

MTP, LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 7
STD:
Fig. 8; Fig. 9

TITLE:

SUB TITLE:

PURPOSE: To test the response to the receipt of the stop command while in the initial alignment state (initial alignment is aligned state).

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:
VAT

EXPECTED SIGNAL UNIT SEQUENCE:

SP
B

SP
A

Link

Link

<-----
1 - 0
SIOS

1 - 0 SIOS
----->

:
start

<-----
1 - 0
SIO

1 - 0 SIO
----->

<-----
1 - 0
SIN

:
stop

<-----
1 - 0
SIOS

TEST DESCRIPTION

1.

Check that alignment ceases after STOP command given.

2.

The stop command must be issued before timer T3 expires.

3.

Timer T3 shall be in the range 1 sec to 1.5 secs.

MTP, LEVEL 2

TEST NUMBER:
1.27

PAGE: 1 OF 1

REFERENCE: Q.703 §§ 7, 8
STD: Fig. 8

TITLE: Link State Control – Expected signal units/orders

SUB TITLE: Deactivation during aligned not ready

PURPOSE: To check the response following normal alignment when PO has been set

PRE-TEST CONDITIONS:

Link out of service

CONFIGURATION: 1

TYPE OF TEST:

VAT

EXPECTED SIGNAL UNIT SEQUENCE:

SP
B

SP
A

Link

Link

<-----

1 - 0

SIOS

1 - 0 SIOS

----->

:
set LPO

:
start

<-----
1 - 0

SIO

1 - 0 SIO
----->

<-----
1 - 0

SIN

1 - 0 SIN
----->

<-----
1 - 0

SIPO

:
stop

<-----
1 - 0

SIOS

TEST DESCRIPTION

1.

Soon after alignment completes, A enters “Aligned not ready”.

2.

Before alignment completes at B, stop command is given at A.

3.

Check that A enters “Out of service” state.

4.

Repeat test with LPO set at B.

MTP, LEVEL 2

TEST NUMBER:
1.28

PAGE: 1 OF 1

REFERENCE:
STD: Fig. 8; Fig. 14

TITLE: Link State Control – Expected signal units/orders

SUB TITLE:

SIO received during link in service

PURPOSE: To check the deactivation of a signalling link from the “In Service” state.

PRE-TEST CONDITIONS:

Link in service

CONFIGURATION:

1

TYPE OF TEST:

VAT

EXPECTED SIGNAL UNIT SEQUENCE:

SP B
SP
A

Link

Link

1-0 FISU
----->

<-----
1-0

FISU

1-0 SIO
----->

<-----
1-0

SIOS

TEST DESCRIPTION

1.

SIO is sent to A during link in service.

2.

Check that an “in service” link can be taken out of service at A.

MTP, LEVEL 2

TEST NUMBER:
1.29

PAGE:1 OF 1

REFERENCE:
STD: Fig. 8; Fig. 14

TITLE: Link State Control – Expected signal units/orders

SUB TITLE:
Deactivation during link in service

PURPOSE: To check the deactivation of a signalling link from the “In service” state

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:
VAT, CPT

EXPECTED SIGNAL UNIT SEQUENCE:

SP

B

SP
A

Link

Link

1 - 0 FISU
----->

<-----
1 - 0
FISU

:
stop

1 - 0 SIOS
----->

<-----
1 - 0
SIOS

TEST DESCRIPTION

1.

Check that an “In service” link can be taken out of service by command at B.

2.

Repeat test, command given at A.

MTP, LEVEL 2

TEST NUMBER:
1.30

PAGE: 1 OF 1

REFERENCE: Q.703 §§ 7, 8
STD: Fig. 10

TITLE:

SUB TITLE: Deactivation during LPO

PURPOSE: To check the response to the stop command during LPO

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST: VAT

EXPECTED SIGNAL UNIT SEQUENCE:

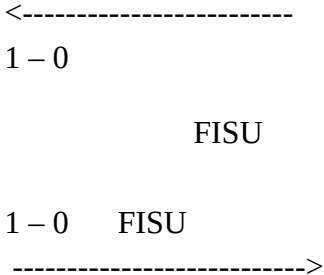
SP

B

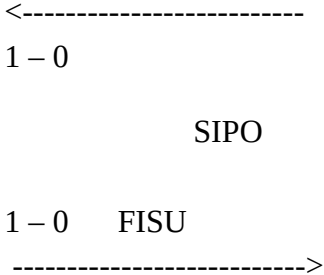
SP
A

Link

Link



:
set LPO



:
stop

<-----

1 – 0

SIOS

TEST DESCRIPTION

1.

SIPO sent from A, stop command given at A, check link enters out of service state.

2.

Repeat test, SIPO sent from B, stop command at B, check link enters out of service state.

MTP, LEVEL 2

TEST NUMBER:

1.31

PAGE:1 OF 1

REFERENCE: Q.703 §§ 7, 8

STD: Fig. 10

TITLE: Link State Control – Expected signal units/orders

SUB TITLE: Deactivation during RPO

PURPOSE:

To test the response to the stop command during RPO

PRE-TEST CONDITIONS:

Link in service

CONFIGURATION: 1

TYPE OF TEST: VAT

EXPECTED SIGNAL UNIT SEQUENCE:

SP B
SP A

Link

Link

1-0 FISU
----->

<-----
1-0 FISU

1-0 SIPO
----->

: stop

<-----
1-0

SIOS

TEST DESCRIPTION

1.

SIPO received at A, stop command given at A, check link enters out of service state.

2.

Repeat test, SIPO received at B, stop command given at B, check link enters out of service state.

MTP, LEVEL 2

TEST NUMBER:
1.32

PAGE:1 OF 1

REFERENCE: Q.703 §§ 7, 10.3
STD: Fig. 8; Fig. 9

TITLE: Link State Control – Expected signal units/orders

SUB TITLE: Deactivation during the proving period

PURPOSE: To test the response to the receipt of SIOS during the proving period

PRE-TEST CONDITIONS: Link out of service

CONFIGURATION: 1

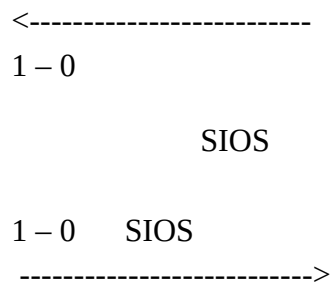
TYPE OF TEST:
VAT, CPT

EXPECTED SIGNAL UNIT SEQUENCE:

SP
B
SP
A

Link

Link



:
start

<-----

1 - 0

SIO

1 - 0 SIO

----->

<-----

1 - 0

SIN

1 - 0 SIN

----->

:
stop

1 - 0 SIOS

----->

<-----

1 - 0

SIOS

TEST DESCRIPTION

1.

Check link enters out of service state when SIOS is received at A during the proving period.

2.

Repeat test, SIOS received at B during proving period.

MTP, LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 7
 STD: Fig. 8

TITLE:

SUB TITLE:

PURPOSE:
state

PRE-TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:
VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B

A

Link

Link

<-----
1 - 0
SIOS

1 - 0
----->

:
start

<-----
1 - 0
SIO

1 - 0
----->

<-----
1 - 0
SIN

1 - 0
----->

<-----

1 – 0
FISU

1 – 0

----->

<-----

1 – 0
SIOS

TEST DESCRIPTION

1.

Check link enters out of service state when SIO is received at A instead of FISUs in the aligned ready state.

MTP, LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE:
STD: Fig. 8

TITLE:

SUB TITLE:

PURPOSE:
state

PRE-TEST CONDITIONS:
Link out of service

CONFIGURATION: 1

TYPE OF TEST:

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VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B

A

Link

Link

<-----

1-0

SIOS

1-0

----->

:
start

<-----

1 - 0

SIO

1 - 0

----->

<-----

1 - 0

SIN

1 - 0

----->

<-----

1 - 0

FISU

:
stop

1 - 0

----->

<-----

1 – 0
SIOS

TEST DESCRIPTION

1.

Check link enters out of service state when SIOS is received at A instead of FISUs in the aligned ready state.

MTP, LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 §§ 7, 8
 STD: Fig. 8

TITLE:

SUB TITLE:

PURPOSE:
state

PRE-TEST CONDITIONS:
Link out of service

CONFIGURATION:
1

TYPE OF TEST:
VAT

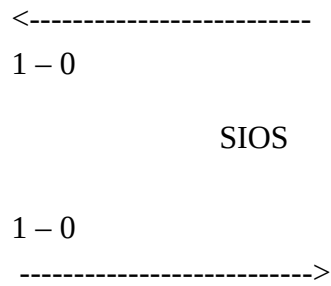
EXPECTED SIGNAL UNIT SEQUENCE:

B

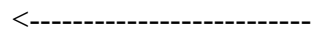
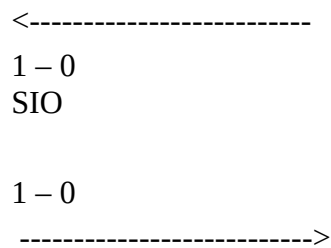
A

Link

Link



:
start



1 – 0
SIN

1 – 0
----->

<-----

1 – 0
FISU

: set LPO

1 – 0
----->

<-----

1 – 0
FISU

TEST DESCRIPTION

1.

Check link enters processor outage state when SIPO received at A instead of FISUs in the aligned ready state.