MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 2
STD: Fig. 11

TITLE:

SUB TITLE:

PURPOSE:

PRE–TEST CONDITIONS:

Link in service

CONFIGURATION:

1

TYPE OF TEST: VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B

A

Link

Link

1 – 0

---------->

MSU F MSU

MSU F F MSU

n(³ 2)

F:
Flag

n=number of flags

1 – 0

---------->

TEST DESCRIPTION

1.

Check that single and n flags, case 1 and case 2 respectively, can be received.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 10.2
STD:
Fig. 11, Fig. 18, Fig. 8

TITLE:

SUB TITLE:

PURPOSE:

PRE–TEST CONDITIONS:
Link in service

CONFIGURATION:
1

TYPE OF TEST:
VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B

A

Link

Link

<----------

1 – 0

1 – 0

---------->

Ct

TEST DESCRIPTION

1.

Check that “In service” state is maintained. The test should run for several minutes.

2.

Ct = the count of corrupted FISUs.

Note – 1)
to the following formula (a = number of correct signal units):

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 10.2
STD: Fig. 11, Fig. 18, Fig. 8

TITLE:

SUB TITLE:

PURPOSE:

PRE–TEST CONDITIONS:
Link in service

CONFIGURATION:
1

TYPE OF TEST:
VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B

A

Link

Link

<----------
1 – 0
FISU

1 – 0
---------->

Ct

<----------
1 – 0
SIOS

TEST DESCRIPTION

1.

SIOS should be returned after approx. 8192 corrupt FISUs (eg. CRC error).

2.

Ct = the count of corrupted FISUs.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 10.2 STD:
Fig. 11, Fig. 18, Fig. 8

TITLE:

SUB TITLE:

PURPOSE:

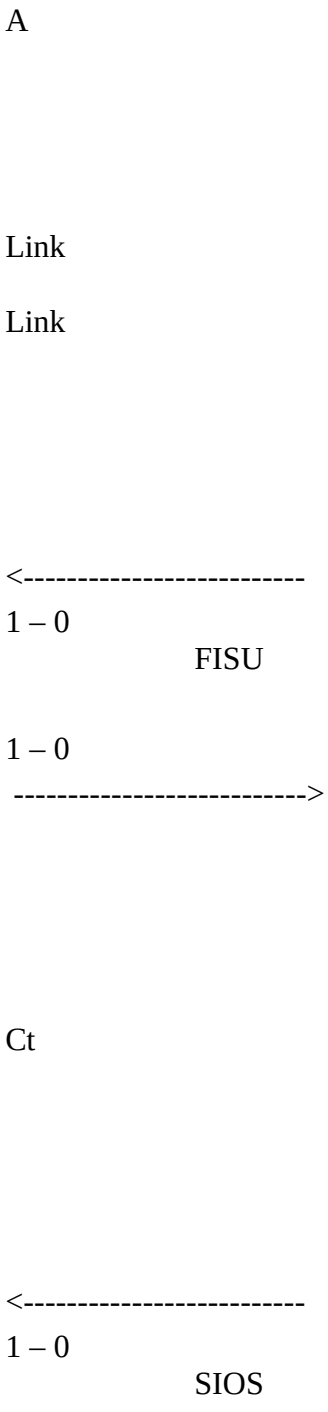
PRE–TEST CONDITIONS:
Link in service

CONFIGURATION: 1

TYPE OF TEST: VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B


A
Link
Link
<----------
1 – 0
FISU
1 – 0
---------->
Ct
<----------
1 – 0
SIOS

TEST DESCRIPTION

1.

SIOS should be returned after approx. 64 corrupt FISUs (eg. CRC error).

2.

Ct = the count of corrupted FISUs.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 10.2 STD:
Fig. 11, Fig. 18

TITLE:

SUB TITLE:

PURPOSE:

PRE–TEST CONDITIONS:

CONFIGURATION:

TYPE OF TEST:
VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B

A

Link

Link

<----------

1 – 0

FISU

1 – 0

---------->

---------->

<----------

1 – 0

FISU

TEST DESCRIPTION

1.

Break the transmission link, and restore before level 2 goes out of service. (Break time is less than approx. 128ms for 64 kbit/s).

2.

Check that A enters and leaves the octet counting mode on reception of an FISU.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 10.3
STD: Fig. 9, Fig. 11, Fig. 17

TITLE:

SUB TITLE:

PURPOSE:

PRE–TEST CONDITIONS:
Link out of service

CONFIGURATION:
1

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
---------->

½

---------->

½ T4

---------->

½

1 – 0
<----------

1 – 0

FISU

TEST DESCRIPTION

1.

Start link at A.

2.

Generate x number of corrupt LSSUs (e.g. CRC error) at B.(x < Tin).

3.

Check that the proving period continues and the link aligns successfully.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 10.3
STD: Fig. 9, Fig. 11, Fig. 17

TITLE:

SUB TITLE:

PURPOSE:

PRE–TEST CONDITIONS:

CONFIGURATION:
1

TYPE OF TEST: VAT

EXPECTED SIGNAL UNIT SEQUENCE:

B

A

Link

<----------
1 – 0
SIOS

1 – 0
---------->

:
start

<----------

1 – 0
SIO

1 – 0
---------->

<----------

1 – 0
SIN

1 – 0
---------->

1 – 0
---------->

---------->

½

½ T4

½

<----------

1 – 0
FISU

TEST DESCRIPTION

1.

Start link at A.

2.

Generate x number of corrupt LSSUs (e.g. CRC error) at B.(x Tin).

3.

Check that the proving period is aborted, then restarted and link aligns successfully.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 10.3
STD:
Fig. 9, Fig. 11, Fig. 17

TITLE:

SUB TITLE:

PURPOSE:

PRE–TEST CONDITIONS:

CONFIGURATION:
1

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
---------->

<----------
1 – 0
SIN

1 – 0
---------->

1 – 0
---------->

<----------
1 – 0
SIN

1 – 0
---------->

1 – 0

---------->

<----------
1 – 0
SIN

1 – 0
---------->

1 – 0
---------->

<----------
1 – 0
SIN

1 – 0
---------->

1 – 0
---------->

<----------
1 – 0
SIOS

TEST DESCRIPTION

1.

Start link at A.

2.

Generate x number of corrupt LSSUs (e.g. CRC error) at B.(x Tin).

3.

Observe that 5 proving period attempts are made before link out of service state.