MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE: Q.704 § 3 Fig. 7, Fig. 36, Fig. 37, Fig. 38

TITLE:

SUBTITLE:

PURPOSE:

PRE–TEST CONDITIONS:

Signalling links deactivated

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:
ALL

MESSAGE SEQUENCE:

SP
A

SP
B

Link

1 – 1
:Activate

1 – 1

:Activate

<----------------
1 – 1 SLTM

1 – 1
SLTA
 ----------------->

1 – 1
SLTM
 ----------------->

<----------------
1 – 1 SLTA

:Start traffic

1 – 1
TRAFFIC
---------->

<----------
1 – 1 TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Check that the signalling link becomes available.

2.

Check the reception and sending of variable length messages on the activated linkset from/to the SP at the other end of this linkset (and, in case of VAT, from/to other SP crossing the SP at the other end of this linkset).

3.

Check that, after the alignment, the level 2 does not send any message received before or during the deactivation.

4.

Check that all messages are correctly received (no loss of messages, no duplication and no missequencing).

5.

Stop traffic.

6.

Repeat the test with different SLC values.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUBTITLE:

PURPOSE:

PRE–TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:

ALL

MESSAGE SEQUENCE:

SP
A

SP
B

Link

Link

1 – 1
Deactivate

TEST DESCRIPTION

1.

Check that the signalling linkset becomes unavailable.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUBTITLE:

PURPOSE:

PRE–TEST CONDITIONS:

CONFIGURATION:
A

TYPE OF TEST:
VAT, CPT

TYPE OF SP: ALL

MESSAGE SEQUENCE:

SP
A

SP B

Link

Link

1 – 1
:Activate

1 – 1
:Activate

1 – 2
:Activat

1 – 2
:Activate

1 – 3
:Activate

1 – 3
:Activate

1 – 4
:Activate

1 – 4
:Activate

:Start traffic

1 – 1
TRAFFIC
---------->

<----------
1 – 1
TRAFFIC

1 – 2
TRAFFIC
---------->

<----------
1 – 2
TRAFFIC

1 – 3
TRAFFIC
---------->

<----------
1 – 3
TRAFFIC

1 – 4
TRAFFIC
---------->

<----------
1 – 4
TRAFFIC

:Wait

:Stop traffic

Note – This test describes the activation of a linkset. The signalling link activation order is given simultaneously to all signalling links of the signalling linkset (Q.704 § 12.2.4.1). However, depending on in which order the links are getting aligned, changeback procedures will be performed. This test does not describe the transitory states (changeback procedure is checked in other tests).

TEST DESCRIPTION

1.

Check that the signalling links become available and start traffic between A and B (and A and C in VAT).

2.

Check the reception and sending of variable length messages on the activated linkset from/to the SP at the other end of this linkset (and, in case of VAT, from/to other SP crossing the SP at the other end of this linkset).

3.

Check that, after the alignment, the level 2 does not send any message received before or during the deactivation.

4.

Check that all messages are correctly received (no loss of messages, no duplication and no missequencing).

5.

Stop traffic.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE: Q.704 § 3 Fig. 24 § 2.4

TITLE:

SUBTITLE:

PURPOSE:

PRE–TEST CONDITIONS:

CONFIGURATION:
A

TYPE OF TEST: VAT

TYPE OF SP:

MESSAGE SEQUENCE:

SP

A

SP

B

Link

Link

<----------
1 – 1

:Invalid SLTM
:(invalid SSF)

TEST DESCRIPTION

1.

Send an SLTM with an erroneous SSF.

2.

Check that no response is received.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUBTITLE:

PURPOSE:

PRE–TEST CONDITIONS:

CONFIGURATION:
A

TYPE OF TEST: VAT

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

<----------
1 – 1

:Invalid ECO
:(erronenous DPC)

1 – 1 TFP

---------->

(only if the tested point A has an STP function)

TEST DESCRIPTION

1.

Send a ECO message with an erroneous DPC.

2.

Check that no response is received if the tested point has not STP function. If the tested point has the STP function, check that a TFP is received.

MTP LEVEL 3

TEST NUMBER:
2.3

PAGE:1 of 1

REFERENCE:
Q.704 § 2.4 Fig. 24, Fig. 25

TITLE: Signalling message handling

SUBTITLE: Message received with an erroneous SI (distribution function)

PURPOSE:To check the response to a message received with an erroneous SI

PRE–TEST CONDITIONS:
Signalling linkset activated

CONFIGURATION:
A

TYPE OF TEST: VAT

TYPE OF SP:

MESSAGE SEQUENCE:

SP A

SP

B

Link

Link

<----------

1 – 1 :invalid SLTM

:(invalid SI)

TEST DESCRIPTION

1.

Send an SLTM message with an invalid SI.

2.

Check that no response is received.