

Appendix. Checking of items assigned as Basic and Advanced Functions

Table 1. Checking of items assigned as Basic Function and Advanced Function (NEMO-HA)

Selection	Function	Self Test Specification Number		Note Depending on the implementation, the operation is tested.
		Real Home Link	Virtual Home Link	
*1 O	Basic Function (Priority A1)  - Mobile network prefix registration supporting NEMO extended home network supporting HoA (from HNP) supporting all of { implicit mode explicit mode } - IPv6 encapsulation and decapsulation - IPsec ESP(BU and BA) - Nested mobility	NEMO-HA_0_0_0	NEMO-HA_0_0_0	
		NEMO-HA_1_1_3	NEMO-HA_1_1_8	
		NEMO-HA_2_1_1	NEMO-HA_2_1_5	
		NEMO-HA_2_1_2	NEMO-HA_2_1_6	
		NEMO-HA_2_1_14	NEMO-HA_2_1_15	
		NEMO-HA_2_1_3	NEMO-HA_2_1_7	
		NEMO-HA_2_1_4	NEMO-HA_2_1_8	
		NEMO-HA_2_2_3	NEMO-HA_2_2_6	
		NEMO-HA_2_2_7	NEMO-HA_2_2_8	
		NEMO-HA_2_2_13	NEMO-HA_2_2_14	
		NEMO-HA_2_5_1	NEMO-HA_2_5_3	
		NEMO-HA_2_5_5	NEMO-HA_2_5_7	
		NEMO-HA_2_5_2	NEMO-HA_2_5_4	
		NEMO-HA_2_7_1	NEMO-HA_2_7_3	
		NEMO-HA_2_7_2	NEMO-HA_2_7_4	
		NEMO-HA_2_6_1	NEMO-HA_2_6_7	
		NEMO-HA_2_6_4	NEMO-HA_2_6_10	
		NEMO-HA_2_6_2	NEMO-HA_2_6_8	
		NEMO-HA_2_6_3	NEMO-HA_2_6_9	
		NEMO-HA_2_8_1	NEMO-HA_2_8_7	
		NEMO-HA_2_8_2	NEMO-HA_2_8_8	
		NEMO-HA_2_8_3	NEMO-HA_2_8_9	
		NEMO-HA_2_9_1	NEMO-HA_2_9_11	Explicit Mode
		NEMO-HA_2_9_2	NEMO-HA_2_9_12	Explicit Mode
		NEMO-HA_2_9_3	NEMO-HA_2_9_13	Explicit Mode
		NEMO-HA_2_9_4	NEMO-HA_2_9_14	Explicit Mode
		NEMO-HA_2_9_5	NEMO-HA_2_9_15	Explicit Mode
		NEMO-HA_2_12_1	NEMO-HA_2_12_4	Implicit Mode
		NEMO-HA_2_10_1	NEMO-HA_2_10_7	
		NEMO-HA_2_10_6	NEMO-HA_2_10_12	
		NEMO-HA_2_11_1	NEMO-HA_2_11_11	Explicit Mode
		NEMO-HA_2_11_4	NEMO-HA_2_11_14	Explicit Mode
		NEMO-HA_2_11_5	NEMO-HA_2_11_15	Explicit Mode
		NEMO-HA_2_11_7	NEMO-HA_2_11_17	Explicit Mode
		NEMO-HA_2_11_8	NEMO-HA_2_11_18	Explicit Mode
		NEMO-HA_2_11_9	NEMO-HA_2_11_19	Explicit Mode
		NEMO-HA_3_1_1	NEMO-HA_3_1_11	
		NEMO-HA_3_1_6	NEMO-HA_3_1_12	
		NEMO-HA_3_2_1	NEMO-HA_3_2_11	
		NEMO-HA_3_2_6	NEMO-HA_3_2_12	
		NEMO-HA_3_4_1	NEMO-HA_3_4_16	
		NEMO-HA_3_4_2	NEMO-HA_3_4_17	
		NEMO-HA_3_4_4	NEMO-HA_3_4_19	
		NEMO-HA_5_1_1	NEMO-HA_5_1_5	
		NEMO-HA_5_1_4	NEMO-HA_5_1_6	
		NEMO-HA_5_1_3	NEMO-HA_5_1_7	
		NEMO-HA_5_2_1	NEMO-HA_5_2_5	Home Address derived from the Home Network Prefix
		NEMO-HA_5_2_2	NEMO-HA_5_2_6	Home Address derived from the Home Network Prefix
		NEMO-HA_5_3_5	NEMO-HA_5_3_9	Home Address derived from the Home Network Prefix
		NEMO-HA_5_3_6	NEMO-HA_5_3_10	Home Address derived from the Home Network Prefix
		NEMO-HA_5_4_1	NEMO-HA_5_4_3	Implicit Mode
		NEMO-HA_5_4_2	NEMO-HA_5_4_4	Implicit Mode
		NEMO-HA_5_4_5	NEMO-HA_5_4_12	Explicit Mode
		NEMO-HA_5_4_7	NEMO-HA_5_4_14	Explicit Mode
		NEMO-HA_5_4_6	NEMO-HA_5_4_13	Explicit Mode
		NEMO-HA_5_4_8	NEMO-HA_5_4_15	Explicit Mode
		NEMO-HA_5_4_9	NEMO-HA_5_4_16	Explicit Mode
		NEMO-HA_5_4_10	NEMO-HA_5_4_17	Explicit Mode
		NEMO-HA_5_4_11	NEMO-HA_5_4_18	Explicit Mode
		NEMO-HA_5_5_1	NEMO-HA_5_5_4	
		NEMO-HA_5_5_3	NEMO-HA_5_5_6	
		NEMO-HA_6_1_1	NEMO-HA_6_1_3	
		NEMO-HA_6_1_2	NEMO-HA_6_1_4	
		NEMO-HA_6_2_1	NEMO-HA_6_2_2	
		NEMO-HA_6_4_1	NEMO-HA_6_4_5	Home Address derived from the Home Network Prefix
		NEMO-HA_6_4_2	NEMO-HA_6_4_6	Home Address derived from the Home Network Prefix
		NEMO-HA_6_5_1	NEMO-HA_6_5_5	Home Address derived from the Home Network Prefix
		NEMO-HA_6_5_2	NEMO-HA_6_5_6	Home Address derived from the Home Network Prefix
		NEMO-HA_6_6_1	NEMO-HA_6_6_3	Implicit Mode
		NEMO-HA_6_6_2	NEMO-HA_6_6_4	Implicit Mode
		NEMO-HA_6_6_5	NEMO-HA_6_6_12	Explicit Mode
		NEMO-HA_6_6_7	NEMO-HA_6_6_14	Explicit Mode
		NEMO-HA_6_6_6	NEMO-HA_6_6_13	Explicit Mode
		NEMO-HA_6_6_8	NEMO-HA_6_6_15	Explicit Mode
		NEMO-HA_6_6_9	NEMO-HA_6_6_16	Explicit Mode
		NEMO-HA_6_6_10	NEMO-HA_6_6_17	Explicit Mode
		NEMO-HA_6_6_11	NEMO-HA_6_6_18	Explicit Mode
		NEMO-HA_6_7_1	NEMO-HA_6_7_2	
		NEMO-HA_6_7_3	NEMO-HA_6_7_4	
		NEMO-HA_6_7_5	NEMO-HA_6_7_7	Explicit Mode
		NEMO-HA_6_7_6	NEMO-HA_6_7_8	Explicit Mode
		NEMO-HA_9_1_1	NEMO-HA_9_1_17	
		NEMO-HA_9_1_2	NEMO-HA_9_1_18	
		NEMO-HA_9_1_3	NEMO-HA_9_1_19	
		NEMO-HA_9_1_4	NEMO-HA_9_1_20	
		NEMO-HA_9_1_5	NEMO-HA_9_1_21	
		NEMO-HA_9_1_6	NEMO-HA_9_1_22	
		NEMO-HA_9_1_7	NEMO-HA_9_1_23	
		NEMO-HA_9_1_8	NEMO-HA_9_1_24	
		NEMO-HA_9_1_9	NEMO-HA_9_1_25	
		NEMO-HA_9_1_10	NEMO-HA_9_1_26	
		NEMO-HA_9_1_11	NEMO-HA_9_1_27	





**Table 2. Checking of items assigned as Basic Function and Advanced Function (MR)**

Selection	Function		Self Test Specification number		Note
			Real Home Link	Virtual Home Link	
*1	Basic Function (Priority A1)  - Mobile network prefix registration supporting NEMO extended home network supporting HoA(from HNP) supporting any one of { implicit mode explicit mode } - IPv6 encapsulation and decapsulation - IPsec ESP(BU and BA) - Movement detection, care-of address formation, and visiting of foreign links - Nested mobility  * Advanced Function (priority A2) - Mobile network prefix registration supporting all of { implicit mode explicit mode }		NEMO-MR-3-2-1-1-001 NEMO-MR-3-3-1-1-003 NEMO-MR-3-3-1-1-005 NEMO-MR-3-3-1-1-002 NEMO-MR-3-3-1-1-004 NEMO-MR-2-1-1-1-001 NEMO-MR-2-1-1-1-002 NEMO-MR-2-1-1-1-004 NEMO-MR-2-1-1-1-006 NEMO-MR-2-1-1-1-008 NEMO-MR-2-1-1-1-013 NEMO-MR-2-2-1-1-001 NEMO-MR-2-2-1-1-039 NEMO-MR-2-2-1-1-014 NEMO-MR-2-2-1-1-020 NEMO-MR-2-2-1-1-026 NEMO-MR-2-2-1-1-003 NEMO-MR-2-2-1-1-010 NEMO-MR-2-2-1-1-043 NEMO-MR-2-2-1-1-045  NEMO-MR-2-2-1-1-047  NEMO-MR-2-2-1-1-050  NEMO-MR-2-2-1-1-052  NEMO-MR-2-2-1-1-055  NEMO-MR-2-2-1-1-058  NEMO-MR-2-2-1-1-016 NEMO-MR-2-2-1-1-017 NEMO-MR-2-2-1-1-038 NEMO-MR-2-1-2-1-001 NEMO-MR-2-1-2-1-004 NEMO-MR-2-1-2-1-006 NEMO-MR-6-2-1-1-003 NEMO-MR-6-2-1-1-004 NEMO-MR-4-1-1-2-001 NEMO-MR-4-1-2-2-006 NEMO-MR-2-1-1-4-002 NEMO-MR-2-1-1-4-005 NEMO-MR-2-1-1-4-012 NEMO-MR-2-1-1-4-013 NEMO-MR-2-2-1-4-006 NEMO-MR-2-2-1-4-013 NEMO-MR-2-2-1-4-014 NEMO-MR-2-2-1-4-015 NEMO-MR-2-2-1-4-016 NEMO-MR-2-2-1-4-017 NEMO-MR-2-2-1-4-018 NEMO-MR-1-2-1-4-010 NEMO-MR-1-2-1-4-011 NEMO-MR-1-2-1-4-012 NEMO-MR-1-2-1-4-006 NEMO-MR-1-1-1-4-003 NEMO-MR-1-1-1-4-007 NEMO-MR-1-1-1-4-009 NEMO-MR-1-4-1-4-006 NEMO-MR-1-4-1-4-007 NEMO-MR-1-4-1-4-009 NEMO-MR-1-4-1-4-010 NEMO-MR-1-3-2-4-010 NEMO-MR-1-3-2-4-007	NEMO-MR-3-2-1-1-001 NEMO-MR-3-3-1-1-003 NEMO-MR-3-3-1-1-005 NEMO-MR-3-3-1-1-002 NEMO-MR-3-3-1-1-004 NEMO-MR-2-1-1-1-001 NEMO-MR-2-1-1-1-002 NEMO-MR-2-1-1-1-004 NEMO-MR-2-1-1-1-006 NEMO-MR-2-1-1-1-008 NEMO-MR-2-1-1-1-013 NEMO-MR-2-2-1-1-001 NEMO-MR-2-2-1-1-039 NEMO-MR-2-2-1-1-014 NEMO-MR-2-2-1-1-020 NEMO-MR-2-2-1-1-026 NEMO-MR-2-2-1-1-003 NEMO-MR-2-2-1-1-010 NEMO-MR-2-2-1-1-043 NEMO-MR-2-2-1-1-045  NEMO-MR-2-2-1-1-047  NEMO-MR-2-2-1-1-050  NEMO-MR-2-2-1-1-052  NEMO-MR-2-2-1-1-055  NEMO-MR-2-2-1-1-058  NEMO-MR-2-2-1-1-016 NEMO-MR-2-2-1-1-017 NEMO-MR-2-2-1-1-038 NEMO-MR-2-1-2-1-001 NEMO-MR-2-1-2-1-004 NEMO-MR-2-1-2-1-006 NEMO-MR-6-2-1-1-003 NEMO-MR-6-2-1-1-004 NEMO-MR-4-1-1-2-001 NEMO-MR-4-1-2-2-006 NEMO-MR-2-1-1-4-002 NEMO-MR-2-1-1-4-005 NEMO-MR-2-1-1-4-012 NEMO-MR-2-1-1-4-013 NEMO-MR-2-2-1-4-006 NEMO-MR-2-2-1-4-013 NEMO-MR-2-2-1-4-014 NEMO-MR-2-2-1-4-015 NEMO-MR-2-2-1-4-016 NEMO-MR-2-2-1-4-017 NEMO-MR-2-2-1-4-018 NEMO-MR-1-2-1-4-010 NEMO-MR-1-2-1-4-011 NEMO-MR-1-2-1-4-012 NEMO-MR-1-2-1-4-006 NEMO-MR-1-1-1-4-003 NEMO-MR-1-1-1-4-007 NEMO-MR-1-1-1-4-009 NEMO-MR-1-4-1-4-006 NEMO-MR-1-4-1-4-007 NEMO-MR-1-4-1-4-009 NEMO-MR-1-4-1-4-010 NEMO-MR-1-3-2-4-010 NEMO-MR-1-3-2-4-007	Depending on the implementation, the operation is tested.  Home Address derived from the Home Network Prefix NUT does not set (K) bit in BU which is transmitted to HA  NUT re-transmits BU for valuable BA  NUT does not set (K) bit in BU which is transmitted to HA  NUT re-transmits BU for BA (status 128) NUT re-transmits BU for BA (status 135) NUT re-transmits BU for BA (status 140) NUT re-transmits BU for BA (status 141) Mode of Mobile Network Prefix Registration: IMPLICIT NUT re-transmits BU for BA (status 141) Mode of Mobile Network Prefix Registration: EXPLICIT NUT re-transmits BU for BA (status 142) Mode of Mobile Network Prefix Registration: IMPLICIT NUT re-transmits BU for BA (status 142) Mode of Mobile Network Prefix Registration: EXPLICIT NUT re-transmits BU for BA (status 143) Mode of Mobile Network Prefix Registration: IMPLICIT NUT re-transmits BU for BA (status 143) Mode of Mobile Network Prefix Registration: EXPLICIT NUT re-transmits BU for BA (status 135) NUT re-transmits BU for valuable BA NUT re-transmits BU for valuable BA  NUT re-transmits BU for valuable BA  Without Advanced Function (Return Routability)  Without Advanced Function(Return Routability)  Used IP-in-IP tunnel between LFN to MR Used IP-in-IP tunnel between LFN to MR Used IP-in-IP tunnel between LFN to MR Used IP-in-IP tunnel between LFN to MR
*2	Advanced Function (Priority A2)	Real Home Link	NEMO-MR-2-1-1-1-007 NEMO-MR-2-1-3-1-007 NEMO-MR-2-1-3-1-001 NEMO-MR-2-2-2-1-027 NEMO-MR-2-2-2-1-001 NEMO-MR-3-4-1-1-001 NEMO-MR-3-4-1-1-002 NEMO-MR-4-1-1-2-004 NEMO-MR-4-1-2-2-007 NEMO-MR-1-1-2-1-001 NEMO-MR-1-2-1-4-007 NEMO-MR-1-2-1-4-008 NEMO-MR-1-2-1-4-009 NEMO-MR-1-2-1-4-001 NEMO-MR-1-2-1-4-002 NEMO-MR-1-2-1-4-003 NEMO-MR-1-2-1-4-004 NEMO-MR-1-2-1-4-013 NEMO-MR-1-2-1-4-014 NEMO-MR-1-2-1-4-015 NEMO-MR-1-2-1-4-016 NEMO-MR-1-1-1-4-002 NEMO-MR-1-1-1-4-010 NEMO-MR-1-1-1-4-011 NEMO-MR-1-4-1-4-001 NEMO-MR-1-4-1-4-002 NEMO-MR-1-4-1-4-003	NEMO-MR-2-1-1-1-007 NEMO-MR-2-1-3-1-007 NEMO-MR-2-1-3-1-001 NEMO-MR-2-2-2-1-027 NEMO-MR-2-2-2-1-001 NEMO-MR-3-4-1-1-001 NEMO-MR-3-4-1-1-002 NEMO-MR-4-1-1-2-004 NEMO-MR-4-1-2-2-007 NEMO-MR-1-1-2-1-001 NEMO-MR-1-2-1-4-007 NEMO-MR-1-2-1-4-008 NEMO-MR-1-2-1-4-009 NEMO-MR-1-2-1-4-001 NEMO-MR-1-2-1-4-002 NEMO-MR-1-2-1-4-003 NEMO-MR-1-2-1-4-004 NEMO-MR-1-2-1-4-013 NEMO-MR-1-2-1-4-014 NEMO-MR-1-2-1-4-015 NEMO-MR-1-2-1-4-016 NEMO-MR-1-1-1-4-002 NEMO-MR-1-1-1-4-010 NEMO-MR-1-1-1-4-011 NEMO-MR-1-4-1-4-001 NEMO-MR-1-4-1-4-002 NEMO-MR-1-4-1-4-003	Home Address derived from the Home Network Prefix  Home Address derived from the Home Network Prefix  NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT send RA on the egress interface in Home Link NUT does not send RA on the egress interface in Home Link NUT does not send RA on the egress interface in Home Link NUT does not send RA on the egress interface in Home Link

