

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:
invalid SLC or OPC

PRE-TEST CONDITIONS: Linkset with two available links

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

----->

1 - 1
TRAFFIC

<-----

1 - 1
TRAFFIC

----->

1 - 2
TRAFFIC

<-----

1 – 2
TRAFFIC

<-----

1 – 2
COO, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2
COO, SLC 1 – 1
(nonexisting OPC)

<-----

1 – 2
ECO, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2
ECO, SLC 1 – 1
(nonexisting OPC)

<-----

1 – 2
COA, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2

COA, SLC 1 – 1
(nonexisting OPC)

<-----

1 – 2
ECA, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2
ECA, SLC 1 – 1
(nonexisting OPC)

----->

1 – 1
TRAFFIC

<-----

1 – 1, 2
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Start traffic to B and C on all links.

2.

Send the invalid messages as described above and check that they are ignored.

3.

Stop traffic and check that it was not disturbed.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:
invalid SLC or OPC

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

1 - 1
TRAFFIC

----->

<-----

1 - 1
TRAFFIC

----->

1 - 2
TRAFFIC

<-----

1 - 2
TRAFFIC

<-----

1 - 2
CBD, SLC 1 - X
(nonexisting SLC)

<-----

1 - 2
CBD, SLC 1 - 1
(nonexisting OPC)

<-----

1 - 2
CBA, SLC 1 - X
(nonexisting SLC)

<-----

1 – 2
CBA, SLC 1 – 1
(nonexisting OPC)

----->

1 – 1, 2
TRAFFIC

<-----

1 – 1, 2
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Start traffic to B and C on all links.

2.

Send the invalid messages described above and check that they are ignored.

3.

Stop traffic and check that it was not disturbed.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:
changeback message

PRE-TEST CONDITIONS:
Linkset with one link available

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

1 – 2
TRAFFIC

----->

1 – 2
TRAFFIC

<-----

1 – 1

:Activate (depending of the deactivation mean previously used)

1 – 2
CBD, SLC 1 – 1

----->

½

½

½ T4

½

½

<-----

1 – 2
CBA, SLC 1 – 1
(invalid changeback
Code # CBD)

1 – 2
CBD, SLC 1 – 1

----->

½

½

½ T5

½

½

----->

1 - 1
TRAFFIC
(from 1 - 2)

<-----

1 - 1
TRAFFIC
(from 1 - 2 see note)

----->

1 - 2
TRAFFIC

<-----

1 – 2
TRAFFIC

:Wait

:Stop traffic

Note – B may perform a changeback or not.

TEST DESCRIPTION

1.

Start traffic to B and C on link 1 – 2.

2.

Activate link 1 – 1, check that a CBD is received and acknowledged by a CBA with an invalid changeback code.

3.

Check that a new CBD is received after T4 expires and acknowledged by a correct CBA. Check that changeback is performed.

4.

Stop traffic and check that the invalid message has been discarded without impact on the traffic.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:

PRE-TEST CONDITIONS:

Linkset with two available links

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

----->

1 - 1
TRAFFIC

<-----

1 - 1
TRAFFIC

----->

1 - 2
TRAFFIC

<-----

1 - 2
TRAFFIC

<-----

1 - 2
LIN, SLC 1 - X
(nonexisting SLC)

<-----

1 - 2
LIN, SLC 1 - 2
(nonexisting OPC)

<-----

1 - 2
LIA, SLC 1 - X
(nonexisting SLC)

<-----

1 - 2
LIA, SLC 1 - 1
(nonexisting OPC)

<-----

1 – 2
LID, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2
LID, SLC 1 – 1
(nonexisting OPC)

TEST DESCRIPTION

1.

Start traffic to B and C.

2.

Send the invalid messages described above and check that these are ignored.

3.

Stop traffic and check that it was not disturbed.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:

PRE-TEST CONDITIONS:

Linkset with two available links

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

386 **Fascicle VI.9 – Q.782**

MESSAGE SEQUENCE:

SP

SP

Link

Link

<-----

1 – 2

LUN, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2

LUN, SLC 1 – 1
(nonexisting OPC)

<-----

1 – 2

LUA, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2

LUA, SLC 1 – 1
(nonexisting OPC)

<-----

1 – 2

LFU, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2

LFU, SLC 1 – 1
(nonexisting OPC)

TEST DESCRIPTION

See page 1.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:

PRE-TEST CONDITIONS:

Linkset with two available links

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

<-----

1 – 2

LLT, SLC 1 – X
(nonexisting SLC)

<-----

1 – 2

LLT, SLC 1 – 1
(nonexisting OPC)

<-----

1 - 2

LRT, SLC 1 - X
(nonexisting SLC)

<-----

1 - 2

LRT, SLC 1 - 1
(non existing OPC)

ALL
TRAFFIC
----->

<-----

ALL
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

See page 1.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:
coded 00

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

[Link](#)

[Link](#)

:Start traffic

----->

1 - 1
TRAFFIC

<-----

1 - 1
TRAFFIC

<-----

1 - 1
TFC, PC = C
(spare field 0)

<-----

1 - 1
TFC, PC = C
(SLC 0000)

<-----

1 - 1
TFC, PC = X
(nonexisting PC)

1 – 1
TRAFFIC

----->

<-----

1 – 1
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Start traffic to B and C.

2.

Send a TFC with invalid spare field to A, then a TFC with an invalid SLC then a TFC with a nonexistent PC.

3.

Check that these messages are correctly received without disturbances due to these incorrect values.

4.

Stop traffic.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:

PRE-TEST CONDITIONS:

Link 1 – 1 available

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGES SEQUENCE:

SP

SP

Link

Link

:Start traffic

1 – 1

----->

TRAFFIC

<-----

1 - 1
TRAFFIC

<-----

1 - 1
TFP, PC = X
(nonexisting PC)

<-----

1 - 1
TFA, PC = X
(nonexisting PC)

<-----

1 - 1
TFP, PC = C
(nonexisting OPC)

<-----

1 - 1
TFP, PC = C
(spare bits 00)

<-----

1 - 1
TFP, PC = C
(SLC 0000)

2 - 1
:Deactivate

<-----

1 - 1
TFP, PC = C

<-----

1 - 1
TFA, PC = C
(nonexisting OPC)

<-----

1 - 1
TFA, PC = C
(spare bits 00)

<-----

1 - 1
TFA, PC = C
(SLC 0000)

1 - 1
TRAFFIC

----->

<-----

1 – 1
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.
Start traffic to B and C.
2.
Send TFPs and TFAs with invalid values to A (as described above). Check that these messages are discarded without impact on the traffic.
3.
Deactivate linkset 2 and check that B becomes inaccessible.
4.
Send TFAs concerning C with invalid values to A (as described above) and check that these messages are discarded without impact on the traffic.
5.
Check the indications are given by the system (except for SLC and spare bits 0).
6.
Stop traffic.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGES SEQUENCE:

SP

SP

Link

Link

:Start traffic

1 - 1
TRAFFIC

----->

1 - 1
TRAFFIC

<-----

1 - 1
RST, PC = X
(nonexisting PC)

<-----

<-----

1 - 1
RST, PC = C
(nonexisting OPC)

<-----

1 - 1
RST, PC = C
(spare bits 00)

<-----

1 - 1
RST, PC = C
(SLC 0000)

1 - 1
TRAFFIC
----->

<-----

1 - 1
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Start traffic to B and C.

2.

Send to A the invalid messages described above and check that these messages are discarded without impact on the traffic.

3.

Stop traffic.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:
message

PRE-TEST CONDITIONS:
Linkset with two available links

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

----->
1 - 1, 2
TRAFFIC

<-----
1 - 1, 2
TRAFFIC

<-----
1 - 1
TRA (unknown OPC)

----->
1 - 1, 2
TRAFFIC

<-----

1 – 1, 2
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Start traffic to B and C.

2.

Send the invalid message described above and check that this message is ignored.

3.

Stop traffic and check that it was not disturbed.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

1 - 1
TRAFFIC

----->

<-----

1 – 1
TRAFFIC

<-----

1 – 1
SIGNALLING NETWORK TESTING AND MAINTENANCE MESSAGE
(Invalid H0–H1)

1 – 1
TRAFFIC

----->

<-----

1 – 1
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Start traffic to B and C.

2.

Send a signalling network testing and maintenance message with a nonexisting H0–H1.

3.

Check that this message is discarded without impact on the traffic.

4.

Stop traffic.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:
message

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

1 - 1
TRAFFIC

----->

<-----

1 - 1
TRAFFIC

<-----

1 - 1
SLTM (invalid SLC)

<-----

1 - 1
SLTA (invalid SLC)

1 - 1
TRAFFIC

----->

<-----

1 - 1
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.
Start traffic to B and C.

2.

Send the invalid SLTM and SLTA described above and check that they are discarded without impact on the traffic.

3.

Stop traffic.

MTP LEVEL 3

TEST NUMBER:

PAGE:

REFERENCE:

TITLE:

SUB TITLE:

PURPOSE:
message

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:

TYPE OF SP:

MESSAGE SEQUENCE:

SP

SP

Link

Link

:Start traffic

1 – 1

TRAFFIC
----->

<-----

1 - 1
TRAFFIC

<-----

1 - 1
UPU (nonexisting OPC)

<-----

1 - 1
UPU (nonexisting SI)

1 - 1
TRAFFIC
----->

<-----

1 - 1
TRAFFIC

:Wait

:Stop traffic

TEST DESCRIPTION

1.

Start traffic to B and C.

2.

Send the invalid UPUs described above and check that these messages are ignored.

3.

Stop traffic and check that it was not disturbed.

