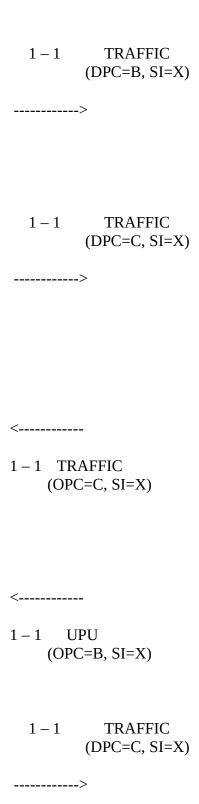
MTP LEVEL 3
TEST NUMBER: 8.3
PAGE:1 of 1
REFERENCE: Q.704 § 11.2.7
TITLE: Signalling traffic flow control
SUB TITLE: Reception of a UPU
PURPOSE:To check the actions of the system on reception of a UPU

PRE-TEST CONDITIONS:

One link available

CONFIGURATION: A TYPE OF TEST: VAT TYPE OF SP: see note MESSAGE SEQUENCE: SP A SP В Link Link :Star traffic



<-----1-1 TRAFFIC (OPC=C, SI=X) :Wait :Stop traffic *Note* – The impact of the reception of a UPU on the traffic from A to B requires further study. The SPs having user part(s) are concerned.

1. Start traffic to B and C with SI=X.

2. Send a UPU from B to C with SI=X.

3. Check that the UPU message is received correctly without impact on the traffic from to A to C.

4. Wait and stop traffic.

MTP LEVEL 3

TEST NUMBER:

8.4

PAGE:

1 of 1

REFERENCE: Q.704 § 11.2.7

TITLE: Signalling traffic flow control
SUB TITLE: Sending of a UPU
PURPOSE:To check the detection of an unavailability of a user part
PRE–TEST CONDITIONS: One link available
CONFIGURATION: A TYPE OF TEST: VAT TYPE OF SP: See note
MESSAGE SEQUENCE:

SP

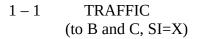
SP

В

Link

Link

:Start traffic



---->

<-----

1 - 1

TRAFFIC

(from B and C, SI=X)

:Deactivate user part X (see note)

<-----

1-1 MESSAGE (from B to A, SI=X)

$$1-1$$
 UPU (DPC = B, SI=X)

1-1 MESSAGE (from C to A, SI=X) 1 - 1UPU (DPC = C, SI=X)1-1 MESSAGE (from B to A, SI=X) 1 - 1UPU (DPC = B, SI=X):Reactivate user part X 1 - 1TRAFFIC (from B and C to A, SI=X) 1 - 1**TRAFFIC** (to B and C, SI=X) :Wait

:Stop traffic

<i>Note</i> – The notion of unavailability of a user part is specific to the implementation, consequently,
the ability to deactivate a user part is implementation dependent. The SPs having user part(s) are
concerned.

1. Start traffic to B and C with SI = X.

2. Deactivate the user part X.

3.

Send a message from B to the user part X in A and check that this message is discarded and that a UPU is sent back.

4.

Send a message from C to the user part X in A and check that this message is discarded and that a UPU is sent back.

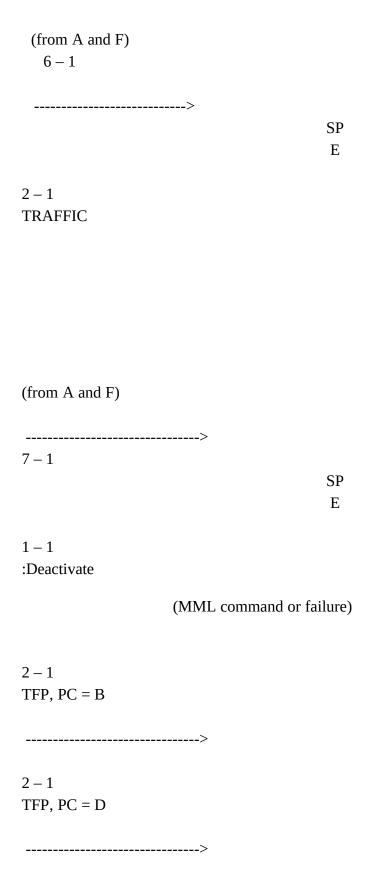
5.

Repeat point 3 and reactivate the user part.

Check that the messages sent from B and C are received correctly and that no UPU is sent back Wait and stop traffic.
MTP LEVEL 3
TEST NUMBER:
PAGE:
REFERENCE:
TITLE:
SUB TITLE:
PURPOSE: becomes unavailable
PRE-TEST CONDITIONS:
CONFIGURATION:
TYPE OF TEST:

Fascicle VI.9 – Rec. Q.782

TYPE OF SP:
MESSAGE SEQUENCE:
SP
SP
SP
SP
Link
Link
Link
Link
:Start traffic
1-1
TRAFFIC
5-1
> SP
D



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2 – 1 TRAFFIC
> 7 – 1 SP E
(from 1 – 1)
8 – 1 SP D
:Wait
:Stop traffic
$\it Note-A$ changeover procedure is performed after deactivation of link $1-1$ but it is not described in this transfer prohibited test.
TEST DESCRIPTION
1. Start traffic to D and E on linkset 1 and 2.
2

Deactivate link 1-1 and check that TFPs concerning B and D are sent from A to C (alternative

route to reach B and D). Check that no TFP concerning E is sent from A to C (load sharing between linksets 1 and 2 in A to reach E).
3.
Check that time out T8 is started for each TFP sent.
4.
Check that the traffic to D and E is diverted to C.
5 .
Stop traffic and check that it was not disturbed.
MTP LEVEL 3
TEST NUMBER:
PAGE:
REFERENCE:
TITLE:
SUB TITLE:

Fascicle VI.9 – Rec. Q.782

PURPOSE:

345

becomes unavailable on reception of a TFP		
PRE-TEST CONDITIONS:		
CONFIGURATION:		
TYPE PF TEST:		
TYPE OF SP:		
MESSAGE SEQUENCE:		
SP		
SP		
SP		
		SP
Link		
	Link	
	Link	
	Link	
:Start traffic		

1 – 1 TRAFFIC	
> 5 – 1	
>	SP D
(from A and F)	
6 – 1	
>	SP E
2 – 1 TRAFFIC	
7 –	
>	
(from A and F)	
	SP E
	L
5 – 1 :Deactivate	
See note	

< 1 – 1 TFP, PC = D	
2 – 1 TFP, PC=D	
1-1 TRAFFIC	
> 6 – 1	
>	SP E
(from A and F)	
2 – 1 TRAFFIC>	
8 – 1	
>	SP D
(from A and F, and from $1-1$ to D) $7-1$	
>	SP E
:Wait	

:Stop traffic
<i>Note</i> – A forced rerouting is performed after the reception of TFP for D in A but it is not described in this transfer prohibited test.
TEST DESCRIPTION
1. Start traffic to D and E.
Start traine to D and L.
2.
Deactivate link $5-1$ and check that a TFP concerning D is sent to A.
3. Check that a TFP concerning D is received from A and that traffic to D is diverted via C.
Check that a 111 concerning D is received from A and that traffic to D is diverted via C.
4.
Check that a time out T8 is started.
г
5. Stop traffic and check that traffic to E has not been disturbed. Some messages to D may have been lost.

MTP LEVEL 3

TEST NUMBER:

349

PAGE:
REFERENCE:
TITLE:
SUB TITLE:
PURPOSE:
PRE-TEST CONDITIONS:
CONFIGURATION:
TYPE OF TEST:
TYPE OF SP:
MESSAGE SEQUENCE:
SP
SP
SP
Sp

Link		
		Link
		Link
		Link
:Start traffic		
3 – 1		
TRAFFIC		
	 	 >

3 - 1

:Deactivate (MML command or failure)

1 - 1
TFP, P C= F
>
2-1
TFP, $PC = F$
>
:Wait
:Stop traffic
<i>Note</i> – The propagation of TFPs is not presented to simplify the test description.
TEST DESCRIPTION
1.
Start traffic to F.

Deactivate link 1-1 and check that TFPs concerning F are broadcasted.

3.

Check that a timer T8 is started.

4.

Stop traffic.

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
SP

SP

Link

Link

Link

Link

:Start traffic

2 – 1 TRAFFIC

----->

7 – 1 ---->

SP E

(from A and F)

8-1

SP D

2 - 1:Deactivate (MML command or failure)

	(
	3-1	
	TFP, $PC = B$	
	>	
		SI
]
	3-1	
	TFP, PC = C	
	·>	
	2 4	
	3-1 TFP, PC = D	
	>	
	3-1	
	TFP, PC = E	
:Wait		
:Stop traffic		

1.

Start traffic to D and E.

2.

Deactivate linkset 2 and check that TFPs concerning B, C, D and E are broadcasted (to F).

3.

Check that for each TFP sent a timer T8 is started.

4.

Repeat test but with linkset 2 unavailable as pre-test condition and then deactivate linkset 1.

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
SP

SP

Link

Link

Link

Link

:Start traffic

2 – 1 TRAFFIC

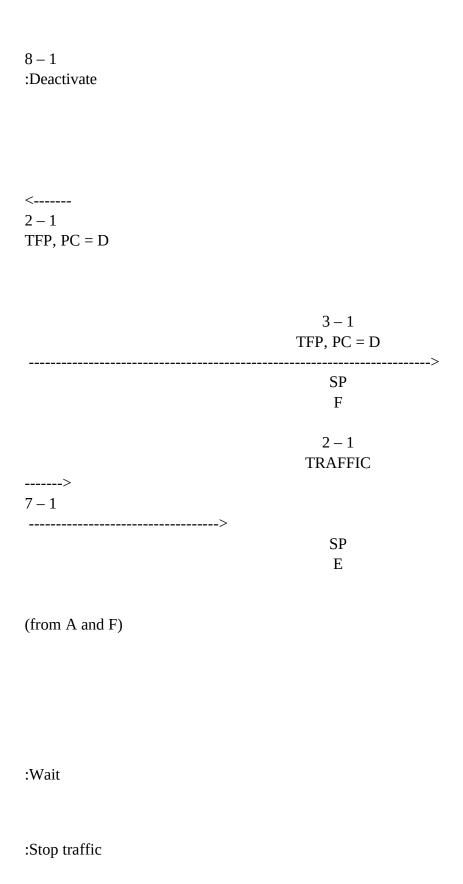
8-1

---->

(from A and F)

7 – 1 ----->

> SP E



1.

Start traffic to D and E.

2.

Deactivate linkset 8 and check that a TFP (PC = D) is sent. Check that TFPs are broadcasted (here to F).

3.

Check that a time out T8 started.

4.

Stop traffic and check that traffic to E has not been disturbed.

5.

Repeat the test with linksets 2 and 4 unavailable as pre—test conditions and then deactivate linkset 5. Repeat the test with linksets 4 and 8 unavailable as pre—test conditions and then deactivate linkset 1.

6.

Repeat the test with linksets 4 and	l 5 unavailable a	litions and then c	leactivate linkse
MTP LEVEL 3			
TEST NUMBER:			
PAGE:			
REFERENCE:			
TITLE:			
SUB TITLE:			
PURPOSE: destination			
PRE-TEST CONDITIONS:			
CONFIGURATION:			
TYPE OF TEST:			

nk

:Sent a message

to D

<-----

3 - 1

MESSAGE TO D

3-1TFP, PC = D

---->

½ ½T8 ½

<-----

3 - 1

MESSAGE TO D

1.

Send from F a message with OPC = D to A.

2.

Check that a TFP PC = D is sent in response. Check that a time out T8 is started.

3.

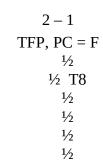
During T8, send a new message with OPC = D to A and check that no TFP is sent.

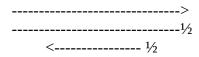
MTP LEVEL 3
TEST NUMBER:
PAGE:
REFERENCE:
TITLE:
SUB TITLE:
PURPOSE:
DDE TEST CONDITIONS.
PRE-TEST CONDITIONS:
CONFIGURATION:
TYPE OF TEST:
TYPE OF SP:
MESSAGE SEQUENCE:
SP

SP	
SP	
SP	
	Link
Link	
Link	
Tl.	
Link	
:Start traffic	
	3 – 1
	TRAFFIC
	SP F
	1.

(from A, D and E)

3-1: Deactivate (MML command or failure)





<-----

4 - 1

2 - 1

MESSAGE TO F

TEST DESCRIPTION

1.

Start traffic to F.

2.

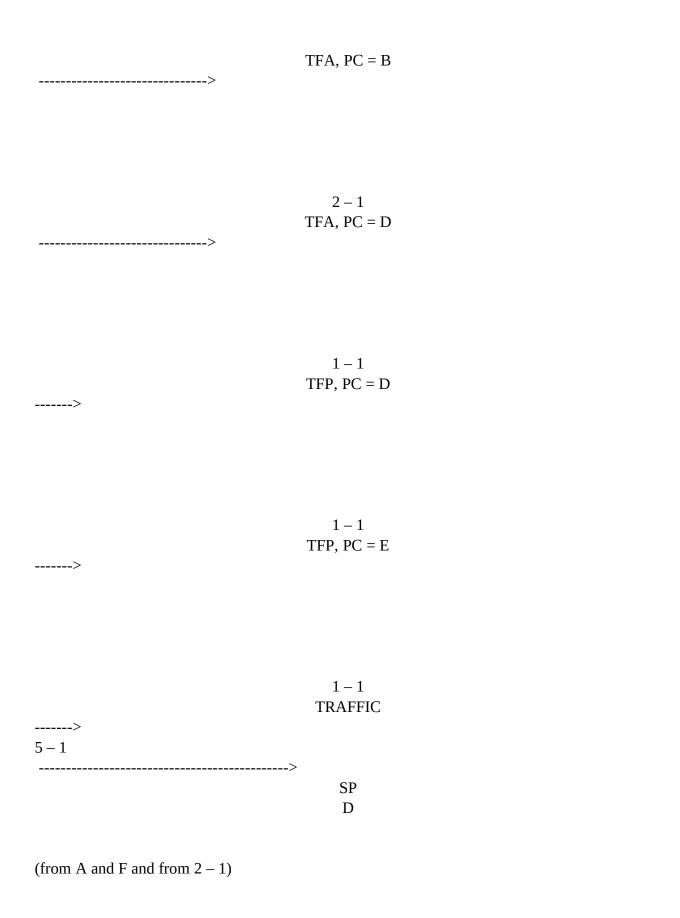
Deactivate linkset 3 and check that TFPs are broadcasted.

3.

Within T8, send one message with DPC = F from C to A and check that no TFP is sent in response.

MTP LEVEL 3
TEST NUMBER:
PAGE:
REFERENCE:
TITLE:
SUB TITLE:
PURPOSE: becomes available
PRE-TEST CONDITIONS:
CONFIGURATION:
TYPE OF TEST:
TYPE OF SP:
MESSAGE SEQUENCE:
SP
SP SP

SP	
SP	
Link	
Link	
Link	
Link	
:Start traffic	
	2 – 1 TRAFFIC
8 – 1	>
>	SP D
(from A and F)	
7 – 1	
>	SP E
	1-1 :Activate (depending of the activation mean previously used)



6 - 1		
	SP	
	E	
	2 – 1	
	TRAFFIC	
	110.11.13	
(from A and F)		
>		
7 – 1		
>		
	SP	
	E	
:Wait		
·Stop traffic		
:Stop traffic		

Note-a changeback procedure is performed after activation of link 1–1 but it is not described in

this transfer allowed test.

TEST DESCRIPTION

1.
Start traffic to D and E.
2.
Activate linkset 1 and check that traffic to D and E is diverted on linkset 1 and that a TFA concerning D is sent from A to C. Check that no TFA is sent concerning E (load sharing in A between linksets 1 and 2).
3.
Stop traffic and check that is was rerouted correctly without loss of messages, duplication and missequencing.
MTP LEVEL 3
TEST NUMBER:
PAGE:
11162.
REFERENCE:
TITLE:
SUB TITLE:

PURPOSE: To check that a TFA is sent on the alternative route when the normal route becomes available on reception of a TFA
PRE-TEST CONDITIONS:
CONFIGURATION:
TYPE OF TEST:
TYPE OF SP:
MESSAGE SEQUENCE:
SP
SP
SP
SP
Link
Link
Link
Link
:Start traffic

	1 – 1 TRAFFIC
> 6 – 1	
>	SP E
(from A and F)	
>	2 – 1 TRAFFIC
7 – 1	
	SP E
(from A and F)	
8 – 1	
	SP D
5 – 1 :Activate	
See note	

<----1 - 1TFA, PC = D1 - 1TFP, PC = D____> 2 - 1TFA, PC = D1 – 1 **TRAFFIC** ----> SP D (from A and F, from 2 - 1 to D) 6 - 1SP E 2 - 1**TRAFFIC** 7 - 1----> SP E

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(from A and F)
:Wait
:Stop traffic
<i>Note</i> – a controlled rerouting is performed after the activation of linkset 5 it is not described in this transfer allowed test.
TEST DESCRIPTION
TEST DESCRIPTION
1.
Start traffic to D and E.
2.
Activate link $5 - 1$ and check that a TFA concerning D is sent to A.
3.

Check that the traffic to D is diverted via B and check that a TFA concerning D is sent from A to

C.

4.

Stop traffic and check that traffic was not disturbed.