TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.783

SPECIFICATIONS OF SIGNALLING SYSTEM No. 7

TUP TEST SPECIFICATION

ITU-T Recommendation Q.783

(Extract from the Blue Book)

NOTES

1	ITU-T	Recomm	endation Q	.783 w	as pub	olished	in F	ascicle	VI.9	of the	Blue	Book.	This	file	is an	extract	from
the Blue	Book.	While the	presentatio	n and l	ayout	of the t	ext 1	night b	e sligl	htly di	ifferer	nt from	the I	Blue	Book	version	n, the
contents	of the f	file are ide	ntical to the	Blue	Book v	ersion a	and o	copyrig	ht con	dition	s rem	ain und	chang	ged (s	ee be	elow).	

2	In	this	Recommendation,	the	expression	"Administration"	is	used	for	conciseness	to	indicate	both	a
telecomn	nuni	catio	n administration and	d a re	ecognized or	perating agency.								

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TUP TEST SPECIFICATION

1 Introduction

This Recommendation contains a set of detailed tests for the Signalling System No. 7 Telephony User Part (TUP). These tests are intended to validate the protocol specified in Q.721-Q.724 Recommendations. This Recommendation conforms to Q.780 Recommendations which describes the basic rules of the test specification.

2 General principles of TUP tests

The TUP tests aim at testing TUP protocol conformance in a given implementation. The tests are described as "Validation" tests or "Validation" and "Compatibility" tests. Each test description indicates in the field "type of test" whether the test is "Validation" or "Validation" and "Compatibility". As the TUP also describes the required call control actions resulting from TUP message transfer the TUP tester also checks the result of those call control actions, e.g. that speech/information transfer is possible.

3 Test configuration

A stable signalling relation is required between "SP A" and "SP B" in order to effectively test the TUP. In addition telephony circuits are required for some of the tests.

4 TUP test list

All tests may be validation tests. Tests marked "*" are compatibility tests. Tests marked "fs" are for further study.

- 1 Circuit supervision
- * 1.1 Non allocated circuits
 - 1.2 Reset of circuits
 - 1.2.1 RSC received on an idle circuit
 - 1.2.2 RSC sent on an idle circuit
 - 1.2.3 Group reset received
 - 1.2.4 Group reset sent
 - 1.3 Blocking of circuits
 - 1.3.1 Group blocking/unblocking
 - 1.3.1.1 HGB received
 - 1.3.1.2 HGB sent
- * 1.3.1.3 MGB received
- * 1.3.1.4 MGB sent
 - 1.3.2 Circuit blocking/unblocking
- * 1.3.2.1 BLO received
- * 1.3.2.2 BLO sent

- * 1.3.2.3 Circuit blocking from both ends; removal of blocking from one end
 - 1.3.2.4 Interruption for FDM circuits
 - 1.4 Continuity check test call
- * 1.4.1 CCTC received: successful
- * 1.4.2 CCTC sent: successful
 - 1.4.3 CCTC received: unsuccessful
 - 1.4.4 CCTC sent: unsuccessful
 - 1.5 Receipt of unreasonable signalling information
 - 1.5.1 Received
 - 2 Normal call set-up
 - 2.1 Both way circuit selection
- * 2.1.1 IAM sent by controlling SP
- * 2.1.2 IAM sent by non controlling SP
 - 2.2 Called address sending
- * 2.2.1 "en bloc" operation
- * 2.2.2 Overlap operation
 - 2.3 Successful call set-up
 - 2.3.1 Ordinary call (with various ACM and ANS)
- * 2.3.2 Call switched via satellite
- * 2.3.3 Test for echo suppressor call set-up
- * 2.3.4 Blocking and unblocking during a call (initiated)
- * 2.3.5 Blocking and unblocking during a call (received)
 - 3 Normal call release
- * 3.1 Calling party clears: before ACM
- * 3.2 Calling party clears: before ANS
- * 3.3 Calling party clears: after ANS
- * 3.4 Calling party clears: after CLEAR BACK
- * 3.5 Reanswer
 - 4 Unsuccessful set-up
 - 4.1 SEC
 - 4.1.1 SEC received

- 4.1.2 SEC sent
- 4.2 CGC
 - 4.2.1 CGCreceived
 - 4.2.2 CGC sent
- 4.3 NNC
 - 4.3.1 NNC received
 - 4.3.2 NNC sent
- 4.4 ADI
- * 4.4.1 ADI received
- * 4.4.2 ADI sent
 - 4.5 CFL
 - 4.5.1 CFL received
 - 4.5.2 CFL sent
 - 4.6 SSB
- * 4.6.1 SSB received
- * 4.6.2 SSB sent
 - 4.7 UNN
- * 4.7.1 UNN received
- * 4.7.2 UNN sent
 - 4.8 LOS
 - 4.8.1 LOS received
 - 4.8.2 LOS sent
 - 4.9 SST
 - 4.9.1 SST received
 - 4.9.2 SST sent
 - 4.10 ACB
 - 4.10.1 ACB received
 - 4.10.2 ACB sent
 - 4.11 DPN
 - 4.11.1 DPN received
 - 4.11.2 DPN sent

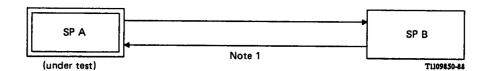
5.1 Inability to release in response to a CLF 5.2 Inability to release in response to a backward signal 5.3 Timers 5.3.1 T2 5.3.2 T3 5.3.3 T4 5.3.4 T5 5.3.5 T6 5.3.6 ANS signal not received (Q.118 Timer) 5.3.7 Delay in clearing by calling party (Q.118 Timer) 5.4 Reset of circuits during a call 5.4.1 Of an outgoing circuit 5.4.2 Of an incoming circuit 5.5 Receipt of unreasonable signalling information 5.5.1 (Now test No. 1.5.1) fs 5.5.2 Received 5.6 Interruption of signalling relation 6 Special call set-up 6.1 Continuity check call 6.1.1 COT applied on an outgoing circuit 6.1.2 COT applied on previous circuit 6.1.3 COT on a satellite circuit 6.1.4 Calling party clears during a COT 6.1.5 Delay of through connect 6.1.6 COT unsuccessful 6.1.7 COT received on incoming circuit 6.2 Automatic repeat attempt 6.2.1 Dual seizure 6.2.2 Circuit reset 6.2.3 Reception of unreasonable signal information

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5 Abnormal situation during a call

- * 6.2.4 Blocking of the circuit
 - 6.2.5 Continuity check failure
 - 6.3 Dual seizure
 - 6.3.1 Dual seizure for controlling side
 - 7 Supplementary services
- fs 7.1 CUG
- fs 7.2 User access to the calling line identity
- fs 7.3 User access to the called line identity
- fs 7.4 Redirection of calls
- fs 7.5 CCBS
- fs 7.6 Network access to calling line identity
 - 8 Performance tests

Note - For further study.



Note 1 — The arrows indicate a signalling relation, and any necessary telephone circuits.

FIGURE 1/Q.783

Test configuration for TUP level 4 tests

Configuration 1

TEST	TEST NUMBER: 1.1				
REFEI	REFERENCE :				
TITLE	TITLE : Circuit supervision				
SUBT	SUBTITLE : Non-allocated circuits				
PURP	PURPOSE: To verify that on receipt of a CIC relating to a circuit which does not exist, SP A will discard the message and alert maintenance personnel				
PRE-T	PRE-TEST CONDITIONS: Arrange the data in signalling point B such that the CIC identifies a circuit that does not exist between SP A and SP B				
	CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP				
EXPE	CTED MESSAGE SEQUENCE :				
	SP A		SP B		
		⟨	IAM		
TEST	DESCRIPTION				
1.	Arrange for SP B to send an initial address message. Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE CIRCUIT IDI	LE ?			
3.	CHECK B: WAS THE MESSAGI	E SEQUENCE AS SHOWN ABOVE?			
4.	CHECK C: WAS THE INDICAT	ION GIVEN TO THE MAINTENANCE P	ERSONNEL?		

TEST NUMBER: 1.2.1				
REFERENCE : Q.724 § 1.15.1				
: Reset of circuits				
ITLE: RSC received on an idle	circuit			
OSE : To verify that on receipt of	of a reset circuit signal SP A will respon	nd by sending a release guard signal		
EST CONDITIONS : The circu	nit is idle			
CONFIGURATION : 1	TYPE OF SP : SP			
CTED MESSAGE SEQUENCE	3:			
A		SP B		
.G	<			
DESCRIPTION				
Γ				
CHECK A: IS THE CIRCUIT IDLE ?				
CHECK B: WAS THE MESS	SAGE SEQUENCE AS ABOVE ?			
	RENCE: Q.724 § 1.15.1 E: Reset of circuits ITLE: RSC received on an idle OSE: To verify that on receipt of the circuits CONFIGURATION: 1 CTED MESSAGE SEQUENCE A LG DESCRIPTION Arrange for SP B to send a reserved record the message sequence CHECK A: IS THE CIRCUIT	RENCE: Q.724 § 1.15.1 E: Reset of circuits ITLE: RSC received on an idle circuit OSE: To verify that on receipt of a reset circuit signal SP A will response to the circuit is idle CONFIGURATION: 1 TYPE OF TEST: VAT CTED MESSAGE SEQUENCE: A (

TEST	TEST NUMBER: 1.2.2				
REFEI	REFERENCE : Q.724 § 1.15.1				
TITLE	: Reset of circuits				
SUBT	ITLE: RSC sent on an idle circ	uit			
PURP	OSE: To verify that SP A is ab	le to generate reset-circuit signal			
PRE-T	EST CONDITIONS: The circu	uit is idle			
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE	Ξ:			
SP	A		SP B		
RS	SC .	·>	RLG		
TEST	DESCRIPTION				
1.	Arrange for SP A to send a res	set-circuit signal.			
	Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE CIRCUIT IDLE ?				
3.	CHECK B: WAS THE MESS	AGE SEQUENCE AS ABOVE ?			
2.	Record the message sequence CHECK A: IS THE CIRCUIT	using a signal monitor.			

TEST	TEST NUMBER: 1.2.3				
REFEI	RENCE : Q.724 § 1.15.2				
TITLE	: Reset of circuits				
SUBT	TLE: Group reset received				
PURPO	PURPOSE: To verify that on receipt of two circuit group reset message within a period of 5 seconds, SP A will respond by sending a circuit reset acknowledge message				
PRE-T	EST CONDITIONS :				
	CONFIGURATION: 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE :				
	SP A		SP B		
		<	GRS		
	GP.4	\(GRS		
	GRA	>			
TEST	DESCRIPTION				
1.	Arrange for SP B to send two circuit group reset messages within a period of 5 seconds. Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE CIRCUIT IDLE ?				
3.	CHECK B : WAS THE MESSA	GE SEQUENCE AS ABOVE ?			

TEST :	TEST NUMBER: 1.2.4				
REFEI	RENCE : Q.724 § 1.15.2				
TITLE	: Reset of circuits				
SUBT	LE : Group reset sent				
PURPO	OSE : To verify that SP A is able t	o generate a circuit group reset message			
PRE-T	EST CONDITIONS				
	CONFIGURATION: 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE:				
	SP A		SP B		
	GRS GRS	> > <	GRA		
TEST	DESCRIPTION				
1.	 Arrange for SP A to send two circuit group reset messages within a period of 5 seconds. Record the message sequence using a signal monitor. 				
2.	CHECK A: IS THE CIRCUIT GROUP IDLE ?				
3.	3. CHECK B: WAS THE MESSAGE SEQUENCE AS ABOVE ?				

TEST NUMBER: 1.3.1.1					
REFE	RENCE : Q.72	24 § 5.2			
TITLE	: Group block	king/unblocking			
SUBT	ITLE : HGB r	eceived			
PURP	OSE : To veri	fy that the hardware	failure group blocking procedure can be co	orrectly ini	tiated
PRE-T	EST CONDI	ΓΙΟΝS :			
	CONFIGUR	ATION : 1	TYPE OF TEST : VAT		TYPE OF SP : SP
EXPE(CTED MESSA	AGE SEQUENCE :			
	SP A			SP	В
			< <	HGB HGB	
	HBA		>		
	HUA		< <>	HGU HGU	
TEST	DESCRIPTIC)N			
1.			ardware failure oriented group blocking me sing a signal monitor.	essages with	nin a period of 5 seconds.
2.	CHECK A:		AN ONLY BE ORIGINATED FROM SP THE RANGE FIELD IN THE HGB MESS		CIRCUITS
3.	Arrange for	SP B to send two ha	ardware failure oriented group unblocking	messages v	vithin a period of 5 seconds.
4.	CHECK B: VERIFY THAT A CALL CAN BE ORIGINATED FROM EITHER SP ON THE CIRCUITS INDICATED BY THE RANGE FIELD				
5.	CHECK C:	WAS THE MESSA	AGE SEQUENCE AS ABOVE ?		

TEST NUMBER: 1.3.1.2					
REFEI	REFERENCE : Q.724 § 5.2				
TITLE	: Group blocki	ng/unblocking			
SUBT	ITLE : HGB se	nt			
PURP			ole to generate both hardware failure oriend group unblocking messages	ted group blocking messages and	
PRE-T	EST CONDITI	IONS :			
	CONFIGURA	ATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP	
EXPE	CTED MESSA	GE SEQUENCE :			
	SP A			SP B	
	HGB HGB		> >		
			, <	НGВ	
	HGU		· >		
	HGU		>		
			\(HUA	
TEST	DESCRIPTION	N			
1.			rdware failure oriented group blocking me ing a signal monitor.	essages within a period of 5 seconds.	
2.	CHECK A:		A CALL CAN ONLY BE ORIGINATI THE RANGE FIELD IN THE HGB ME		
3.	Arrange for SP A to send two hardware failure oriented group unblocking messages within a period of 5 seconds.				
4.	CHECK B:		A CALL CAN BE ORIGINATED FROM	OM EITHER SP ON THE CIRCUITS	
5.	СНЕСК С:	WAS THE MESS	SAGE SEQUENCE AS ABOVE ?		

TEST	TEST NUMBER: 1.3.1.3				
REFEI	RENCE : Q.724	§ 5.1			
TITLE	: Group blockin	g/unblocking			
SUBT	ITLE : MGB rec	eived			
PURP	OSE : To verify	that the maintenan	nce oriented group blocking procedure can b	be correct	tly initiated
PRE-T	EST CONDITIO	ONS :			
	CONFIGURA	ΓΙΟΝ : 1	TYPE OF TEST: VAT and CPT		TYPE OF SP : SP
EXPE	CTED MESSAG	SE SEQUENCE :			
	SP A			SP	В
			<	MGB MGB	
	MBA		>	WOD	
	1,12,1		\ \	MGU	
	MUA		· 	MGU	
			·		
TEST	DESCRIPTION				
1.	Arrange for SP Record the me	B to send two massage sequence usi	aintenance oriented group blocking messageing a signal monitor.	es within	a period of 5 seconds.
2.	CHECK A: VERIFY THAT A CALL CAN ONLY BE ORIGINATED FROM SP B ON THE CIRCUITS INDICATED BY THE RANGE FIELD IN THE MGB MESSAGE				
3.	Arrange for SPB to send two maintenance oriented group unblocking messages within a period of 5 seconds.				
4.	CHECK B: VERIFY THAT A CALL CAN BE ORIGINATED FROM EITHER SP ON THE CIRCUITS INDICATED BY THE RANGE FIELD				
5.	CHECK C:	WAS THE MESS	SAGE SEQUENCE AS ABOVE ?		

TEST	TEST NUMBER: 1.3.1.4				
REFEI	REFERENCE : Q.724 § 5.1				
TITLE	: Group blocki	ng/unblocking			
SUBT	ITLE : MGB se	nt			
PURP	PURPOSE : To verify that SP A is able to generate both maintenance oriented group blocking messages and maintenance oriented group unblocking messages				
PRE-T	EST CONDITI	ONS :			
	CONFIGURA	ATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP	
EXPE	CTED MESSA	GE SEQUENCE :			
	SP A			SP B	
	MGB MGB		> >		
	MGB		\(\begin{align*}	MGA	
	MGU		··	MUA	
	MGU		>		
			<	MUA	
TEST	DESCRIPTION	1			
1.			intenance oriented group blocking messag	ges within a period of 5 seconds.	
2.	Record the message sequence using a signal monitor. CHECK A: VERIFY THAT A CALL CAN ONLY BE ORIGINATED FROM SP A ON THE CIRCUITS INDICATED BY THE RANGE FIELD IN THE MGB MESSAGE				
3.	Arrange for SP A to send two maintenance oriented group unblocking messages within a period of 5 seconds.				
4.	CHECK B: VERIFY THAT A CALL CAN BE ORIGINATED FROM EITHER SP ON THE CIRCUIT INDICATED BY THE RANGE FIELD				
5.	CHECK C:	WAS THE MESS	SAGE SEQUENCE AS ABOVE ?		

TEST	TEST NUMBER: 1.3.2.1				
REFE	REFERENCE : Q.724 § 5.1				
TITLE	E : Group blocki	ng/unblocking			
SUBT	ITLE : BLO rec	eived			
PURP	OSE : To verify	that the blocking/u	unblocking procedure can be correctly initi	iated	
PRE-T	EST CONDITI	ONS :			
	CONFIGURA	ATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP	
EXPE	CTED MESSA	GE SEQUENCE :			
	SP A			SP B	
	DI A		<	BLO	
	BLA		> <	UBL	
	UBA		>		
TEST	DESCRIPTION	1			
1.		PB to send a block	ing signal. ng a signal monitor.		
2.	CHECK A:	VERIFY THAT	A CALL CAN ONLY BE ORIGINATED	FROM SP B ON THIS CIRCUIT	
3.	3. Arrange SP B to send an unblocking signal.				
4.	4. CHECK B: VERIFY THAT A CALL CAN BE ORIGINATED FROM EITHER EXCHANGE ON THIS CIRCUIT				
5.	CHECK C:	WAS THE MESS	SAGE SEQUENCE AS ABOVE ?		

TEST NUMBER: 1.3.2.2					
REFEI	RENCE : Q.724 § 5.1				
TITLE	: Circuit blocking/unblocking				
SUBT	ITLE: BLO sent				
PURP	OSE: To verify that SP A is able	to generate blocking messages			
PRE-T	EST CONDITIONS :				
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE :				
	SP A		SP B		
	BLO	>			
	UBL	<>	BLA		
		\	UBA		
TEST	DESCRIPTION				
1.	. Arrange for SP A to send a blocking signal. Record the message sequence using a signal monitor.				
2.	CHECK A: VERIFY THAT	A CALL CAN ONLY BE ORIGINATED	FROM SP A ON THIS CIRCUIT		
3.	Arrange for SP A to send an unl	blocking signal.			
4.	CHECK B: VERIFY THAT	A CALL CAN BE ORIGINATED FROM	EITHER SP ON THIS CIRCUIT		
5.	CHECK C: WAS THE MESSAGE SEQUENCE AS SHOWN ABOVE ?				

TEST	TEST NUMBER: 1.3.2.3				
REFEI	RENCE : Q.724 § 5.1				
TITLE	: Circuit blocking/unblocking				
SUBT	ITLE: Blocking from both ends:	removal of blocking from one end			
PURP	OSE: To verify that the blocking/	unblocking procedure can be correctly init	tiated		
PRE-T	EST CONDITIONS :				
	CONFIGURATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE :				
	SP A		SP B		
	BLO	·>			
	BLA UBL UBA	\(\langle \cdot \	BLA BLO UBA UBL		
TEST	DESCRIPTION				
1.	Arrange for SP A to send a block Record the message sequence usi				
2.	CHECK A: VERIFY THAT	A CALL CAN ONLY BE ORIGINATED	FROM SP A ON THIS CIRCUIT		
3.	Arrange for SP B to send an unb	locking signal.			
4.	CHECK B: VERIFY THAT A	A CALL CANNNOT BE ORIGINATED	ON THIS CIRCUIT EITHER SP		
5.	Arrange for SP A to send an unbl	ocking signal.			
6.	CHECK C: VERIFY THAT A	A CALL CAN ONLY BE ORIGINATED	BY SP B		
7.	Arrange for SPB to send an unb	locking signal.			
8.	CHECK D: WAS THE MESS	SAGE SEQUENCE AS ABOVE?			

TEST	TEST NUMBER: 1.3.2.4				
REFEI	RENCE : Q.724 § 9.2				
TITLE	: Circuit blocking/unblocking				
SUBT	TLE : Interruption from FDM	circuits			
PURP	OSE: To verify that an interru	ption of the pilot in FDM system causes a blo	ocking signal to be sent		
PRE-T	EST CONDITIONS: The sign	alling points must be linked by a transmission	n system using FDM		
	CONFIGURATION: 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENC	3:			
	SP A		SP B		
	BLO	>			
	UBL	<>	BLA		
		\(UBA		
TEST	DESCRIPTION				
1.	Arrange for the reception of t Record the mesage sequence	ne pilot signal at SP A to be interrupted more using a signal monitor.	than 4-15 seconds.		
2.	CHECK A: CONFIRM T	HAT A CALL CANNOT BE INITIATED BY	Y EITHER SP		
3.	Arrange for the interruption of	f the pilot tone to be terminated.			
4.	CHECK B: CONFIRM THAT A CALL CAN BE INITIATED BY EITHER SP AFTER A PERIOD OF 4-15 SECONDS				
5.	CHECK C: WAS THE M	ESSAGE SEQUENCE AS ABOVE ?			

TEST	NUMBER : 1.4.1			
REFEI	RENCE : Q.724 § 7.5			
TITLE	: Continuity check test call			
SUBT	ITLE : CCTC received : Succesful			
PURP	OSE: To verify that the continuity	test call procedure can be correctly perfor	rmed	
PRE-T	EST CONDITIONS : Circuit mus	t be idle		
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE :			
	SP A		SP B	
		\(CCR Check tone	
		'		
	RLG	<>	CLF	
		,		
TEST	DESCRIPTION			
1.	Initiate the continuity test call pro Record the message sequence usi	ocedure at SP B. ing a signal monitor.		
2.	CHECK A: IS THE CIRCUIT II	DLE ?		
3.	CHECK B: WAS THE MESSAGE SEQUENCE AS ABOVE ?			

TEST NUMBER: 1.4.2					
REFEI	RENCE : Q.724 § 7.5				
TITLE	: Continuity check test call				
SUBT	TLE : CCTC send : successful				
PURP	OSE: To verify that the continuity	test call procedure can be correctly perfor	rmed		
PRE-T	EST CONDITIONS : Circuit mus	st be idle			
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT		TYPE OF SP : SP	
EXPE	CTED MESSAGE SEQUENCE :				
	SP A		SP	В	
	CCR	>			
	Check tone				
	CLF	> \	RLG		
		\	KLO		
TEST	DESCRIPTION				
1.	Initiate the continuity test call procedure at SP A Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE CIRCUIT II	DLE ?			
3.	CHECK B: WAS THE MESSA	GE SEQUENCE AS ABOVE ?			

TEST	NUMBER : 1.4	1.3		
REFE	RENCE : Q.724	↓§ 7.5		
TITLE	E : Continuity ch	neck test call		
SUBT	ITLE : CCTC r	eceived : unsuccess	ful	
PURP	OSE : To verify	that the continuity	check procedure can be correctly received	
PRE-T	TEST CONDITI	ONS : Ensure that	no backward check tone is detected within the specif	ied time out
	CONFIGURA	ATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP
EXP	ECTED MESS	AGE SEQUENCE	3:	
s	P A			SP B
				CCD
			<	CCR Check tone
			<	T CCF
			1-3 minutes	T10
			<	CCR
				Check tone
			'	
			<	CCF
N	Maintenance sta	ff alerted	1-3 minutes	T10
			<	CCR
				Check tone
			<	CCF
			C	CCI
TEST	DESCRIPTION	N		
1.		ntinuity test call pro	ocedure at SP B. ng a signal monitor.	
2.	CHECK A:	WAS THE SEC	OND CONTINUITY CHECK INITIATED WITHIN	1 TO 3 MINUTES?
3.	CHECK B:		MAINTENANCE STAFF ALERTED ON FAIL	
4.	CHECK C:	WAS THE CHE	CK REPEATED AT INTERVALS OF 1 TO 3 MIN	UTES?
5.	CHECK D:	WAS THE MES	SAGE SEQUENCE AS ABOVE?	
1	i			

TEST	NUMBER : 1.4.4			
REFEI	RENCE : Q.724 § 7.5.3			
TITLE	: Continuity check test call			
SUBT	ITLE : CCTC sent : unsuccesfu	1		
PURP	OSE : To verify that the continu	uity test call procedure can be correctly i	nvoked	
PRE-T	EST CONDITIONS : Ensure the	hat no backward tone is detected within	the specified timeout	
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP	
EXPE	ECTED MESSAGE SEQUENCE:			
SF	P A		SP B	
	CR neck tone	>		
C	CF -	>		
	T10 1-3 minutes			
	CR _	>		
	CR -	,		
C	heck tone			
C	CF T	>		
	T10 1-3 minutes		Maintenance staff alerted	
C	CR 🚶	>		
C	heck tone			
· C	CF	>		
TEST DESCRIPTION				
1.	Initiate the continuity test call Record the message sequence			
2.	CHECK A: WAS THE MINUTES?	SECOND CONTINUITY CHECK	INITIATED WITHIN 1 TO 3	
3.		MAINTENANCE STAFF ALERTED C 'Y CHECK?	ON FAILURE OF THE SECOND	
4.	CHECK C: WAS THE C	HECK REPEATED AT INTERVALS (OF 1 TO 3 MINUTES?	
5.		IESSAGE SEQUENCES AS ABOVE?		

TEST	NUMBER: 1.5.1		
REFE	RENCE : Q.724 § 6.5		
TITLI	E : Receipt of unreasonable info	rmation	
SUBT	TTLE : Received		
PURP	POSE : To verify that the action information is as stated	taken by a signalling point upon receipt in Q.724 § 6.5	of unreasonable signalling
PRE-	TEST CONDITIONS :		
	range the data in signalling point	B such that CLF, RLG, and UBL messa	ages may be initiated
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCI	: :	
	SP A		SP B
a)			
	RLG	<>	CLF
b)			
		⟨	RLG
c)	UBA	<>	UBL
TEST	DESCRIPTION		
1.	Arrange for SP B to send a cle	ear forward signal.	
2.	CHECK A: IS THE CIRCUIT	-	
3.	CHECK B: WAS THE MESS	SAGE SEQUENCE AS IN a) ABOVE ?	
4.	Arrange for SP B to send a rel	lease guard signal.	
5.	CHECK C: IS THE CIRCUIT	Γ IDLE ?	
6.	CHECK D: WAS THE MESS	SAGE SEQUENCE AS IN b) ABOVE ?	·····
7.	Arrange for SP B to send an u	nblocking signal.	
8.	CHECK E: IS THE CIRCUIT	`IDLE ?	
9.	CHECK F: WAS THE MESS	AGE SEQUENCE AS IN c) ABOVE ?.	

Note - This test covers only some of the ambiguous messages which could be received

TEST	NUMBER : 2.1.1			
REFE	RENCE : Q.724 § 1			
TITLE	E : Both way circuit selection			
SUBT	ITLE : IAM sent by controlling	SP		
PURP	OSE: To verify that signalling poperation when the contr	point A can initiate an outgoing call on a colling SP is A	circuit capable of bothway	
PRE-T	TEST CONDITIONS :			
a) Call	led termination is free			
b) Circ	cuit selected is capable of bothw	ay operation		
c) Circ	cuit selected is as in test number	2.1.2		
d) SP	A is the controlling signalling po	pint		
CONF	FIGURATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP	
EXPE	CTED MESSAGE SEQUENCE	J:		
	SP A		SP B	
	IAM	·>		
		⟨	ACM	
			Ringing tone	
		<	ANC	
	Speech		Speech	
	CLF	>		
		<	RLG	
TEST	DESCRIPTION			
1.	Make a call from SP A TO SP B. Record the message sequence using a signal monitor.			
2.	CHECK A: CAN RINGING TONE BE HEARD ?			
3.	The called party should answe	r the call.		
4.	CHECK B: IS SPEECH POSSIBLE ?			
5.	The calling party should clear	the call.		
6.	CHECK C: IS THE CIRCUIT	IDLE ?		
7.	CHECK D: WAS THE MESSAGE SEQUENCE AS ABOVE ?			

TEST NUMBER: 2.1.2					
REFEI	RENCE : Q.724 § 1				
TITLE	: Bothway circuit selection				
SUBT	ITLE : IAM sent by non-contro	lling SP			
PURP	OSE: To verify that signalling p the non-controlling SP is	point A can initiate an outgoing call on a	a circuit capable of bothway when		
PRE-T	EST CONDITIONS:				
a) Call	ed termination is free				
b) Circ	cuit selected is capable of bothw	ray operation			
c) Circ	euit selected is as in test number	2.1.1			
d) SP I	B is the controlling signalling po	pint			
	CONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE	3:			
SP	A		SP B		
IA	M	·>			
		\ \	ACM		
			Ringing tone		
		⟨	ANC		
Sp	eech				
		,			
CL	.F	··································	RLG		
TEST	DESCRIPTION				
1.	Make a call from SP A to SP B. Record the message sequence using a signal monitor.				
2.	CHECK A: CAN RINGING TONE BE HEARD?				
3.	The called party should answe	r the call.			
4.	CHECK B: IS SPEECH POSSIBLE ?				
5.					
6.	CHECK C: IS THE CIRCUIT				
7.	CHECK D: WAS THE MESS	AGE SEQUENCE AS ABOVE ?			
		<u>.</u>			

TEST	NUMBER: 2.2.1		
REFE	RENCE : Q.724 § 1		
TITLI	E : Called address sending		
SUBT	TTLE :"EN BLOC" operation		
PURF	OSE : To verify that a call can l	be successfully established (all included	in the IAM)
PRE-	TEST CONDITIONS :		
a) Cal	led termination is free		
		h that all digits are included in the IAM	
0) 111	e exchange data is arranged sac	The trial are digits are included in the 17 tive	I
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT	TYPE OF SP: SP
EXPE	CTED MESSAGE SEQUENCI	Е:	
SI	P A		SP B
1.4	ΔM	·>	
17	AIVI	\(\begin{align*}\\ \\\ \\\ \	ACM
			Ringing tone
		\(ANC
Sı	peech		Speech
C	LF	>	
		<	RLG
TEST	DESCRIPTION		
1.	Make a call from SP A to SP Record the message sequence		
2.	CHECK A: IS RINGING TO	NE BE HEARD?	
3.	The called party should answe	er the call.	
4.	CHECK B: IS SPEECH POSS	SIBLE ?	
5.	The calling party should clear	r the call.	
6.	CHECK C: IS THE CIRCUIT	TIDLE ?	
7.	CHECK D: WAS THE MESS	SAGE SEQUENCE AS ABOVE ?	
8.	For validation testing repeat the	his test in the reverse direction	
	Where SPA is in a position an End-of-pulsing (ST) signal	to know, by digit analysis that the fin	al digit has been sent. Confirm that

TEST	NUMBER : 2.2.2		
REFEI	RENCE : Q.724 § 1		
TITLE	E : Called address sending		
SUBT	ITLE: Overlap operation (with	SAM and SAO)	
PURP	OSE : To verify that signalling	point A can initiate a call using an IAM fo	ollowed by SAM and a SAO
a) Call	TEST CONDITIONS: led termination is free signalling point data is arrange	ed such that digits are generated in a IAM f	followed by a SAM and a SAO
	CONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP : SP
EXPEO SP		E:	SP B
SA	AM	, >	
SA			ACM Ringing tone ANC
Sp	eech		Speech
CL	F	··································	RLG
TEST	DESCRIPTION		
1.	Make a call from SP A to SP I Record the message sequence		
2.	CHECK A: IS RINGING TO		
3.	The called party should answe		
4.	CHECK B: IS SPEECH POSS		
5.	The calling party should clear		
6.	CHECK D. WAS THE MESS		
7.		SAGE SEQUENCE AS ABOVE ?	
8.	Note - The message flown ma (There may be various		
	Where SPA is in position to k	now by digit analysis that the final digit hat included in the last address message.	as been sent. Confirm that an

TEST NUMBER: 2.3.1				
REFERENCE: Q.724 § 1.6 and 1.10				
TITLE :Successful call set-up				
SUBTITLE : Ordinary call (with various ACM and ANS)				
PURPOSE: To verify that a call can be successful completed using various combinations of address complete messages and answer messages				
PRE-TEST CONDITIONS : Called te	rmination is free			
CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP: SP		
EXPECTED MESSAGE SEQUENCE SP A IAM Speech CLF		SP B ACM Ringing tone ANC Speech RLG		
TEST DESCRIPTION				
 Make a call from SP A to SP B. Record the message sequence using a signal monitor. CHECK A: CAN RINGING TONE BE HEARD? The called party should answer the call. CHECK B: IS SPEECH POSSIBLE ? The calling party should clear the call. CHECK C: IS THE CIRCUIT IDLE ? CHECK D: WAS THE MESSAGE SEQUENCE AS ABOVE ? Repeat steps 1-7 with all combinations of bits A&B in the address complete message. Repeat steps 1-8 with ANC replaced with an ANN. Repeat this test in the reverse direction. 				

TEST NUMBER: 2.3.2			
REFERENCE: Q.724 § 1			
TITLE	E:Successful call set-up		
SUBT	ITLE: Call switched via a satel	lite	
PURP	OSE : To verify the satellite inc	dicator in the initial address message is c	correctly set
PRE-TEST CONDITIONS: a) Called termination is free b) The signalling point data is arranged such that the call is switched via satellite connection or has a satellite connection already included in the path			
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCE	3:	
SP	A		SP B
IA Sp CI	eech		ACM Ringing tone ANC Speech RLG
TEST	DESCRIPTION		
1. 2. 3. 4. 5. 6. 7. 8. 9.		using a signal monitor. NE HEARD? If the call. The call. TIDLE ? SAGE SEQUENCE AS ABOVE ? SLLITE INDICATOR BIT IN THE IAM	4 SET TO 1?

TEST	NUMBER : 2.3.3		
REFE	RENCE: Q.724 § 11		
TITLE	: Successful call set-up		
SUBT	TLE: Test for echo suppressor	call set-up	
PURP	OSE : To verify that a call can	be successful established with the inclus	ion of echo suppressors
PRE-T	EST CONDITIONS :		
a) Call	ed termination is free		
	signalling point data is arrang has an echo suppressor includ	ged such that the call is routed over a ed in the connection	route requiring echo suppressors or
	CONFIGURATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCE	∃:	
SP	A		SP B
IA	M	\	
		<	ACM
			Ringing tone
		\	ANC
Sp	eech		Speech
CL	F	>	
		\	RLG
TEST.	DESCRIPTION		
1.	Make a call from SP A to SP I Record the message sequence		
2.			
3.	The called party should answe	er.	
4.	CHECK B: IS SPEECH POSSIBLE?		
5.	. CHECK C: IS ECHO PERCEIVED BY EITHER PARTY?		
6.	The calling party should clear	the call.	
7.	CHECK D: IS THE CIRCUIT	Γ IDLE?	
8.	CHECK E: WAS THE MESS	AGE SEQUENCE AS ABOVE?	
9.	CHECK F: WAS THE MESSAGE INDICATOR BIT G (OUTGOING HALF ECHO SUPPRSSOR INCLUDED) IN THE IAM SET TO 1?		
10.	CHECK G: WAS THE MESSAGE INDICATOR BIT D (INCOMING HALF ECHO SUPPRESSOR INCLUDED) IN THE ACM SET TO 1?		
11.	For validation testing repeat this test in the reverse direction.		

TEST NUMBER: 2.3.4			
REFERENCE: Q.724 § 5			
TITLE	: Successful call set-up		
SUBT	ITLE: Blocking and unblocking	g during a call (initiated)	
PURP	OSE: To verify that the circuit	blocking and unblocking procedure can b	e correctly initiated during a call
PRE-T	EST CONDITIONS : Called te	rmination is free	
	CONFIGURATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCE	3:	
	SP A		SP B
	IAM	>	
	IAWI	\(\begin{align*}/ \(\begin{align*}	ACM
			Ringing tone
		⟨	ANC
	Speech		Speech
	BLO	>	
		\(BLA
	CLF	> <	RLG
	UBL	·	REG
		\(UBA
TEST DESCRIPTION			
1.	. Make a call from SP A to SP B. Record the message sequence using a signal monitor.		
2.	CHECK A: CAN RINGING	ΓΟΝΕ BE HEARD?	
3.	The called party should answer the call.		
4.	CHECK B: IS SPEECH POSS	SIBLE?	
5.	SP A should initiate circuit blocking relating to the circuit used for this call.		
6.	CHECK C: IS SPEECH STILL POSSIBLE?		
7.	The calling party should clear the call.		
8.			
9.	SP A should send an unblocking signal.		
10.	CHECK E: VERIFY THAT A CALL CAN BE SUCCESSFULLY ORIGINATED FROM EITHER SP.		
11.	CHECK F: WAS THE MESSAGE SEQUENCE AS ABOVE?		
12.	Repeat this test in the reverse direction.		
	Note - The blocking signal ma	y be generated after the call has cleared.	

TEST NU	JMBER: 2.3.5		
REFERE	NCE : Q.724 § 5		
TITLE : S	Successful call set-up		
	LE: blocking and unblocking	g during a call (received)	
PURPOSI	E: To verify that the circuit	blocking and unblocking procedure can	be correctly received during a call
PRE-TES	T CONDITIONS : Called te	rmination is free	
CC	ONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP : SP
EXPECT	ED MESSAGE SEQUENCE	: :	
SI			SP B
IA	AM	>	
		\(ACM
			Ringing tone
		<	ANC
Sı	peech		Speech
D.	т А	\	BLO
	LA	>	
C	LF	 \	RLG
		` <	UBL
U.	BA	>	
TEST DE	SCRIPTION		
	Take a call from SP A to SP I		
	ecord the message sequence		
	HECK A: CAN RINGING		
	he called party should answe		
	HECK B: IS SPEECH POSS		
		ocking relating to the circuit used for thi	s call.
	HECK C: IS SPEECH STIL		
	he calling party should clear		
	SP B should send an unblocking signal.		
	CHECK E: VERIFY THAT A CALL CAN BE SUCCESSFULLY ORIGINATED FROM EITHER SP.		
12. R	Repeat this test in the reverse direction.		
λ7.	ota The blocking signal ma	y he generated after the call has cleared	

TEST NUMBER: 3.1			
REFEI	RENCE : Q.724 § 1.14		
TITLE	: Normal call release		
SUBT	ITLE: Calling party clears befo	re address complete	
PURPOSE : To verify that calling party can successfully release a call prior to receipt of an address complete message			
PRE-T	EST CONDITIONS :		
	CONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCE	3:	SP B
	SP A		SP B
	IAM	>	
	CLF	··>	RLG
TEST DESCRIPTION			
Make a call from SP A to SP B. Record the message sequence using a signal monitor.			
2. The calling party should clear the call prior to receipt of the address complete signal.			
3. CHECK A: IS THE CIRCUIT IDLE?			
4. CHECK B: WAS THE MESSAGE SEQUENCE AS ABOVE?			
5. Repeat this test in the reverse direction.			
1	l		

TEST NUMBER: 3.2			
REFERENCE : Q.724 § 1.14			
TITLE	: Normal call release		
SUBT	ITLE: Calling party clears befo	re answer	
PURP	OSE: To verify that calling part	ty can successfully release a call prior to	o receipt answer
PRE-T	EST CONDITIONS: Called to	ermination is free	
	CONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCE	Σ:	
	SP A		SP B
	IAM	>	
		<	ACM
			Ringing tone
	CLF	>	
		〈	RLG
TEST DESCRIPTION			
Make a call from SP A to SP B. Record the message sequence using a signal monitor.			
2.			
3.	3. The calling party should clear the call prior to receipt of an answer signal.		
4. CHECK B: IS THE CIRCUIT IDLE?			
5. CHECK C: WAS THE MESSAGE SEQUENCE AS ABOVE?			
6. For validation testing this test should be repeat in the reverse direction.			

TEST	TEST NUMBER: 3.3				
REFEI	RENCE : Q.724 § 1.14				
TITLE	: Normal call release				
SUBT	ITLE: Calling party clears befo	ore answer			
PURP	OSE : To verify that the calling	party can successfully release a call in t	he speech state		
PRE-T	EST CONDITIONS : Called to	ermination is free			
	CONFIGURATION : 1 TYPE OF TEST : VAT and CPT TYPE OF SP : SP				
EXPE	CTED MESSAGE SEQUENCE	3:			
	SP A		SP B		
	TAM	\			
	IAM	\ \	ACM		
			Ringing tone ANC		
	Speech		Speech		
	CLF	>	1		
		〈································	RLG		
TEST	DESCRIPTION				
1.	Make a call from SP A to SP I Record the message sequence				
2.					
3.	The called party should answe	r the call.			
4.					
5.					
6.	CHECK C: IS THE CIRCUIT IDLE?				
7.	CHECK D: WAS THE MESS	SAGE SEQUENCE AS ABOVE?			
8.	For validation testing this test	should be repeated in the reverse directi	on.		

TEST NUMBER: 3.4					
REFEI	RENCE : Q.724 § 1.14				
TITLE	: Normal call release				
SUBT	ITLE: Called party clears				
PURP	OSE : To verify that the calling	party can successfully release a call in the	ne clear back state		
PRE-T	EST CONDITIONS: Called to	ermination is free			
	CONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE	Ι:			
	SP A		SP B		
	IAM Speech CLF		ACM Ringing tone ANC Speech CBK RLG		
TEST	DESCRIPTION				
1.	Make a call from SP A to SP B. Record the message sequence using a signal monitor.				
2.					
3.					
4. 5.					
6.	The calling party should clear				
7.					
8.		AGE SEQUENCE AS ABOVE?			
9.	For validation testing repeat th				

TEST	TEST NUMBER: 3.5			
REFEI	RENCE : Q.724 § 1.14			
TITLE	E : Normal call release			
SUBT	ITLE: Called party clears and re	eanswers		
PURP	OSE: To verify that the called s	subscriber can successfully clear and reans	wer a call in the speech state	
PRE-T	EST CONDITIONS : Called ter	rmination is free		
	CONFIGURATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP	
EXPE(CTED MESSAGE SEQUENCE			
	SP A		SP B	
	IAM	>		
	IAIVI	</td <td>ACM</td>	ACM	
		 <	Ringing tone ANC	
	Speech		Speech	
		\(СВК	
		⟨	RAN	
	Speech		Speech	
	CLF	> <	RLG	
TEST	DESCRIPTION			
1.	Make a call from SP A to SP E Record the message sequence			
2.	CHECK A: IS RINGING TON	NE HEARD?		
3.	The called party should answer	r the call.		
4.	CHECK B: IS SPEECH POSS	SIBLE?		
5.	The called party should clear the	he call.		
6.	The called party should reansw	ver the call		
7.	CHECK C: IS SPEECH STILI	L POSSIBLE?		
8.	The calling party should clear	the call.		
9.	CHECK D: IS THE CIRCUIT	IDLE?		
10.	CHECK E: WAS THE MESSA	AGE AS ABOVE?		
11.	For validation testing repeat this test in the reverse direction.			

TEST	TEST NUMBER: 4.1.1					
REFE	RENCE : Q.724 § 1.8					
TITLE	: SEC					
SUBT	ITLE: SEC received					
PURP		immediately release by the outgoing sig gnal is received and the correct indication				
PRE-T		the data in signalling point B such that sto the request	switching equipment congestion is			
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP			
EXPE	CTED MESSAGE SEQUENCE SP A IAM CLF		SP B SEC RLG			
TEST	DESCRIPTION					
1. 2. 3. 4	PARTY? CHECK B: IS THE CIRCUIT CHECK C: WAS THE MESS Note - It may not be possi	using with a signal monitor. PRIATE TONE OR ANNOUNCEMEN	is returned to the calling party. In this			

TEST	TEST NUMBER: 4.1.2				
REFE	RENCE : Q.724 § 1.8				
TITLE	: SEC				
SUBT	ITLE : SEC sent				
PURP	OSE: To verify that SP A is ab	le to generate a equipment congestion m	essage		
PRE-T	EST CONDITIONS : Arrange call requ	the data in SP A such tha switching equiest	ipment congestion is returned to the		
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE	3:			
	SP A		SP B		
	SEC	<> <>	IAM		
	RLG	>	CLF		
TEST	DESCRIPTION				
1.	Attempt to make a call from SP B to SP A. Record the message sequence using with a signal monitor.				
2. (2. CHECK A: IS THE APPROPRIATE TONE OR ANNOUNCEMENT RETURNED TO THE CALLING PARTY?				
3.	. CHECK B: IS THE CIRCUIT IDLE?				
4.	4. CHECK C: WAS THE MESSAGE SEQUENCE AS ABOVE?				
		ble to confirm that the appropriate tone ignalling point under test retransmits the			

TEST	TEST NUMBER: 4.2.1				
REFEI	RENCE : Q.724	§ 1.8			
TITLE	: CGC				
SUBT	ITLE : CGC reco	eived			
PURP			be immediately released by the outgoing ived and the correct indication is given		
PRE-T	EST CONDITIO		the data in signalling point B such that d to the call request	a circuit group congestion signal is	
	CONFIGURAT	ION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP	
EXPE	CTED MESSAC	GE SEQUENCE	Σ:		
	SP A			SP B	
	IAM CLF			CGC RLG	
TEST	DESCRIPTION				
1.	Attempt to make a call from SP A to SP B. Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUCEMENT RETURNED TO THE CALLING PARTY?				
3.	CHECK B:	IS THE CIRC	CUIT IDLE?		
4.	CHECK C:	WAS THE M	ESSAGE SEQUENCE AS ABOVE?		
	Note 1 - An address complete signal (without subscriber free) may be sent in the backward direction before a CGC signal is sent.				
			ble to confirm that the appropriate tone e signalling point under test retransmits		

TEST NUMBER: 4.2.2					
REFEI	RENCE : Q.724 § 1.8				
TITLE	: CGC				
SUBT	TLE : CGC sent				
PURP	OSE: To verify that SP A is ab	ole to generate a circuit group congestion	n signal		
PRE-T		e the data in signalling point A such the to the call request	at a circuit group congestion signal is		
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCI	3:			
	SP A		SP B		
		<	IAM		
	CGC	·>			
	RLG	<>	CLF		
TEST	DESCRIPTION				
1.	Attempt to make a call from SP B to SP A. Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUNCEMENT RETURNED TO THE CALLING PARTY?				
3.	CHECK B: IS THE CIRCUIT	IDLE?			
4.	CHECK C: WAS THE MESS	SAGE SEQUENCE AS ABOVE ?			
	Note 1 - An address complete a CGC signal is sent.	signal (without subscriber free) may be	e sent in the backward direction before		
		ble to confirm that the appropriate tone e signalling point under test retransmits			

TEST	NUMBER : 4.3.1				
REFE	RENCE : Q.724 § 1.8				
TITLE	: NNC				
SUBTI	TLE: NNC received				
PURPO		l will be immediately released by the ouignal is received and the correct indicati			
PRE-T		the data in SP B such that a national ne all request	twork congestion signal is returned		
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUENCE	3:			
	SP A		SP B		
	IAM CLF		NNC RLG		
TEST	DESCRIPTION				
1.	Attempt to make a call from SP A to SP B. Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUCEMENT RETURNED TO THE CALLING PARTY?				
3.	CHECK B: IS THE CIRCUIT IDLE ?				
4.	CHECK C: WAS THE MESS	AGE SEQUENCE AS ABOVE?			
	Note 1 - An address complete a NNC signal is sent.	signal (without subscriber free) may be	sent in the backward direction before		
		ble to confirm that the appropriate tone e signalling point under test restransmit			

TEST NUMBER: 4.3.2			
REFEI	RENCE : Q.724 § 1.8		
TITLE	: NNC		
SUBT	ITLE: NNC sent		
PURP	OSE: To verify that SP A is abl	le to generate a national network conges	stion signal
PRE-T		the data in signalling point A such that ned to the call request, where SP A is no	
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCE	3:	
	SP A		SP B
	NNC RLG	<> <> <>	IAM CLF
TEST	DESCRIPTION		
1.	Attempt to make a call from S	P B to SP A	
2.	CHECK A: IS THE APPRO PARTY?	PRIATE TONE OR ANNOUCEMEN	T RETURNED TO THE CALLING
3.	CHECK B: IS THE CIRCUIT	ΓIDLE?	
4.	CHECK C: WAS THE MESS	AGE SEQUENCE AS ABOVE?	
	Note 1 - An address complete a NNC signal is sent.	e signal (without subscriber free) may be	e sent in the backward direction before
	1	le to confirm that the appropriate tone is e signalling point under test retransmits	~ ·

TEST NUMBER :4.4.1				
REFEI	RENCE : Q.724 §	} 1.7		
TITLE	: ADI			
SUBT	TLE : ADI recei	ved		
PURP			of an address incomplete message the cap the calling party	ll is immediately released and the
PRE-T	EST CONDITIO	NS: Signallin	ng point B should be able to determine eceived	e that the proper number of digits
	CONFIGURATI	ON : 1	TYPE OF TEST : VAT	TYPE OF SP : SP
EXPE	CTED MESSAG	E SEQUENCE	:	
	SP A			SP B
	IAM		> <	ADI
	CLF		· ⟨	RLG
			,	
TEST	DESCRIPTION			
1.	Make a call from SP A to SP B, but do not enter the final digit. Record the message sequence using a signal monitor.			
2.	CHECK A: WAS THE CORRECT TONE OR ANNOUNCEMENT SENT TO THE CALLING SUBSCRIBER?			
3.	CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C:	WAS THE M	ESSAGE SEQUENCE AS ABOVE?	
			o confirm that the appropriate tone is re alling point under test retransmis the si	

TEST	TEST NUMBER: 4.4.2				
REFEI	RENCE : Q.724 § 1.7				
TITLE	: ADI				
SUBT	ITLE : ADI sent	_			
PURP	OSE : To verify that si	ignalling _l	point A is able to generate an address in	complete signa	ıl
PRE-T	EST CONDITIONS :	SP A she	ould be able to determine that the proper	r number of di	gits has not been
	CONFIGURATION :	1	TYPE OF TEST : VAT and CPT	TYI	PE OF SP : SP
EXPE	CTED MESSAGE SE	QUENCE	3:		
	SP A			SP	В
			\(IAM	
	ADI		> \	CLF	
	RLG		>		
TEST	DESCRIPTION				
1.	Make a call from SP B to SP A, but do not enter the final digit. Record message sequence using a signal monitor.				
2.					
3.	3. CHECK B: IS THE CIRCUIT IDLE?				
4.	CHECK C: WA	S THE M	ESSAGE SEQUENCE AS ABOVE?		
			onfirm that the appropriate tone is retur- ling point under test retransmis the signs		ing party. In this case it

TEST NUMBER: 4.5.1					
REFEI	RENCE : Q.724 § 6.3				
TITLE	: CFL				
SUBT	TLE: CFL received				
PURP		all will be immediately released by the ou			
PRE-T	EST CONDITIONS : Arranş call re	e the data in signalling point B such that aquest	a call failure signal is returned to the		
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP		
EXPE	CTED MESSAGE SEQUEN	CE:			
	SP A		SP B		
	IAM	> <	CFL		
	CFL	·	RLG		
TEST	DESCRIPTION				
1.	Attempt to make a call from SP A to SP B. Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUCEMENT RETURNED TO THE CALLING PARTY?				
3.	CHECK B: IS THE CA	LL IDLE?			
4.	CHECK C: WAS THE	MESSAGE SEQUENCE AS ABOVE?			
	Note 1 - An address comple	e signal may be sent in the backward dire	ction before a CFL signal is sent.		
		ole to confirm that the appropriate tone is the signalling point under test retransmits			

TEST NUMBER: 4.5.2			
REFEI	RENCE : Q.724 § 6.3		
TITLE	3 : CFL		
SUBT	ITLE : CFL sent		
PURP	OSE : To verify that the signall	ling point A is able to generate a call fail	ure signal
PRE-T	EST CONDITIONS : Arrange	the data in SP A such that a call failure	signal is returned to the call request
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENCI	E:	
	SP A		SP B
		<	IAM
	CLF	· }	
	RLG	·	CLF
	KLG	/	
TEST	DESCRIPTION		
1.	Attempt to make a call from S Record the message sequence		
2.	CHECK A: IS THE APPRO PARTY?	OPRIATE TONE OR ANNOUNCEMEN	NT RETURNED TO THE CALLING
3.	CHECK B: IS THE CALL I	(DLE?	
4.	CHECK C: WAS THE MES	SSAGE SEQUENCE AS ABOVE?	
	Note 1 - An address complete	signal may be sent in the backward dire	ection before a CFL signal is sent.
		ole to confirm that the appropriate tone in the signalling point under test retransmits	

TEST	TEST NUMBER: 4.6.1			
REFEI	RENCE : Q.724 § 1.9			
TITLE	: SSB			
SUBT	TLE: SSB Received			
PURP		Il be immediately released by SP A if a S given to the calling party	Subscriber-busy signal is received and	
PRE-T	EST CONDITIONS : Called te	rmination must be busy		
	CONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP : SP	
EXPE	CTED MESSAGE SEQUENCE	3:		
	SP A		SP B	
	IAM	>		
	CV F	<	SSB	
	CLF	·\ <\	RLG	
TEST	DESCRIPTION			
1.	Attempt to make a call from S Record the message sequence			
2.	CHECK A: IS THE APPRO PARTY?	PRIATE TONE OR ANNOUNCEMEN	IT RETURNED TO THE CALLING	
3.	CHECK B: IS THE CIRCUIT	IT IDLE?		
4.	CHECK C: WAS THE MES	SSAGE SEQUENCE AS ABOVE?		
		le to confirm that the appropriate tone i e signalling point under test retransmits		
	Note 2 - This sequence may no	ot be possible at International Gateways		

TEST NUMBER: 4.6.2				
REFE	RENCE : Q.724 § 1.9			
TITLE	:: SSB			
SUBT	ITLE : SSB Sent			
PURP	OSE : To verify that signalling	point A is able to generate or retransmit	a subscriber busy signal	
PRE-TEST CONDITIONS : The called termination must be busy				
	CONFIGURATION : 1 TYPE OF TEST : VAT and CPT TYPE OF SP : SP			
EXPE	CTED MESSAGE SEQUENCE	∃:		
	SP A		SP B	
		⟨	IAM	
	SSB	\ \	CLF	
	RLG	·>	CLI	
TEST	DESCRIPTION			
1.	. Attempt to make a call from SP A to SP B. Record the message sequence using a signal monitor.			
2.				
3.	CHECK B: IS THE CIRCU	IT IDLE?		
4.	CHECK C: WAS THE MES	SSAGE SEQUENCE AS ABOVE?		
		le to confirm that the appropriate tone is e signalling point under test retransmits		
	Note 2 - This sequence may no	ot be possible at International Gateways		

TEST NUMBER: 4.7.1			
REFE	RENCE : Q.724		
TITLE	E: UNN		
SUBT	ITLE : UNN Received		
PURP		ill be immediately released by SP A if a on is given to the calling party	Unallocated-number signal is received
PRE-T	EST CONDITIONS : Arrang request	e the data in signalling point B such tha	t a UNN Signal is returned to the call
	CONFIGURATION : 1	TYPE OF TEST: VAT and CPT	TYPE OF SP : SP
EXPE	CTED MESSAGE SEQUENC	Έ:	
	SP A		SP B
	IAM	> <	UNN
	CLF	> <	RLG
TEST	DESCRIPTION		
1.	Attempt to make a call from SP A to SP B. Record the message sequence using a signal monitor.		
2.			
3.	CHECK B: IS THE CIRCU	JIT IDLE?	
4.	CHECK C: WAS THE ME	SSAGE SEQUENCE AS ABOVE?	
		ble to confirm that the appropriate tone is the signalling point under test retransmits	
	Note 2 - This sequence may I	not be possible at International Gateways	

TEST	TEST NUMBER: 4.7.2			
REFEI	RENCE : Q.724			
TITLE	: UNN			
SUBT	ITLE : UNN Sent			
PURP	OSE: To verify that signalling	point A is able to generate an Unallocate	ed-number signal	
PRE-T	EST CONDITIONS : Arrange request	the data in signalling point A such that	t a UNN Signal is returned to the call	
	CONFIGURATION : 1	TYPE OF TEST : VAT and CPT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCI	∃:		
	SP A		SP B	
	UNN RLG	<	IAM CLF	
TEST DESCRIPTION				
1.	Attempt to make a call from S Record the message sequence			
2.	CHECK A: IS THE APPRO PARTY?	PRIATE TONE OR ANNOUNCEMEN	T RETURNED TO THE CALLING	
3.	CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C: WAS THE MES	SSAGE SEQUENCE AS ABOVE?		
		le to confirm that the appropriate tone i e signalling point under test retransmits		
	Note 2 - This sequence may n	ot be possible at International Gateways		

TEST	TEST NUMBER: 4.8.1			
REFEI	RENCE : Q.724			
TITLE	: LOS			
SUBT	ILE : LOS Received			
PURP		e immediately released by SP A if a Lingiven to the calling party	ne out of service signal is received and	
PRE-T	EST CONDITIONS : Arrange request	the data in signalling point B such tha	at a LOS Signal is returned to the call	
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP	
EXPE	CTED MESSAGE SEQUENCE	3:		
	SP A		SP B	
	IAM	>	7.00	
	CLF	<>	LOS	
		⟨	RLG	
TEST	DESCRIPTION			
1.	Attempt to make a call from S Record the message sequence			
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUNCEMENT RETURNED TO THE CALLING PARTY?			
3.	CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C: WAS THE MES	SAGE SEQUENCE AS ABOVE?		
		o confirm that the appropriate tone is remailing point under test retransmits the s		

TEST	TEST NUMBER: 4.8.2			
REFE	RENCE : Q.724			
TITLE	:: LOS			
SUBT	ITLE : LOS Sent			
PURP	OSE : To verify that signalling	point A is able to retransmit a Line-out-	of-service signal	
PRE-T	EST CONDITIONS :Arrange request	the data in signalling point A such tha	t a LOS Signal is returned to the call	
	CONFIGURATION : 1	TYPE OF TEST : VAT	TYPE OF SP : SP	
EXPE	CTED MESSAGE SEQUENCI	∃:		
	SP A		SP B	
	LOS	<>	IAM	
		·	CLF	
	RLG	/		
TEST	DESCRIPTION			
1.	Attempt to make a call from SP B to SP A. Record the message sequence using a signal monitor.			
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUNCEMENT RETURNED TO THE CALLING PARTY?			
3.	CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C: WAS THE MES	SSAGE SEQUENCE AS ABOVE?		
		le to confirm that the appropriate tone is e signalling point under test retransmits		
	Note 2 - This sequence may n	ot be possible at International Gateways		
1				

TEST	TEST NUMBER: 4.9.1			
REFE	RENCE: Q.724			
TITLE	: SST			
SUBT	ITLE: SST received			
PURP		mediately released by the outgoing signalling ect indication is given to the calling party	point if a send-special-information-tone	
PRE-T	EST CONDITIONS: Arrange the da	ata in signalling point B such that a SST signa	al is returned to the call request	
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE:			
	SP A		SP B	
	IAM CLF		SST RLG	
TEST	DESCRIPTION			
1.	Attempt to make a call from SP A to SP B Record the message sequence with a signal monitor.			
2.	CHECK A: IS THE APPROPRIATE TONE RETURNED TO THE CALLING PARTY?			
3.	. CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C: WAS THE MESSAGE	SEQUENCE AS ABOVE?		
		firm that the appropriate tone is returned to t point under test retransmits the signal receive		

TEST NUMBER: 4.9.2				
REFEI	RENCE: Q.724			
TITLE	: SST			
SUBT	ITLE: SST sent			
PURP	OSE: To verify that signalling point A	A is able to generate a send-special-informat	ion-tone signal	
PRE-T	EST CONDITIONS: Arrange the da	ta in signalling point A such that a SST sign	al is returned to the call request	
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE: SP A SST RLG	<	SP B IAM CLF	
TEST	DESCRIPTION			
1.	Attempt to make a call from SP B to SP A Record the message sequence with a signal monitor.			
2.	CHECK A: IS THE APPROPRIATE TONE RETURNED TO THE CALLING PARTY?			
3.	CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C: WAS THE MESSAGE	SEQUENCE AS ABOVE?		
		firm that the appropriate tone is returned to t point under test retransmits the signal receive		

TEST	TEST NUMBER: 4.10.1			
REFEI	RENCE: Q.724 § 10.2			
TITLE	: ACB			
SUBT	TLE: ACB received			
PURPO	OSE: To verify that because of in returned to the call request	ncompatible CUG information the call is reje	cted and an access barred signal is	
PRE-TEST CONDITIONS: Arrange the signalling point data such that the CUG information contained in the IAI is compatible with the information stored at SP B				
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE:			
	SP A		SP B	
	IAI	> <	ACID	
	CLF	\\ \ \	ACB RLG	
TEST :	DESCRIPTION			
1.	Make a CUG call from SP A to SP Record the message sequence using			
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUNCEMENT RETURNED TO THE CALLING PARTY?			
3.	CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C: WAS THE MESSAGE	SEQUENCE AS ABOVE?		
		onfirm that the appropriate tone is returned der test retransmits the signal received.	to the calling party. In this case it must be	

TEST NUMBER: 4.10.2				
REFE	RENCE: Q.724 § 10.2			
TITLE	:: ACB			
SUBT	ITLE: ACB sent			
PURP	OSE: To verify that SP A is able to g	generate or receive an access barred signal		
PRE-T	EST CONDITIONS:			
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE:			
	SP A		SP B	
		⟨	IAI	
	ACB	\ \	CLF	
	RLG	·>		
TEST	DESCRIPTION			
1.	Make a CUG call from SP B to SP A. Record the message sequence using a signal monitor.			
2.	CHECK A: IS THE APPROPRIATE TONE OR ANNOUNCEMENT RETURNED TO THE CALLING PARTY?			
3.	CHECK B: IS THE CIRCUIT IDLE?			
4.	CHECK C: WAS THE MESSAGE SEQUENCE AS ABOVE?			
	Note - It may not be possible to confirm that the appropriate tone is returned to the calling party. In this case it must be verified that the signalling point under test retransmits the signal received.			

TEST	TEST NUMBER: 4.11.1				
REFE	RENCE: Q.724 § 10.7				
TITLE	E: DPN				
SUBT	ITLE: DPN received				
PURP	OSE: To verify that the call will and the correct indicator is	be immediately released by the SP A if a diggiven to the calling party	gital path not provided signal is received		
a) Ens	PRE-TEST CONDITIONS: a) Ensure the IAM is set to indicate that an all digital path is required. b) Ensure the data in signalling point B is configured such that a digital path not provided signal is returned to the call request.				
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP		
EXPE	CTED MESSAGE SEQUENCE:				
	SP A		SP B		
	IAM	> <	DPN		
	CLF	·>			
		<	RLG		
TEST DESCRIPTION					
1.	Attempt to make a call from SP A to SP B. Ensuring that the IAM is set to indicate that an all digital path is required. Record the message sequence using a signal monitor.				
2.	CHECK A: IS THE CIRCUIT IDL	E?			
3.	CHECK B: WAS THE MESSAGE	SEQUENCE AS ABOVE?			
		onfirm that the appropriate tone is retuned	to the calling party. In this case it must be		

TEST NUMBER: 4.11.2					
REFEI	REFERENCE: Q.724 § 10.7				
TITLE	:: DPN				
SUBT	ITLE: DPN sent				
PURP	OSE: To verify that signalling point	A is able to generate a digital path not provid	led signal		
PRE-T	EST CONDITIONS: Arrange the da	ata in signalling point A such that a DPN sign	nal is returned to the call request		
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP		
EXPE	CTED MESSAGE SEQUENCE: SP A		SP B		
	DPN RLG	<> <> <>	IAM CLF		
TEST	DESCRIPTION				
1.	Attempt to make a call from SP B t Record the message sequence with				
2.	CHECK B: IS THE CIRCUIT IDL	E?			
3.	CHECK C: WAS THE MESSAGE	SEQUENCE AS ABOVE?			
	Note - It may not be possible to confirm that the appropriate tone is retuned to the calling party. In this case it must be verified that the signalling point under test retransmits the signal received.				

TEST NUMBER: 5.1			
REFERENCE: Q.724 § 6.2.1			
TITLE: Inability to release in response to	a CLF		
SUBTITLE:			
PURPOSE: To verify that if the signalling signal, the circuit will be bloc	g point is unable to return a circuit to the idle c	condition in response to a clear forward	
	ne data in signalling point A such that it is una e to a clear forward signal	able to return the circuit to the idle condition	
CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPECTED MESSAGE SEQUENCE: SP A ACM Ringing tone ANC Speech BLO RLG TEST DESCRIPTION	<>>>>>>>> <> <> <>	SP B IAM Speech CLF BLA	
Make a call from SP A to SP B. Record the message sequence usin CHECK A: IS RINGING TONE	1. Make a call from SP A to SP B. Record the message sequence using a signal monitor. 2. CHECK A: IS RINGING TONE HEARD?		
 CHECK B: IS SPEECH POSSIBLE? The calling party should release the call. CHECK C: VERIFY THAT A CALL CAN NOT BE ORIGINATED FROM EITHER SP CHECK D: WAS THE MESSAGE SEQUENCE AS ABOVE? Repeat this test in the reverse direction. 			

TEST	TEST NUMBER: 5.2				
REFE	RENCE: Q.724 § 6.2.2				
TITLE	: Inability to release in response to a	backward signal			
SUBT	ITLE :				
PURP	PURPOSE: To verify that if signalling point is unable to return the circuit to an idle condition in response to a backward signal, the circuit will be blocked				
PRE-T		ata in signalling point A such that it is unable a backward signal	to return the circuit to an idle condition		
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP		
EXPE	CTED MESSAGE SEQUENCE:				
	SP A		SP B		
	IAM	\ \	ADI		
	BLO	·	BLA		
	CLF	·	RLG		
		`			
TEST	TEST DESCRIPTION				
1.	Make a call from SP A to SP B, but	t do not enter the final digit.			
2.	CHECK A: VERIFY THAT A CALL CAN NOT BE ORIGINATED FROM EITHER EXCHANGE				
3.	CHECK B: WAS THE MESSAGE	SEQUENCE AS ABOVE?			
4.	Repeat this test the reverse direction	n.			

TEST	TEST NUMBER: 5.3.1			
REFEI	RENCE: Q.724 § 6.4.3a			
TITLE	: Timers			
SUBT	ITLE: T2			
PURP	OSE: To check the value of timer T2			
PRE-T	EST CONDITIONS: Arrange the da the call reques	ata in signalling point B such that an address of	commplete message is not returned to	
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPI SI	ECTED MESSAGE SEQUENCE:		SP B	
I.A	т Т	>		
	T2 20-30 seconds			
С	_{LF} ↓	>		
		<	RLG	
TEST DESCRIPTION				
1.	Attempt to make a call from SP A to SP B. Record the message sequence with a signal monitor.			
2.	2. CHECK A: WAS THE CLEAR FORWARD SIGNAL SENT BEFORE 20-30 SECONDS?			
3.				
4.	CHECK C: WAS THE MESSAGE	SEQUENCE AS ABOVE?		

TEST I	TEST NUMBER: 5.3.2				
REFER	RENCE	: Q.724 § 6.4.3b			
TITLE	: Timer	s			
SUBTI	TLE: T	3			
PURPO	OSE: To	o check the value of timer T3			
a) Sign	alling p		rmine that the proper number of digits have such that a clear forward signal is not retu		
	CON	IFIGURATION: 1	TYPE OF TYPE: VAT	TYPE OF SP: SP	
EXPE SF		MESSAGE SEQUENCE:		SP B	
Al	DI -	Т	<>	IAM	
	Т3	4-15 seconds			
	CFL				
TEST I	DESCR	IPTION			
1.	. Attempt to make a call from SP B to SP A but do not dial the last digit. Record the message sequence using a signal monitor.				
2.	CHECK A: WAS A CALL FAILURE SIGNAL SENT BETWEEN 4-15 SECONDS AFTER SENDING OF THE ADDRESS INCOMPLETE MESSAGE?				
3.	CHECK B: IS THE CIRCUIT IDLE?				
4.	4. CHECK C: WAS THE MESSAGE SEQUENCE AS ABOVE?				

TEST N	NUMBER: 5.3.3		
REFER	ENCE: Q.724 § 6.4.3b		
TITLE:	Timers		
SUBTI	TLE: T4		
PURPO	OSE: To check the value of timer T4		
PRE-TI	EST CONDITIONS:		
b) Arra	inge the data in signalling point B sage.	rmine that the proper number of digits have such that a clear forward signal is not retuch that a clear forward signal is not returned	rned in response to an address incomplete
	CONFIGURATION :1	TYPE OF TEST: VAT	TYPE OF SP: SP
EXP	ECTED MESSAGE SEQUENCE:		
SI	P A		SP B
	.DI _	<>	IAM
	T3 4-15 seconds		
С	FL T	>	
	T4 4-15 seconds		
С	FL 1	>	
TEST I	DESCRIPTION		
	Attempt to make a call from SP B to Record the message sequence using	o SP A but do not send the last digit.	
2.	CHECK A: WAS THE CALL FAIL	LURE SIGNAL REPEATED BETWEEN 4- JRE SIGNAL?	15 SECONDS AFTER SENDING THE
3.	CHECK B: WAS THE MESSAGE	SEQUENCE AS ABOVE?	

TUP LEVEL 4 TEST SPECIFICATION TEST NUMBER: 5.3.4 REFERENCE: Q.724 § 6.4.3b TITLE: Timers SUBTITLE: T5 PURPOSE: To check the value of timer T5 PRE-TEST CONDITIONS: a) Signalling point A should be able to determine that the proper number of digits have not been received. b) Arrange the data in signalling point B such that a clear forward signal is not returned in response to an address incomplete message. c) Arrange the data in signalling point B such that a clear forward signal is not returned in response to a call failure signal. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP **EXPECTED MESSAGE SEQUENCE:** SP Α SP В IAM ADI 4-15 seconds CFL T4 4-15 seconds **CFL T4** 4-15 seconds **CFL** T5 1 minute RSC TEST DESCRIPTION Attempt to make a call from SPB to SPA but do not sent the last digit. Record the message sequence using a signal monitor. 2. CHECK A: WAS THE CALL FAILURE SIGNAL REPEATED BETWEEN 4-15 SECONDS AFTER SENDING THE INITIAL CALL FAILURE SIGNAL?...... CHECK B: WAS THE CALL FAILURE SIGNAL REPEATED FOR A PERIOD OF ONE MINUTE?..... 3. CHECK C: WAS A RESET CIRCUIT SIGNAL SENT ON THE EXPIRY OF TIMER T5?..... 4.

WAS THE MESSAGE SEQUENCE AS ABOVE?.....

5.

CHECK D:

TEST NUMBER: 5.3.5			
REFE	RENCE: Q.724 § 6.23		
TITLE	: Timers		
SUBTI	TLE: T6		
Purpos	e: To check the value of timer T6		
PRE-T	EST CONDITIONS: Arrange the dat clear forward s	ta in signalling point B such that a release gu signal	ard is not returned in response to a
	CONFIGURATION : 1	TYPE OF TEST: VAT	TYPE OF SP: SP
EXP	ECTED MESSAGE SEQUENCE:		
Sl	P A		SP B
I.A	AM	>	
		<	ACM
			Ringing tone
С	LF T	>	
	T6 4-15 seconds		
C	LF 1	>	
TEST 1	DESCRIPTION		
1.	Make a call from SP A to SP B, reco	ord the message sequence using a signal mor	uitor.
2.	CHECK A: IS RINGING TONE HEARD?		
3.	The calling party should clear the call.		
4.	CHECK B: WAS THE CLEAR FORWARD SIGNAL REPEATED BEFORE 4-15 SECONDS AFTER SENDING THE INITIAL CLEAR FORWARD SIGNAL?		
5.	CHECK C: WAS THE MESSAGE	SEQUENCE AS ABOVE?	

TEST NUMBER: 5.3.6			
REFE	RENCE: Q.118		
TITLE	: Q.118 timers		
SUBT	ITLE: Answer signal not received		
PURP	OSE: To verify that if an answer sign connection is releaded by the o	nal is not received within 2-4 minutes after rec utgoing signalling point	ceiving an address complete signal the
PRE-T	EST CONDITIONS: The called part	ty should not answer the call	
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT	TYPE OF SP: SP
EXP	ECTED MESSAGE SEQUENCE:		SP B
I.	AM 2-4 minutes	> <	АСМ
CLF	1	> <	RLG
TEST DESCRIPTION			
1. 2. 3.	Attempt to make a call from SP A to SP B. Record the message sequence using a signal monitor. CHECK A: IS RINGING TONE HEARD? The called party should NOT answer the call.		
4. 5. 6.	CHECK B: WAS THE CLEAR FORWARD SEND WITHIN A PERIOD OF 2 To 4 MINUTES SIGNAL? CHECK C: IS THE CIRCUIT IDLE? CHECK D: WAS THE MESSAGE SEQUENCE AS ABOVE?		
	Note - The timer need only be run a		

TEST NUMBER: 5.3.7				
REFEI	RENCE: Q.118			
TITLE	E: Q.118 timers			
SUBT	ITLE: Delay in clearing by calling p	arty		
PURPOSE: Verify that the call will be released if the calling party has not cleared the call within 1-2 minutes after the called party clears				
PRE-T	EST CONDITIONS: The called par	ty should not answer the call		
	CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP			
EXP	PECTED MESSAGE SEQUENCE:			
S	SP A		SP B	
Ι	АМ	> <	ACM Ringing tone	
		<	ANC	
S	Speech		Speech	
	T 1-2 minutes	<	СВК	
CLF 1-2 minutes		RLG		
TEST	DESCRIPTION			
1.	Make a call from SP A to SP B. Record the message sequence using a signal monitor.			
2.				
3.	The called party should answer the	call.		
4.	CHECK B: IS SPEECH POSSIBLE	E?		
5.	The called party should clear the ca	ıll.		
6.	CHECK C: WAS THE CLEAR FO	ORWARD SENT WITHIN A PERIOD OF BI	ETWEEN 1 AND 2 MINUTES?	
7.	CHECK D: IS THE CIRCUIT IDL	E?		
8.	8. CHECK E: WAS THE MESSAGE SEQUENCE AS ABOVE?			

TEST NUMBER: 5.4.1			
REFEI	RENCE: Q.724 § 1.15		
TITLE	: Reset of circuits during a call		
SUBT	ITLE: Of an outgoing circuit		
PURP	OSE: To verify that on receipt of a re	eset circuit signal the call is immediately release	ased
	TEST CONDITIONS: ed termination is free		
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP
EXPE	CTED MESSAGE SEQUENCE:		
	SP A		SP B
	IAM	> <	ACM Ringing tone
		\	ANC
	Speech	· 	Speech
	Specen		
	CLF	<> > <	RSC RLG
TEST	DESCRIPTION		
1.	Make a call for SP A to SP B. Record the message sequence using	g a signal monitor.	
2.	CHECK A: IS RINGING TONE H	EARD?	
3.	The called party should answer the	call.	
4.	CHECK B: IS SPEECH POSSIBLI	E?	
5.	Arrange for SPB to send a reset-cir	cuit signal.	
6.	CHECK C: IS THE CIRCUIT IDL	E?	
7.	CHECK D: WAS THE MESSAGE	SEQUENCE AS ABOVE?	

TEST NUMBER: 5.4.2				
REFEI	RENCE: Q.724 § 1.15			
TITLE	: Reset of circuit during call			
SUBT	ITLE: Of an incoming circuit			
PURP	OSE: To verify that the circuit reset	procedure can be correctly initiated during a	call	
	TEST CONDITIONS: ed termination is free			
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE:			
	SP A		SP B	
	ACM Ringing tone ANC	\(\)\)\)	IAM	
	Speech		Speech	
	RLG	<>	RSC	
TEST	DESCRIPTION			
1.	Make a call from SP B to SP A. Record the message sequence with a signal monitor.			
2.	CHECK A: IS RINGING TONE HEARD?			
3.	The called party should answer the	call.		
4.	CHECK B: IS SPEECH POSSIBLE	E?		
5.	Arrange for SP B to send a reset cir	cuit signal.		
6.	CHECK C: IS THE CIRCUIT IDL	E?		
7.	CHECK D: WAS THE MESSAGE	SEQUENCE AS ABOVE?		

TEST	TEST NUMBER: 5.5.1			
REFEI	REFERENCE: Q.724 § 6.5			
TITLE	E: Receipt of unreasonable information	on during a call		
SUBT	ITLE: Received			
PURP	OSE: To verify that the action ta stated in Q.724 Section 6.5	ken by a signalling point upon receipt of u	inreasonable signalling information is as	
	EST CONDITIONS: cuit idle and unblocked			
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE:			
	SP A		SP B	
	IAM	>		
		⟨	ACM	
			Ringing tone	
		<	See Item 3 below	
		<	ANC	
			Speech	
		<	See Item 6 below	
	CLF	·>		
		<	RLG	
TEST	DESCRIPTION			
1.	Make a call from SP A to SP B. Record the message sequence using	g a signal monitor.		
2.	CHECK A: IS RINGING TONE F	IEARD?		
3.	Send a message which would be un	reasonable at this point in the call (i.e COT) and confirm that message is discarded.	
4.	The called party should answer the	call.		
5.	CHECK B: IS SPEECH POSSIBLE	E?		
6.	SP B should send such a message message is discarded.	which would be unreasonable at this poin	at in the call (i.e ACM) and confirm that the	
7.	The calling point should clear the c	all.		
8.	CHECK C: IS THE CIRCUIT IDL	E?		
9.	CHECK D: WAS THE MESSAGE	AS SHOWN ABOVE.		

 $\it Note$ - This test covers only some of the ambiguous messages which could be received.

TEST NUMBER: 6.1.1					
REFEI	RENCE: Q.724 § 7.3				
TITLE	: Continuity check call				
SUBT	TLE: COT applied on an outgoing cir	cuit			
PURPO	OSE: To verify that a call can be set up	p on a circuit requiring a continuity check			
PRE-T	EST CONDITIONS: Arrange the data	a in signalling point A such that a continuity	check is required on this circuit		
	CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP				
EXPE	CTED MESSAGE SEQUENCE:				
	SP A		SP B		
	IAM	>			
	Check tone				
	COT	>			
		< [']	ACM		
			Ringing tone		
		\(ANC		
	Speech		Speech		
	CLF	\	Speech		
	CLI	<	RLG		
TEST	DESCRIPTION				
1.	Make a call from SP A to SP B Record the message sequence using a	a signal monitor.			
2.	CHECK A: IS RINGING TONE HE	EARD?			
3.	The called party should answer the ca	all			
4.	CHECK B: IS SPEECH POSSIBLE?	?			
5.	The calling party should clear the cal	1.			
6.	CHECK C: IS THE CIRCUIT IDLE	?			
7.	CHECK D: WAS THE MESSAGE S	SEQUENCE AS SHOWN ABOVE?			
8.	For validation testing repeat this test	in the reverse direction.			

TEST	NUMBER: 6.1.2		
REFE	RENCE: Q.724 § 7.3		
TITLE	E: Special call set up		
SUBT	ITLE: COT applied on a previous cir	rcuit	
PURP	OSE: To verify that a call can be set	up if a continuity check is being performed of	on a previous circuit
	TEST CONDITIONS: Arrange the	data in signalling point A such that the	e signalling information indicates that a
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT	TYPE OF SP: SP
EXPE	CTED MESSAGE SEQUENCE:	,	1
	SP A		SP B
	IAM	>	
	d	 elay while check performed on previous circ	uit
	COT	 ⟨	ACM
			Ringing tone
		⟨	ANC
		`	
	Speech		Speech
	CLF	 ⟨	RLG
TEST	DESCRIPTION		
1251	I		
1.	Make a call from SP A to SP B. Record the message sequence using	g a signal monitor.	
2.	CHECK A: IS RINGING TONE H	EARD?	
3.	The called party should answer the	call.	
4.	CHECK B: IS SPEECH POSSIBLE	E?	
5.	The calling party should clear the c	all.	
6.	CHECK C: IS THE CIRCUIT IDL	E?	
7.	CHECK D: WAS THE MESSAGE	E SEQUENCE AS ABOVE?	
8.		UITY CHECK INDICATOR SET TO A E and F IN IAM)?	BINARY VALUE OF TWO (MESSAGE
9.	For validation testing repêat this tes	st in the reverse direction.	

TEST NUMBER: 6.1.3			
REFEI	RENCE: Q.724 § 7.5		
TITLE	E: Continuity check call		
SUBT	ITLE: COT on a satelite circuit		
PURP(OSE: To verify that a continuity chec	ck can be performed on a satellite circuit	
PRE-T		data in signalling point A such that the ca eck applied for	ll is routed over a satellite circuit, with a
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT	TYPE OF SP: SP
EXPE	CTED MESSAGE SEQUENCE:		
	SP A		SP B
	IAM Check tone	\ 	
	COT		ACM Ringing tone ANC
	Speech		Speech
	CLF	> <	RLG
TEST	DESCRIPTION		
1.	Make a call from SP A to SP B. Record the message sequence using	a signal monitor.	
2.	CHECK A: IS RINGING TONE H	-	
3.	The called party should answer the	call.	
4.	CHECK B: IS SPEECH POSSIBLE	Ξ?	
5.	The calling party should clear the ca	all.	
6.	CHECK C: IS THE CIRCUIT IDL	E?	
7.	CHECK D: WAS THE MESSAGE	SEQUENCE AS ABOVE?	
8.	CHECK E: WAS THE SATELLIT	E INDICATOR BIT IN THE IAM SET TO	1?
9.	For validation testing repeat this tes	t in the reverse direction.	

TEST	TEST NUMBER: 6.1.4			
REFEI	RENCE: Q.724 § 6.1			
TITLE	: Continuity check call			
SUBT	ITLE: Calling party clears during CC	TO		
PURP	OSE: To verify that the calling party	can successfully clear during the continuity	check phase of the call	
PRE-T	EST CONDITIONS: Arrange the da	ata in signalling point B such that a continuit	y check is applied on this call	
	CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP			
EXPE	CTED MESSAGE SEQUENCE:			
	SP A		SP B	
	IAM Check tone CLF	> > > <	RLG	
TEST	DESCRIPTION			
1.	Make a call from SP A to SP B. Record the message sequence using a signal monitor.			
2.	The calling party should clear the c	all during the continuity check phase.		
3.	CHECK A: IS THE CIRCUIT IDLE?			
4.	4. CHECK B: WAS THE MESSAGE SEQUENCE AS ABOVE?			
5.	For validation testing repeat this tes	st in the reverse direction.		

TEST NUMBER: 6.1.5			
REFER	RENCE: Q.724 § 7.3		
TITLE	: Continuity check call		
SUBTI	TLE: Delay of through connect		
PURPO	OSE: To verify that the switching tho the return of the speech path	ough of the speech path is delayed until the re	esidual check-tone has propated through
a) The	EST CONDITIONS: called termination is free nge the data in signalling point A su	ch that a continuity check is applied on this c	eall
	CONFIGURATION: 1	TYPE OF TEST: VAT and CPT	TYPE OF SP: SP
EXPEC	CTED MESSAGE SEQUENCE: SP A IAM Check tone COT Speech CLF		SP B ACM Ringing tone ANC Speech RLG
TEST I	DESCRIPTION		
1. 2. 3. 4. 5. 6. 7. 8. 9.	Make a call from SP A to SP B. Record the message sequence using a signal monitor. CHECK A: WAS THE CONTINUITY CHECK TONE HEARD BY EITHER CALLED OR CALLING PARTY? CHECK B: IS RINGING TONE HEARD? The called party should answer the call. CHECK B: IS SPEECH POSSIBLE? The calling party should clear the call. CHECK C: IS THE CIRCUIT IDLE? CHECK D: WAS THE MESSAGE SEQUENCE AS SHOWN ABOVE? For validation testing repeat this test in the reverse direction.		

TEST NUMBER: 6.1.6			
REFE	RENCE: Q.724 § 7.3		
TITLE	3: Continuity check call		
SUBT	ITLE: COT unsuccessful		
PURP	OSE: To verify that a repeat attempt	of the continuity check is made on the failed	circuit
PRE-T	EST CONDITIONS: Ensure that no	backward tone is detected within the specific	ed timeout
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP
EXP	ECTED MESSAGE SEQUENCE:		SP B
3	r A		Sr B
	AM Theck tone		
С	CF T	>	
	T9 1-10 seconds		
C	ccr 1	>	
C	heck tone		
C	CCF T	>	
	T10 1-3 minutes		Maintenance staff alerted
	CR L Check tone	>	
TEST	DESCRIPTION		
1.	Initiate the continuity test call procedure at SP A. Record the message sequence using a signal monitor.		
2.			
3.	3. CHECK B: WERE THE MAINTENANCE STAFF ALERTED ON FAILURE OF THE SECOND CONTINUITY CHECK?		
4.		EPEATED AT INTERVALS OF 1 TO 3 MIN	NUTES?
5.	CHECK D: WAS THE MESSAGE		
	-	nly finish when continuity is detected.	
1	Note 2 - On failure of the COT an a	automatic repeat attempt will be made -see te	st No. 6.2.5

TEST NUMBER: 6.1.7				
REFEI	RENCE: Q.724 § 7.3			
TITLE	: Continuity check call			
SUBT	ITLE: COT received on an incoming	circuit		
PURP	OSE: To verify that a call can be set	up on an incoming circuit requiring a continu	uity check	
PRE-T	EST CONDITIONS: Arrange the da	ta in signalling point such that a continuity c	heck is required on this circuit	
	CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP			
EXPE(CTED MESSAGE SEQUENCE: SP A	\	SP B IAM Check tone	
	ACM Ringing tone ANC	\(\)\)\)	COT	
	Speech RLG	<>	Speech CLF	
TEST	DESCRIPTION			
1.	Make a call from SP B to SP A. Record the message sequence using	g a signal monitor.		
2.	CHECK A: IS THE RINGING TO	NE HEARD?		
3.	The called party should answer the	call.		
4.	CHECK B: IS SPEECH POSSIBL	E?		
5.	The calling party should clear the ca	all.		
6.	CHECK C: IS THE CIRCUIT IDL	E?		
7.	CHECK D: WAS THE MESSAGE	SEQUENCE AS ABOVE?		
8.	For validation testing repeat this tes	at in the reverse direction.		

TEST	TEST NUMBER: 6.2.1			
REFE	RENCE: Q.724 § 3			
TITLE	: Automatic repeat attempt			
SUBT	ITLE: Dual seizure			
PURP	OSE: To verify that an automatic rep	peat attempt will be made on detection of a dua	al seizure	
PRE-T	EST CONDITIONS: Arrange the sign	gnalling point data such that SP B is the contr	olling exchange	
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP	
EXPE	CTED MESSAGE SEQUENCE:			
	SP A		SP B	
	IAM (cic=x) ACM (cic=x) Ringing tone ANC (cic=x)		IAM (cic=x)	
	Speech		Speech	
	IAM (cic=y)	 ⟨ ⟨	ACM (cic=y) Ringing tone ANC (cic=y)	
	Speech		Speech	
	CLF (cic=y) RLG (cic=x)		RLG (cic=y) CLF (cic=x)	
	KEG (CIC-A)			
TEST	DESCRIPTION			
1.	Simultaneously transmit an IAM (c Record the message sequence using	containing the same value of cic) from each eng a signal monitor.	nd of the link for a both way circuit.	
2.	CHECK A: IS RINGING TONE H	EARD ON THE CALL ORIGINATED FROM	M SP B?	
3.	The called party at SP A should ans	swer the call.		
4.	CHECK B: IS SPEECH POSSIBLE			
5.	CHECK C: WAS THE REPEAT ATTEMPT MADE BY SP A, WITH A DIFFERENT VALUE OF CIC IN THE IAM?			
6.		HEARD ON THE CALL ORIGINATED FRO	OM SP A?	
7.	The called party at SP B should ans			
8.	CHECK E: IS SPEECH POSSIBLI	Ξ?		
9.	Clear both calls down.			
10.	CHECK F: ARE THE CIRCUITS			
11.	CHECK G: WAS THE MESSAGE			
	Note - The message sequence may not be as shown above.			

TEST	NUMBER: 6.2.2		
REFE	RENCE: Q.724 § 3		
TITLE	E: Automatic repeat attempt		
SUBT	ITLE: Circuit reset		
PURP	OSE: To verify that an automatic represented message and before a backward	peat attempt will be made on receipt of circuit rd signal has been received	reset after sending of an initial address
PRE-T	FEST CONDITIONS:		
		such that a circuit reset signal is sent in res	sponse to the initial address mesage of the
	t call request called termination should be free		
<i>b)</i> The	canca termination should be free	T	T
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP
EXPE	CTED MESSAGE SEQUENCE:		
	SP A		SP B
	IAM	>	
		<	RSC
	CLF	> <	RLG
	IAM	> /	ACM
			Ringing tone
		<	ANC
	Speech		Speech
	CLR	\ \	RLG
TEST	DESCRIPTION		
1.	Make a call for SP A to SP B.		
	Record the message sequence using	g a signal monitor.	
2.	CHECK A: IS RINGING TONE I	IEARD?	
3.	The called party should answer the	call.	
4.	CHECK B: IS SPEECH POSSIBL	E?	
5.	The calling party should clear the c		
6.	CHECK C: IS THE CIRCUIT IDI	LE?	
7.	CHECK D: WAS THE MESSAGE		
	<i>Note</i> - The message sequence may	not be as shown above.	

TEST NUMBER: 6.2.3		
REFERENCE: Q.724 § 3		
TITLE: Automatic repeat attempt		
SUBTITLE: Reception of unreasonable sig	nalling information	
	mpt will be made on receipt of unreasonable d before one of the backward signals has bee	
PRE-TEST CONDITIONS: a) Arrange the data in signalling point B to the initial address message of the first b) The called termination should be free	such that unreasonable signalling information to the call request	on (see note below) is returned in response
CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP
EXPECTED MESSAGE SEQUENCE: SP A IAM RSC IAM		SP B see Note 1 below RLG ACM
Speech CLF TEST DESCRIPTION		Ringing tone ANC Speech RLG
 Make a call for SP A to SP B. Record the message sequence using CHECK A: IS RINGING TONE H The called party should answer the CHECK B: IS SPEECH POSSIBL The calling party should clear the c CHECK C: IS THE CIRCUIT IDL CHECK D: WAS THE MESSAGE 	EARD? call. E? all. E? E SEQUENCE AS ABOVE? that if received at this point would be either a	ambiguous or inappropriate

TEST NUMBER: 6.2.4			
REFE	RENCE: Q.724 § 3		
TITLE	E: Automatic repeat attempt		
SUBT	ITLE: Blocking of a circuit		
PURP		eat attempt will be made on receipt of the blo ny backward messages have been received	ocking signal after sending an initial
PRE-T		ata in signalling point B such that a blocking smessage of the first call request	signal is returned in response to the
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP
EXPE	CTED MESSAGE SEQUENCE:		
	SP A		SP B
	IAM	>	
	BLA	<>	BLO
	CLF	›	
	IAM	<>	RLG
		<	ACM
		√	Ringing tone ANC
	Speech		Speech
	CLF	>	-
		ζ	RLG
TEST	DESCRIPTION		
1.	Make a call for SP A to SP B. Record the message sequence using	g a signal monitor.	
2.	CHECK A: IS RINGING TONE H		
3.	The called party should answer the	call.	
4.	CHECK B: IS SPEECH POSSIBLI	E?	
5.	The calling party should clear the c	all.	
6.	CHECK C: IS THE CIRCUIT IDL	E?	
7.	CHECK D: WAS THE MESSAGE	SEQUENCE AS ABOVE?	
	Note - The message sequence may	not be as shown above.	

TEST NUMBER: 6.2.5					
REFERENCE: Q.724 § 6					
TITLE: Automatic repeat attempt					
SUBTITLE: Continuity check failure					
PURPOSE: To verify that an automatic repeat attempt will be made if on continuity check failure					
PRE-TEST CONDITIONS: Arrange the data in signalling point B such that check tone is not returned within the specified limits to the first call request					
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP		
EXPECTED MESSAGE SEQUENCE:					
	SP A IAM Check tone CCF A repeat of the continuity chec		SP B 10 seconds see Q.724 Section 7.3		
	IAM Check tone Speech		ACM Ringing tone ANC Speech		
	CLF	> <	RLG		
TEST DESCRIPTION					
1.	Make a call for SP A to SP B. Record the message sequence using	a signal monitor.			
2.	CHECK A: IS RINGING TONE HEARD?				
3.	The called party should clear the call?				
4.	CHECK B: IS SPEECH POSSIBLE				
5.	The calling party should clear the call.				
6.	CHECK C: IS THE CIRCUIT IDLE?				
7.	CHECK D: WAS THE MESSAGE SEQUENCE AS ABOVE?				
	Note - The message sequence may not be as shown above.				

TEST NUMBER: 6.3.1					
REFERENCE: Q.724 § 2.5					
TITLE: Dual seizure					
SUBTITLE: Dual seizure for controlling side					
PURPOSE: To verify that on detection of dual seizure, the call initiated by the controlling signalling point is completed					
PRE-TEST CONDITIONS: Arrange the signalling point data such that SP B is the controlling signalling point					
	CONFIGURATION: 1	TYPE OF TEST: VAT	TYPE OF SP: SP		
EXPE	SP A IAM ACM ANC Speech CLF	>	SP B IAM Ringing tone Speech RLG		
TEST DESCRIPTION					
1.	Simultaneously transmit an IAM (containing the same value of cic) from each end of the link for a both way sircuit. Record the message sequence using a signal monitor.				
2.	CHECK A: IS RINGING TONE HEARD ON THE CALL ORIGINATED FROM SP B?				
3.	The called party at SP A should answer the call.				
4.	CHECK B: IS SPEECH POSSIBLE?				
5.	The calling party at SP B should clear the call.				
6.	CHECK C: IS THE CIRCUIT IDLE?				
7.	CHECK D: WAS THE MESSAGE SEQUENCE AS ABOVE?				
8.	CHECK E: WAS A REPEAT ATTEMPT MADE BY SP A ON ANOTHER CIRCUIT?				
9.	Repeat this test in the reverse direction.				