MTP LEVEL 2	
TEST NUMBER:	
PAGE:	
REFERENCE:	Q.703 § 5.3, 8 STD: Fig. 8
TITLE:	
SUB TITLE:	

PURPOSE: To check the response to a link failure after corruption of two FIBs – detected by reception control – while in "Aligned not ready"

PRE-TEST CONDITI	
	Link out of service
CONFIGURATION:	
1	
TYPE OF TEST:	
VAT	
EXPECTED SIGNAL	UNIT SEQUENCE:
D	
В	
A	
Link	
Link	

<	
SIOS	
1 – 0	
	: set LPO
	:
	start
<	
1 – 0 SIO	
1 - 0	
< 1 – 0 SIN	
1 0	

<
1 - 0
SIPO
1 - 0
>
1 - 0
>
<
1 - 0
SIOS

Set LPO at A.

2.

Start link alignment at A.

3.

Send two corrupt FISUs (corrupt FIBs) on link aligned not ready.

4.

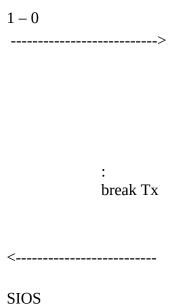
Check link is taken out of service at A.

TEST NUMBER:	
PAGE:	
REFERENCE:	Q.703 § 4, 10.2 STD: Fig. 8
TITLE:	
SUB TITLE:	
PURPOSE:	

Link in service

PRE-TEST CONDITIONS:

CONFIGURATION: 1		
TYPE OF TEST: VAT, CPT	Γ	
EXPECTED SIGNAL U	JNIT SEQUENCE:	
В		
A		
Link		
Link		
1 – 0 FISU		



1.

Break Tx at B, check SIOS returned from A.

2.

Repeat test, break at A.

MTP LEVEL 2	
TEST NUMBER: PAGE:	
PAGE:	
REFERENCE:	Q.703 § 5.3 STD: Fig. 8
TITLE:	

SUB TITLE:

PURPOSE: To check the response to a link failure after corruption of two FIBS – detected by reception control – while "In service"
PRE-TEST CONDITIONS: Link in service
CONFIGURATION: 1
TYPE OF TEST: VAT
EXPECTED SIGNAL UNIT SEQUENCE:
В
A

Link	
Link	
<	
1-0	
	FISU
1 – 0	
	>
1-0	
	>
1-0	
	>
<	

SIOS

TEST DESCRIPTION
TEST DESCRIPTION
1.
Check that receipt of two FISUs at A with corrupt FIBs at link in service state causes the link to be taken out of service.

MTP LEVEL 2
TEST NUMBER:
PAGE:
REFERENCE: Q.703 § 8, 10.2 STD: Fig. 8 TITLE:

SUB TITLE:

PURPOSE:
PRE–TEST CONDITIONS: Link in service
CONFIGURATION: 1 TYPE OF TEST: VAT
EXPECTED SIGNAL UNIT SEQUENCE:
В
A
Link

1	г	•		1	
		1	n	12	
				n	

: set LPO

> : break Tx

1 – 0 SIOS

TEST DESCRIPTION
1.
Break Tx path at B when in "Processor outage" state, check that the SUERM detects the failure and the link is taken out of service.
and the link is taken out of service.
2.
Repeat test, break TX at A.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE: Q.703 § 5.3, 8 STD: Fig. 8

TITLE:
SUB TITLE:
PURPOSE: To check the response to a link failure after corruption of two FIBs – detected by reception control – while in "Processor outage"
PRE–TEST CONDITIONS: Link in service
CONFIGURATION:
TYPE OF TEST: VAT
EXPECTED SIGNAL UNIT SEQUENCE:

В

A

Link

Link

<-----

1 - 0

FISU

1 - 0

---->

:

set LPO

<-----

1-0

SIPO

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1 – 0		
	 	 >
1-0		
	 	 >

1 - 0SIOS

1.

Check that receipt of two FISUs at A with corrupt FIBs on processor outage state causes the link to be taken out of service.

MTP LEVEL 2

TEST NUMBE	ER: 4.1
PAGE:	1 OF 1
REFERENCE:	Q.703 § 8 STD: Fig. 10
TITLE:	
SUB TITLE:	
PURPOSE:	
PRE-TEST CO	ONDITIONS:

Link in service

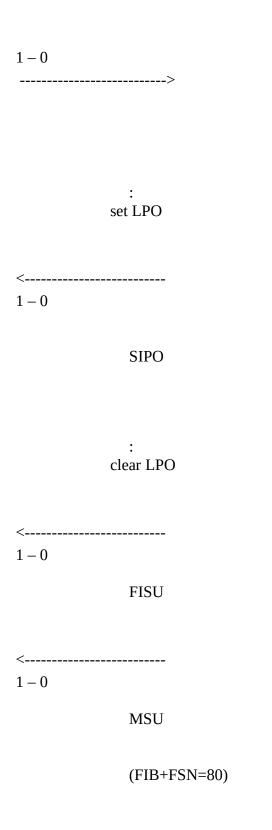
CONFIGURATION: 1
TYPE OF TEST: VAT
EXPECTED SIGNAL UNIT SEQUENCE:
В
A
Link
Link

FISU

<-----

1 - 0

213



1.

Set LPO at A while link in service.

2.

Check message is discarded.

3.

Clear LPO at A.

Check MSU is sent correctly.

MTP LEVEL 2

TEST NUMBER:

PAGE:

REFERENCE:	Q.703 § 8 STD: Fig. 10
TITLE:	
SUB TITLE:	
PURPOSE:	
PRE-TEST CONDIT	TIONS: Link in service. PO set at B
CONFIGURATION:	

TYPE OF TEST: VAT
EXPECTED SIGNAL UNIT SEQUENCE:
В
A
Link
: set LPO
<

1 – 0	
	SIPO
1 – 0	>
	ŕ
<	
1 - 0	

SIPO

: clear LPO

1.

Set LPO at A.

2.

Clear LPO at B.

3.

Check is SIPO sent from A.

MTP LEVEL 2	
TEST NUMBER:	
REFERENCE:	Q.703 § 8 STD: Fig. 10
TITLE:	

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SUB TITLE:

PURPOSE:	
PRE–TEST CONDITIONS: PO set at A and B	
CONFIGURATION: 1 TYPE OF TEST: VAT	
EXPECTED SIGNAL UNIT SEQUENCE:	

A

Link

Link

<-----

1-0 SIPO

1 – 0

: clear LPO

<-----

1-0 FISU

: clear LPO

1-0		
	 	 >
<	 	
1 - 0		
FISU		

Clear LPO at A.

2.

Clear LPO at B.

3.

Check is FISU sent from A.

TEST NUMBER:
PAGE:
REFERENCE: Q.703 § 4.1
STD: Fig. 11
TITLE:
SUB TITLE:
PURPOSE: To test the signal unit delimitation, alignment, and error detection action on receipt of an MSU containing seven or more consecutive '1's

PRE–TEST CONDITIONS: Link in service							
CONFIGURATION: 1							
TYPE OF TEST: VAT							
EXPECTED SIGNAL UNIT SEQUENCE	CE:						
SP							
В							
SP							
A							
Link							
Link							

Link

<				
1 – 0 FISU				
1-0	FISU>			
1 – 0	corrupt MSU (FIB+FSN=80) (containing seven consecutive '1's)			
< 1 – 0 FISU				
(BSN unchanged)				
1-0	FISU>			
	/			

TEST DESCRIPTION

1.

Send a corrupt MSU at B containing seven consecutive '1's.

2.

Check that A discards the signal unit, and goes into octet counting mode.

3.

On reception of a correct FISU, check that A leaves the octet counting mode and remains in the "in service" state.

MTP LEVEL 2

TEST NUMBER:

5.2

PAGE: 1 OF 1

REFERENCE:

Q.703 § 4.1 STD: Fig. 11

TITLE:

SUB TITLE:
PURPOSE: To test the signal unit delimitation, alignment, error detection action on receipt of signal unit greater than the maximum length
PRE–TEST CONDITIONS: Link in service
CONFIGURATION: 1
TYPE OF TEST: VAT
EXPECTED SIGNAL UNIT SEQUENCE:

SP

В

SP

A

Link

Link

<-----

1-0 FISU

1 - 0

---->

FISU

1 – 0 corrupt MSU (FIB+FSN=80) (signal unit length > max. allowed)

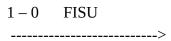
---->

<-----

1 - 0

FISU

(BSN unchanged)



TEST DESCRIPTION

1.

Send corrupt MSU at B with maximum length plus extra bits and good sumcheck.

2.

Check A discards the signal unit, and goes into octet counting mode.

On reception of a correct FISU, check that A leaves the octet counting mode and remains in the "in service" state.
MTP LEVEL 2
TEST NUMBER:
PAGE:

REFEREN	CE:	Q.703 § 4.1 STD: Fig. 11
TITLE:		
SUB TITLE	Ξ:	
PURPOSE:	To test the signal unit	signal unit delimitation, alignment and error detection action on receipt of less than the minimum length
PRE-TEST		ONS: Link in service
CONFIGUE	RATION:	

TYPE OF TEST: VAT EXPECTED SIGNAL UNIT SEQUENCE: SP В SP A Link Link 1 - 0

FISU

(BIB+BSN=FF)

1-0 FISU

1 – 0 corrupt MSU
(FIB+FSN=80)
(signal unit less
than 6 octets)
-----1 – 0
FISU
(BSN unchanged)
1 – 0 FISU

Generate a corrupt MSU at B of less than 6 octets (i.e. less than 5 octets between flags).

2.

Check A discards the signal unit, and goes into octet counting mode.

3.

On reception of a correct FISU, check that A leaves the octet counting mode and remains in the "in service" state.

MTP LEVEL 2	
TEST NUMBER: PAGE:	
REFERENCE:	Q.703 § 2 STD: Fig. 11
TITLE:	
SUB TITLE:	

PURPOSE:

PRE-TEST CONDITIONS: Link in service						
Ziiii iii gerviee						
CONFIGURATION:						
1						
TYPE OF TEST:						
VAT						
EXPECTED SIGNAL UNIT SEQUENCE:						
SP						
В						
SP A						

Link

Link

1 - 0	FISU	
		>
	case 1	
		FISU F FISU
	case 2	
		FISU F F FISU
		n(³ 2)
		F: Flag
	n=number of flags	
1 – 0	FISU	
		>

TEST	DEC	\cap DI	TO	\cap I	M

1.

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