_4, NEMO-HA_6_3_8 | RR |
| 35 | | | | It should be noted that the use of such an API and the address changes **MUST** only be done based on the Binding Updates received by the home agent and protected by the use of IPsec. | MUST | A | A1 | - | | depend on implementation |
| 36 | 4.4 | Dynamic Keying Requirements | | The mobile node **MUST** use its care-of address as source address in protocol exchanges, when using dynamic keying. | MUST | A | A2 | | | dynamic keying |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 37 | | | | The mobile node and the home agent MUST create security associations based on the home address, so that the security associations survive change in care-of address. When using IKEv2 as the key exchange protocol, the home address should be carried as the i | MUST | A | A2 | | | dynamic keying |
| 38 | | | | If the mobile node has used IKEv2 to establish security associations with its home agent, it should follow the procedures discussed in Section 11.7.1 and 11.7.3 of the base specification [2] to determine whether the IKE endpoints can be moved or if the SA | (do) | B | B | | | IKEv2 |
| 39 | | | | If the home agent has used IKEv2 to establish security associations with the mobile node, it should follow the procedures discussed in Section 10.3.1 and 10.3.2 of the base specification [2] to determine whether the IKE endpoints can be moved or if the SA | (do) | B | B | | | IKEv2 |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 40 | 5 | Selector Granularity Considerations | | The IPsec implementations on the mobile node and the home agent support fine grain selectors, including the Mobility Header message type. This is the case assumed in the IPsec SPD and SAD examples in this document. | (do) | A | A2 | | | fine-grain selectors (generalization) |
| 41 | | | | The IPsec implementations only support selectors at a protocol level. In such implementations, the IPsec implementation can only identify mobility header traffic and cannot identify the individual mobility header messages. In this case, the protection o | (do) | A | A1 | | | Basic (generalization) |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 42 | | | | The third case is where the protocol selector is not available in the IPsec implementation. In this case all traffic sent by the mobile node reverse tunneled through the home agent is protected using ESP in tunnel mode. This case is also applicable when | (do) | B | B | | | out of scope in IPv6 Ready Logo program for NEMO |
| 43 | | | | If there is just one IPsec SA providing protection for all traffic, then the SA MUST fulfill the requirements for protecting protection. If the third case is being used for privacy considerations, then there can also be separate tunnel mode SPD entries f | MUST | A | A2 | | | out of scope in IPv6 Ready Logo program for NEMO |

Functional classification and test priority for HA

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 44 | | | | The receipt of a Binding Update from the new care-of address updates the tunnel endpoint of the IPsec SA as described in Section 4.3. Since the Binding Update that updates the tunnel endpoint is received through the same tunnel interface that needs to be | (do) | B | B | | | out of scope in IPv6 Ready Logo program for NEMO |

## 5.2 Functional classification and test priority for MR

### 5.2.1 Functional classification and test priority for MR in RFC3963

This section describes the operation in Mobile IPv6 and the functional classifications for MR on the basis of the classifications given in section 2.3.

Notes

- “RFC section” gives the corresponding section number in the NEMO RFC referred to in section 2.2.
- “RFC section title” gives the section heading in the NEMO RFC referred to in section 2.2.
- In the column “Test Priority,” “A1” indicates Rank A and Priority 1, “A2” indicates Rank-A and Priority 2, and “B” indicates Rank-B and Priority 2.
- In the column “Test PROFILE”, “x” indicates that the function is supported.
- “Reason for Classification” gives the reason for the function’s classification. A reason is given when Test Priority is “A2,” “B,” or “C.”
- Some functions are common for both HA and MR, which are repeated in section 5.1.1.

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5 | Mobile Router Operation | Mobile Router operation is derived largely from the combined behaviors of a host, of a router [5], and of a Mobile Node [1]. | (do) | - | - | | | NEMO-MR-0-0-0-1-001<br>NEMO-MR-0-0-0-2-001<br>NEMO-MR-1-2-1-1-001<br>NEMO-MR-1-2-1-1-002<br>NEMO-MR-1-2-1-1-004<br>NEMO-MR-1-2-1-1-012<br>NEMO-MR-1-2-1-1-014<br>NEMO-MR-1-2-1-1-022<br>NEMO-MR-1-2-1-1-024<br>NEMO-MR-1-2-1-1-025<br>NEMO-MR-1-2-1-4-007<br>NEMO-MR-1-2-1-4-008<br>NEMO-MR-1-2-1-4-009<br>NEMO-MR-1-2-1-4-010<br>NEMO-MR-1-2-1-4-011<br>NEMO-MR-1-2-1-4-012<br>NEMO-MR-1-2-3-1-022<br>NEMO-MR-1-2-3-1-023<br>NEMO-MR-1-2-3-1-024<br>NEMO-MR-1-2-3-1-018<br>NEMO-MR-1-2-3-1-019<br>NEMO-MR-1-2-3-1-020<br>NEMO-MR-1-2-3-1-021<br>NEMO-MR-1-3-2-4-007<br>NEMO-MR-1-3-2-4-010<br>NEMO-MR-1-4-1-4-001<br>NEMO-MR-1-4-1-4-002<br>NEMO-MR-1-4-1-4-003<br>NEMO-MR-1-4-1-4-004<br>NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-1-1-002<br>NEMO-MR-2-1-1-1-004<br>NEMO-MR-2-1-1-1-006<br>NEMO-MR-2-1-1-1-007<br>NEMO-MR-2-1-1-1-008<br>NEMO-MR-2-1-1-1-013<br>NEMO-MR-2-1-1-4-002<br>NEMO-MR-2-1-2-1-004<br>NEMO-MR-2-1-2-1-005<br>NEMO-MR-2-1-3-1-009<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-2-2-1-1-014<br>NEMO-MR-2-2-1-1-017<br>NEMO-MR-2-2-1-1-020<br>NEMO-MR-2-2-1-1-026<br>NEMO-MR-2-2-1-1-035<br>NEMO-MR-2-2-1-1-038<br>NEMO-MR-2-2-1-1-039<br>NEMO-MR-2-2-1-1-061 | | |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-MR-2-2-1-1-062<br>NEMO-MR-2-2-1-4-006<br>NEMO-MR-2-2-1-4-013<br>NEMO-MR-2-2-1-4-014<br>NEMO-MR-2-2-1-4-015<br>NEMO-MR-2-2-1-4-016<br>NEMO-MR-2-2-1-4-017<br>NEMO-MR-2-2-1-4-018<br>NEMO-MR-2-2-2-1-008<br>NEMO-MR-3-3-1-1-004<br>NEMO-MR-4-1-1-1-001<br>NEMO-MR-4-1-1-1-004<br>NEMO-MR-4-1-1-2-001<br>NEMO-MR-4-1-2-2-006<br>NEMO-MR-4-2-1-1-004<br>NEMO-MR-4-2-1-1-012<br>NEMO-MR-4-2-1-1-013<br>NEMO-MR-4-2-1-1-014<br>NEMO-MR-4-2-1-1-015<br>NEMO-MR-4-2-1-1-019<br>NEMO-MR-5-1-2-1-026<br>NEMO-MR-5-1-2-1-027<br>NEMO-MR-5-1-2-1-028<br>NEMO-MR-5-1-2-1-029<br>NEMO-MR-6-2-1-1-001<br>NEMO-MR-6-2-1-1-002<br>NEMO-MR-6-2-1-1-003<br>NEMO-MR-6-2-1-1-004<br>NEMO-MR-6-2-2-1-001 | | |
| 2 | 5 | | A Mobile Node can act in two different ways: (1) as a Mobile Host, in which case the Home Agent doesn't maintain any prefix information related to the Mobile Host's Home Address, but does maintain a binding cache entry related to the Mobile Host's Home Address, | (do) | - | - | | x | | Mobile Node | Mobile node |
| 3 | | | (2) as a Mobile Router, in which case, in addition to maintaining the binding cache entry corresponding to the Mobile Router Home Address, the Home Agent maintains forwarding information related to prefixes assigned to the Mobile Network. The distinction between the the two modes is represented | (do) | A | A1 | | | | | Mobile router |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | | A Mobile Router MUST implement all requirements for IPv6 Mobile Nodes as described in section 8.5 of [1]. | MUST | A | A1/A2 | | x | | Mobile Node | Refer to 8.5 in section 5.1.2 of NEMO(Network Mobility) Test Profile. Mobile node |
| 5 | 5.1. | Data Structures | Like a Mobile Host, a Mobile Router also maintains a Binding Update List, described in section 11.1 of Mobile IPv6 specification[1]. The Binding Update list is a conceptual data structure which records information sent in the Binding Updates. There is one entry per each destination to which the Mobile Router is currently sending Binding Updates. | MUST | A | A1 | | x | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-2-1-001 | - | Refer to 11.1 in section 5.1.2 of NEMO(Network Mobility) Test Profile. Binding Update list |
| 6 | | | This document introduces a new Prefix Information field in the Binding Update list structure. This field is used to store any prefix information that the Mobile Router includes in the Binding Update. If the Mobile Router sets the Mobile Router Flag (R) in the Binding Update, but does not include any prefix information in it this field is set to null. The Mobile Router does not include prefix information in the Binding Update in the implicit mode or when it, runs a dynamic routing protocol with its Home Agent. | (do) | A | A1 | | x | NEMO-MR-2-1-1-1-001 | Implicit mode | Binding Update list |
| 7 | | | As does a Mobile Host, a Mobile Router stores the information regarding status of flags of the Binding Update, in the corresponding Binding Update List entry. This document introduces a new Mobile Router Flag (R) for this entry. The status of this flag is stored in the Binding Update list whenever a Binding Update is sent. | (do) | A | A1 | | x | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-2-1-001 | - | Binding Update list |
| 8 | | | A Mobile Router also maintains a Home Agent list populated according to the same procedure as a Mobile Host. | (do) | A | A1 | | x | NEMO-MR-2-1-1-1-001 | DHAAD | DHAAD |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 5.2. | Sending Binding Updates | A Mobile Router sends Binding Updates to its Home Agent, as described in [1]. If the Mobile Router is not running a routing protocol as described in section 8, it uses one of the following modes to tell the Home Agent to determine which prefixes belong to the Mobile Router. | (do) | A | A1 | | | NEMO-MR-2-1-1-1-001 | | Binding Update |
| 10 | | | In both modes, the Mobile Router sets the Mobile Router flag (R). | (do) | A | A1 | | x | NEMO-MR-2-1-1-1-001 | Implicit mode/Explicit mode | Binding Update |
| 11 | | | Implicit:<br><br>In this mode, the Mobile Router does not include a Mobile Network Prefix Option in the Binding Update. The Home Agent can use any mechanism (not defined in this document) to determine the Mobile Network Prefix(es) owned by the Mobile Router and to set up forwarding for the Mobile Network. One example would be manual configuration at the Home Agent mapping the Mobile Router's Home Address to the information required for setting up forwarding for the Mobile Network. | (do) | A | A2[*1] | | x | NEMO-MR-2-1-1-1-001 | Implicit mode | Specific to implicit mode. |
| 12 | | | Explicit:<br><br>In this mode, the Mobile Router includes one or more Mobile Network Prefix Options in the Binding Update. These options contain information about the Mobile Network Prefix(es) configured on the Mobile Network. | (do) | A | A2[*1] | | x | NEMO-MR-2-1-1-1-001 | Explicit mode | Specific to explicit mode. |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | | | A Mobile Router MUST implement at least one mode and MAY implement both. | MUST/MAY | A/B | A1/B | | x | NEMO-MR-2-1-1-1-001 | Implicit mode/Explicit mode | implementation of the modes |
| 14 | | | In the latter case, local configuration on the Mobile Router decides which mode to use. This is out of scope for this document. | (do) | - | - | | | | | implementation of both modes |
| 15 | | | If the Mobile Router flag is set, the Home Registration Flag (H) MUST be set. | MUST | A | A1 | | x | NEMO-MR-2-1-1-1-001 | Implicit mode/Explicit mode | Binding Update |
| 16 | | | If the Mobile Router has a valid binding cache entry at the Home Agent, subsequent Binding Updates for the same Home Address should have the same value as the value in the binding cache for the Mobile Router Flag (R). | (do) | A | A1 | | x | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-2-1-001 | Implicit mode/Explicit mode | Binding Update |
| 17 | | | In explicit mode, the Mobile Router MUST include prefix information in all Binding Updates, including those sent to refresh existing binding cache entries, if it wants forwarding enabled for the corresponding Mobile Network Prefixes. | MUST | A | A2[*1] | | x | NEMO-MR-2-1-1-1-001 | Explicit mode | Specific to explicit mode. |
| 18 | 5.3. | Receiving Binding Acknowledgements | The Mobile Router receives Binding Acknowledgements from the Home Agent corresponding to the Binding Updates it sent. If the Binding Acknowledgement status is set to 0 (Binding Update accepted) and the Mobile Router Flag (R) is set to 1, the Mobile Router assumes that the Home Agent has successfully processed the Binding Update and has set up forwarding for the Mobile Network. | (do) | A | A1 | | x | NEMO-MR-2-1-1-4-005<br>NEMO-MR-2-1-1-4-013<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-2-2-1-1-060<br>NEMO-MR-2-2-1-4-006 | Implicit mode/Explicit mode | Binding acknowledgement |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | | | The Mobile Router can then start using the bi-directional tunnel to reverse tunneling traffic from the Mobile Network. | (do) | A | A1 | | x | | Implicit mode/Explicit mode | Binding acknowledgement |
| 20 | | | If the Mobile Router Flag (R) is not set, then the Mobile Router concludes that its current Home Agent does not support Mobile Routers and it performs Dynamic Home Agent Address Discovery again to discover Home Agents that do. | (do) | B | B | | x | | Implicit mode/Explicit mode、DHAAD | Binding acknowledgement |
| 21 | | | The Mobile Router MUST also de-register with the Home Agent that did not support it before attempting registration with another. | MUST | A | A1 | | x | | Implicit mode/Explicit mode、DHAAD | DHAAD |
| 22 | 5.4. | Error Processing | If the Binding Acknowledgement status is set to a value between 128 and 139, the Mobile Router takes necessary actions as described in the Mobile IPv6 specification [1]. | (do) | A | A1 | | x | NEMO-MR-2-2-1-1-003<br>NEMO-MR-2-2-1-1-004<br>NEMO-MR-2-2-1-1-005<br>NEMO-MR-2-2-1-1-006<br>NEMO-MR-2-2-1-1-007<br>NEMO-MR-2-2-1-1-009<br>NEMO-MR-2-2-1-1-010 | | Binding acknowledgement refer to 11.7.3 in section 5.1.2 of NEMO(Network Mobility) Test Profile |
| 23 | | | For the Binding Acknowledgement status values defined in this document, the following sections explain the Mobile Router's behavior. | (do) | - | - | | | | | Binding acknowledgement |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 5.4.1 | Implicit Mode | In Implicit mode, the Mobile Router interprets only error statuses 140 (Mobile Router Operation not permitted) and 143 (Forwarding Setup failed). The Mobile Router MUST treat Binding Acknowledgements with statuses '141' and '142' as fatal errors, since they should not be sent by the Home Agent in implicit mode. | MUST | A | A2[*1] | | x | NEMO-MR-2-2-1-1-016<br>NEMO-MR-2-2-1-1-045<br>NEMO-MR-2-2-1-1-050 | Implicit mode,DHAAD | Specific to implicit mode. |
| 25 | | | If the Binding Acknowledgement from the Home Agent has the status 140, the Mobile Router SHOULD send a Binding Update to another Home Agent on the same home link. | SHOULD | A | A2[*1] | | x | NEMO-MR-2-2-1-1-043 | Implicit mode,DHAAD | Specific to implicit mode. |
| 26 | | | If no Home Agent replies positively, the Mobile Router MUST refrain from sending Binding Updates with the Mobile Router Flag set to any Home Agent on the home link, and it must log the information. | MUST | A | A2[*1] | | x | | Implicit mode,DHAAD | Specific to implicit mode. |
| 27 | | | If the Binding Acknowledgemnet has the status 143, the Mobile Router SHOULD send a Binding Update to another Home Agent on the same home link. If no Home Agent replies positively, the Mobile Router SHOULD refrain from sending this Binding Update to any Home Agent on the home link, and MAY send Binding Updates in Explicit mode to a Home Agent on the same home link. | SHOULD/<br>SHOULD/<br>MAY | A/<br>A/<br>B | A2[*1]/<br>A2[*1]/<br>B | | x | NEMO-MR-2-2-1-1-055<br>NEMO-MR-2-2-1-1-056 | Implicit mode,DHAAD | Specific to implicit mode. |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | 5.4.2 | Explicit Mode | If the Mobile Router sent a Binding Update to the Home Agent in explicit mode, then the Mobile Router interprets only error statuses 140 (Mobile Router Operation not permitted), 141 (Invalid Prefix), and 142 (Not Authorized for Prefix). The Mobile Router MUST treat Binding Acknowledgements with status '143' as a fatal error, since it should not sent by the Home Agent in explicit mode. | MUST | A | A2[*1] | | x | NEMO-MR-2-2-1-1-058 | Explicit mode, DHAAD | Specific to explicit mode. |
| 29 | | | If the Binding Acknowledgement from the Home Agent has the status 140, the Mobile Router SHOULD send a Binding Update to another Home Agent on the same home link. | SHOULD | A | A2[*1] | | x | NEMO-MR-2-2-1-1-043<br>NEMO-MR-2-2-1-1-047 | Explicit mode, DHAAD | DHAAD specific to explicit mode |
| 30 | | | If no Home Agent replies positively, then the Mobile Router MUST refrain from sending Binding Updates with the Mobile Router Flag set to any Home Agent on the home link, and it must log the information. | MUST | A | A2[*1] | | x | NEMO-MR-2-2-1-1-047 | Explicit mode, DHAAD | DHAAD specific to explicit mode |
| 31 | | | If the Binding Acknowledgement has the status 141 or 142, the Mobile Router SHOULD send a Binding Update to another Home Agent on the same home link. | SHOULD | A | A2[*1] | | x | NEMO-MR-2-2-1-1-048<br>NEMO-MR-2-2-1-1-052<br>NEMO-MR-2-2-1-1-053 | Explicit mode, DHAAD | DHAAD specific to explicit mode |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | | | If no Home Agent replies positively, then the Mobile Router SHOULD refrain from sending Binding Updates to any Home Agent on the home link. | SHOULD | A | A2[*1] | | x | | Explicit mode, DHAAD | Specific to explicit mode. |
| 33 | | | The Mobile Router MUST also stop advertising the prefix in the Mobile Network and try to obtain new IPv6 prefix information for the Mobile Network. It would do this by the same means that it initially got assigned the current Mobile Network Prefix. | MUST | A | A2[*1] | | x | | Explicit mode, DHAAD | Specific to explicit mode. |
| 34 | | | Alternatively, the Mobile Router MAY send Binding Updates in Implicit mode to a Home Agent on the same home link. | MAY | B | B | | x | | Implicit mode/Explicit mode,DHAAD,all | Specific to explicit mode. |
| 35 | | | If by the end of this Error Processing procedure, as described in sections 5.4.1 and 5.4.2, the Mobile Router has tried every available mode and still has not received a positive Binding Acknowledgement, the Mobile Router MUST stop sending Binding Updates with the Mobile Router Flag set for this Home Address and it must log the information. | MUST | A | A2[*1] | | x | NEMO-MR-2-2-1-1-047<br>NEMO-MR-2-2-1-1-052<br>NEMO-MR-2-2-1-1-055 | Implicit mode/Explicit mode | Specific to explicit mode. |
| 36 | | | In all cases above, the Mobile Router MUST conclude that the Home Agent did not create a binding cache entry for the Mobile Router's Home Address. | MUST | A | A2[*1] | | x | NEMO-MR-2-2-1-1-043<br>NEMO-MR-2-2-1-1-044<br>NEMO-MR-2-2-1-1-045<br>NEMO-MR-2-2-1-1-047<br>NEMO-MR-2-2-1-1-050<br>NEMO-MR-2-2-1-1-052<br>NEMO-MR-2-2-1-1-055<br>NEMO-MR-2-2-1-1-058 | Implicit mode/Explicit mode | Specific to explicit mode. |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | 5.5. | Establishment of Bi-directional Tunnel | When a successful Binding Acknowledgement is received, the Mobile Router sets up its endpoint of the bi-directional tunnel.<br><br>The bi-directional tunnel between the Mobile Router and Home Agent allows packets to flow in both directions, while the Mobile Router is connected to a visited link. The bi-directional tunnel is created by merging two unidirectional tunnels, as described in RFC 2473 [3]. The tunnel from the Mobile Router to the Home Agent has the Care-of address of the Mobile Router as the tunnel entry point and the Home Agent's address as the tunnel exit point. The tunnel from the Home Agent to the Mobile Router has the Home Agent's address and the Mobile Router's Care-of address as the tunnel entry point and exit point, respectively. All IPv6 traffic to and from the Mobile Network is sent through this bi-directional tunnel. | (do) | A | A1 | | x | NEMO-MR-2-1-1-4-002<br>NEMO-MR-2-1-1-4-005<br>NEMO-MR-2-1-1-4-012<br>NEMO-MR-2-2-1-4-006 | Implicit mode/Explicit mode | Tunneling |
| 38 | | | A Mobile Router uses the Tunnel Hop Limit normally assigned to routers (not to hosts). Please refer to [3] for more details. | (do) | B | B | | x | | Tunnel Encapsulation Limit | Hop limit |
| 40 | 5.6. | Neighbor Discovery for Mobile Router | When the Mobile Router is at home, it MAY be configured to send Router Advertisements and to reply to Router Solicitations on the interface attached to the home link. | MAY | B | B | | x | NEMO-MR-1-1-1-4-002<br>NEMO-MR-1-1-1-4-010<br>NEMO-MR-1-1-1-4-011<br>NEMO-MR-1-2-1-4-001<br>NEMO-MR-1-2-1-4-002<br>NEMO-MR-1-2-1-4-003<br>NEMO-MR-1-2-1-4-004 | HomeEgressRouterDiscovery, Real HomeLink | This function does not need if MR belongs to virtual home network. |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | | | The value of the Router Lifetime field SHOULD be set to 0 to prevent other nodes from configuring the Mobile Router as the default router. | SHOULD | A | A2 | | x | NEMO-MR-1-1-1-4-002<br>NEMO-MR-1-1-1-4-010<br>NEMO-MR-1-1-1-4-011<br>NEMO-MR-1-2-1-4-001<br>NEMO-MR-1-2-1-4-002<br>NEMO-MR-1-2-1-4-003<br>NEMO-MR-1-2-1-4-004 | HomeEgressRouterDiscovery, Real HomeLink | This function does not need if MR belongs to virtual home network. |
| 42 | | | A Mobile Router SHOULD NOT send unsolicited Router Advertisements and SHOULD NOT reply to Router Solicitations on any egress interface when that interface is attached to a visited link. | SHOULD NOT/ SHOULD NOT | A/ A | A1/ A1 | | x | NEMO-MR-1-1-1-4-003<br>NEMO-MR-1-1-1-4-007<br>NEMO-MR-1-1-1-4-009<br>NEMO-MR-1-2-1-4-006<br>NEMO-MR-1-4-1-4-006<br>NEMO-MR-1-4-1-4-007<br>NEMO-MR-1-4-1-4-009<br>NEMO-MR-1-4-1-4-010 | | Home network |
| 43 | | | However, the Mobile Router SHOULD reply with Neighbor Advertisements to Neighbor Solicitations received on the egress interface, for addresses valid on the visited link. | SHOULD | A | A1 | | x | NEMO-MR-1-2-1-4-006 | | Neighbor solicitation |
| 44 | | | A router typically ignores Router Advertisements sent by other routers on a link. However, a Mobile Router MUST NOT ignore Router Advertisements received on the egress interface. | MUST NOT | A | A1 | | x | NEMO-MR-3-2-1-1-001<br>NEMO-MR-3-3-1-1-003<br>NEMO-MR-3-3-1-1-005<br>NEMO-MR-3-3-1-1-002 | | Router advertisement |
| 45 | | | The received Router Advertisements MAY be used for address configuration, default router selection or movement detection. | MAY | B | B | | x | | | Router advertisement |

| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 | 5.7. | Multicast Groups for Mobile Router | When at home, the Mobile Router joins the multicast group All Routers Address with scopes 1 interface-local (on the home-advertising interface), and 2 link-local, on any of its egress interfaces. | (do) | A | A2 | | x | NEMO-MR-1-1-1-4-002 | HomeEgressRouterDiscovery, Real HomeLink | Return to Home network Multicast |
| 47 | | | When in a visited network, the Mobile Router MUST NOT join the above multicast groups on the corresponding interface. | MUST NOT | A | A1 | | | NEMO-MR-1-1-1-4-002 | | Multicast |
| 48 | 5.8. | Returning Home | When the Mobile Router detects that it has returned to its home link, it MUST de-register with its Home Agent. | MUST | A | A2 | | x | NEMO-MR-2-1-3-1-007<br>NEMO-MR-2-1-3-1-001<br>NEMO-MR-2-2-2-1-027<br>NEMO-MR-2-2-2-1-001<br>NEMO-MR-4-1-1-2-004<br>NEMO-MR-4-1-2-2-007 | Real HomeLink | Return to Home network |
| 49 | | | The Mobile Router MUST<br>implement and follow the returning-home procedures defined for a mobile node in [1]. | MUST | A | A2 | | x | NEMO-MR-2-1-3-1-001<br>NEMO-MR-3-4-1-1-001<br>NEMO-MR-3-4-1-1-002<br>NEMO-MR-4-1-1-2-004<br>NEMO-MR-4-1-2-2-007 | Real HomeLink | return to Home network refer to 11.5.4 in section 5.1.2 of NEMO(Network Mobility) Test Profile |
| 50 | | | In addition, the Mobile Router MAY start<br>behaving as a router on its egress interface, especially as follows: | MAY | B | B | | x | NEMO-MR-2-1-3-1-001 | Real HomeLink | Return to Home network |
| 51 | | | - The Mobile Router MAY send Router Advertisements on its egress interfaces, but the router lifetime SHOULD be set to 0 so that hosts on the home link do not pick the Mobile Router as the default router. | MAY/ SHOULD | B/ A | B/ A2 | | x | NEMO-MR-1-2-1-4-013<br>NEMO-MR-1-2-1-4-014<br>NEMO-MR-1-2-1-4-015<br>NEMO-MR-1-2-1-4-016 | Real HomeLink | Return to Home network |
| 52 | | | - The Mobile Router MAY join the All Routers Address multicast group on the home link. | MAY | B | B | | x | NEMO-MR-1-2-1-4-013 | Real HomeLink | Return to Home network |

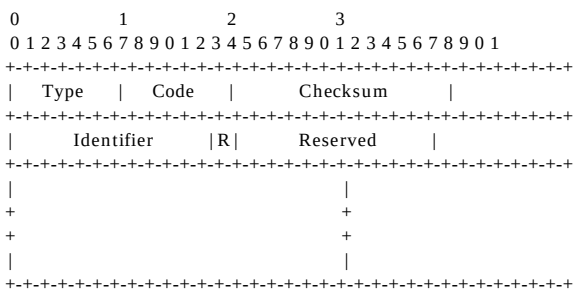
| No. | RFC Section | RFC Section title Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Functional Category | Supported | review Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | | | - The Mobile Router MAY send routing protocol messages on its egress interface if it is configured to run a dynamic routing protocol. | MAY | B | B | | | | Real HomeLink、Dynamic Routing | Return to Home network |
| 54 | | | When the Mobile Router sends a de-registration Binding Update in Explicit mode, it SHOULD NOT include any Mobile Network Prefix options in the Binding Update. When the Home Agent removes a binding cache entry, it deletes all associated Mobile Network Prefix routes. | SHOULD | A | A2 | | x | NEMO-MR-2-1-3-1-001 | Real HomeLink | Return to Home network Specific to explicit mode. |

[1] D. Johnson, C. Perkins and J. Arkko. Mobility Support in IPv6.
RFC3775, IETF. June 2004.
[3] A. Conta and S. Deering. Generic Packet Tunneling in IPv6
Specification. RFC 2473, IETF. December 1998.

*1 MR need to pass at least one of (1)"explicit mode and HoA (from HNP)" tests, (2)"explicit mode and HoA (from MNP)" tests, (3)"implicit mode and HoA (from HNP)" tests, or (4)"implicit mode and HoA (fr

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7 | Modifications to Dynamic Home Agent Address Discovery | This document extends the Dynamic Home Agent Address Discovery (DHAAD) defined in [1] so that Mobile Routers attempt registration with Home Agents that support them. | MR | (do) | A | A2 | x | NEMO-MR-5-1-2-1-002<br>NEMO-MR-5-1-2-1-016<br>NEMO-MR-5-1-2-1-021 | DHAAD | DHAAD<br>refer to 10.5 and 11.4 in section 5.1.2 of NEMO(Network Mobility) Test Profile |
| | | | | HA | | | | | NEMO-HA_7_1_2,NEMO-HA_7_1_4,<br>NEMO-HA_7_1_6, | Virtual Home Link,<br>DHAAD | |
| | | | | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3,<br>NEMO-HA_7_1_5,<br>NEMO-HA_7_2_1,NEMO-HA_7_2_2,<br>NEMO-HA_7_2_3,NEMO-HA_7_2_4,<br>NEMO-HA_7_2_5,NEMO-HA_7_2_6,<br>NEMO-HA_7_2_7,NEMO-HA_7_2_8,<br>NEMO-HA_7_2_9,NEMO-HA_7_2_10,<br>NEMO-HA_7_2_11,NEMO-HA_7_2_12,<br>NEMO-HA_7_2_13,NEMO-HA_7_2_14,<br>NEMO-HA_7_2_15,<br><br>NEMO-HA_7_3_1,NEMO-HA_7_3_2,<br>NEMO-HA_7_4_1,NEMO-HA_7_4_2,<br>NEMO-HA_7_5_1,<br>NEMO-HA_7_6_1,NEMO-HA_7_6_2,<br>NEMO-HA_7_6_3,NEMO-HA_7_6_4,<br>NEMO-HA_7_6_5,NEMO-HA_7_6_6,<br>NEMO-HA_7_6_7,NEMO-HA_7_6_8,<br>NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link,<br>DHAAD | |
| 2 | 7.1. | Modified Dynamic Home Agent Address Discovery Request | A new flag (R) (Support for Mobile Routers) is introduced in the DHAAD request message, defined in [1]. The Mobile Router sets this flag to indicate that it wants to discover Home Agents that supporting<br>Mobile Routers. | MR | (do) | A | A2 | x | NEMO-MR-5-1-1-1-001<br>NEMO-MR-5-1-1-1-005<br>NEMO-MR-5-1-1-1-006 | DHAAD | DHAAD |
| 3 | | | 0 1 2 3<br>0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Type \| Code \| Checksum \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Identifier \|R\| Reserved \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br><br>Mobile Router Support Flag (R)<br><br>A one-bit flag that when set indicates that the Mobile Router wants to discover Home Agents supporting Mobile Routers.<br><br>For a description of the other fields in the message, see [1]. | MR | (do) | A | A2 | | | | DHAAD |
| 4 | 7.2. | Modified Dynamic Home | A new flag (R) (Support for Mobile Routers) is introduced in the DHAAD reply message, defined in [1]. If a Home Agent receives a | HA | MUST | A | A2 | x | NEMO-HA_7_1_2,NEMO-HA_7_1_4, | Virtual Home Link,<br>DHAAD | DHAAD |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Agent Address Discovery Reply | Dynamic Home Agent Discovery request message with the Mobile Router<br>Support Flag set, it **MUST** reply with a list of Home Agents supporting<br>Mobile Routers. | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15,<br>NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link, DHAAD | |
| 5 | | | The Mobile Router Support Flag MUST be set if there is at least one Home Agent that supporting Mobile Routers. | HA | MUST | A | A2 | x | NEMO-HA_7_1_2,NEMO-HA_7_1_4,<br>NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15,<br>NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Virtual Home Link, DHAAD<br>Real Home link, DHAAD | DHAAD |
| 6 | | | If none of the Home Agents support Mobile Routers, the Home Agent **MAY** reply with a list of Home Agents that only support Mobile IPv6 Mobile Nodes. | HA | MAY | B | B | x | NEMO-HA_7_1_6,<br>NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, | Virtual Home Link, DHAAD<br>Real Home link, DHAAD | DHAAD |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | | |
| 7 | | | In this case, the Mobile Router Support Flag **MUST** be set to 0. | HA | MUST | A | A2 | x | NEMO-HA_7_1_6,<br>NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15,<br>NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Virtual Home Link, DHAAD<br>Real Home link, DHAAD | DHAAD |
| 8 | | | The modified message format is as follows.<br>  <br>Mobile Router Support Flag (R)<br>A one-bit flag that when set indicates that the Home Agents listed in this message support Mobile Routers. | HA | (do) | A | A2 | x | NEMO-HA_7_1_2,NEMO-HA_7_1_4, NEMO-HA_7_1_6, | Virtual Home Link, DHAAD | DHAAD |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | For a description of the other fields in the message, see [1]. | | | | | | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link, DHAAD | |
| 9 | 7.3 | Modified Home Agent Information Option | A new flag (R) (Support for Mobile Routers) is introduced in the Home Agent Information Option defined in [1]. If a Home Agent supports Mobile Routers, it **SHOULD** set the flag. | HA | SHOULD | A | A2 | x | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | Real Home link, DHAAD | Router advertisement |
| 10 | | | 0 1 2 3<br>0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Type \| Length \|R\| Reserved \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+<br>\| Home Agent Preference \| Home Agent Lifetime \|<br>+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ | HA | (do) | A | A2 | x | NEMO-HA_7_1_1,NEMO-HA_7_1_3, NEMO-HA_7_1_5, NEMO-HA_7_2_1,NEMO-HA_7_2_2, NEMO-HA_7_2_3,NEMO-HA_7_2_4, NEMO-HA_7_2_5,NEMO-HA_7_2_6, NEMO-HA_7_2_7,NEMO-HA_7_2_8, NEMO-HA_7_2_9,NEMO-HA_7_2_10, NEMO-HA_7_2_11,NEMO-HA_7_2_12, NEMO-HA_7_2_13,NEMO-HA_7_2_14, NEMO-HA_7_2_15, | Real Home link, DHAAD | Home agent information option |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mobile Router Support Flag (R)<br><br>A one-bit flag that when set indicates that the Home Agent supports Mobile Routers.<br><br>For a description of the other fields in the message, see [1]. | | | | | | NEMO-HA_7_3_1,NEMO-HA_7_3_2, NEMO-HA_7_4_1,NEMO-HA_7_4_2, NEMO-HA_7_5_1, NEMO-HA_7_6_1,NEMO-HA_7_6_2, NEMO-HA_7_6_3,NEMO-HA_7_6_4, NEMO-HA_7_6_5,NEMO-HA_7_6_6, NEMO-HA_7_6_7,NEMO-HA_7_6_8, NEMO-HA_7_6_9,NEMO-HA_7_6_10 | | |
| 11 | 8 | Support for Dynamic Routing Protocols | In the solution described so far, forwarding to the mobile network at the Home Agent is set up when the Home Agent receives a Binding Update from the Mobile Router. An alternative to this is for the Home Agent and the Mobile Router to run an intra-domain routing protocol such as RIPng [12] and OSPF [13] through the bi-directional tunnel. The Mobile Router can continue running the same routing protocol that it ran when attached to the home link. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 12 | | | Support for running a intra-domain routing protocol is optional and is governed by the configuration on the Mobile Router and the Home Agent. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing |
| | | | | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing |
| 13 | | | This feature is very useful when the Mobile Network is large with multiple subnets containing different IPv6 prefixes. Routing changes in the Mobile Network are quickly propagated to the Home Agent. Routing changes in the home link are quickly propagated to the Mobile Router. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| | | | | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | | | When the Mobile Router is attached to the home link, it runs a routing protocol by sending routing updates through its egress interface. | MR | (do) | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 15 | | | When the Mobile Router moves and attaches to a visited network, it should stop sending routing updates on the interface by which it attaches to the visited link. This reduces the chances that prefixes specific to the Mobile Network will be leaked to the visited network if routing protocol authentication is not enabled in the visited network and in the Mobile Network. It is expected that normal deployment practices will include proper authentication mechanisms to prevent unauthorized route announcements on both the home and visited networks. | MR | shoulod | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 16 | | | The Mobile Router then starts sending routing protocol messages through the bi-directional tunnel towards the Home Agent. Most routing protocols use link-local addresses as source addresses for the routing information messages. The Mobile Router is allowed to use link-local addresses for the inner IPv6 header of an encapsulated packet. But these **MUST NOT** be forwarded to another link by either the Mobile Router or the Home Agent. | MR | MUST NOT | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 17 | | | When the Home Agent receives the inner packet, it processes the encapsulated routing protocol messages and updates its routing table accordingly. As part of normal routing protocol operation, the next hop information in these routing entries is filled with the Mobile Router's link local address with the outgoing interface set to the bi-directional tunnel. | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 18 | | | Similary, the Home Agent also sends routing updates through the bi-directional tunnel to the Mobile Router. The Mobile Router processes these routing protocol messages and updates its routing table. For all routes advertised by the Home Agent, the Mobile Router sets the outgoing interface to the bi-directional tunnel to the Home Agent. | MR | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 19 | | | When the Mobile Router and the Home Agent exchange routes through a dynamic routing protocol, the Mobile Router **SHOULD NOT** include Mobile Network Prefixes in the Binding Update to the Home Agent. The Home Agent Depending on its configuration, the Home Agent might not add routes based on the prefix information in the Binding Updates at all, and might use only the routing protocol updates. Moreover, including prefix information in both the Binding Updates and the routing protocol updates is redundant. | MR | SHOULD NOT | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 20 | | | As the routing protocol messages from the Home Agent to the Mobile Router could potentially contain information about the internal routing structure of the home network, these messages require authentication and confidentiality protection. Appropriate authentication and confidentiality protection mechanisms, defined in [14], **MUST** be used. For protecting routing protocol messages by using IPsec ESP [4], the bi-directional tunnel between the Mobile Router and the Home Agent should be treated as the outgoing interface, with the Home Agent's and Mobile Router's addresses as source and destination addresses for the inner encapsulated messages. | HA | MUST | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 21 | | | If a link state routing protocol such as OSPFv3 is run by the Mobile Router and the Home Agent, the recommendations in Appendix B should be followed. | HA | (do) | B | B | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 22 | 9 | Security Considerations | All signaling messages between the Mobile Router and the Home Agent **MUST** be authenticated by IPsec [8]. The use of IPsec to protect Mobile IPv6 signaling messages is described in detail in the HA-MN IPsec specification [2]. The signaling messages described in this | MR | MUST | A | A1 | x | NEMO-MR-1-1-2-1-001<br>NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-4-1-1-1-002<br>NEMO-MR-4-2-1-1-001 | | IPsec |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | IPsec specification [2]. The signaling messages described in this document extend Mobile IPv6 messages and do not require any changes to what is described in [2]. | HA | | | A1 | x | NEMO-HA_2_1_5,NEMO-HA_2_1_7, NEMO-HA_2_1_8, NEMO-HA_2_2_4,NEMO-HA_2_2_5, NEMO-HA_2_2_6,NEMO-HA_2_2_8, NEMO-HA_2_2_11,NEMO-HA_2_2_12, NEMO-HA_2_2_14, NEMO-HA_2_5_3,NEMO-HA_2_5_4, NEMO-HA_2_5_7,NEMO-HA_2_5_8, NEMO-HA_2_6_7,NEMO-HA_2_6_8, NEMO-HA_2_6_9,NEMO-HA_2_6_10, NEMO-HA_2_6_11,NEMO-HA_2_6_12, NEMO-HA_2_7_3,NEMO-HA_2_7_4, NEMO-HA_2_7_7,NEMO-HA_2_7_8, NEMO-HA_2_8_7,NEMO-HA_2_8_8, NEMO-HA_2_8_9,NEMO-HA_2_8_10, NEMO-HA_2_8_11,NEMO-HA_2_8_12, NEMO-HA_2_9_11,NEMO-HA_2_9_12, NEMO-HA_2_9_13,NEMO-HA_2_9_14, NEMO-HA_2_9_15, NEMO-HA_2_10_7,NEMO-HA_2_10_8, NEMO-HA_2_10_9,NEMO-HA_2_10_10, NEMO-HA_2_10_11,NEMO-HA_2_10_12, NEMO-HA_2_11_11,NEMO-HA_2_11_12, NEMO-HA_2_11_13,NEMO-HA_2_11_14, NEMO-HA_2_11_15, NEMO-HA_2_12_4,NEMO-HA_2_12_6, NEMO-HA_3_1_11,NEMO-HA_3_1_12, NEMO-HA_3_2_11,NEMO-HA_3_2_12, NEMO-HA_3_4_16,NEMO-HA_3_4_17, NEMO-HA_3_4_18,NEMO-HA_3_4_19, NEMO-HA_3_4_20, NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_7,NEMO-HA_5_2_8, NEMO-HA_5_3_9,NEMO-HA_5_3_10, NEMO-HA_5_3_12, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_7,NEMO-HA_6_4_8, NEMO-HA_6_5_5,NEMO-HA_6_5_6, NEMO-HA_6_5_7,NEMO-HA_6_5_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, NEMO-HA_6_7_2,NEMO-HA_6_7_4, NEMO-HA_6_7_7,NEMO-HA_6_7_8, | Virtual Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | x | | Virtual Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_4,<br>NEMO-HA_8_1_8,NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Nested mobility(Same HA) | |
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br><br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_3,NEMO-HA_2_2_7,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br><br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_2,<br>NEMO-HA_2_11_3,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br>NEMO-HA_2_12_1,NEMO-HA_2_12_3,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_2_1,NEMO-HA_3_2_2,<br>NEMO-HA_3_2_3,NEMO-HA_3_2_4,<br>NEMO-HA_3_2_5,NEMO-HA_3_2_6,<br>NEMO-HA_3_2_7,NEMO-HA_3_2_8,<br>NEMO-HA_3_2_9,NEMO-HA_3_2_10,<br><br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15,<br><br>NEMO-HA_4_1_1,NEMO-HA_4_1_2,<br>NEMO-HA_4_1_3,<br>NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16, | | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_1,NEMO-HA_5_4_2,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br><br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_3,<br>NEMO-HA_8_1_7,NEMO-HA_8_1_15, | Real Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Nested mobility(Same HA) | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | | | The Mobile Router has to perform ingress filtering on packets received from the mobile network to ensure that nodes in the Mobile Network do not use the bi-directional tunnel to launch IP spoofing attacks. In particular, the Mobile Router **SHOULD** check that the IP source address in the packets received Prefix and are not the same as one of the addresses used by the Mobile Router. If the Mobile Router receives a IP-in-IP tunneled packet from a node in the Mobile Network, and it has to forward the decapsulated packet, it **SHOULD** perform the above mentioned checks on the source address of the inner packet. | MR | SHOULD | A | A1 | x | NEMO-MR-2-2-1-4-006<br>NEMO-MR-2-2-1-4-013<br>NEMO-MR-2-2-1-4-014<br>NEMO-MR-2-2-1-4-015<br>NEMO-MR-2-2-1-4-016<br>NEMO-MR-2-2-1-4-017<br>NEMO-MR-2-2-1-4-018 | | Ingress filtering |
| 24 | | | | MR | SHOULD | A | A1 | x | NEMO-MR-2-2-1-4-006<br>NEMO-MR-2-2-1-4-013<br>NEMO-MR-2-2-1-4-014<br>NEMO-MR-2-2-1-4-015<br>NEMO-MR-2-2-1-4-016<br>NEMO-MR-2-2-1-4-017<br>NEMO-MR-2-2-1-4-018 | | Ingress filtering |
| 25 | | | The Home Agent has to verify that packets received through the bi-directional tunnel belong to the mobile network. This check is necessary to prevent nodes from using the Home Agent to launch attacks that would have otherwise been prevented by ingress filtering. The source address of the outer IPv6 header **MUST** be set to the Mobile Router's current Care-of address. The source address of the inner IPv6 header **MUST** be topologically correct with respect to the IPv6 prefixes used in the Mobile Network. | HA | MUST | A | A1 | x | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link | reversed tunneling, ingress filtering check |
| | | | | | | | A2 | x | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Network mobility(same HA) | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br><br>NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 26 | | | | HA | MUST | A | A1 | x | NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_8,<br>NEMO-HA_6_6_3,NEMO-HA_6_6_4,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | Virtual Home link | reversed tunneling,<br>ingress filtering check |
| | | | | | | | A2 | x | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) | |
| | | | | | | | | | NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_4,<br>NEMO-HA_6_6_1,NEMO-HA_6_6_2,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2,<br>NEMO-HA_9_1_3,NEMO-HA_9_1_4,<br>NEMO-HA_9_1_5,NEMO-HA_9_1_6,<br>NEMO-HA_9_1_7,NEMO-HA_9_1_8,<br>NEMO-HA_9_1_9,NEMO-HA_9_1_10,<br>NEMO-HA_9_1_11,NEMO-HA_9_1_12,<br>NEMO-HA_9_1_13,NEMO-HA_9_1_14,<br>NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2,<br>NEMO-HA_9_2_3,NEMO-HA_9_2_4,<br>NEMO-HA_9_2_5,NEMO-HA_9_2_6,<br>NEMO-HA_9_2_7,NEMO-HA_9_2_8,<br>NEMO-HA_9_2_9,NEMO-HA_9_2_10,<br>NEMO-HA_9_2_11,NEMO-HA_9_2_12,<br>NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link,<br>Network mobility(same HA) | |
| 27 | | | If the Mobile Router sends a Binding Update with a one or more Mobile<br>Network Prefix options, the Home Agent **MUST** be able to verify that the Mobile Router is authorized for the prefixes before setting up forwarding for the prefixes. | HA | MUST | A | A1 | | NEMO-HA_2_1_5,NEMO-HA_2_1_7,<br>NEMO-HA_2_1_8,<br>NEMO-HA_2_2_4,NEMO-HA_2_2_5,<br>NEMO-HA_2_2_11,NEMO-HA_2_2_12,<br>NEMO-HA_2_2_14,<br>NEMO-HA_2_5_3,NEMO-HA_2_5_4,<br>NEMO-HA_2_5_7,NEMO-HA_2_5_8,<br>NEMO-HA_2_6_7,NEMO-HA_2_6_8,<br>NEMO-HA_2_6_9,NEMO-HA_2_6_10,<br>NEMO-HA_2_6_11,NEMO-HA_2_6_12,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_10_7,NEMO-HA_2_10_8,<br>NEMO-HA_2_10_9,NEMO-HA_2_10_10,<br>NEMO-HA_2_10_11,NEMO-HA_2_10_12,<br>NEMO-HA_2_11_11,NEMO-HA_2_11_15,<br>NEMO-HA_2_11_17,<br>NEMO-HA_2_11_18,NEMO-HA_2_11_19,<br>NEMO-HA_2_7_3,NEMO-HA_2_7_4,<br>NEMO-HA_2_7_7,NEMO-HA_2_7_8,<br>NEMO-HA_2_8_7,NEMO-HA_2_8_8,<br>NEMO-HA_2_8_9,NEMO-HA_2_8_10,<br>NEMO-HA_2_8_11,NEMO-HA_2_8_12,<br>NEMO-HA_2_9_11,NEMO-HA_2_9_12,<br>NEMO-HA_2_9_13,NEMO-HA_2_9_14,<br>NEMO-HA_2_9_15,<br>NEMO-HA_2_10_8,NEMO-HA_2_10_9,<br>NEMO-HA_2_10_10,NEMO-HA_2_10_11,<br>NEMO-HA_2_10_12,<br>NEMO-HA_2_11_14,<br>NEMO-HA_3_1_11,NEMO-HA_3_1_12,<br>NEMO-HA_3_4_16,NEMO-HA_3_4_17,<br>NEMO-HA_3_4_18,NEMO-HA_3_4_19,<br>NEMO-HA_3_4_20, | Virtual Home link | Binding update(Mobile network prefix registration) |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_5_1_5,NEMO-HA_5_1_6,<br>NEMO-HA_5_1_7,<br>NEMO-HA_5_2_5,NEMO-HA_5_2_6,<br>NEMO-HA_5_2_7,NEMO-HA_5_2_8,<br>NEMO-HA_5_3_9,NEMO-HA_5_3_10,<br>NEMO-HA_5_3_12,<br>NEMO-HA_5_4_12,NEMO-HA_5_4_13,<br>NEMO-HA_5_4_14,NEMO-HA_5_4_15,<br>NEMO-HA_5_4_16,NEMO-HA_5_4_17,<br>NEMO-HA_5_4_18,<br>NEMO-HA_5_5_4,NEMO-HA_5_5_6,<br><br>NEMO-HA_6_1_3,NEMO-HA_6_1_4,<br>NEMO-HA_6_4_5,NEMO-HA_6_4_6,<br>NEMO-HA_6_4_7,NEMO-HA_6_4_8,<br>NEMO-HA_6_5_5,NEMO-HA_6_5_6,<br>NEMO-HA_6_5_7,NEMO-HA_6_5_8,<br>NEMO-HA_6_6_12,NEMO-HA_6_6_13,<br>NEMO-HA_6_6_14,NEMO-HA_6_6_15,<br>NEMO-HA_6_6_16,NEMO-HA_6_6_17,<br>NEMO-HA_6_6_18,<br>NEMO-HA_6_7_2,NEMO-HA_6_7_4,<br>NEMO-HA_6_7_7,NEMO-HA_6_7_8,<br>NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16,<br><br>NEMO-HA_9_1_17,NEMO-HA_9_1_18,<br>NEMO-HA_9_1_19,NEMO-HA_9_1_20,<br>NEMO-HA_9_1_21,NEMO-HA_9_1_22,<br>NEMO-HA_9_1_23,NEMO-HA_9_1_24,<br>NEMO-HA_9_1_25,NEMO-HA_9_1_26,<br>NEMO-HA_9_1_27,NEMO-HA_9_1_28,<br>NEMO-HA_9_1_29,NEMO-HA_9_1_30,<br>NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | A2 | | | Virtual Home link,<br>IKE | |
| | | | | | | | | | NEMO-HA_8_1_2,NEMO-HA_8_1_8,<br>NEMO-HA_8_1_16, | Virtual Home link,<br>MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16,<br>NEMO-HA_9_2_17,NEMO-HA_9_2_18,<br>NEMO-HA_9_2_19,NEMO-HA_9_2_20,<br>NEMO-HA_9_2_21,NEMO-HA_9_2_22,<br>NEMO-HA_9_2_23,NEMO-HA_9_2_24,<br>NEMO-HA_9_2_25,NEMO-HA_9_2_26,<br>NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link,<br>Network mobility(same HA) | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_1_1_5,NEMO-HA_1_1_6,<br>NEMO-HA_1_1_7,<br>NEMO-HA_2_1_1,NEMO-HA_2_1_2,<br>NEMO-HA_2_1_3,NEMO-HA_2_1_4,<br>NEMO-HA_2_1_6,NEMO-HA_2_1_9,<br>NEMO-HA_2_1_14,NEMO-HA_2_1_15,<br>NEMO-HA_2_2_1,NEMO-HA_2_2_2,<br>NEMO-HA_2_2_9,NEMO-HA_2_2_10,<br>NEMO-HA_2_2_13,<br>NEMO-HA_2_3_1,NEMO-HA_2_3_2,<br>NEMO-HA_2_3_3,NEMO-HA_2_3_4,<br>NEMO-HA_2_4_1,NEMO-HA_2_4_2,<br>NEMO-HA_2_4_3,NEMO-HA_2_4_4,<br>NEMO-HA_2_4_5,NEMO-HA_2_4_6,<br>NEMO-HA_2_5_1,NEMO-HA_2_5_2,<br>NEMO-HA_2_5_5,NEMO-HA_2_5_6,<br>NEMO-HA_2_6_1,NEMO-HA_2_6_2,<br>NEMO-HA_2_6_3,NEMO-HA_2_6_4,<br>NEMO-HA_2_6_5,NEMO-HA_2_6_6,<br><br>NEMO-HA_2_7_1,NEMO-HA_2_7_2,<br>NEMO-HA_2_7_5,NEMO-HA_2_7_6,<br>NEMO-HA_2_8_1,NEMO-HA_2_8_2,<br>NEMO-HA_2_8_3,NEMO-HA_2_8_4,<br>NEMO-HA_2_8_5,NEMO-HA_2_8_6,<br>NEMO-HA_2_9_1,NEMO-HA_2_9_2,<br>NEMO-HA_2_9_3,NEMO-HA_2_9_4,<br>NEMO-HA_2_9_5,<br>NEMO-HA_2_10_1,NEMO-HA_2_10_2,<br>NEMO-HA_2_10_3,NEMO-HA_2_10_4,<br>NEMO-HA_2_10_5,NEMO-HA_2_10_6,<br>NEMO-HA_2_11_1,NEMO-HA_2_11_4,<br>NEMO-HA_2_11_5,<br>NEMO-HA_2_11_7,NEMO-HA_2_11_8,<br>NEMO-HA_2_11_9,<br><br>NEMO-HA_3_1_1,NEMO-HA_3_1_2,<br>NEMO-HA_3_1_3,NEMO-HA_3_1_4,<br>NEMO-HA_3_1_5,NEMO-HA_3_1_6,<br>NEMO-HA_3_1_7,NEMO-HA_3_1_8,<br>NEMO-HA_3_1_9,NEMO-HA_3_1_10,<br>NEMO-HA_3_3_1,NEMO-HA_3_3_2,<br>NEMO-HA_3_3_3,NEMO-HA_3_3_4,<br>NEMO-HA_3_3_5,NEMO-HA_3_3_6,<br>NEMO-HA_3_3_7,NEMO-HA_3_3_8,<br>NEMO-HA_3_4_1,NEMO-HA_3_4_2,<br>NEMO-HA_3_4_3,NEMO-HA_3_4_4,<br>NEMO-HA_3_4_5,NEMO-HA_3_4_6,<br>NEMO-HA_3_4_7,NEMO-HA_3_4_8,<br>NEMO-HA_3_4_9,NEMO-HA_3_4_10,<br>NEMO-HA_3_4_11,NEMO-HA_3_4_12,<br>NEMO-HA_3_4_13,NEMO-HA_3_4_14,<br>NEMO-HA_3_4_15, | Real Home link | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_4_2_1,NEMO-HA_4_2_2,<br>NEMO-HA_4_2_3,NEMO-HA_4_2_4,<br>NEMO-HA_4_2_5,NEMO-HA_4_2_6,<br>NEMO-HA_4_2_7,NEMO-HA_4_2_8,<br>NEMO-HA_4_2_9,NEMO-HA_4_2_10,<br>NEMO-HA_4_2_11,NEMO-HA_4_2_12,<br>NEMO-HA_4_2_13,NEMO-HA_4_2_14,<br>NEMO-HA_4_2_15,NEMO-HA_4_2_16,<br><br>NEMO-HA_4_3_1,NEMO-HA_4_3_2,<br>NEMO-HA_4_3_3,NEMO-HA_4_3_4,<br>NEMO-HA_4_3_5,NEMO-HA_4_3_6,<br>NEMO-HA_4_3_7,NEMO-HA_4_3_8,<br>NEMO-HA_4_3_9,NEMO-HA_4_3_10,<br>NEMO-HA_4_3_11,NEMO-HA_4_3_12,<br>NEMO-HA_4_3_13,NEMO-HA_4_3_14,<br>NEMO-HA_4_3_15,NEMO-HA_4_3_16,<br>NEMO-HA_4_4_1,NEMO-HA_4_4_2,<br>NEMO-HA_4_4_3,NEMO-HA_4_4_4,<br>NEMO-HA_4_4_5,NEMO-HA_4_4_6,<br>NEMO-HA_4_4_7,NEMO-HA_4_4_8,<br>NEMO-HA_4_4_9,NEMO-HA_4_4_13,<br>NEMO-HA_4_4_14,NEMO-HA_4_4_15,<br><br>NEMO-HA_5_1_1,NEMO-HA_5_1_2,<br>NEMO-HA_5_1_3,NEMO-HA_5_1_4,<br>NEMO-HA_5_2_1,NEMO-HA_5_2_2,<br>NEMO-HA_5_2_3,NEMO-HA_5_2_4,<br>NEMO-HA_5_3_1,NEMO-HA_5_3_4,<br>NEMO-HA_5_3_5,NEMO-HA_5_3_6,<br>NEMO-HA_5_3_8,<br>NEMO-HA_5_4_5,NEMO-HA_5_4_6,<br>NEMO-HA_5_4_7,NEMO-HA_5_4_8,<br>NEMO-HA_5_4_9,NEMO-HA_5_4_10,<br>NEMO-HA_5_4_11,<br>NEMO-HA_5_5_1,NEMO-HA_5_5_3,<br><br>NEMO-HA_6_1_1,NEMO-HA_6_1_2,<br>NEMO-HA_6_2_1,NEMO-HA_6_2_2,<br>NEMO-HA_6_2_3,NEMO-HA_6_2_4,<br>NEMO-HA_6_4_1,NEMO-HA_6_4_2,<br>NEMO-HA_6_4_3,NEMO-HA_6_4_4,<br>NEMO-HA_6_5_1,NEMO-HA_6_5_2,<br>NEMO-HA_6_5_3,NEMO-HA_6_5_4,<br>NEMO-HA_6_6_5,NEMO-HA_6_6_6,<br>NEMO-HA_6_6_7,NEMO-HA_6_6_8,<br>NEMO-HA_6_6_9,NEMO-HA_6_6_10,<br>NEMO-HA_6_6_11,<br>NEMO-HA_6_7_1,NEMO-HA_6_7_3,<br>NEMO-HA_6_7_5,NEMO-HA_6_7_6, | | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | | |
| | | | | | | | | | | Real Home link, IKE | |
| | | | | | | | | | NEMO-HA_8_1_1,NEMO-HA_8_1_7, NEMO-HA_8_1_15, | Real Home link, MPS/MPA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Network mobility(same HA) | |
| 28 | | | When the Mobile Router is runs a dynamic routing protocol as described in section 8, it injects routing update messages into the Home Link. As the routing protocol message could contain information about the internal routing structure of the home network, these messages require confidentiality protection. The Mobile Router **SHOULD** use confidentiality protection through IPsec ESP as described in [14]. If the bi-directional tunnel between the Mobile Router and the Home Agent is protected by ESP, in tunnel mode for all IP traffic, then no additional confidentiality protection specific to the routing protocol is required. | MR | SHOULD | A | A2 | | | DRP | This function is implementaion-dependent. It does not effect on interoperability. *Dynamic routing protocol |
| 29 | | | Home Agents and Mobile Routers may use IPsec ESP to protect payload packets tunneled between themselves. This is useful to protect communications against attackers on the path of the tunnel. | MR | may | B | B | x | | Virtual Home link | This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA |
| | | | | HA | | | | x | NEMO-HA_5_1_5,NEMO-HA_5_1_6, NEMO-HA_5_1_7, NEMO-HA_5_2_5,NEMO-HA_5_2_6, NEMO-HA_5_2_8, NEMO-HA_5_4_3,NEMO-HA_5_4_4, NEMO-HA_5_4_12,NEMO-HA_5_4_13, NEMO-HA_5_4_14,NEMO-HA_5_4_15, NEMO-HA_5_4_16,NEMO-HA_5_4_17, NEMO-HA_5_4_18, NEMO-HA_5_5_4,NEMO-HA_5_5_6, NEMO-HA_6_1_3,NEMO-HA_6_1_4, NEMO-HA_6_4_5,NEMO-HA_6_4_6, NEMO-HA_6_4_8, NEMO-HA_6_6_3,NEMO-HA_6_6_4, NEMO-HA_6_6_12,NEMO-HA_6_6_13, NEMO-HA_6_6_14,NEMO-HA_6_6_15, NEMO-HA_6_6_16,NEMO-HA_6_6_17, NEMO-HA_6_6_18, | Virtual Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32, | | |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28, | Virtual Home link, Nested mobility(Same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |
| | | | | | | | | | NEMO-HA_5_1_1,NEMO-HA_5_1_2, NEMO-HA_5_1_3,NEMO-HA_5_1_4, NEMO-HA_5_2_1,NEMO-HA_5_2_2, NEMO-HA_5_2_4, NEMO-HA_5_3_5,NEMO-HA_5_3_6, NEMO-HA_5_3_8,NEMO-HA_5_3_9, NEMO-HA_5_3_10,NEMO-HA_5_3_12, NEMO-HA_5_4_1,NEMO-HA_5_4_2, NEMO-HA_5_4_5,NEMO-HA_5_4_6, NEMO-HA_5_4_7,NEMO-HA_5_4_8, NEMO-HA_5_4_9,NEMO-HA_5_4_10, NEMO-HA_5_4_11, NEMO-HA_5_5_1,NEMO-HA_5_5_3, NEMO-HA_6_1_1,NEMO-HA_6_1_2, NEMO-HA_6_4_1,NEMO-HA_6_4_2, NEMO-HA_6_4_4, NEMO-HA_6_6_1,NEMO-HA_6_6_2, NEMO-HA_6_6_5,NEMO-HA_6_6_6, NEMO-HA_6_6_7,NEMO-HA_6_6_8, NEMO-HA_6_6_9,NEMO-HA_6_6_10, NEMO-HA_6_6_11, NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) and This function is implementaion-dependent. *IPsec Protection of the payload packets tunneled between MR and HA | |

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | | | Please refer to the Mobile IPv6 specification [1] for security considerations when the Mobile Router operates as a Mobile Host. | MR | (do) | A | A1 | | | | Mobile node |
| 31 | 1 | Introduction (Nestd Mobility) | The terminology document [10] describes Nested Mobility as a scenario where a Mobile Router allows another Mobile Router to attach to its Mobile Network. There could be arbitrary levels of nested mobility. The operation of each Mobile Router remains the same whether the Mobile Router attaches to another Mobile Router or to a fixed Access Router on the Internet. The solution described here does not place any restriction on the number of levels for nested mobility. But note that this might introduce significant overhead on the data packets as each level of nesting introduces another IPv6 header encapsulation. | HA | (do) | A | A1*2 | x | NEMO-HA_9_1_17,NEMO-HA_9_1_18, NEMO-HA_9_1_19,NEMO-HA_9_1_20, NEMO-HA_9_1_21,NEMO-HA_9_1_22, NEMO-HA_9_1_23,NEMO-HA_9_1_24, NEMO-HA_9_1_25,NEMO-HA_9_1_26, NEMO-HA_9_1_27,NEMO-HA_9_1_28, NEMO-HA_9_1_29,NEMO-HA_9_1_30, NEMO-HA_9_1_31,NEMO-HA_9_1_32 | Virtual Home Link | Nested mobility |
| | | | | | | | | | NEMO-HA_9_2_15,NEMO-HA_9_2_16, NEMO-HA_9_2_17,NEMO-HA_9_2_18, NEMO-HA_9_2_19,NEMO-HA_9_2_20, NEMO-HA_9_2_21,NEMO-HA_9_2_22, NEMO-HA_9_2_23,NEMO-HA_9_2_24, NEMO-HA_9_2_25,NEMO-HA_9_2_26, NEMO-HA_9_2_27,NEMO-HA_9_2_28 | Virtual Home link, Nested mobility(Same HA) | |
| | | | | | | | | | NEMO-HA_9_1_1,NEMO-HA_9_1_2, NEMO-HA_9_1_3,NEMO-HA_9_1_4, NEMO-HA_9_1_5,NEMO-HA_9_1_6, NEMO-HA_9_1_7,NEMO-HA_9_1_8, NEMO-HA_9_1_9,NEMO-HA_9_1_10, NEMO-HA_9_1_11,NEMO-HA_9_1_12, NEMO-HA_9_1_13,NEMO-HA_9_1_14, NEMO-HA_9_1_15,NEMO-HA_9_1_16, | Real Home link | |
| | | | | | | | | | NEMO-HA_9_2_1,NEMO-HA_9_2_2, NEMO-HA_9_2_3,NEMO-HA_9_2_4, NEMO-HA_9_2_5,NEMO-HA_9_2_6, NEMO-HA_9_2_7,NEMO-HA_9_2_8, NEMO-HA_9_2_9,NEMO-HA_9_2_10, NEMO-HA_9_2_11,NEMO-HA_9_2_12, NEMO-HA_9_2_13,NEMO-HA_9_2_14, | Real Home link, Nested mobility(Same HA) | |
| | | | | MR | (do) | A | A1*2 | x | | | |


[1] D. Johnson, C. Perkins and J. Arkko. Mobility Support in IPv6. RFC3775, IETF. June 2004.

[2] J. Arkko, V. Devarapalli and F. Dupont. Using IPsec to Protect Mobile IPv6 Signaling between Mobile Nodes and Home Agents. ,RFC3776, IETF. June 2004.

[8] S. Kent and R. Atkinson. Security Architecture for the Internet

[10] Ernst, T., and H.-Y. Lach, "Network Mobility Support Terminology", Work in Progress, October 2004.

| No. | RFC Section | RFC Section title Item | Functional Specification | target nodes | RFC Status | Functional Rank | TEST Priority | Supported | Test No. | Configuration | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | [12] G. Malkin and R. Minnear. RIPng for IPv6. RFC 2080, IETF.<br>[13] R. Coltun, D. Ferguson and J. Moy. OSPF for IPv6. RFC 2470.<br>[14] M. Gupta and N. Melam. Authentication/Confidentiality for OSPFv3. Internet Draft, IETF. draft-ietf-ospf-ospfv3-auth-04.txt (work in progress). December 2003. | | | | | | | | |
| | | | *2 Please refer toTable 2-5 (NEMO functions of Priority A1 and Priority A2 for every node) | | | | | | | | |

### 5.2.2 MR – RFC3775/3776/4877

This section describes the operation in Mobile IPv6 and the functional classifications for MN on the basis of the classifications given in section 2.3.

Notes

- "RFC section" gives the corresponding section number in the Mobile IPv6 RFC referred to in section 2.2.
- "RFC section title" gives the section heading in the Mobile IPv6 RFC referred to in section 2.2.
- In the column "Test Priority," "A1" indicates Rank A and Priority 1, "A2" indicates Rank-A and Priority 2, and "B" indicates Rank-B and Priority 2.
- In the column "Test PROFILE", "x" indicates that the function is supported.
- "Reason for Classification" gives the reason for the function's classification. A reason is given when Test Priority is "A2," "B," or "C."

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|
| 1 | 8.5 | IPv6 Mobile Nodes | | Finally, the following requirements apply to all IPv6 nodes capable | (do) | - | - | |
| 2 | | | | The node MUST maintain a Binding Update List (Section | MUST | A | A1 | Binding update list |
| 3 | | | | The node MUST support sending packets containing a Home Address option (Section 11.3.1), and follow the required IPsec interaction | MUST | A | A1 | Home address option IPsec |
| 4 | | | | The node MUST be able to perform IPv6 encapsulation and decapsulation [15] | MUST | A | A1 | Tunneling |
| 5 | | | | The node MUST be able to process type 2 routing header as defined in Section 6.4 and Section 11.3.3 | MUST | A | A1 | Type 2 routing header |
| 6 | | | | The node MUST support receiving a Binding Error message (Section 11.3.6). | MUST | A | A1 | Binding error |
| 7 | | | | The node MUST support receiving ICMP errors (Section 11.3.5). | MUST | A | A1 | ICMP |
| 8 | | | | The node MUST support movement detection, care-of address formation, and returning home (Section 11.5). | MUST | A | A1 | Movement detection Returning home |
| 9 | | | | The node MUST be able to process Mobility Headers as described in Section 11.2 | MUST | A | A1 | Mobility header |
| 10 | | | | The node MUST support the return routability procedure (Section 11.6). | MUST | - | - | Return routability |
| 11 | | | | The node MUST be able to send Binding Updates, as specified in Section 11.7.1 and Section 11.7.2 | MUST | A | A1 | Binding update |
| 12 | | | | The node MUST be able to receive and process Binding Acknowledgements, as specified in Sectio | MUST | A | A1 | Binding acknowledgemen |
| 13 | | | | The node MUST support receiving a Binding Refresh Request (Section 6.1.2), by responding with a Binding Update. | MUST | A | A2 | Binding refresh request |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 14 | | | | The node MUST support receiving Mobile Prefix Advertisements (Section 11.4.3) and reconfiguring its home address based on the prefix information contained therein | MUST | A | A2 | Mobile prefix advertisement |
| 15 | | | | The node SHOULD support use of the dynamic home agent address discovery mechanism, as described in Section 11.4.1. | SHOULD | A | A2 | DHAAD |
| 16 | | | | The node MUST allow route optimization to be administratively enabled or disabled. The default SHOULD be enabled. | MUST SHOULD | - | - | Route optimization |
| 17 | | | | The node MAY support the multicast address listener part of a multicast group membership protocol as described in Section 11.3.4. If this support is provided, the mobile node MUST be able to receive tunneled multicast packets from the hom | MAY MUST | A | A2 | Multicast |
| 18 | | | | The node MAY support stateful address autoconfiguration mechanisms such as DHCPv6 [29] on the interface represented by the tunnel to the home agent. | MAY | B | B | Stateful address autoconfiguration |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 1 | 6.1 | Mobility Header | | Mobility Header messages **MUST NOT** be sent with a type 2 routing header, except as described in Section 9.5.4 for Binding Acknowledgement. Mobility Header messages also **MUST NOT** be used with a Home Address destination option, except as described in Section 11.7.1 and Section 11.7.2 for Binding Update. Binding Update List or Binding Cache information (when present) for the destination **MUST NOT** be used in sending Mobility Header messages. That is, Mobility Header messages bypass both the Binding Cache check described in Section 9.3.2 and the Binding Update List check described in Section 11.3.1 which are normally performed for all packets. This applies even to messages sent to or from a correspondent node which is itself a mobile node. | MUST NOT | A | A1 | | | Return Routability Mobile to Mobile |
| 2 | | | | | MUST NOT | A | A1 | | | Return Routability Mobile to Mobile |
| 3 | | | | | MUST NOT | A | A1 | | | Return Routability Mobile to Mobile |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HA | CN | Supported | Test No. | |
| 1 | 11.1 | Conceptual Data Structures | Information which Mobile Node holds | Each mobile node **MUST** maintain a Binding Update List. | MUST | A | -> | A1 | A2 | HA : X<br>CN : X | *HA : NEMO-MR-2-1-1-1-001* | CN:Correspondent Registration |
| 2 | | | Binding Update List | The IP address of the node to which a Binding Update was sent. | (do) | A | -> | A1 | A2 | HA : X<br>CN : X | *HA : NEMO-MR-2-1-1-1-001* | HA:Home Registration<br>CN:Correspondent Registration |
| 3 | | | | The home address for which that Binding Update was sent. | (do) | A | -> | A1 | A2 | HA : X<br>CN : X | *HA : NEMO-MR-2-1-1-1-001* | HA:Home Registration<br>CN:Correspondent Registration |
| 4 | | | | The care-of address sent in that Binding Update. This value is necessary for the mobile node to determine if it has sent a Binding Update while giving its new care-of address to this destination after changing its care-of address. | (do) | A | -> | A1 | A2 | HA : X<br>CN : X | *HA : NEMO-MR-2-1-1-1-001* | HA:Home Registration<br>CN:Correspondent Registration |
| 5 | | | | The initial value of the Lifetime field sent in that Binding Update. | (do) | A | -> | A1 | A2 | HA : X<br>CN : X | *HA : NEMO-MR-2-1-1-1-001* | HA:Home Registration<br>CN:Correspondent Registration |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HA | CN | Supported | Test No. | |
| 6 | | | | The remaining lifetime of that binding. This lifetime is initialized from the Lifetime value sent in the Binding Update and is decremented until it reaches zero, at which time this entry **MUST** be deleted from the Binding Update List. | MUST | A | -> | A1 | A2 | HA:X | *HA:NEMO-MR-2-1-2-1-004* | CN:Correspondent Registration |
| 7 | | | | The maximum value of the Sequence Number field sent in previous Binding Updates to this destination. The Sequence Number field is 16 bits long and all comparisons between Sequence Number values **MUST** be performed modulo 2**16 (see Section 9.5.1). | MUST | A | -> | A1 | A2 | HA : X<br>CN : X | *HA : NEMO-MR-2-1-2-1-001* | CN:Correspondent Registration |
| 8 | | | | The time at which a Binding Update was last sent to this destination, as needed to implement the rate limiting restriction for sending Binding Updates. | (do) | A | -> | A1 | A2 | HA : X<br>CN : X | *HA: NEMO-MR-2-1-1-1-013* | HA:Home Registration<br>CN:Correspondent Registration |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HA | CN | Supported | Test No. | |
| 9 | | | | The state of any retransmissions needed for this Binding Update. This state includes the time remaining until the next retransmission attempt for the Binding Update and the current state of the exponential back-off mechanism for retransmissions. | (do) | A | -> | A1 | A2 | HA : X<br>CN : X | HA:NEMO-MR-2-1-1-1-013 | HA:Home Registration<br>CN:Correspondent Registration |
| 10 | | | | A flag specifying whether or not future Binding Updates should be sent to this destination. The mobile node sets this flag in the Binding Update List entry when it receives an ICMP Parameter Problem, Code 1, error message in response to a return routability message or Binding Update sent to that destination, as described in Section 11.3.5. | (do) | A | -> | A1 | A2 | HA : X | HA: NEMO-MR-6-2-2-1-001 | HA:Home Registration<br>CN:Correspondent Registration |
| 11 | | | Binding Update List for CN | The time at which a Home Test Init or Care-of Test Init message was last sent to this destination, as needed to implement the rate limiting restriction for the return routability procedure. | (do) | A | A2 | | | | | Return Routability |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HA | CN | Supported | Test No. | |
| 12 | | | | The state of any retransmissions needed for this return routability procedure. This state includes the time remaining until the next retransmission attempt and the current state of the exponential back-off mechanism for retransmissions. | (do) | A | A2 | | | | | Return Routability |
| 13 | | | | Cookie values used in the Home Test Init and Care-of Test Init messages. | (do) | A | A2 | | | | | Return Routability |
| 14 | | | | Home and care-of keygen tokens received from the correspondent node. | (do) | A | A2 | | | | | Return Routability |
| 15 | | | | Home and care-of nonce indices received from the correspondent node. | (do) | A | A2 | | | | | Return Routability |
| 16 | | | | The time at which each of the tokens and nonces were received from the correspondent node, as needed to implement reuse while moving. | (do) | A | A2 | | | | | Return Routability |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HA | CN | Supported | Test No. | |
| 1 | 11.2 | Processing Mobility Headers | Processing Mobility Headers | All IPv6 mobile nodes **MUST** observe the rules described in Section 9.2 when processing Mobility Headers. | MUST | A | A1 | | | X | *NEMO-MR-6-2-1-1-004 NEMO-MR-2-2-1-1-001 NEMO-MR-6-2-1-1-003 NEMO-MR-6-2-1-1-001 NEMO-MR-6-2-1-1-002* | |
| 2 | 9.2 | Processing Mobility Headers | Mobility Header processing MUST observe the following rules: | The checksum must be verified as per Section 6.1. Otherwise, the node **MUST** silently discard the message. | MUST | A | A1 | | | X | *NEMO-MR-6-2-1-1-004* | |
| 3 | | | | The MH Type field **MUST** have a known value (Section 6.1.1). Otherwise, the node **MUST** discard the message and issue a Binding Error message as described in Section 9.3.3, with Status field set to 2 (unrecognized MH Type value). | MUST | A | A1 | | | X | *NEMO-MR-2-2-1-1-001* | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HA | CN | Supported | Test No. | |
| 4 | | | | | MUST | A | A1 | | | X | *NEMO-MR-6-2-1-1-003* | |
| 5 | | | | The Payload Proto field **MUST** be IPPROTO_NONE (59 decimal). Otherwise, the node **MUST** discard the message and **SHOULD** send ICMP Parameter Problem, Code 0, directly to the Source Address of the packet as specified in RFC 2463 [14]. Thus no Binding Cache information is used in sending the ICMP message. The Pointer field in the ICMP message **SHOULD** point at the Payload Proto field. | MUST | A | A1 | | | X | *NEMO-MR-2-2-1-1-001* | |
| 6 | | | | | MUST | A | A1 | | | X | *NEMO-MR-6-2-1-1-001* | |
| 7 | | | | | SHOULD | A | A1 | | | X | *NEMO-MR-6-2-1-1-001* | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HA | CN | Supported | Test No. | |
| 8 | | | | | SHOULD | A | A1 | | | X | *NEMO-MR-6-2-1-1-001* | |
| 9 | | | | o The Header Len field in the Mobility Header **MUST NOT** be less than the length specified for this particular type of message in Section 6.1. | MUST NOT | A | A1 | | | X | *NEMO-MR-2-2-1-1-001* | |
| 10 | | | | Otherwise, the node **MUST** discard the message and **SHOULD** send ICMP Parameter Problem, Code 0, directly to the Source Address of the packet as specified in RFC 2463 [14]. (The Binding Cache information is again not used.) The Pointer field in the ICMP message **SHOULD** point at the Header Len field. | MUST | A | A1 | | | X | *NEMO-MR-6-2-1-1-002* | |
| 11 | | | | | SHOULD | A | A1 | | | X | *NEMO-MR-6-2-1-1-002* | |
| 12 | | | | | SHOULD | A | A1 | | | X | *NEMO-MR-6-2-1-1-002* | |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | HA | CN | Supported | Test No. | |
| 1 | 11.3.1 | Sending Packets While Away from Home | While a mobile node is away from home, it continues to use its home address, as well as also using one or more care-of addresses. When sending a packet while away from home, a mobile node MAY choose among these in selecting the address that it will use as the source of the packet, as follows: | Protocols layered over IP will generally treat the mobile node's home address as its IP address for most packets. For packets sent that are part of transport-level connections established while the mobile node was at home, the mobile node **MUST** use its home address. | MUST | A | A2 | | | | | Function that uses upper or lower layer information |
| 2 | | | | Likewise, for packets sent that are part of transport-level connections that the mobile node may still be using after moving to a new location, the mobile node **SHOULD** use its home address in this way. If a binding | SHOULD | A | A2 | | | | | Function that uses upper or lower layer information |
| 3 | | | | | SHOULD | A | A2 | | | | | Route Optimization |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 4 | | | | exists, the mobile node **SHOULD** send the packets directly to the correspondent node.<br>Otherwise, if a binding does not exist, the mobile node **MUST** use reverse tunneling. | MUST | A | A1 | | | X | *NEMO-MR-4-1-1-2-001* | |
| 5 | | | | The mobile node MAY choose to directly use one of its care-of addresses as the source of the packet, thus not requiring the use of a Home Address option in the packet. This is particularly useful for short-term communication that may easily be retried if it fails. Using the mobile node's care-of address as the source for such queries will generally have a lower overhead than using the mobile node's home address, since no extra options need be used in either the query or its reply, Such packets can be routed normally, directly between their source and destination without relying on Mobile IPv6. If application running on the mobile node has no particular knowledge that the communication being sent fits within this general type of communication, however, the mobile node should not use its care-of address as the source of the packet in this way. | MAY | A | A2 | | | | | Function that uses upper or lower layer information |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 6 | | | | o While not at its home link, the mobile node **MUST NOT** use the home address destination option when communicating with link-local or site-local peers, if the scope of the home address is larger than the scope of the peer's address. | MUST NOT | A | A1/ A2 | | | X | *NEMO-MR-4-1-2-2-006* | Link-local : A1<br>Site-local : A2 |
| 7 | | | | Similarly, the mobile node **MUST NOT** use the Home Address destination option for IPv6 Neighbor Discovery [12] packets. | MUST NOT | A | A1 | | | X | | |
| 8 | | | Message transmission in home link | For packets sent by a mobile node while it is at home, no special Mobile IPv6 processing is required. Likewise, if the mobile node uses any address other than one of its home addresses as the source of a packet sent while away from home, no special Mobile IPv6 processing is required. In either case, the packet is simply addressed and transmitted in the same way as any normal IPv6 packet. | (do) | A | A2 | | | X | NEMO-MR-4-1-1-2-004<br>NEMO-MR-4-1-2-2-007 | A2:Returning Home |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 9 | | | Route Optimization | This manner of delivering packets does not require going through the home network, and typically will enable faster and more reliable transmission.<br><br>The mobile node needs to ensure that a Binding Cache entry exists for its home address so that the correspondent node can process the packet (Section 9.3.1 specifies the rules for Home Address Destination Option Processing at a correspondent node). The mobile node **SHOULD** examine its Binding Update List for an entry which fulfills the following conditions: | SHOULD | A | A2 | | | | | Route Optimization |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 10 | | | | * The Source Address field of the packet being sent is equal to the home address in the entry.<br><br>* The Destination Address field of the packet being sent is equal to the address of the correspondent node in the entry.<br><br>* One of the current care-of addresses of the mobile node appears as the care-of address in the entry.<br><br>* The entry indicates that a binding has been successfully created.<br><br>* The remaining lifetime of the binding is greater than zero.<br><br>When these conditions are met, the mobile node knows that the correspondent node has a suitable Binding Cache entry. | - | A | A2 | | | | | Route Optimization |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 11 | | | | Construct the packet using the mobile node's home address as the packet's Source Address, in the same way as if the mobile node were at home. This includes the calculation of upper layer checksums using the home address as the value of the source. | (do) | A | A2 | | | | | Route Optimization |
| 12 | | | | Insert a Home Address option into the packet with the Home Address field copied from the original value of the SourceAddress field in the packet. | (do) | A | A2 | | | | | Route Optimization |
| 13 | | | | Change the Source Address field in the packet's IPv6 headerto one of the mobile node's care-of addresses. This will typically be the mobile node's current primary care-of address, but **MUST** be an address assigned to the interface on the link being used. | MUST | A | A2 | | | | | Route Optimization |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 14 | | | reverse tunneling | The packet is sent to the home agent using IPv6 encapsulation [15]. | (do) | A | A1 | | | X | *NEMO-MR-4-1-1-2-001* | IPv6 encapsulation and decapsulation |
| 15 | | | | The Source Address in the tunnel packet is the primary care-of address as registered with the home agent. | (do) | A | A1 | | | X | *NEMO-MR-4-1-1-2-001* | IPv6 encapsulation and decapsulation |
| 16 | | | | The Destination Address in the tunnel packet is the home agent's address. | (do) | A | A1 | | | X | *NEMO-MR-4-1-1-2-001* | IPv6 encapsulation and decapsulation |
| 17 | 11.3.2 | Interaction with Outbound IPsec Processing | | Any specific implementation **MAY** use algorithms and data structures other than those suggested here, but its processing **MUST** be consistent with the effect of the operation described here and with the relevant IPsec specifications. | MAY | C | - | | | | | concrete operation is not specified |
| 18 | | | | | MUST | A | A2 | | | | | In the case that No.17 function is implemented, this function is mandotory. |
| 19 | | | | o The packet is created by higher layer protocols and applications (e.g., by TCP) as if the mobile node were at home and Mobile IPv6 were not being used. | (do) | C | - | | | | | Function that uses upper or lower layer information |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 20 | | | | Determine the outgoing interface for the packet. (Note that the selection between reverse tunneling and route optimization may imply different interfaces, particularly if tunnels are considered interfaces as well.) | (do) | C | - | | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 21 | | | | o As part of outbound packet processing in IP, the packet is compared against the IPsec security policy database to determine what processing is required for the packet [4]. | (do) | B | B | | | X | *NEMO-MR-2-1-1-1-001* | BU/HoTI |
| 22 | | | | o If IPsec processing is required, the packet is either mapped to an existing Security Association (or SA bundle), or a new SA (or SA bundle) is created for the packet, according to the procedures defined for IPsec. | (do) | B | B | | | X | *NEMO-MR-2-1-1-1-001* *NEMO-MR-1-2-1-1-002* *NEMO-MR-1-2-1-1-004* | BU/HoTI |
| | | | | | | | | | | | *NEMO-MR-1-2-1-1-022* *NEMO-MR-1-2-1-1-024* *NEMO-MR-1-2-3-1-022* | |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 23 | | | | o Since the mobile node is away from home, the mobile is either using reverse tunneling or route optimization to reach the correspondent node. | (do) | A | A1/ A2 | | | X | *Reverse tunnleing: NEMO-MR-4-1-1-2-001* | Reverse tunnel : A1<br>Route Optimization :A2 |
| 24 | | | If route optimization is in use | If route optimization is in use, the mobile node inserts a Home Address destination option into the packet, replacing the Source Address in the packet's IP header with the care-of address used with this correspondent node, as described in Section 11.3.1. The Destination Options header in which the Home Address destination option is inserted **MUST** appear in the packet after the routing header, if present, and before the IPsec (AH [5] or ESP [6]) header, so that the Home Address destination option is processed by the destination node before the IPsec header is processed. | MUST | A | A2 | | | | | IPsec between MN and CN |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 25 | | | RFC 2402 treatment of destination options is extended as follows. The AH authentication data **MUST** be calculated as if the following were true: | * the IPv6 source address in the IPv6 header contains the mobile node's home address, | MUST | A | A2 | | | | | IPsec between MN and CN |
| 26 | | | | * the Home Address field of the Home Address destination option (Section 6.3) contains the new care-of address. | MUST | A | A2 | | | | | IPsec between MN and CN |
| 27 | | | | o This allows, but does not require, the receiver of the packet containing a Home Address destination option to exchange the two fields of the incoming packet to reach the above situation, simplifying processing for all subsequent packet headers. However, such an exchange is not required, as long as the result of the authentication calculation remains the same. | (do) | B | B | | | | | IPsec between MN and CN |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 28 | | | For the default case of using IKE [9] as the automated key management protocol, such problems can be avoided by the following requirements when communicating with its home agent: | o When the mobile node is away from home, it **MUST** use its care-of address as the Source Address of all packets it sends as part of the key management protocol (without use of Mobile IPv6 for these packets, as suggested in Section 11.3.1). | MUST | A | A2 | | | X | *NEMO-MR-1-2-1-1-001* | IKE |
| 29 | | | | o In addition, for all security associations bound to the mobile node's home address established by IKE, the mobile node **MUST** include an ISAKMP Identification Payload [8] in the IKE phase 2 exchange, giving the mobile node's home address as the initiator of the Security Association [7]. | MUST | A | A2 | | | X | *NEMO-MR-1-2-1-1-001* | IKE |
| 30 | | | | The Key Management Mobility Capability (K) bit in Binding Updates and Acknowledgements can be used to avoid the need to rerun IKE upon movements. | (do) | A | A2 | | | X | *NEMO-MR-1-2-1-1-014* | IKE |
| 31 | 11.3.3 | Receiving Packets While Away from Home | Effectiveness check of Tunnel packet transmitted from Home Agent(IPsec) | For packets received by the first method, the mobile node **MUST** check that the IPv6 source address of the tunneled packet is the IP address of its home agent. | MUST | A | A1 | | | X | *NEMO-MR-4-1-1-2-001* | |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 32 | | | | The mobile node **MUST** also process the received packet in the manner defined for IPv6 encapsulation [15], which will result in the encapsulated (inner) packet being processed normally by upper-layer protocols within the mobile node as if it had been addressed (only) to the mobile node's home address. | MUST | A | A1 | | | X | *NEMO-MR-4-1-1-2-001* | |
| 33 | | | Effectiveness check of Direct Delivery packet | A node receiving a packet addressed to itself (i.e., one of the node's addresses is in the IPv6 destination field) follows the next header chain of headers and processes them. When it encounters a type 2 routing header during this processing, it performs the following checks. If any of these checks fail, the node **MUST** silently discard the packet. | MUST | A | A2 | | | | | Route Optimization |
| 34 | | | | The length field in the routing header is exactly 2. | (do) | A | A2 | | | | | Route Optimization |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 35 | | | | The segments left field in the routing header is either 0 or 1. (Values on the wire are always 1. But implementations may process routing header so that the value may become 0 after the routing header has been processed, but before the rest of the packet is processed.) | (do) | A | A2 | | | | | Route Optimization |
| 36 | | | | The Home Address field in the routing header is one of the node's home addresses, if the segments left field was 1. Thus, in particular the address field is required to be a unicast routable address. | (do) | A | A2 | | | | | Route Optimization |
| 37 | 11.3.4 | Routing Multicast Packets | Joining to multicast group | One method, in which a mobile node **MAY** join the group, is via a (local) multicast router on the foreign link being visited. | MAY | B | B | | | | | Multicast |
| 38 | | | | The mobile node **MUST** use its care-of address | MUST | A2 | A2 | | | | | In the case that No.37 function is implemented, this function is mandotory. |
| 39 | | | | The mobile node **MUST NOT** use the Home Address destination option when sending MLD packets [17] | MUST NOT | A2 | A2 | | | | | In the case that No.37 function is implemented, this function is mandotory. |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 40 | | | | Alternatively, a mobile node **MAY** join multicast groups via a bi-directional tunnel to its home agent. The mobile node tunnels its multicast group membership control packets (such as those defined in [17] or in [37]) to its home agent, and the home agent forwards multicast packets down the tunnel to the mobile node. | MAY | B | B | | | | | Multicast |
| 41 | | | | A mobile node **MUST NOT** tunnel multicast group membership control packets until (1) the mobile node has a binding in place at the home agent, and (2) the latter sends at least one multicast group membership control packet via the tunnel. Once this condition is true, the mobile node **SHOULD** assume it does not change as long as the binding does not expire. | MUST NOT/SHOULD | A | A2 | | | | | In the case that No.40 functions is implemented, this function is mandotory. |
| 42 | | | Multicast packet transmission by Direct Delivery | The application is aware of the care-of address and uses it as a source address for multicast traffic, just like it would use a stationary address. The mobile node **MUST NOT** use Home Address destination option in such traffic. | MUST NOT | A | A2 | | | | | In the case that No.37 function is implemented, this function is mandotory. |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 43 | | | Multicast packet transmission by way of Home Agent(bidirectional tunneling) | Because multicast routing in general depends upon the Source Address used in the IPv6 header of the multicast packet, a mobile node that tunnels a multicast packet to its home agent **MUST** use its home address as the IPv6 source adddress of the inner multicast packet. | MUST | A | A2 | | | | | In the case that No.40 functions is implemented, this function is mandotory. |
| 44 | 11.3.5 | Receiving ICMP Error Messages | Receiving ICMP Parameter Problem, Code1 | Any node that does not recognize the Mobility header will return an ICMP Parameter Problem, Code 1, message to the sender of the packet.<br>If the mobile node receives such an ICMP error message in response to a return routability procedure or Binding Update, it **SHOULD** record in its Binding Update List that future Binding Updates **SHOULD NOT** be sent to this destination. Such Binding Update List entries **SHOULD** be removed after a period of time in order to allow for retrying route optimization. | SHOULD | A | -> | A1 | A2 | X | NEMO-MR-6-2-2-1-001 | This function is implementaion-dependent. It does not effect on interoperability. |
| 45 | | | | | SHOULD NOT | A | -> | A1 | A2 | X | NEMO-MR-6-2-2-1-001 | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 46 | | | | | SHOULD | A | -> | A1 | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 47 | | | | New Binding Update List entries **MUST NOT** be created as a result of receiving ICMP error messages. | MUST NOT | A | A2 | | | | | Route Optimization |
| 48 | | | Receiving ICMP Parameter Problem, Code2 | Correspondent nodes who have participated in the return routability procedure **MUST** implement the ability to correctly process received packets containing a Home Address destination option. Therefore, correctly implemented correspondent nodes should always be able to recognize Home Address options. | MUST | A | A2 | | | | | This function is tested as CN test. |
| 49 | | | | If a mobile node receives an ICMP Parameter Problem, Code 2, message from some node indicating that it does not support the Home Address option, the mobile node **SHOULD** log the error and then discard the ICMP message. | SHOULD | A | -> | A1 | A2 | | | CN : Route Optimization |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 50 | 11.3.6 | Receiving Binding Error Messages | | When a mobile node receives a packet containing a Binding Error message, it should first check if the mobile node has a Binding Update List entry for the source of the Binding Error message. If the mobile node does not have such an entry, it **MUST** ignore the message. This is necessary to prevent a waste of resources on, e.g., return routability procedure due to spoofed Binding Error messages. | MUST | A | -> | A1 | A2 | | | CN : Route Optimization |
| 51 | | | if the message Status field was 1 (unknown binding for Home Address destination option), the mobile node should perform one of the following two actions: | o If the mobile node has recent upper layer progress information, which indicates that communications with the correspondent node are progressing, it **MAY** ignore the message. This can be done in order to limit the damage that spoofed Binding Error messages can cause to ongoing communications. | MAY | C | - | | | | | Function that uses upper or lower layer information |
| 52 | | | | o If the mobile node has no upper layer progress information, it **MUST** remove the entry and route further communications through the home | MUST | A | -> | A1 | A2 | | | CN : Route Optimization |

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| | | | | | | | | HA | CN | Supported | Test No. | |
| 53 | | | | agent. It **MAY** also optionally start a return routability procedure (see Section 5.2). | MAY | B | B | | | | | Return Routability |
| 54 | | | If the message Status field was 2 (unrecognized MH Type value), the mobile node should perform one of the following two actions: | o If the mobile node is not expecting an acknowledgement or response from the correspondent node, the mobile node **SHOULD** ignore this message. | SHOULD | A | -> | A1 | A2 | | | CN : Route Optimization |
| 55 | | | | o Otherwise, the mobile node **SHOULD** cease the use of any extensions to this specification. If no extensions had been used, the mobile node should cease the attempt to use route optimization. | SHOULD | A | -> | A1 | A2 | | | CN : Route Optimization |

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| | | | | | | | | Supported | Test No. | |
| 1 | 11.4.1. | Dynamic Home Agent Address Discovery | For example, some nodes on its home link may have been reconfigured while the mobile node has been away from home, such that the router that was operating as the mobile node's home agent has been replaced by a different router serving this role. | In this case, the mobile node **MAY** attempt to discover the address of a suitable home agent on its home link. To do so, the mobile node sends an ICMP Home Agent Address Discovery Request message to the Mobile IPv6 Home-Agents anycast address [16] for its home subnet prefix. | MAY | B | B | X | *NEMO-MR-5-1-1-1-001 NEMO-MR-5-1-1-1-005* | DHAAD |
| 2 | | | | The mobile node, upon receiving this Home Agent Address Discovery Reply message, **MAY** then send its home registration Binding Update to any of the unicast IP addresses listed in the Home Agent Addresses field in the Reply. | MAY | B | B | X | *NEMO-MR-5-1-2-1-002 NEMO-MR-5-1-2-1-016 NEMO-MR-5-1-2-1-021* | DHAAD |

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| | | | | | | | | Supported | Test No. | |
| 3 | | | | For example, the mobile node **MAY** attempt its home registration to each of these addresses, in turn, until its registration is accepted. The mobile node sends a Binding Update to an address and waits for the matching Binding Acknowledgement, moving on to the next address if there is no response. The mobile node **MUST**, however, wait at least InitialBindackTimeoutFirstReg seconds (see Section 13) before sending a Binding Update to the next home agent. | MAY | B | B | X | *NEMO-MR-5-1-2-1-028* *NEMO-MR-5-1-2-1-029* | DHAAD |
| 4 | | | | | MUST | A | A2 | X | *NEMO-MR-5-1-2-1-028* *NEMO-MR-5-1-2-1-029* | In the case that No.3 function is implemented, this function is mandotory. |
| 5 | | | | In trying each of the returned home agent addresses, the mobile node **SHOULD** try each of them in the order they appear in the Home Agent Addresses field in the received Home Agent Address Discovery Reply message. | SHOULD | A | A2 | X | *NEMO-MR-5-1-2-1-026* *NEMO-MR-5-1-2-1-027* | In the case that No.3 function is implemented, this function is mandotory. |

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| | | | | | | | | Supported | Test No. | |
| 6 | | | Try to other Home Agent when Binding Update procedure fails | If the mobile node has a current registration with some home agent (the Lifetime for that registration has not yet expired), then the mobile node **MUST** attempt any new registration first with that home agent. | MUST | A | A1 | X | *NEMO-MR-2-1-2-1-004* | |
| 7 | | | | If that registration attempt fails (e.g., timed out or rejected), the mobile node **SHOULD** then reattempt this registration with another home agent. If the mobile node knows of no other suitable home agent, then it **MAY** attempt the dynamic home agent address discovery mechanism described above. | SHOULD | A | A2 | X | *NEMO-MR-5-1-2-1-028* | DHAAD |
| 8 | | | | | MAY | B | B | X | *NEMO-MR-5-1-2-1-028* | |

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| | | | | | | | | Supported | Test No. | |
| 9 | | | Retransmit a Home Agent Address Discovery Request message | If, after a mobile node transmits a Home Agent Address Discovery Request message to the Home Agents Anycast address, it does not receive a corresponding Home Agent Address Discovery Reply message within INITIAL_DHAAD_TIMEOUT (see Section 12) seconds, the mobile node **MAY** retransmit the same Request message to the same anycast address. This retransmission **MAY** be repeated up to a maximum of DHAAD_RETRIES (see Section 12) attempts. Each retransmission **MUST** be delayed by twice the time interval of the previous retransmission. | MAY | B | B | X | *NEMO-MR-5-1-1-1-006* | DHAAD |
| 10 | | | | | MAY | B | B | X | *NEMO-MR-5-1-1-1-006* | DHAAD |
| 11 | | | | | MUST | A | A2 | X | *NEMO-MR-5-1-1-1-006* | In the case that No.9 function is implemented, this function is mandotory. |

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| | | | | | | | | Supported | Test No. | |
| 12 | 11.4.2. | Sending Mobile Prefix Solicitations | sends a Mobile Prefix Solicitation | When a mobile node has a home address that is about to become invalid, it **SHOULD** send a Mobile Prefix Solicitation to its home agent in an attempt to acquire fresh routing prefix information. The new information also enables the mobile node to participate in renumbering operations affecting the home network, as described in Section 10.6. | SHOULD | A | A2 | X | *NEMO-MR-4-1-1-1-001* | MPS |
| 13 | | | | The mobile node **MUST** use the Home Address destination option to carry its home address. | MUST | A | A2 | X | *NEMO-MR-4-1-1-1-001* | MPS |
| 14 | | | | The mobile node **MUST** support and **SHOULD** use IPsec to protect the solicitation. | MUST | A | A2 | X | *NEMO-MR-4-1-1-1-001* | MPS |
| 15 | | | | | SHOULD | A | A2 | X | *NEMO-MR-4-1-1-1-001* | MPS |
| 16 | | | | The mobile node **MUST** set the Identifier field in the ICMP header to a random value. | MUST | A | A2 | X | *NEMO-MR-4-1-1-1-001* | MPS |

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| | | | | | | | | Supported | Test No. | |
| 17 | | | | As described in Section 11.7.2, Binding Updates sent by the mobile node to other nodes **MUST** use a lifetime no greater than the remaining lifetime of its home registration of its primary care-of address. | MUST | A | A2 | | NEMO-MR-2-1-2-1-005 | MPS |
| 18 | | | | The mobile node **SHOULD** further limit the lifetimes that it sends on any Binding Updates to be within the remaining valid lifetime (see Section 10.6.2) for the prefix in its home address. | SHOULD | A | A2 | | NEMO-MR-4-2-1-1-004 | MPS |
| 19 | | | Retransmit a Mobile Prefix Solicitation | When the lifetime for a changed prefix decreases, and the change would cause cached bindings at correspondent nodes in the Binding Update List to be stored past the newly shortened lifetime, the mobile node **MUST** issue a Binding Update to all such correspondent nodes. | MUST | A | A2 | | | MPS |
| 20 | 11.4.3. | Receiving Mobile Prefix Advertisements | Adjustment at Binding Lifetime for Corespondent Node | The Source Address of the IP packet carrying the Mobile Prefix Advertisement is the same as the home agent address to which the mobile node last sent an accepted home registration Binding Update to register its primary care-of address. Otherwise, if no such registrations | SHOULD | A | A2 | | | MPA |

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| | | | | | | | | Supported | Test No. | |
| 21 | | | | have been made, it **SHOULD** be the mobile node's stored home agent address, if one exists. Otherwise, if the mobile node has not yet discovered its home agent's address, it **MUST NOT** accept Mobile Prefix Advertisements. | MUST NOT | A | A2 | X | *NEMO-MR-4-2-1-1-012* *NEMO-MR-4-2-1-1-004* | MPA |
| 22 | | | | The packet **MUST** have a type 2 routing header and **SHOULD** be protected by an IPsec header as described in Section 5.4 and Section 6.8. | MUST | A | A2 | X | *NEMO-MR-4-2-1-1-001* *NEMO-MR-4-2-1-1-013* | MPA |
| 23 | | | | | SHOULD | A | A2 | X | *NEMO-MR-4-2-1-1-001* | MPA |
| 24 | | | | If the ICMP Identifier value matches the ICMP Identifier value of the most recently sent Mobile Prefix Solicitation and no other advertisement has yet been received for this value, then the advertisement is considered to be solicited and will be processed further. | (do) | A | A2 | X | *NEMO-MR-4-2-1-1-001* *NEMO-MR-4-2-1-1-015* | MPA |

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| | | | | | | | | Supported | Test No. | |
| 25 | | | | Otherwise, the advertisement is unsolicited, and **MUST** be discarded. In this case the mobile node **SHOULD** send a Mobile Prefix Solicitation. | MUST/SHOULD | A | A2 | X | *NEMO-MR-4-1-1-1-002 NEMO-MR-4-2-1-1-014* | MPA |
| 26 | | | | Any received Mobile Prefix Advertisement not meeting these tests **MUST** be silently discarded. | MUST | A | A2 | X | *NEMO-MR-4-2-1-1-013 NEMO-MR-4-2-1-1-012* | MPA |

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| | | | | | | | | Supported | Test No. | |
| 27 | | | | For an accepted Mobile Prefix Advertisement, the mobile node **MUST** process Managed Address Configuration (M), Other Stateful Configuration (O), and the Prefix Information Options as if they arrived in a Router Advertisement [12] on the mobile node's home link.(This specification does not, however, describe how to acquire home addresses through stateful protocols.) Such processing may result in the mobile node configuring a new home address, although due to separation between preferred lifetime and valid lifetime, such changes should not affect most communications by the mobile node, in the same way as for nodes that are at home. | MUST | A | A2 | | | stateful address autoconfiguration |

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| | | | | | | | | Supported | Test No. | |
| 1 | 11.5.1. | Movement Detection | The opportunity of move detection | Generic movement detection uses Neighbor Unreachability Detection to detect when the default router is no longer bi-directionally reachable, in which case the mobile node must discover a new default router (usually on a new link). However, this detection only occurs when the mobile node has packets to send, and in the absence of frequent Router Advertisements or indications from the link-layer, the mobile node might become unaware of an L3 handover that occurred. Therefore, the mobile node should supplement this method with other information whenever it is available to the mobile node (e.g., from lower protocol layers). | (do) | C | - | | | Function that uses upper or lower layer information |
| 2 | | | | When the mobile node detects an L3 handover, it performs Duplicate Address Detection [13] on its link-local address, selects a new default router as a consequence of Router Discovery, and then performs Prefix Discovery with that new router to form new care-of address(es) as described in Section 11.5.2. It then registers its new primary care-of address with its home agent as described in Section 11.7.1. | (do) | A | A1 | X | *NEMO-MR-2-1-2-1-001* | Movement Detection |

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| | | | | | | | | Supported | Test No. | |
| 3 | | | | After updating its home registration, the mobile node then updates associated mobility bindings in correspondent nodes that it is performing route optimization with as specified in Section 11.7.2. | (do) | A | A2 | | | Route Optimization |
| 4 | | | | Due to the temporary packet flow disruption and signaling overhead involved in updating mobility bindings, the mobile node should avoid performing an L3 handover until it is strictly necessary.<br>Specifically, when the mobile node receives a Router Advertisement from a new router that contains a different set of on-link prefixes, if the mobile node detects that the currently selected default router on the old link is still bi-directionally reachable, it should generally continue to use the old router on the old link rather than switch away from it to use a new default router. | (do) | A | A1 | X | *NEMO-MR-3-3-1-1-002* | Movement detection |

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| | | | | | | | | Supported | Test No. | |
| 5 | | | | Mobile nodes can use the information in received Router Advertisements to detect L3 handovers. In doing so the mobile node needs to consider the following issues:<br><br>- There might be multiple routers on the same link, thus hearing a new router does not necessarily constitute an L3 handover. | (do) | A | A1 | X | *NEMO-MR-3-3-1-1-002* | Movement Detection |
| 6 | | | | When there are multiple routers on the same link they might advertise different prefixes. Thus even hearing a new router with a new prefix might not be a reliable indication of an L3 handover. | (do) | A | A1 | X | *NEMO-MR-3-3-1-1-002* | Movement detection |

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| | | | | | | | | Supported | Test No. | |
| 7 | | | | The link-local addresses of routers are not globally unique, hence after completing an L3 handover the mobile node might continue to receive Router Advertisements with the same link-local source address. This might be common if routers use the same link-local address on multiple interfaces. This issue can be avoided when routers use the Router Address (R) bit, since that provides a global address of the router. | (do) | A | A1 | X | *NEMO-MR-3-3-1-1-005* | Movement Detection |

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| | | | | | | | | Supported | Test No. | |
| 8 | | | | In addition, the mobile node should consider the following events as indications that an L3 handover may have occurred. Upon receiving such indications, the mobile node needs to perform Router Discovery to discover routers and prefixes on the new link, as described in Section 6.3.7 of RFC 2461 [12]. - If Router Advertisements that the mobile node receives include an Advertisement Interval option, the mobile node may use its Advertisement Interval field as an indication of the frequency with which it should expect to continue to receive future Advertisements from that router. This field specifies the minimum rate (the maximum amount of time between successive Advertisements) that the mobile node should expect. If this amount of time elapses without the mobile node receiving any Advertisement from this router, the mobile node can be sure that at least one Advertisement sent by the router has been lost. The mobile node can then implement its own policy to determine how many lost Advertisements from its current default router constitute an L3 handove | (do) | B | B | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | Supported | Test No. | |
| 9 | | | | Neighbor Unreachability Detection determines that the default router is no longer reachable. | (do) | B | B | X | *NEMO-MR-3-3-1-1-003* | This function is implementaion-dependent. It does not effect on interoperability. |
| 10 | | | | With some types of networks, notification that an L2 handover has occurred might be obtained from lower layer protocols or device driver software within the mobile node. While further details around handling L2 indications as movement hints is an item for further study, at the time of writing this specification the following is considered reasonable:<br><br>An L2 handover indication may or may not imply L2 movement and L2 movement may or may not imply L3 movement; the correlations might be a function of the type of L2 but might also be a function of actual deployment of the wireless topology. | (do) | C | - | | | Function that uses upper or lower layer information |

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| | | | | | | | | Supported | Test No. | |
| 11 | | | | Unless it is well-known that an L2 handover indication is likely to imply L3 movement, instead of immediately multicasting a router solicitation it may be better to attempt to verify whether the default router is still bi-directionally reachable. This can be accomplished by sending a unicast Neighbor Solicitation and waiting for a Neighbor Advertisement with the solicited flag set. Note that this is similar to Neighbor Unreachability detection but it does not have the same state machine, such as the STALE state. | (do) | C | - | | | Function that uses upper or lower layer information |
| 12 | | | | If the default router does not respond to the Neighbor Solicitation it makes sense to proceed to multicasting a Router Solicitation. | (do) | B | B | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 13 | 11.5.2. | Forming New Care-of Addresses | form a new primary care-of address | After detecting that it has moved a mobile node **SHOULD** generate a new primary care-of address using normal IPv6 mechanisms. This **SHOULD** | SHOULD | A | A1 | X | *NEMO-MR-3-2-1-1-001* | |

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| | | | | | | | | Supported | Test No. | |
| 14 | | | | also be done when the current primary care-of address becomes deprecated. | SHOULD | A | A2 | | | This function is implementaion-dependent. The matter on which MN judges the current primary care-of address to be deprecated without movement detection. |
| 15 | | | | A mobile node **MAY** form a new primary care-of address at any time, but a mobile node **MUST NOT** send a Binding Update about a new care-of address to its home agent more than MAX_UPDATE_RATE times within a second. | MAY | C | - | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 16 | | | | | MUST NOT | A | A2 | | | In the case that No.15 function is implemented, this function is mandotory. This function is implementaion-dependent. The matter into which primary care-of address is changed MAX_UPDATE_RATE times within a second. |
| 17 | | | | In addition, a mobile node **MAY** form new non-primary care-of addresses even when it has not switched to a new default router. A mobile node can have only one primary care-of address at a time (which is registered with its | MAY | C | - | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | Supported | Test No. | |
| 18 | | | | at a time (which is registered with its home agent), but it **MAY** have an additional care-of address for any or all of the prefixes on its current link. | MAY | C | - | | | |
| 19 | | | | Furthermore, since a wireless network interface may actually allow a mobile node to be reachable on more than one link at a time (i.e.,within wireless transmitter range of routers on more than one separate link), a mobile node **MAY** have care-of addresses on more than one link at a time. The use of more than one care-of address at a time is described in Section 11.5.3. | MAY | C | - | | | Multiple Care-of Address |
| 20 | | | | As described in Section 4, in order to form a new care-of address, a mobile node **MAY** use either stateless [13] or stateful (e.g., DHCPv6 [29]) Address Autoconfiguration. If a mobile node needs to use a source address (other than the unspecified address) in packets sent as a part of address autoconfiguration, it **MUST** use an IPv6 link-local address rather than its own IPv6 home address. | MAY | B | B | X | *NEMO-MR-3-2-1-1-001 Both tests are for stateless address.* | Support of stateful address is optional |
| 21 | | | | | MUST | A | A1 | X | *NEMO-MR-3-2-1-1-001* | |

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| 22 | | | | RFC 2462 [13] specifies that in normal processing for Duplicate Address Detection, the node **SHOULD** delay sending the initial Neighbor Solicitation message by a random delay between 0 and MAX_RTR_SOLICITATION_DELAY. Since delaying DAD can result in significant delays in configuring a new care-of address when the Mobile Node moves to a new link, the Mobile Node preferably **SHOULD** NOT delay DAD when configuring a new care-of address. The Mobile Node **SHOULD** delay according to the mechanisms specified in RFC 2462 unless the implementation has a behavior that desynchronizes the steps that happen before the DAD in the case that multiple nodes experience handover at the same time. Such desynchronizing behaviors might be due to random delays in the L2 protocols or device drivers, or due to the movement detection mechanism that is used. | SHOULD | A | A2 | | | This function is optional |

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| | | | | | | | | Supported | Test No. | |
| 23 | | | | | SHOULD | A | A2 | | | This function is optional |
| 24 | | | | | SHOULD | A | A2 | | | This function is optional |
| 25 | 11.5.3. | Using Multiple Care-of Addresses | Generation of Two or more care-of address | As described in Section 11.5.2, a mobile node **MAY** use more than one care-of address at a time. Particularly in the case of many wireless networks, a mobile node effectively might be reachable through multiple links at the same time (e.g., with overlapping wireless cells), on which different on-link subnet prefixes may exist. | MAY | C | - | | | Multiple Care-of Address |

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| | | | | | | | | Supported | Test No. | |
| 26 | | | | The mobile node **MUST** ensure that its primary care-of address always has a prefix that is advertised by its current default router. | MUST | A | A1 | X | *NEMO-MR-2-1-1-1-001* | |
| 27 | | | | After selecting a new primary care-of address, the mobile node **MUST** send a Binding Update containing that care-of address to its home agent. | MUST | A | A1 | X | *NEMO-MR-2-1-1-1-001* | |
| 28 | | | | The Binding Update **MUST** have the Home Registration (H) and Acknowledge (A) bits set its home agent, as described on Section 11.7.1. | MUST | A | A1 | X | *NEMO-MR-2-1-1-1-001* | |

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| 29 | | | Retaining of the previous primary care-of address | To assist with smooth handovers, a mobile node **SHOULD** retain its previous primary care-of address as a (non-primary) care-of address, and **SHOULD** still accept packets at this address, even after registering its new primary care-of address with its home agent. This is reasonable, since the mobile node could only receive packets at its previous primary care-of address if it were indeed still connected to that link. If the previous primary care-of address was allocated using stateful Address Autoconfiguration [29], the mobile node may not wish to release the address immediately upon switching to a new primary care-of address. | SHOULD | A | A2 | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 30 | | | | | SHOULD | A | A2 | | | |

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| | | | | | | | | Supported | Test No. | |
| 31 | | | | Whenever a mobile node determines that it is no longer reachable through a given link, it **SHOULD** invalidate all care-of addresses associated with address prefixes that it discovered from routers on prefixes advertised by the (possibly new)current default router. | SHOULD | A | A1 | X | *NEMO-MR-3-3-1-1-004* | |
| 32 | 11.5.4. | Returning Home | The opportunity of move detection (returning home) | A mobile node detects that it has returned to its home link through the movement detection algorithm in use (Section 11.5.1), when the mobile node detects that its home subnet prefix is again on-link. The mobile node **SHOULD** then send a Binding Update to its home agent, to instruct its home agent to no longer intercept or tunnel packets for it. | SHOULD | A | A2 | X | *NEMO-MR-2-1-3-1-001* | Returning Home |
| 33 | | | Transmission of Binding Update at returning home | In this home registration, the mobile node **MUST** set the Acknowledge (A) and Home Registration (H) bits, set the Lifetime field to zero, and set the care-of address for the binding to the mobile node's own home address. | MUST | A | A2 | X | *NEMO-MR-2-1-3-1-001* | Returning Home |

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| | | | | | | | | Supported | Test No. | |
| 34 | | | | The mobile node **MUST** use its home address as the source address in the Binding Update. | MUST | A | A2 | X | *NEMO-MR-2-1-3-1-001* | Returning Home |
| 35 | | | | When sending this Binding Update to its home agent, the mobile node must be careful in how it uses Neighbor Solicitation [12] (if needed) to learn the home agent's link-layer address, since the home agent will be currently configured to intercept packets to the mobile node's home address using Duplicate Address Detection (DAD). In particular, the mobile node is unable to use its home address as the Source Address in the Neighbor Solicitation until the home agent stops defending the home address. | (do) | A | A2 | X | *NEMO-MR-2-1-3-1-001* | Returning Home |

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| 36 | | | | Neighbor Solicitation by the mobile node for the home agent's address will normally not be necessary, since the mobile node has already learned the home agent's link-layer address from a Source Link-Layer Address option in a Router Advertisement. However, if there are multiple home agents it may still be necessary to send a solicitation. In this special case of the mobile node returning home, the mobile node **MUST** multicast the packet, and in addition set the Source Address of this Neighbor Solicitation to the unspecified address (0:0:0:0:0:0:0:0). The target of the Neighbor Solicitation **MUST** be set to the mobile node's home address. The destination IP address **MUST** be set to the Solicited-Node multicast address [3]. The home agent will send a multicast Neighbor Advertisement back to the mobile node with the Solicited flag (S) set to zero. In any case, the mobile node **SHOULD** record the information from the Source Link-Layer Address option or from the advertisement, and set the state of the Neighbor Cache entry for the home agent to REACHABLE. | MUST | A | A2 | X | *NEMO-MR-2-1-3-1-007* *NEMO-MR-2-2-2-1-001* | Multiple Homa Agent support is optional.<br><br>Returning Home |

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| | | | | | | | | Supported | Test No. | |
| 37 | | | | | MUST | A | A2 | X | *NEMO-MR-2-1-3-1-007* *NEMO-MR-2-2-2-1-001* | |
| 38 | | | | | MUST | A | A2 | X | *NEMO-MR-2-1-3-1-007* *NEMO-MR-2-2-2-1-001* | |
| 39 | | | | | SHOULD | A | A2 | X | *NEMO-MR-2-1-3-1-007* *NEMO-MR-2-2-2-1-001* | |

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| | | | | | | | | Supported | Test No. | |
| 40 | | | Transmission of Binding Update at returning home | The mobile node then sends its Binding Update to the home agent's link-layer address, instructing its home agent to no longer serve as a home agent for it. By processing this Binding Update, the home agent will cease defending the mobile node's home address for Duplicate Address Detection and will no longer respond to Neighbor Solicitations for the mobile node's home address. The mobile node is then the only node on the link receiving packets at the mobile node's home address. In addition, when returning home prior to the expiration of a current binding for its home address, and configuring its home address on its network interface on its home link, the mobile node **MUST NOT** perform Duplicate Address Detection on its own home address, in order to avoid confusion or conflict with its home agent's use of the same address. This rule also applies to the derived link-local address of the mobile node, if the Link Local Address Compatibility (L) bit was set when the binding was created. If the mobile node returns home after the bindings for all of its care-of addresses **SHOULD** perform DAD. | MUST NOT | A | A2 | X | *NEMO-MR-2-1-3-1-001* | Returning Home |
| 41 | | | | | SHOULD | A | A2 | X | *NEMO-MR-3-4-1-1-002* | Returning Home |

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| | | | | | | | | Supported | Test No. | |
| 42 | | | | After the Mobile Node sends the Binding Update, it **MUST** be prepared to reply to Neighbor Solicitations for its home address. Such replies **MUST** be sent using a unicast Neighbor Advertisement to the sender's link-layer address. It is necessary to reply, since sending the Binding Acknowledgement from the home agent may require performing Neighbor Discovery, and the mobile node may not be able to distinguish Neighbor Solicitations coming from the home agent from other Neighbor Solicitations. Note that a race condition exists where both the mobile node and the home agent respond to the same solicitations sent by other nodes; this will be only temporary, however, until the Binding Update is accepted. | MUST | A | A2 | X | *NEMO-MR-2-2-2-1-027* | Returning Home |
| 43 | | | | | MUST | A | A2 | X | *NEMO-MR-2-2-2-1-027* | Returning Home |
| 44 | | | Transmission of Neighbor Advertisement after reception of Binding Acknowledgement | After receiving the Binding Acknowledgement for its Binding Update to its home agent, the mobile node MUST multicast onto the home link (to the all-nodes multicast address) a Neighbor Advertisement [12], to advertise the mobile node's own link-layer address for its own home address. The Target Address in this Neighbor Advertisement MUST be | MUST | A | A2 | X | *NEMO-MR-3-4-1-1-001* | Returning Home |

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| 45 | | | | set to the mobile node's home address, and the Advertisement MUST include a Target Link-layer Address option specifying the mobile node's link-layer address. The mobile node MUST multicast such a Neighbor Advertisement for each of its home addresses, as defined by the current on-link prefixes, including its link-local address and site-local address. | MUST | A | A2 | X | *NEMO-MR-3-4-1-1-001* | |
| 46 | | | | | MUST | A | A2 | X | *NEMO-MR-3-4-1-1-001* | |
| 47 | | | | The Solicited Flag (S) in these Advertisements **MUST NOT** be set, since they were not solicited by any Neighbor Solicitation. The Override Flag (O) in these Advertisements **MUST** be set, indicating that the Advertisements **SHOULD** override any existing Neighbor Cache entries at | MUST NOT | A | A2 | X | *NEMO-MR-3-4-1-1-001* | Returning Home |

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| | | | | | | | | Supported | Test No. | |
| 48 | | | | any existing Neighbor Cache entries at any node receiving them. | MUST | A | A2 | X | *NEMO-MR-3-4-1-1-001* | |
| 49 | | | | | SHOULD | A | A2 | X | *NEMO-MR-3-4-1-1-001* | |
| 50 | | | | Since multicasting on the local link (such as Ethernet) is typically not guaranteed to be reliable, the mobile node **MAY** retransmit these Neighbor Advertisements [12] up to MAX_NEIGHBOR_ADVERTISEMENT times to increase their reliability. It is still possible that some nodes on the home link will not receive any of these Neighbor Advertisements, but these nodes will eventually be able to recover through use of Neighbor Unreachability Detection [12]. | MAY | C | - | | | IPv6 core function which is not modified to achieve Mobile IPv6 function |

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| | | | | | | | | Supported | Test No. | |
| 1 | 11.6.1 | Sending Test Init Messages | | A mobile node that initiates a return routability procedure **MUST** send (in parallel) a Home Test Init message and a Care-of Test Init messages. | MUST | A | A2 | | | Return Routability |
| 2 | | | | However, if the mobile node has recently received (see Section 5.2.7) one or both home or care-of keygen tokens, and associated nonce indices for the desired addresses, it **MAY** reuse them. | MAY | B | B | | | Return Routability Procedure between MN and HA |
| 3 | | | | A Home Test Init message **MUST** be created as described in Section 6.1.3. | MUST | A | A2 | | | Return Routability |
| 4 | | | | A Care-of Test Init message **MUST** be created as described in Section 6.1.4. | MUST | A | A2 | | | Return Routability |
| 5 | | | When sending a Home Test Init or Care-of Test Init | o The IP address of the node to which the message was sent. | MUST | A | A2 | | | Return Routability |

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| | | | | | | | | Supported | Test No. | |
| 6 | | | message the mobile node **MUST** record in its Binding Update List the following fields from the messages: | o The home address of the mobile node. This value will appear in the Source Address field of the Home Test Init message. When sending the Care-of Test Init message, this address does not appear in the message, but represents the home address for which the binding is desired. | MUST | A | A2 | | | Return Routability |
| 7 | | | | o The time at which each of these messages was sent. | MUST | A | A2 | | | Return Routability |
| 8 | | | | o The cookies used in the messages. | MUST | A | A2 | | | Return Routability |
| 9 | | | | Note that a single Care-of Test Init message may be sufficient even when there are multiple home addresses. In this case the mobile node **MAY** record the same information in multiple Binding Update List entries. | MAY | B | B | | | Multiple Home Addresses |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 10 | 11.6.2 | Receiving Test Messages | Upon receiving a packet carrying a Home Test message, a mobile node **MUST** validate the packet according to the following tests | o The Source Address of the packet belongs to a correspondent node for which the mobile node has a Binding Update List entry with a state indicating that return routability procedure is in progress. Note that there may be multiple such entries. | MUST | A | A2 | | | Return Routability |
| 11 | | | | o The Binding Update List indicates that no home keygen token has been received yet. | MUST | A | A2 | | | Return Routability |
| 12 | | | | o The Destination Address of the packet has the home address of the mobile node, and the packet has been received in a tunnel from the home agent. | MUST | A | A2 | | | Return Routability |
| 13 | | | | o The Home Init Cookie field in the message matches the value stored in the Binding Update List. | MUST | A | A2 | | | Return Routability |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 14 | | | | Any Home Test message not satisfying all of these tests **MUST** be silently ignored. Otherwise, the mobile node **MUST** record the Home Nonce Index and home keygen token in the Binding Update List. If the Binding Update List entry does not have a care-of keygen token, the mobile node **SHOULD** continue waiting for the Care-of Test message. | MUST | A | A2 | | | Return Routability |
| 15 | | | | | MUST | A | A2 | | | Return Routability |
| 16 | | | | | SHOULD | A | A2 | | | Return Routability |
| 17 | | | Upon receiving a packet carrying a Care-of Test message, a mobile node **MUST** validate the packet according to the following tests: | o The Source Address of the packet belongs to a correspondent node for which the mobile node has a Binding Update List entry with a state indicating that return routability procedure is in progress. Note that there may be multiple such entries. | MUST | A | A2 | | | Return Routability |
| 18 | | | | o The Binding Update List indicates that no care-of keygen token has been received yet. | MUST | A | A2 | | | Return Routability |

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| | | | | | | | | Supported | Test No. | |
| 19 | | | | o The Destination Address of the packet is the current care-of address of the mobile node. | MUST | A | A2 | | | Return Routability |
| 20 | | | | o The Care-of Init Cookie field in the message matches the value stored in the Binding Update List. | MUST | A | A2 | | | Return Routability |
| 21 | | | | Any Care-of Test message not satisfying all of these tests **MUST** be silently ignored. Otherwise, the mobile node **MUST** record the Care-of Nonce Index and care-of keygen token in the Binding Update List. If the Binding Update List entry does not have a home keygen token, the mobile node **SHOULD** continue waiting for the Home Test message. | MUST | A | A2 | | | Return Routability |
| 22 | | | | | MUST | A | A2 | | | Return Routability |
| 23 | | | | | SHOULD | A | A2 | | | Return Routability |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | TEST Priority | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | Supported | Test No. | |
| 24 | | | | If after receiving either the Home Test or the Care-of Test message and performing the above actions, the Binding Update List entry has both the home and the care-of keygen tokens, the return routability procedure is complete. The mobile node **SHOULD** then proceed with sending a Binding Update as described in Section 11.7.2. | SHOULD | A | A2 | | | Return Routability |
| 25 | | | | Correspondent nodes from the time before this specification was published may not support the Mobility Header protocol. These nodes will respond to Home Test Init and Care-of Test Init messages with an ICMP Parameter Problem code 1. The mobile node **SHOULD** take such messages as an indication that the correspondent node cannot provide route optimization, and revert back to the use of bidirectional tunneling. | SHOULD | A | A2 | | | Return Routability |
| 26 | 11.6.3 | Protecting Return Routability Packets | | The mobile node **MUST** support the protection of Home Test and Home Test Init messages as described in Section 10.4.6. | MUST | A | A2 | | | Return Routability |

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| | | | | | | | | Supported | Test No. | |
| 27 | | | | When IPsec is used to protect return routability signaling or payload packets, the mobile node **MUST** set the source address it uses for the outgoing tunnel packets to the current primary care-of address. The mobile node starts to use a new primary care-of address immediately after sending a Binding Update to the home agent to register this new address. | MUST | A | A2 | | | Return Routability |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC status | functional rank | TEST | | | Test PROFILE | | Reason of TEST Priority |
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| | | | | | | | | HA | CN | supported | Test No. | |
| 1 | 11.7.1 | Sending Binding Updates to the Home Agent | Registration of the primary care-of address | After deciding to change its primary care-of address as described in Sections 11.5.1 and 11.5.2, a mobile node **MUST** register this care-of address with its home agent in order to make this its primary care-of address. | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-001* | |
| 2 | | | Updating of the primary care-of address | Also, if the mobile node wants the services of the home agent beyond the current registration period, the mobile node **SHOULD** send a new Binding Update to it well before the expiration of this period, even if it is not changing its primary care-of address. | SHOULD | A | A1 | | | X | *NEMO-MR-2-1-2-1-004* | |
| 3 | | | | However, if the home agent returned a Binding Acknowledgement for the current registration with Status field set to 1 (accepted but prefix discovery necessary), the mobile node should not try to register again before it has learned the validity of its home prefixes through mobile prefix discovery. This is typically necessary every time this Status value is received, because information learned earlier may have changed. | (do) | A | A1 | | | | | Home Registration |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 4 | | | Generating of the Binding Update packet | o The Home Registration (H) bit **MUST** be set in the Binding Update. | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-001* | |
| 5 | | | | o The Acknowledge (A) bit **MUST** be set in the Binding Update. | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-001* | |
| 6 | | | | o The packet **MUST** contain a Home Address destination option, giving the mobile node's home address for the binding. | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-001* | |
| 7 | | | | o The care-of address for the binding **MUST** be used as the Source Address in the packet's IPv6 header, unless an Alternate Care-of Address mobility option is included in the Binding Update. | MUST | A | A1 | | | | | |
| 8 | | | | This option **MUST** be included in all home registrations, as the ESP protocol will not be able to protect care-of addresses in the IPv6 header. (Mobile IPv6 implementations that know they are using IPsec AH to protect a particular message might avoid this option. For brevity the usage of AH is not discussed in this document.) | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-001* | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 9 | | | | o If the mobile node's link-local address has the same interface identifier as the home address for which it is supplying a new care-of address, then the mobile node **SHOULD** set the Link-Local Address Compatibility (L) bit. | SHOULD | A | A2 | | | X | *NEMO-MR-2-1-1-1-002* | this function depends on how to generate Home Address |
| 10 | | | | o If the home address was generated using RFC 3041 [18], then the link local address is unlikely to have a compatible interface identifier. In this case, the mobile node **MUST** clear the Link-Local Address Compatibility (L) bit. | MUST | A | A2 | | | X | *NEMO-MR-2-1-1-1-002* | this function depends on how to generate Home Address |
| 11 | | | | o If the IPsec security associations between the mobile node and the home agent have been established dynamically, and the mobile node has the capability to update its endpoint in the used key management protocol to the new care-of address every time it moves, the mobile node **SHOULD** set the Key Management Mobility Capability (K) bit in the Binding Update. Otherwise, the mobile node **MUST** clear the bit. | SHOULD | A | A2 | | | X | *NEMO-MR-1-2-1-1-014* | IKE |
| 12 | | | | | MUST | A | A2 | | | X | *NEMO-MR-2-1-1-1-004* *NEMO-MR-1-2-1-1-012* | IKE |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 13 | | | A setup of a Lifetime field value | The value specified in the Lifetime field **MUST** be non-zero and **SHOULD** be less than or equal to the remaining valid lifetime of the home address and the care-of address specified for the binding. | MUST | A | A1 | | | X | *NEMO-MR-2-1-2-1-005 NEMO-MR-2-1-1-1-006 NEMO-MR-2-1-1-1-007* | |
| | | | | | SHOULD | A | A1 | | | X | *NEMO-MR-2-1-2-1-005 NEMO-MR-2-1-1-1-006 NEMO-MR-2-1-1-1-007* | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 14 | | | | Mobile nodes that use dynamic home agent address discovery should be careful with long lifetimes. If the mobile node loses the knowledge of its binding with a specific home agent, registering a new binding with another home agent may be impossible as the previous home agent is still defending the existing binding. Therefore, to ensure that mobile nodes using home agent address discovery do not lose information about their binding, they **SHOULD** de-register before losing this information, or use small lifetimes. | SHOULD | A | A2 | | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 15 | | | Retransmission of the Binding Update packet | As described in Section 6.1.8, the mobile node **SHOULD** retransmit this Binding Update to its home agent until it receives a matching Binding Acknowledgement. | SHOULD | A | A2 | | | X | *NEMO-MR-2-1-1-1-013 NEMO-MR-2-1-2-1-006* | retransmission of Binding Update |
| 16 | | | | Once reaching a retransmission timeout period of MAX_BINDACK_TIMEOUT, the mobile node **SHOULD** restart the process of delivering the Binding Update, but trying instead the next home agent returned during dynamic home agent address discovery (see Section 11.4.1). | SHOULD | A | A2 | | | X | *NEMO-MR-5-1-2-1-029* | retransmission of Binding Update |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 17 | | | | If there was only one home agent, the mobile node instead **SHOULD** continue to periodically retransmit the Binding Update at this rate until acknowledged (or until it begins attempting to register a different primary care-of address). | SHOULD | A | A2 | | | X | *NEMO-MR-2-1-1-1-013 NEMO-MR-2-1-2-1-006* | retransmission of Binding Update |
| 18 | | | Security between the Mobile Node and the Home Agent | Each Binding Update **MUST** be authenticated as coming from the right mobile node, as defined in Section 5.1. | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-2-1-3-1-001* | |
| 19 | | | Using the Home Address on Binding Update packet | The mobile node **MUST** use its home address - either in the Home Address destination option or in the Source Address field of the IPv6 header - in Binding Updates sent to the home agent. | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-2-1-3-1-001* | |
| 20 | | | Processing to a Binding Update List entry | When sending a Binding Update to its home agent, the mobile node **MUST** also create or update the corresponding Binding Update List entry, as specified in Section 11.7.2. | MUST | A | A1 | | | | | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 21 | | | A setup of a Sequence Number value | If the sending mobile node has no knowledge of the correct Sequence Number value, it may start at any value. If the home agent rejects the value, it sends back a Binding Acknowledgement with a status code 135, and the last accepted sequence number in the Sequence Number field of the Binding Acknowledgement. The mobile node **MUST** store this information and use the next Sequence Number value for the next Binding Update it sends. | MUST | A | A1 | | | X | *NEMO-MR-2-1-2-1-001 NEMO-MR-2-2-1-1-010 NEMO-MR-2-2-1-1-016* | |
| 22 | | | Processing in the case of having two or more Home Address | If the mobile node has additional home addresses, then the mobile node **SHOULD** send an additional packet containing a Binding Update to its home agent to register the care-of address for each such other home address. | SHOULD | A | A2 | | | | | Multipule Home Addresses |
| 23 | | | | If some time elapses during which the mobile node has no binding at the home agent, it might be possible for another node to autoconfigure the mobile node's home address. Therefore, the mobile node **MUST** treat the creation of a new binding with the home agent using an existing home address, the same as creation of a new home address. | MUST | A | A1 | | | X | *NEMO-MR-2-1-1-1-008* | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 24 | | | | In the unlikely event that the mobile node's home address is autoconfigured as the IPv6 address of another network node on the home network, the home agent will reply to the mobile node's subsequent Binding Update with a Binding Acknowledgement containing a Status of 134 (Duplicate Address Detection failed). In this case, the mobile node **MUST NOT** attempt to re-use the same home address. | MUST NOT | A | A1 | | | X | *NEMO-MR-2-2-1-1-009* | |
| 25 | | | | It **SHOULD** continue to register the care-of addresses for its other home addresses, if any. | SHOULD | A | A2 | | | | | Multipule Home Addresses |
| 26 | | | | (Mechanisms outlined in Appendix B.5 may in the future allow mobile nodes to acquire new home addresses to replace the one for which Status 134 was received.) | (do) | B | B | | | | | stateful address autoconfigration |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 27 | 11.7.2 | Correspondent Registration | | After the mobile node has sent a Binding Update to its home agent, registering a new primary care-of address (as described in Section 11.7.1), the mobile node **SHOULD** initiate a correspondent registration for each node that already appears in the mobile node's Binding Update List. The initiated procedures can be used to either update or delete binding information in the correspondent node. | SHOULD | A | A2 | | | | | Return Routability |
| 28 | | | | For nodes that do not appear in the mobile node's Binding Update List, the mobile node **MAY** initiate a correspondent registration at any time after sending the Binding Update to its home agent. Considerations regarding when (and if) to initiate the procedure depend on the specific movement and traffic patterns of the mobile node and are outside the scope of this document. | MAY | C | - | | | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 29 | | | | In addition, the mobile node **MAY** initiate the correspondent registration in response to receiving a packet that meets all of the following tests:<br>o The packet was tunneled using IPv6 encapsulation.<br>o The Destination Address in the tunnel (outer) IPv6 header is equal to any of the mobile node's care-of addresses.<br>o The Destination Address in the original (inner) IPv6 header is equal to one of the mobile node's home addresses.<br>o The Source Address in the tunnel (outer) IPv6 header differs from the Source Address in the original (inner) IPv6 header.<br>o The packet does not contain a Home Test, Home Test Init, Care-of Test, or Care-of Test Init message. | MAY | B | B | | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 30 | | | | If a mobile node has multiple home addresses, it becomes important to select the right home address to use in the correspondent registration. The used home address **MUST** be the Destination Address of the original (inner) packet. | MUST | A | A2 | | | | | In the case that No.28 function is implemented, this function is mandotory. |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 31 | | | | The peer address used in the procedure **MUST** be determined as follows:<br>o If a Home Address destination option is present in the original (inner) packet, the address from this option is used.<br>o Otherwise, the Source Address in the original (inner) IPv6 header of the packet is used. | MUST | A | A2 | | | | | In the case that No.28 function is implemented, this function is mandotory. |
| 32 | | | | A mobile node **MAY** also choose to keep its topological location private from certain correspondent nodes, and thus need not initiate the correspondent registration. | MAY | B | B | | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 33 | | | | Upon successfully completing the return routability procedure, and after receiving a successful Binding Acknowledgement from the Home Agent, a Binding Update **MAY** be sent to the correspondent node. | MAY | B | B | | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 34 | | | | In any Binding Update sent by a mobile node, the care-of address (either the Source Address in the packet's IPv6 header or the Care-of Address in the Alternate Care-of Address mobility option of the Binding Update) **MUST** be set to one of the care-of addresses currently in use by the mobile node or to the mobile node's home address. | MUST | A | A1 | | | | | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 35 | | | | A mobile node **MAY** set the care-of address differently for sending Binding Updates to different correspondent nodes. | MAY | C | - | | | | | Multipule Care of Addresses |
| 36 | | | | A mobile node **MAY** also send a Binding Update to such a correspondent node, instructing it to delete any existing binding for the mobile node from its Binding Cache, as described in Section 6.1.7. . | MAY | B | B | | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 37 | | Binding Update message | | The deletion of a binding can be indicated by setting the Lifetime field to 0 or by setting the care-of address equal to the home address. | (do) | B | B | | | | | This function is implementaion-dependent. It does not effect on |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 38 | | | A setup of the Lifetime field value of a Binding Update message | If the care-of address is not set to the mobile node's home address, the Binding Update requests that the correspondent node create or update an entry for the mobile node in the correspondent node's Binding Cache. This is done in order to record a care-of address for use in sending future packets to the mobile node. In this case, the value specified in the Lifetime field sent in the Binding Update **SHOULD** be less than or equal to the remaining lifetime of the home registration and the care-of address specified for the binding. | SHOULD | A | A2 | | | | | Return Routability |
| 39 | | | | The care-of address given in the Binding Update **MAY** differ from the mobile node's primary care-of address. | MAY | C | - | | | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 40 | | | Deletion of the Binding Cache entry of the Correspondent Node | If the Binding Update is sent to the correspondent node, requesting the deletion of any existing Binding Cache entry it has for the mobile node, the care-of address is set to the mobile node's home address and the Lifetime field set to zero. In this case, generation of the binding management key depends exclusively on the home keygen token (Section 5.2.5). The care-of nonce index **SHOULD** be set to zero in this case. | SHOULD | A | A2 | | | | | In the case that No.38 function is implemented, this function is mandotory. |
| 41 | | | A setup of a care-of address | In keeping with the Binding Update creation rules below, the care-of address **MUST** be set to the home address if the mobile node is at home, or to the current care-of address if it is away from home. | MUST | A | A2 | | | | | In the case that No.38 function is implemented, this function is mandotory. |
| 42 | | | | If the mobile node wants to ensure that its new care-of address has been entered into a correspondent node's Binding Cache, the mobile node needs to request an acknowledgement by setting the Acknowledge (A) bit in the Binding Update. | (do) | B | B | | | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 43 | | | Binding Update creation | o The current care-of address of the mobile node **MUST** be sent either in the Source Address of the IPv6 header, or in the Alternate Care-of Address mobility option. | MUST | A | A2 | | | | | Return Routability |
| 44 | | | | o The Destination Address of the IPv6 header **MUST** contain the address of the correspondent node. | MUST | A | A2 | | | | | Return Routability |
| 45 | | | | o The Mobility Header is constructed according to rules in Section 6.1.7 and Section 5.2.6, including the Binding Authorization Data (calculated as defined in Section 6.2.7) and possibly the Nonce Indices mobility options. | (do) | A | A2 | | | | | Return Routability related to 6.1.7 and 5.2.6 |
| 46 | | | | o The home address of the mobile node **MUST** be added to the packet in a Home Address destination option, unless the Source Address is the home address. | MUST | A | A2 | | | | | Return Routability |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 47 | | | | Each Binding Update **MUST** have a Sequence Number greater than the Sequence Number value sent in the previous Binding Update to the same destination address (if any). | MUST | A | A2 | | | | | Return Routability |
| 48 | | | | The sequence numbers are compared modulo 2**16, as described in Section 9.5.1. | (do) | A | A2 | | | | | Return Routability |
| 49 | | | | If the sending mobile node has no Binding Update List entry, the Sequence Number **SHOULD** start at a random value. | SHOULD | A | A2 | | | | | This function is implementaion-dependent. It does not effect on interoperability. |
| 50 | | | | The mobile node **MUST NOT** use the same Sequence Number in two different Binding Updates to the same correspondent node, even if the Binding Updates provide different care-of addresses. | MUST NOT | A | A2 | | | | | Multipule Care of Addresses |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 51 | 11.7.3 | Receiving Binding Acknowledgements | Upon receiving a packet carrying a Binding Acknowledgement, a mobile node MUST validate the packet according to the following tests: | o The packet meets the authentication requirements for Binding Acknowledgements defined in Section 6.1.8 and Section 5. That is, if the Binding Update was sent to the home agent, underlying IPsec protection is used. | (do) | A | A1 | | | X | *HA: NEMO-MR-2-2-1-1-001 NEMO-MR-2-2-1-1-039* | IPsec ESP for the protection of Binding Update and Binding Acknowledge messages |
| 52 | | | | If the Binding Update was sent to the correspondent node, the Binding Authorization Data mobility option **MUST** be present and have a valid value. | MUST | A | A2 | | | | | IPsec ESP for the protection of Binding Update and Binding Acknowledge messages |
| 53 | | | | o The Binding Authorization Data mobility option, if present, **MUST** be the last option and **MUST NOT** have trailing padding. | MUST MUST NOT | A | A2 | | | | | Return Routability |
| 54 | | | | o The Sequence Number field matches the Sequence Number sent by the mobile node to this destination address in an outstanding Binding Update. | (do) | A | -> | A1 | A2 | X | *HA : NEMO-MR-2-2-1-1-001 NEMO-MR-2-2-2-1-001* | HA:Home Registration CN:return routability |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 55 | | | | Any Binding Acknowledgement not satisfying all of these tests **MUST** be silently ignored. | MUST | A | -> | A1 | A2 | X | *HA: NEMO-MR-2-2-1-1-017 NEMO-MR-2-2-1-1-038* | CN:Return Routability |
| 56 | | | | When a mobile node receives a packet carrying a valid Binding Acknowledgement, the mobile node **MUST** examine the Status field as follows: | MUST | A | -> | A1 | A2 | X | HA: NEMO-MR-2-1-2-1-004 NEMO-MR-2-2-1-1-001 NEMO-MR-2-2-1-1-003 NEMO-MR-2-2-1-1-010 NEMO-MR-2-2-1-1-020 | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 57 | | | The check of the Status field value of an effective Binding Acknowledgement message | If the Status field indicates that the Binding Update was accepted (the Status field is less than 128), then the mobile node **MUST** update the corresponding entry in its Binding Update List to indicate that the Binding Update has been acknowledged; the mobile node **MUST** then stop retransmitting the Binding Update. | MUST<br><br>MUST | A<br><br>A | -> | A1 | A2 | X<br><br>X | HA : NEMO-MR-2-2-1-1-001 | CN:Return Routability |
| 58 | | | A re-setup of the Lifetime value of a Binding Update List entry | In addition, if the value specified in the Lifetime field in the Binding Acknowledgement is less than the Lifetime value sent in the Binding Update being acknowledged, the mobile node **MUST** subtract the difference between these two Lifetime values from the remaining lifetime for the binding as maintained in the corresponding Binding Update List entry (with a minimum value for the Binding Update List entry lifetime of 0). | MUST | A | -> | A1 | A2 | X | HA : NEMO-MR-2-2-1-1-020 | CN:Return Routability |
| 59 | | | Transmission of periodical Binding Update | Mobile nodes **SHOULD** send a new Binding Update well before the expiration of this period in order to extend the lifetime | SHOULD | A | -> | A1 | A2 | X | *NEMO-MR-2-1-2-1-004* | CN:Return Routability |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 60 | | | | o Additionally, if the Status field value is 1 (accepted but prefix discovery necessary), the mobile node **SHOULD** send a Mobile Prefix Solicitation message to update its information about the available prefixes. | SHOULD | A | -> | A2 | A2 | | | MPS |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 61 | | | | If the Status field indicates that the Binding Update was rejected (the Status field is greater than or equal to 128), then the mobile node can take steps to correct the cause of the error and retransmit the Binding Update (with a new Sequence Number value), subject to the rate limiting restriction specified in Section 11.8. If this is not done or it fails, then the mobile node **SHOULD** record in its Binding Update List that future Binding Updates **SHOULD NOT** be sent to this destination. | SHOULD | A | -> | A1 | A2 | X | *HA: NEMO-MR-2-2-1-1-003 NEMO-MR-2-2-1-1-010 NEMO-MR-2-2-1-1-004 NEMO-MR-2-2-1-1-005 NEMO-MR-2-2-1-1-006 NEMO-MR-2-2-1-1-007 NEMO-MR-2-2-1-1-035* | CN:Return Routability |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 62 | | | | | SHOULD NOT | A | -> | A1 | A2 | X | *HA: NEMO-MR-2-2-1-1-003 NEMO-MR-2-2-1-1-010* | CN:Return Routability |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 63 | | | Processing of a Binding Refresh Advice mobility option | The treatment of a Binding Refresh Advice mobility option within the Binding Acknowledgement depends on where the acknowledgement came from. This option **MUST** be ignored if the acknowledgement came from a correspondent node. | MUST | A | A2 | | | | | CN:Return Routability |
| 64 | | | | If it came from the home agent, the mobile node uses the Refresh Interval field in the option as a suggestion that it **SHOULD** attempt to refresh its home registration at the indicated shorter interval. | SHOULD | A | A1 | | | X | NEMO-MR-2-2-1-1-026 | |
| 65 | | | | If the acknowledgement came from the home agent, the mobile node examines the value of the Key Management Mobility Capability (K) bit. If this bit is not set, the mobile node **SHOULD** discard key management protocol connections, if any, to the home agent. The mobile node **MAY** also initiate a new key management connection. | SHOULD<br>MAY | A<br>B | A2<br>B | | | X | *NEMO-MR-1-2-1-1-012*<br>*NEMO-MR-1-2-3-1-023*<br>*NEMO-MR-2-2-1-1-014* | IKE |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 66 | | | | If this bit is set, the mobile node **SHOULD** move its own endpoint in the key management protocol connections to the home agent, if any. The mobile node's new endpoint should be the new care-of address. For an IKE phase 1 connection, this means that packets sent to this address with the original ISAKMP cookies are accepted. | SHOULD | A | A2 | | | X | *NEMO-MR-1-2-1-1-014* *NEMO-MR-1-2-3-1-024* | IKE |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 67 | 11.7.4 | Receiving Binding Refresh Requests | | When a mobile node receives a packet containing a Binding Refresh Request message , the mobile node has a Binding Update List entry for the source of the Binding Refresh Request, and the mobile node wants to retain its binding cache entry at the correspondent node, then the mobile node should start a return routability procedure. If the mobile node wants to have its binding cache entry removed it can either ignore the Binding Refresh Request and wait for the binding to time out, or at any time delete its binding from a correspondent node with an explicit binding update with a zero lifetime and the care-of address set to the home address. If the mobile node does not know if it needs the binding cache entry, it can make the decision in an implementation dependent manner, such as based on available resources. | (do) | A | A2 | | | | | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 68 | | | | When a mobile node receives a packet containing a Binding Refresh Request message , the mobile node has a Binding Update List entry for the source of the Binding Refresh Request, and the mobile node wants to retain its binding cache entry at the correspondent node, then the mobile node should start a return routability procedure. If the mobile node wants to have its binding cache entry removed, it can either ignore the Binding Refresh Request and wait for the binding to time out, or at any time, it can delete its binding from a correspondent node with an explicit binding update with a zero lifetime and the care-of address set to the home address. If the mobile node does not know if it needs the binding cache entry, it can make the decision in an implementation dependent manner, such as based on available resources. | (do) | A | A2 | | | | | This function is implementaion-dependent. It does not effect on interoperability. |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 69 | | | | When a mobile node receives a packet containing a Binding Refresh Request message , the mobile node has a Binding Update List entry for the source of the Binding Refresh Request, and the mobile node wants to retain its binding cache entry at the correspondent node, then the mobile node should start a return routability procedure. If the mobile node wants to have its binding cache entry removed it can either ignore the Binding Refresh Request and wait for the binding to time out, or it can at any time delete its binding from a correspondent node with an explicit binding update with zero lifetime and the care-of address set to the home address. If the mobile node does not know if it needs the binding cache entry, it can make the decision in an implementation dependent manner, such as based on available resources. | (do) | A | A2 | | | | | | |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 70 | | | | Note that the mobile node should be careful to not respond to Binding Refresh Requests for addresses not in the Binding Update List to avoid being subjected to a denial of service attack. | (do) | A | A2 | | | | | Binding Refresh Request |
| 71 | | | | If the return routability procedure completes successfully, a Binding Update message **SHOULD** be sent, as described in Section 11.7.2. | SHOULD | A | A2 | | | | | Return Routability |
| 72 | | | | The Lifetime field in this Binding Update **SHOULD** be set to a new lifetime, extending any current lifetime remaining from a previous Binding Update sent to this node (as indicated in any existing Binding Update List entry for this node), | SHOULD | A | A2 | | | | | Return Routability |
| 73 | | | | and the lifetime **SHOULD** again be less than or equal to the remaining lifetime of the home registration and the care-of address specified for the binding. | SHOULD | A | A2 | | | | | Return Routability |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 74 | | | | When sending this Binding Update, the mobile node **MUST** update its Binding Update List in the same way as for any other Binding Update sent by the mobile node. | MUST | A | A2 | | | | | Return Routability |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 1 | 11.8 | Retransmissions and Rate Limiting | Decision of initial timer value | If the mobile node is sending a Mobile Prefix Solicitation, it **SHOULD** use an initial retransmission interval of INITIAL_SOLICIT_TIMER (see Section 12). | SHOULD | A | A2 | | | X | *NEMO-MR-4-1-1-1-004* | rate limiting of retransmission |
| 2 | | | | If the mobile node is sending a Binding Update and does not have an existing binding at the home agent, it **SHOULD** use InitialBindackTimeoutFirstReg (see Section 13) as a value for the initial retransmission timer. | SHOULD | A | A2 | | | X | *NEMO-MR-2-1-1-1-013* *NEMO-MR-2-1-1-1-008* | rate limiting of retransmission |
| 4 | | | | Otherwise, the mobile node should use the specified value of INITIAL_BINDACK_TIMEOUT for the initial retransmission timer. | (do) | A | A2 | | | X | *NEMO-MR-2-1-2-1-006* | rate limiting of retransmission |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 5 | | | Stop Condition of retransmitions | If the mobile node fails to receive a valid matching response within the selected initial retransmission interval, the mobile node **SHOULD** retransmit the message until a response is received. | SHOULD | A | -> | A1 | A2 | X | *NEMO-MR-4-1-1-1-004 NEMO-MR-2-1-1-1-013 NEMO-MR-2-1-2-1-006* | rate limiting of retransmission |
| 6 | | | | The retransmissions by the mobile node **MUST** use an exponential back-off process in which the timeout period is doubled upon each retransmission, until either the node receives a response or the timeout period reaches the value MAX_BINDACK_TIMEOUT. | MUST | A | -> | A1 | A2 | X | *NEMO-MR-4-1-1-1-004 NEMO-MR-2-1-1-1-013 NEMO-MR-2-1-2-1-006* | rate limiting of retransmission |
| 7 | | | | The mobile node **MAY** continue to send these messages at this slower rate indefinitely. | MAY | C | - | | | | | rate limiting of retransmission |

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| | | | | | | | | HA | CN | supported | Test No. | |
| 8 | | | | The mobile node **SHOULD** start a separate back-off process for different message types, different home addresses and different care-of addresses. | SHOULD | A | A2 | | | | | rate limiting of retransmission |
| 10 | | | Rate Limittng | The mobile node **MUST NOT** send Mobility Header messages of a particular type to a particular correspondent node more than MAX_UPDATE_RATE times within a second. | MUST NOT | A | A2 | | | | | rate limiting of retransmission |
| 11 | | | Change in sequence number | Retransmitted Binding Updates **MUST** use a Sequence Number value greater than that used for the previous transmission of this Binding Update. | MUST | A | -> | A1 | A2 | X | *NEMO-MR-2-1-1-1-013 NEMO-MR-2-1-2-1-006* | rate limiting of retransmission |
| 12 | | | Change in Home Init Cookie/Care-of Init Cookie | Retransmitted Home Test Init and Care-of Test Init messages **MUST** use new cookie values. | MUST | A | A2 | | | | | rate limiting of retransmission |

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| | | | | | | | | Supported | Test No. | |
| 1 | 4.1 | Mandatory Support | The following requirements apply to both home agents and mobile nodes: | Manual configuration of IPsec security associations **MUST** be supported.The configuration of the keys is expected to take placeout-of-band, for instance at the time the mobile node is configured to use its home agent. | MUST | A | A1 | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-2-2-1-1-001* | |
| 2 | | | | Automatic key management with IKE [4] **MAY** be supported. Only IKEv1 is discussed in this document. Other automatic key management mechanisms exist and will appear beyond IKEv1, but this document does not address the issues related to them. | MAY | B | B | | | IKE |
| 3 | | | | ESP encapsulation of Binding Updates and Acknowledgements between the mobile node and home agent **MUST** be supported and **MUST** be used. | MUST | A | A1 | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-2-2-1-1-001* | |

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| 4 | | | | | MUST | A | A1 | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-2-2-1-1-001* | |
| 5 | | | | ESP encapsulation of the Home Test Init and Home Test messages tunneled between the mobile node and home agent **MUST** be supported and **SHOULD** be used. | MUST | A | A2 | | | Return Routability |
| 6 | | | | | SHOULD | A | A2 | | | Return Routability |
| 7 | | | | ESP encapsulation of the ICMPv6 messages related to prefix discovery **MUST** be supported and **SHOULD** be used. | MUST | A | A2 | X | *NEMO-MR-4-1-1-1-001 NEMO-MR-4-2-1-1-001* | MPS/MPA |

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| | | | | | | | | Supported | Test No. | |
| 8 | | | | | SHOULD | A | A2 | X | *NEMO-MR-4-1-1-1-001 NEMO-MR-4-2-1-1-001* | MPS/MPA |
| 9 | | | | ESP encapsulation of the payload packets tunneled between the mobile node and home agent **MAY** be supported and used. | MAY | B | B | | | IPsec protectoin of the payload packets tunneled between the mobile node and home agent |
| 10 | | | | If multicast group membership control protocols or stateful address autoconfiguration protocols are supported, payload data protection **MUST** be supported for those protocols. | MUST | A | A2 | | | Multicast |
| 11 | 4.2 | Policy Requirements | The following requirements apply to both home agents and mobile nodes: | As required in the base specification [7], when a packet destined to the receiving node is matched against IPsec security policy or selectors of a security association, an address appearing in a Home Address destination option is considered as the source address of the packet. | (do) | A | A1/A2 | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-4-1-1-1-001* | BU : A1<br>MPS : A2 |

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| | | | | | | | | Supported | Test No. | |
| 12 | | | | Similarly, a home address within a Type 2 Routing header destined to the receiving node is considered as the destination address of the packet, when a packet is matched against IPsec security policy or selectors of a security association. | (do) | A | A1/A2 | X | *NEMO-MR-2-2-1-1-001* *NEMO-MR-4-2-1-1-001* | BA : A1<br>MPA : A2 |
| 13 | | | | Similar implementation considers apply to the Routing header processing as was described above for the Home Address destination option. | (do) | A | A1/A2 | X | *NEMO-MR-2-2-1-1-001* *NEMO-MR-4-2-1-1-001* | BA : A1<br>MPA : A2 |
| 14 | | | | When IPsec is used to protect return routability signaling or payload packets, this protection **MUST** only be applied to the return routability packets entering the IPv6 encapsulated tunnel interface between the mobile node and the home agent. This can be achieved, for instance, by defining the security policy database entries specifically for the tunnel interface. That is, the policy entries are not generally applied on all traffic on the physical interface(s) of the nodes, but rather only on traffic that enters this tunnel. | MUST | A | A2 | | | Return Routability<br>IPsec Protection of the payload packets tunneled between MN and HA |

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| | | | | | | | | Supported | Test No. | |
| 15 | | | | The authentication of mobile nodes **MAY** be based either on machine or user credentials. Note that multi-user operating systems typically allow all users of a node to use any of the IP addresses assigned to the node. This limits the capability of the home agent to restrict the use of a home address to a particular user in such environment. Where user credentials are applied in a multi-user environment, the configuration should authorize all users of the node to control all home addresses assigned to the node. | MAY | B | B | | | Machine / user credentials |
| 16 | | | | When the mobile node returns home and de-registers with the Home Agent, the tunnel between the home agent and the mobile node's care-of address is torn down. The security policy entries, which were used for protecting tunneled traffic between the mobile node and the home agent **MUST** be made inactive (for instance, by removing them and installing them back later through an API). The | MUST | A | A2 | | | Returning Home |

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| | | | | | | | | Supported | Test No. | |
| 17 | | | | back later through an API). The corresponding security associations could be kept as they are or deleted depending on how they were created. If the security associations were created dynamically using IKE, they are automatically deleted when they expire. If the security associations were created through manual configuration, they **MUST** be retained and used later when the mobile node moves aways from home again. The security associations protecting Binding Updates and Acknowledgements, and prefix discovery **SHOULD NOT** be deleted as they do not depend on care-of addresses and can be used again. | MUST | A | A2 | X | NEMO-MR-1-1-2-1-001 | Returning Home |
| 18 | | | | | SHOULD NOT | A | A2 | X | *NEMO-MR-1-1-2-1-001 NEMO-MR-1-2-1-1-025 NEMO-MR-1-2-1-1-022 NEMO-MR-1-2-1-1-024* | Returning Home |
| 19 | | | The following rules apply to mobile nodes: | The mobile node **MUST** use the Home Address destination option in Binding Updates and Mobile Prefix Solicitations, sent to the home agent from a care-of address. | MUST | A | A1/A2 | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-4-1-1-1-001* | BU : A1<br>MPS : A2 |

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| | | | | | | | | Supported | Test No. | |
| 20 | 4.3 | IPsec Protocol Processing | The following requirements apply to both home agents and mobile nodes: | When securing Binding Updates, Binding Acknowledgements, and prefix discovery, both the mobile nodes and the home agents **MUST** support and **SHOULD** use the Encapsulating Security Payload (ESP) [3] header in transport mode and **MUST** use a non-null payload authentication algorithm to provide data origin authentication, connectionless integrity and optional anti-replay protection. | MUST | A | A1/A2 | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-2-2-1-1-001 NEMO-MR-4-1-1-1-001 NEMO-MR-4-2-1-1-001* | BU/BA : A1<br>MPS/MPA : A2 |
| 21 | | | | | SHOULD | A | A1/A2 | X | *NEMO-MR-2-1-1-1-001 NEMO-MR-2-2-1-1-001 NEMO-MR-4-1-1-1-001 NEMO-MR-4-2-1-1-001* | BU/BA : A1<br>MPS/MPA : A2 |

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| | | | | | | | | Supported | Test No. | |
| 22 | | | | | MUST | A | A1/A2 | X | *NEMO-MR-2-1-1-1-001* *NEMO-MR-2-2-1-1-001* *NEMO-MR-4-1-1-1-001* *NEMO-MR-4-2-1-1-001* | BU/BA : A1<br>MPS/MPA : A2 |
| 23 | | | | Tunnel mode IPsec ESP **MUST** be supported and **SHOULD** be used for the protection of packets belonging to the return routability procedure. A non-null encryption transform and a non-null authentication algorithm **MUST** be applied. | MUST | A | A2 | | | HoTI/HoT |
| 24 | | | | | SHOULD | A | A2 | | | HoTI/HoT |
| 25 | | | | | MUST | A | A2 | | | HoTI/HoT |

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| | | | | | | | | Supported | Test No. | |
| 26 | | | The following rules apply to mobile nodes: | When ESP is used to protect Binding Updates, there is no protection for the care-of address which appears in the IPv6 header outside the area protected by ESP. It is important for the home agent to verify that the care-of address has not been tampered with. As a result, the attacker would have redirected the mobile node's traffic to another address. In order to prevent this, Mobile IPv6 implementations **MUST** use the Alternate Care-of Address mobility option in Binding Updates sent by mobile nodes while away from home. The exception to this is when the mobile node returns home and sends a Binding Update to the home agent in order to de-register. In this case no Alternate Care-of Address option is needed, as described in Section 3.1. | MUST | A | A1 | X | *NEMO-MR-2-1-1-1-001* | |

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| | | | | | | | | Supported | Test No. | |
| 27 | | | | When IPsec is used to protect return routability signaling or payload packets, the mobile node **MUST** set the source address it uses for the outgoing tunnel packets to the current primary care-of address. The mobile node starts to use a new primary care-of address immediately after sending a Binding Update to the home agent to register this new address. Similarly, it starts to use the new address as the required destination address of tunneled packets received from the home agent. | MUST | A | A2 | | | HoTI/HoT<br>IPsec for the protection of payload packets |

| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 28 | 4.4 | Dynamic Keying | The following requirements apply to both home agents and mobile nodes: | If anti-replay protection is required, dynamic keying **MUST** be used. IPsec can provide anti-replay protection only if dynamic keying is used (which may not always be the case). IPsec also does not guarantee correct ordering of packets, only that they have not been replayed. Because of this, sequence numbers within the Mobile IPv6 messages are used to ensure correct ordering. However, if the 16 bit Mobile IPv6 sequence number space is cycled through, or the home agent reboots and loses its state regarding the sequence numbers, replay and reordering attacks become possible. The use of dynamic keying, IPsec anti-replay protection, and the Mobile IPv6 sequence numbers can together prevent such attacks. | MUST | A | A2 | X | *NEMO-MR-1-2-1-1-001* | IKE |

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| | | | | | | | | Supported | Test No. | |
| 29 | | | | If IKE version 1 is used with preshared secrets in main mode, it determines the shared secret to use from the IP address of the peer. With Mobile IPv6, however, this may be a care-of address and does not indicate which mobile node attempts to contact the home agent. Therefore, if preshared secret authentication is used in IKEv1 between the mobile node and the home agent then aggressive mode **MUST** be used. Note also that care needs to be taken with phase 1 identity selection. Where the ID_IPV6_ADDR Identity Payloads is used, unambiguous mapping of identities to keys is not possible. (The next version of IKE may not have these limitations.) | MUST | A | A2 | X | *NEMO-MR-1-2-1-1-001* | IKE |
| 30 | | | The following rules apply to mobile nodes: | In addition to the rules above, if dynamic keying is used, the key management protocol **MUST** use the care-of address as the source address in the protocol exchanges with the mobile node's home agent. | MUST | A | A2 | X | *NEMO-MR-1-2-1-1-001* | IKE |

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| | | | | | | | | Supported | Test No. | |
| 31 | | | | However, the IPsec security associations with the mobile node's home agent use home addresses. That is, the IPsec security associations **MUST** be requested from the key management protocol using the home address of the mobile node as the client identity. | MUST | A | A2 | X | *NEMO-MR-1-2-1-1-001* | IKE |
| 32 | | | | The security associations for protecting Binding Updates and Acknowledgements are requested for the Mobility header protocol in transport mode and for specific IP addresses as endpoints. No other selectors are used. Similarly, the security associations for protecting prefix discovery are requested for the ICMPv6 protocol and the specific IP addresses, again without other selectors. Security associations for payload and return routability protection are requested for a specific tunnel interface and either the payload protocol or the Mobility header protocol, in tunnel mode. In this case one requested endpoint is an IP address and the other one is a wildcard, and there are no other selectors. | (do) | A/B | A1/A2/B | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-4-1-1-1-001<br>NEMO-MR-4-2-1-1-001 | BU/BA : A1<br>MPS/MPA, HoTI/HoT : A2<br>IPsec Protection of the payload packets tunneled between MN and HA : B |

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| | | | | | | | | Supported | Test No. | |
| 33 | | | | If the mobile node has used IKE version 1 to establish security associations with its home agent, it should follow the procedures discussed in Section 11.7.1 and 11.7.3 of the base specification [7] to determine whether the IKE endpoints can be moved or if IKE phase 1 has to be re-established. | (do) | A | A2 | X | *NEMO-MR-1-2-1-1-012* *NEMO-MR-1-2-1-1-014* | IKE |

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| No. | RFC Section | RFC Section title | Item | Functional Specification | RFC Status | Functional Rank | Test Priority | Test PROFILE | | Reason of TEST Priority |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 1 | 3 | Packet Formats | | The mobile node and the home agent **MUST** support the packet formats as defined in Section 3 of RFC 3776. | MUST | A | A1 | | | (generalization) |
| 2 | | | | The support for the above tunneled packet format is optional on the mobile node and the home agent. | (do) | B | B | | | all traffic in tunnel mode |
| 3 | 4.1 | General Requirements | | RFC 3775 states that manual configuration of IPsec security associations **MUST** be supported, and automated key management **MAY** be supported. | MUST | A | A1 | | | (generalization) |
| 4 | | | | | MAY | B | B | | | IKEv2 |
| 5 | | | | ESP encapsulation for Binding Updates and Binding Acknowledgements **MUST** be supported and used. | MUST | A | A1/A2 | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-2-1-3-1-001<br>NEMO-MR-2-2-2-1-001 | fine-grain selectors (BU/BA) |
| 6 | | | | ESP encapsulation in tunnel mode for the Home Test Init (HoTi) and Home Test (HoT) messages tunneled between the mobile node and the home agent **MUST** be supported and **SHOULD** be used. | MUST/ SHOULD | - | - | | NEMO-MR-3-1-1-2-001<br>NEMO-MR-3-2-1-2-001 | fine-grain selectors (HoTI/HoT) |
| 7 | | | | ESP encapsulation of the ICMPv6 messages related to mobile prefix discovery **MUST** be supported and **SHOULD** be used. | MUST/ SHOULD | A | A2 | X | NEMO-MR-4-1-1-1-002<br>NEMO-MR-4-2-1-1-001 | fine-grain selectors (MPS/MPA) |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 8 | | | | ESP encapsulation of the payload packets tunneled between the mobile node and the home agent **MAY** be supported and used. | MAY | B | B | | | ESP encapsulation of the payload packets |
| 9 | | | | If multicast group membership control protocols or stateful address autoconfiguration protocols are supported, payload data protection **MUST** be supported for those protocols. | MUST | A | A2 | | | multicast group membership control protocols |
| 10 | | | | The home agent and the mobile node **MAY** support authentication using EAP in IKEv2 as described in Section 8. | MAY | B | B | | | IKEv2 |
| 11 | | | | The home agent and the mobile node MAY support remote configuration of the home address as described in Section 9. When the home agent receives a configuration payload with a CFG_REQUEST for INTERNAL_IP6_ADDRESS, it must reply with a valid home address f | MAY | B | B | | | IKEv2 |

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| | | | | | | | | Supported | Test No. | |
| 12 | 4.2 | Policy Requirements | | The home agent **MUST** be able to prevent a mobile node from using its security association to send a Binding Update on behalf of another mobile node. | MUST | A | A1 | | | (Setting of IPsec configuration) |
| 13 | | | | With manual IPsec configuration, the home agent **MUST** be able to verify that a security association was created for a particular home address. | MUST | A | A1 | | | (Setting of IPsec configuration) |
| 14 | | | | With dynamic keying, the home agent **MUST** be able to verify that the identity presented in the IKE_AUTH exchange is allowed to create security associations for a particular home address. | MUST | A | A2 | | | IKEv2 |
| 15 | | | | As required in the base specification [2], when a packet destined to the receiving node is matched against IPsec security policy or selectors of a security association, an address appearing in a Home Address destination option is considered as the source | (do) | A | A1 | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-3-1-001 | |

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| | | | | | | | | Supported | Test No. | |
| 16 | | | | Similar implementation considerations apply to the Routing header processing as was described above for the Home Address destination option. | (do) | A | A1 | X | NEMO-MR-2-2-1-1-001<br>NEMO-MR-2-2-2-1-001 | |
| 17 | | | | The security policy entries, which were used for protecting tunneled traffic between the mobile node and the home agent, **SHOULD** be made inactive (for instance, by removing them and installing them back later through an API). | SHOULD | A | A2 | | | Real home link |
| 18 | | | | If the security associations were created dynamically using IKE, they are automatically deleted when they expire. | (do) | B | B | | | IKEv2 |
| 19 | | | | If the security associations were created through manual configuration, they **MUST** be retained and used later when the mobile node moves away from home again. | MUST | A | A2 | | NEMO-MR-1-1-2-1-001 | tunnel traffic IPsec manual configuration (Scenario Test) |
| 20 | | | | The security associations protecting Binding Updates, Binding Acknowledgements and Mobile Prefix Discovery messages SHOULD NOT be deleted as they do not depend on care-of addresses and can be used again. | SHOULD NOT | A | A1/A2 | | NEMO-MR-1-1-2-1-001 | A1:BU/BA<br>A2:MPS/MPA<br>(Scenario Test) |

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| | | | | | | | | Supported | Test No. | |
| 21 | | | | The mobile node **MUST** use the Home Address destination option in Binding Updates and Mobile Prefix Solicitations when transport mode IPsec protection is used, so that the home address is visible when the IPsec policy checks are made. | MUST | A | A1/A2 | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-3-1-001<br>NEMO-MR-4-1-1-1-002 | A1:BU/BA<br>A2:MPS/MPA |
| 22 | | | | The home agent MUST use the Type 2 Routing header in Binding Acknowledgements and Mobile Prefix Advertisements sent to the mobile node when transport mode IPsec protection is used, again due to the need to have the home address visible when the policy che | MUST | A | A1/A2 | X | NEMO-MR-2-2-1-1-001<br>NEMO-MR-2-2-2-1-001<br>NEMO-MR-4-2-1-1-001 | A1:BU/BA<br>A2:MPS/MPA |
| 23 | 4.3 | IPsec Protocol Processing Requirements | | The home agent and mobile node **SHOULD** support Mobility Header message type as an IPsec selector. | SHOULD | A | A2 | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-3-1-001<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-2-2-2-1-001<br>NEMO-MR-3-1-1-2-001 | fine-grain selectors |
| 24 | | | | The home agent and mobile node **SHOULD** support ICMPv6 message type as an IPsec selector. | SHOULD | A | A2 | X | NEMO-MR-4-1-1-1-002<br>NEMO-MR-4-2-1-1-001 | fine-grain selectors |
| 25 | | | | The home agent **MUST** be able to distinguish between HoTi messages sent to itself (when it is acting as a Correspondent Node) and those sent to Correspondent Nodes (when it is acting as a home agent) based on the destination address of the packet. | MUST | A | A2 | | | HoTI/HoT |

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| | | | | | | | | Supported | Test No. | |
| 26 | | | | When securing Binding Updates, Binding Acknowledgements, and Mobile Prefix Discovery messages, both the mobile node and the home agent MUST support the use of the Encapsulating Security Payload (ESP) [6] header in transport mode and MUST use a non-null pa | MUST | A | A1/A2 | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-4-1-1-1-002<br>NEMO-MR-4-2-1-1-001 | A1:BU/BA<br>A2:MPS/MPA |
| 27 | | | | | MUST | A | A1/A2 | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-2-1-1-001<br>NEMO-MR-4-1-1-1-002<br>NEMO-MR-4-2-1-1-001 | A1:BU/BA<br>A2:MPS/MPA |
| 28 | | | | Tunnel mode IPsec ESP **MUST** be supported and **SHOULD** be used for the protection of packets belonging to the return routability procedure. A non-null encryption transform and a non-null authentication algorithm **MUST** be applied. | MUST | - | - | - | NEMO-MR-3-1-1-2-001<br>NEMO-MR-3-2-1-2-001 | HoTI/HoT |
| 29 | | | | | SHOULD | - | - | - | NEMO-MR-3-1-1-2-001<br>NEMO-MR-3-2-1-2-001 | HoTI/HoT |
| 30 | | | | | MUST | - | - | - | NEMO-MR-3-1-1-2-001<br>NEMO-MR-3-2-1-2-001 | HoTI/HoT |

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| | | | | | | | | Supported | Test No. | |
| 31 | | | | In order to prevent this, Mobile IPv6 implementations MUST use the Alternate Care-of Address mobility option in Binding Updates sent by mobile nodes while away from home.The exception to this is when the mobile node returns home and sends a Binding Update | MUST | A | A1 | X | NEMO-MR-2-1-1-1-001<br>NEMO-MR-2-1-2-1-001 | |
| 32 | | | | The exception to this is when the mobile node returns home and sends a Binding Update to the home agent in order to de-register. | (do) | A | A1 | X | NEMO-MR-2-1-3-1-001 | Real home link for HA |
| 33 | | | | When IPsec is used to protect return routability signaling or payload packets, the mobile node **MUST** set the source address it uses for the outgoing tunnel packets to the current primary care- of address. | MUST | - | - | - | NEMO-MR-3-1-1-2-001<br>NEMO-MR-3-1-2-2-004 | RR |
| 34 | | | | The home agent MUST set the new care-of address as the destination address of these packets, as if the outer header destination address in the security association had changed. Similarly, the home agent starts to expect the new source address in the tunne | MUST | - | - | - | NEMO-MR-3-1-2-2-004 | RR |

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| | | | | | | | | Supported | Test No. | |
| 35 | | | | It should be noted that the use of such an API and the address changes **MUST** only be done based on the Binding Updates received by the home agent and protected by the use of IPsec. | MUST | A | A1 | - | | depend on implementation |
| 36 | 4.4 | Dynamic Keying Requirements | | The mobile node **MUST** use its care-of address as source address in protocol exchanges, when using dynamic keying. | MUST | A | A2 | | | dynamic keying |
| 37 | | | | The mobile node and the home agent MUST create security associations based on the home address, so that the security associations survive change in care-of address. When using IKEv2 as the key exchange protocol, the home address should be carried as the i | MUST | A | A2 | | | dynamic keying |
| 38 | | | | If the mobile node has used IKEv2 to establish security associations with its home agent, it should follow the procedures discussed in Section 11.7.1 and 11.7.3 of the base specification [2] to determine whether the IKE endpoints can be moved or if the SA | (do) | B | B | | | IKEv2 |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Supported | Test No. | |
| 39 | | | | If the home agent has used IKEv2 to establish security associations with the mobile node, it should follow the procedures discussed in Section 10.3.1 and 10.3.2 of the base specification [2] to determine whether the IKE endpoints can be moved or if the SA | (do) | B | B | | | IKEv2 |
| 40 | 5 | Selector Granularity Considerations | | The IPsec implementations on the mobile node and the home agent support fine grain selectors, including the Mobility Header message type. This is the case assumed in the IPsec SPD and SAD examples in this document. | (do) | A | A2 | | | fine-grain selectors (generalization) |
| 41 | | | | The IPsec implementations only support selectors at a protocol level. In such implementations, the IPsec implementation can only identify mobility header traffic and cannot identify the individual mobility header messages. In this case, the protection o | (do) | A | A1 | | | Basic (generalization) |

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| | | | | | | | | Supported | Test No. | |
| 42 | | | | The third case is where the protocol selector is not available in the IPsec implementation. In this case all traffic sent by the mobile node reverse tunneled through the home agent is protected using ESP in tunnel mode. This case is also applicable when | (do) | B | B | | | out of scope in IPv6 Ready Logo program for NEMO |
| 43 | | | | If there is just one IPsec SA providing protection for all traffic, then the SA MUST fulfill the requirements for protecting protection. If the third case is being used for privacy considerations, then there can also be separate tunnel mode SPD entries f | MUST | A | A2 | | | out of scope in IPv6 Ready Logo program for NEMO |

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| | | | | | | | | Supported | Test No. | |
| 44 | | | | The receipt of a Binding Update from the new care-of address updates the tunnel endpoint of the IPsec SA as described in Section 4.3. Since the Binding Update that updates the tunnel endpoint is received through the same tunnel interface that needs to be | (do) | B | B | | | out of scope in IPv6 Ready Logo program for NEMO |

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