



Infrastructure Services
Network Services

Attachment
001157A01

AXE IO Configuration and Operational Parameter Settings

Implementation Approval:
Michael Lawrey
General Manager
Network Services

Process Owner:
Mark West
Manager
Network Voice and Data
Platforms

Implementation:

Controlled Document

TABLE OF CONTENTS

1. ...PURPOSE.....	8
2. ...SCOPE.....	8
3. ...ACTIONS.....	8
4. ...INTRODUCTION.....	8
5. ...IO DEVICE ALLOCATION TABLES AND IO REQUIREMENTS.....	9
5.1. Site IO Requirements.....	9
5.2. General O&M Port Allocations.....	9
5.3. IOG Port and Data Communication SubSystem Allocation.....	10
5.3.1. IOG DCS Data Description.....	11
5.3.2. DCS Allocation IOG11B for LAS / IGS / STP.....	12
5.3.3. DCS Allocation IOG11B for SCP	19
5.3.4. DCS Allocation IOG20C for LAS / IGS / STP / VoPC.....	23
5.3.5. DCS Allocation IOG20C for SCP	29
5.3.6. SULTAN Monitor Line Test Position	32
5.3.7. Physical Port Layouts.....	33
6. ...IOG HD VOLUME DIMENSIONS	42
6.1. IOG11B HD Volume Dimensions.....	42
6.1.1. SCP Hard Disk Allocation For IOG11B5 SPG-0 (2 GB + 2 GB)	42
6.1.2. LAS/IGS/STP Single SPG. SPG-0 (2 GB + 2 GB)	42
6.1.3. LAS/IGS/STP Dual SPG. SPG-0 (2 GB + 2 GB) / SPG-1 (2 GB + 2 GB)	43
6.2. IOG20C HD Volume Dimensions.....	44
6.2.1. LAS/IGS/STP Hard Disk Allocation For IOG20C (Old)	44
6.2.2. LAS/IGS/STP Hard Disk Allocation For IOG20C	44
7. ...FILE ALLOCATION FOR IOG	45
7.1. File Allocation For IOG11B-S /A2 & /A5	45
7.2. File Allocation For IOG20C /A2 & /A5.....	49
8. ...AXE ALARM FUNCTION AND ROUTING OF ALARM PRINTOUTS	53
8.1. Initiation of the Alarm Function in AL.....	53
8.2. Alarm Class	53

8.3.	Alarm Category.....	55
8.3.1.	System Associated Alarm Categories	55
8.3.2.	Alarm Categories For External Alarms.....	55
8.4.	Alarm Case	56
8.5.	Routing Of Alarms.....	56
8.6.	External Alarms And AXE AMS Alarms. Aust.....	57
8.6.1.	External Alarms Numbering	58
8.6.2.	Catch word 2	59
8.6.3.	NICAD Alarm Slogans	60
8.6.4.	External Alarms Node Site without AMS.....	60
8.6.5.	External Alarms Node Site with AMS 21220 / IOG11B.....	62
8.6.6.	External Alarms Node Site with AMS 21230 / IOG20C.....	62
8.6.7.	External Alarms RSS Site without AMS	63
8.6.8.	External Alarms RSS Site with AMS	65
8.7.	Allocation Of Alarm Class And Category Values.....	65
9.	.. PRINTOUT ROUTING	65
9.1.	Printout Routing for IOG11B & IOG20C.....	65
9.1.1.	Printout Routing Requirements for IOG11B and IOG20C	66
9.1.2.	Printout Routing Data.....	70
10.	PRIORITY CALL ANALYSIS.....	70
10.1.	Incoming Calls.....	70
11.	ALLOCATION OF MEASURING PROGRAMS (MP) AND TRAFFIC RECORDING GROUPS (TRG)	72
11.1.	Measurement Programs	72
11.2.	Traffic Recording Groups (TRGs).....	72
11.2.1.	General Measurements	72
11.2.2.	CCS#7 Measurements	73
11.2.3.	Data Recording Per Call (DRPC) Measurements	73
12.	IO PARAMETERS	74
12.1.	Device Parameter	74
12.2.	Device attendance.....	74

12.3.	IO Printout Format.....	74
12.4.	IO Standby Devices	75
12.5.	IO Disturbance Level.....	75
12.6.	IO Load Regulation For IOG11B-S & IOG20C.....	75
12.7.	Data Carrier Detect for AT devices in IOG11B-S.....	75
12.8.	Data Carrier Detect for AT devices in IOG20C.....	75
12.9.	Transaction Log For IOG11B-S & IOG20C	75
12.10.	IO Alphanumeric File Devices	76
12.11.	IO Terminal Time for IOG11B-S & IOG20C	77
12.12.	IO Authorities for IOG11B-S & IOG20C	78
12.13.	Command Category Change for Package 6 IOG11B & IOG20C	79
13.	SUPERVISION PARAMETERS	82
13.1.	Alarms	82
13.1.1.	Alarm Categories And Display.....	82
13.1.2.	Alarm Class.....	82
13.1.3.	Time for periodic Alarm List.....	82
13.1.4.	Alarm Functions Report Time for APZ 212.....	83
13.1.5.	Alarm Interface and display Data For IOG11B-S.....	83
13.1.6.	Alarm Interface and display Data For IOG20C	83
13.1.7.	Alarm Function, Scan Category Data IOG11B-S	83
13.2.	APZ Supervision	84
13.2.1.	Load Control	84
13.2.2.	Exchange Input Load Supervision	84
13.2.3.	Processor Load Supervision for TCAP messages.....	85
13.2.4.	Processor Load Observation	85
13.2.5.	Exchange Input Load Observation.....	85
13.2.6.	Test System Load Monitor.....	85
13.2.7.	CP Fault Alarms for APZ 212.....	85
13.2.8.	Audit Function initiate APZ 212.....	86
13.2.9.	Audit Function supervision for APZ 212 with APT /A4.....	86

13.2.10. Audit Function supervision for APZ 212 with APT /A2 !!!!NOT ADAPTED FOR A2 YET	89
13.2.11. Audit Function supervision for APZ 212 with APT Transgate.....	93
13.2.12. Additional Supervision in /A4.....	96
13.3. Restarts and Error Interrupts	96
13.3.1. Restarts	96
13.3.2. Software Recovery Printout Format APZ 212	96
13.3.3. System Recovery Actions for APZ 212	97
13.3.4. Block Category Set.....	97
13.3.5. Error Interrupts	97
13.3.6. Error Intensity Limits	97
13.4. System Backup.....	97
13.4.1. Backup Commandlog	97
13.4.2. System Backup Information	98
13.4.3. System Backup Allocation Test	98
13.5. Routes	98
13.5.1. Route Supervision	98
13.5.2. Seizure Quality Supervision.....	100
13.5.3. Route Load Supervision Observation.....	101
13.5.4. Route Load Supervision Software Routes for /A4.....	101
13.5.5. Seizure Supervision On Trunks.....	109
13.5.6. Signalling Fault Supervision	109
13.5.7. Network Performance Recording.....	109
13.6. Digital Path Transmission Supervision	110
13.6.1. GSD Connected DL Type 1 (Pkg 6).....	110
13.6.2. GSD Connected DL Type 2 (Pkg6).....	111
13.6.3. GSD Connected DL Type 3 (Pkg 6).....	112
13.6.4. RSS Connected DL (Pkg 6).....	114
13.6.5. ISDN PRA Layer 1, 2 & 3 Supervision (Pkg 6).....	115
13.6.6. ISDN BA Layer 1, 2 & 3 Supervision (Pkg 6).....	115
13.7. GSD	116

13.7.1.	Network Synchronisation BYB202 & BYB102	116
13.7.2.	Network Synchronisation BYB501.....	116
13.7.3.	Connection Performance Test Of Group Switch In /A4 & /A2	117
13.7.4.	GSD Variant.....	117
13.7.5.	Switching Network Terminal Variant.....	117
13.7.6.	Semipermanent Connection, Break Logging Data.....	117
13.8.	CCS-7 Supervision Red Book.....	118
13.8.1.	Link Set Supervision.....	118
13.8.2.	Destination Supervision	118
13.8.3.	Semipermanent Connection Initiate.....	118
13.8.4.	Initiate Parameter Group.....	118
13.8.5.	CCITT7 Signalling Link Initiate.....	119
13.8.6.	CCITT7 Event Reporting Specification.....	119
13.8.7.	User Part disturbance recording.....	119
13.8.8.	Data For Signalling Interconnect Points	120
13.9.	Subscriber Line Supervision.....	120
13.9.1.	Blocking Supervision on Customer SubGroups	120
13.9.2.	Seizure Supervision Subscribers.....	120
13.9.3.	Block supervision Subscribers Line Interfaces.....	121
13.9.4.	Subscriber Line Parameter Limits (K Ohms).....	121
13.9.5.	Subscriber Line Test Results And Indications	122
13.9.6.	Subscriber Line Routine Test and Periodic Retest.....	122
13.9.7.	Subscriber Data Functions Line Data	122
14.	EXPOP DATA.....	123
14.1.	EXPOP Data for BYB102 (P83)	123
14.2.	EXPOP Data for BYB202	124
14.3.	EXPOP Data for BYB501	126
14.4.	Responsibilities	128
15.	SERVICE AGREEMENTS	128
16.	MEASURES	128

17. REFERENCES.....	128
18. DEFINITIONS	128
19. ATTACHMENTS	128
DOCUMENT CONTROL SHEET	129

1. PURPOSE

The purpose of this document is to specify the standard configuration for the AXE input/output systems and data for AXE operations and maintenance facilities, consisting mainly of supervision and alarm parameters

2. SCOPE

Technical Reference 001157A01 covers the composite IDN/ISDN /29 & /A4 and the Transgate Application Systems.

For AXE ISDN /18 see 001157A03.

001157A01 specifies the standards for configuration and/or allocation of AXE O & M facilities/resources. Exchange I/O access principles and standards are contained in this document. 001157A01 also contains National Standard Data associated with AXE O & M facilities. The standard data is implemented by various XDCNs - refer Introduction Section 3. Configuration and utilisation of some specific AXE O & M features is the direct responsibility of the user groups, eg Network and Interconnect Management for network traffic management features and Network Performance for traffic and performance measurements. Where system O & M resources are shared by various users, 001157A01 specifies the allocation rules for these features. The configuration of all other system O & M features used by Telstra are covered in this document.

All exchanges must be configured to the specifications contained in this document unless specifically authorised by the Switching Manager and AXE Integration and Performance to make variations.

The Application Systems included in this issue are:

APP/SYS	Processor Sub Sys	Telephony Sub Sys
/A5 (Pkg 6.1)	APZ 212 20/A356	1/AXE 106 108/A5
/A5 (Pkg 6.1)	APZ 212 30/A38	1/AXE 106 108/A5
/A10 (Engine)	APZ 212 33/A8	1/AXE 106 133/A10
/100 (SCP 21220)	APZ 212 20/183	APT 210 11/211
/A9 (SCP 21230)	APZ 212 30/A65	1/AXE 106 109/A9

3. ACTIONS

4. INTRODUCTION

This document specifies the standard configuration and allocation of AXE O & M facilities and resources. The data specified in 001157 forms part of the National Standard Data set. Implementation of the associated National Standard Data for O & M facilities is via various XDCNs. XDCNs 269 and 334 are the principle data change notes associated with this document. XDCNs 269 & 334 have associated OZTERM implementation scripts.

5. IO DEVICE ALLOCATION TABLES AND IO REQUIREMENTS

5.1. Site IO Requirements

On site IO is only available at the IOG cabinet and some RSSs capable of supporting the V24I-B3 card found in IOSULT or MTU magazines. V24 cards found in IOIM P83 magazines are no longer supported.

Connection to these ports will require suitable cables taken on site for the duration of the project.

One AT port per node has been reserved for on site work being AT-4 and AT-21 for IOG11B and IOG20C respectively. These ATs are not connected to DCN as has been the case for IOG20C sites. If a project requires more than one port then the GOC ports can be used for the duration of the project. Permission should be sought from the GOC before disconnecting a GOC port from DCN in such cases.

Many sites may still have building cabling from the IOG to patch panels and old maintenance control areas. These are no longer maintained or supported by operations.

5.2. General O&M Port Allocations

Allocation of physical ATs, virtual ATs and MTP sessions are as follows

Device AT 00 - 23	Physical ATs reserved for GOC and systems as required
Device AT 50 - 69	Virtual ATs via NEM reserved for GOC as required
Device AT 70 - 77	Virtual ATs via NEM reserved for systems as required
Device AT 78 - 79	Virtual ATs via NEMB reserved for GOC as required
Device AT 80 - xx	Phantom ATs reserved for SULTAN SAI test positions
Device AMTP-9	Fifty logical channels exist via NEM. General use
Device AMTP-10	Fifty logical channels exist via NEMB. General use

The following basic factors & requirements determine the overall I/O allocation:

- AF-3 is the System defined standby device.
- Load balancing between Line Units
- Critical Line units working in twin mode.
- Diversity of ports across both IOG Nodes.
- X28 and X25 services are not mixed within the same Line Unit.

5.3. IOG Port and Data Communication SubSystem Allocation

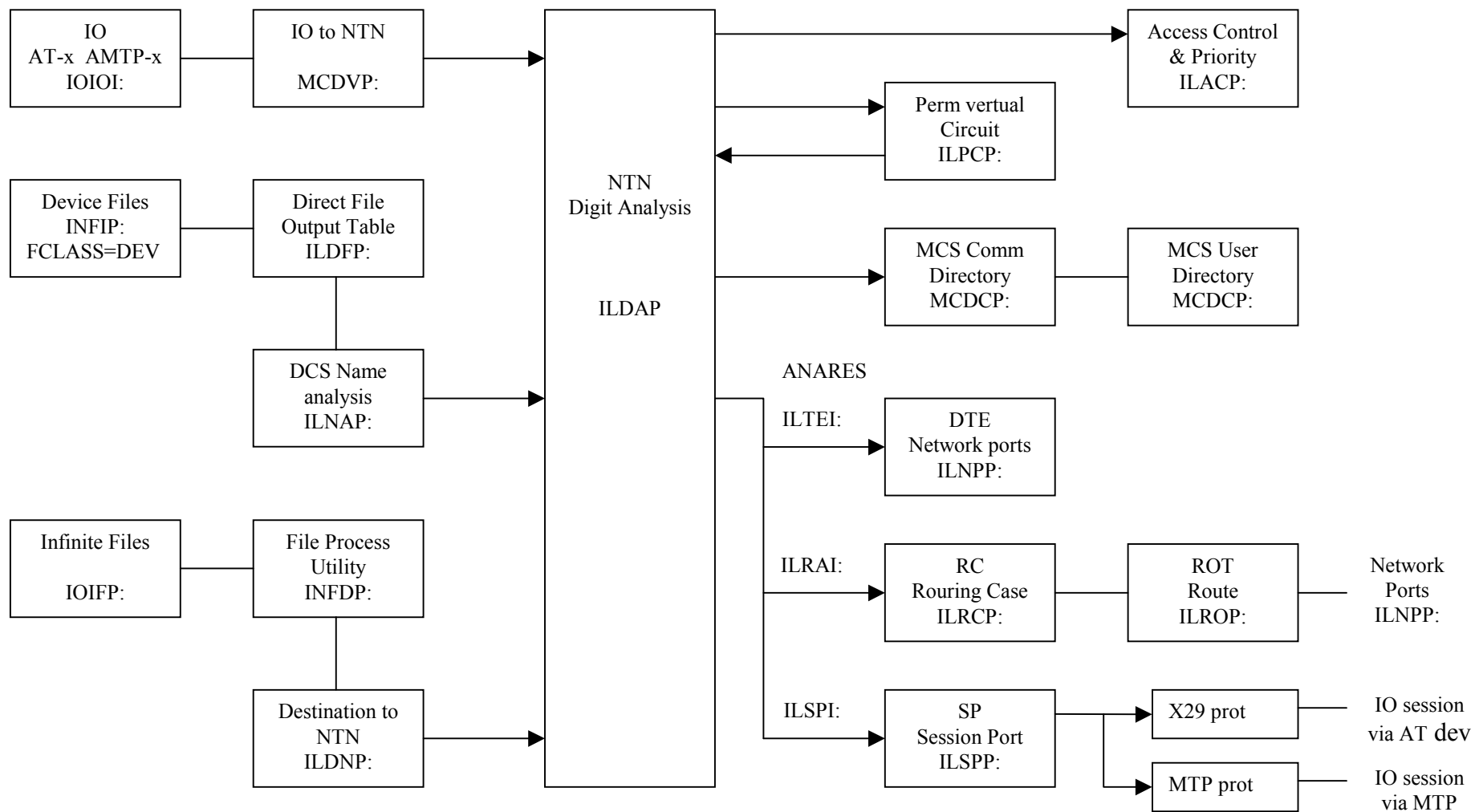
Standard allocation of ports and IO devices are shown in the following tables. Each exchange type has two tables, the first shows network port allocation (ISO layer 1, 2 &3), the second shows IO devices and other users of these ports (ISO layers 3 to 7). The two tables are associated by the Network Terminal Number (NTN) which is used by the ISO network layer as an address to either a network port or session.

With the introduction of high-speed links via NEM many users (or services) will be migrated from dedicated physical ports to high-speed links.

5.3.1. IOG DCS Data Description

The following diagram is information only showing data structure for the IOG Data Communication Sub system.

To view this diagram change Word view option from Normal to Page Layout



Data communication within the IOG is structured according to the OSI model and is mainly implemented in the DCS sub system. All data communication functions are allocated a Network Terminal Number (NTN). The NTN has a maximum of 15 numbers and can be used as an address to systems with in the IOG or external (X.121) systems to the IOG.

References to Pool in the tables below are for information only. Pools 1 to 4 and priority high or low are allocated to each port in the NEM system and control users allowable access within NEM. See TD00-214 "Integration NEM with Operations" for more information.

5.3.2. DCS Allocation IOG11B for LAS / IGS / STP

IOG11B PORT ALLOCATION (LAS / IGS / STP)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT	Priority	Cabled to
	APN(A) SPG-0 Node A			X.28/V24	4800 7-E-1			DCN
	APN(B) SPG-0 Node B			X.28/V24	4800 7-E-1			DCN
	APN(C) SPG-1 Node A			X.28/V24	4800 7-E-1			DCN
	APN(D) SPG-1 Node B			X.28/V24	4800 7-E-1			DCN
	CPT			SDLC/V24	64000	1-2-2-1		MAU
{nn} Two digit sub address. Site dependent.	AOM connection Called sub address to MTP session	SP=MTP					4-4	
0100	AOM	DTE		X.25/V24	2400	1-1-2-1	4-4	DCN
	HSL-A		5	X25DTE/X21	64000	1-2-4-1		DCN
	HSL-B		5	X25DTE/X21	64000	1-1-3-1		DCN
0505236651029	NEM	RC=54	5					
0505278850019	NEMDR	RC=54	5					
0505{MDCS_called_add}	MDCS	RC=54	5					
0505{CCAS_called_add}	CCAS	RC=53	6					
0505222650004	AT-40 NICAD router	RC=55	6					

IOG11B PORT ALLOCATION (LAS / IGS / STP)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT	Priority	Cabled to
0505229353007	AT-41 NICAD router	RC=55	6					
0505262052042	AT-42 NICAD router	RC=55	6					
0505262052043	AT-43 NICAD router	RC=55	6					
0505222650109	AT-44 NICAD router	RC=55	6					
0505222650110	AT-45 NICAD router	RC=55	6					
0505262052009	AT-46 NICAD router	RC=55	6					
0505262252015	AT-47 NICAD router	RC=55	6					
	AT-48 NICAD router							
	AT-49 NICAD router							
	CCAS & MDR Alarms		6	X.25DTE/V24	9600	1-1-2-2	4-4	DCN LAS only
0505{MCS_called_add}	MCS (SPG-0)	DTE		X.25DTE/X21	64000 Note 2	1-1-4-1	4-4	DCN LAS/IGS only
0505{MCS_called_add} Only required for SPG-1	MCS (SPG-1)	DTE		X.25DTE/X21	64000 Note 2	17-1-1-1	4-4	DCN LAS/IGS only
0505{SNS_called_add}	SNS	DTE		X.25DTE/V24	9600	1-2-3-1	4-4	DCN LAS only
0505{SULTAN_called_add}	SULTAN	DTE		X.25DTE/V24	9600	1-1-2-12	4-4	DCN LAS only
0505{TRAXE_called_add}	TRAXE	DTE		X.25DTE/V24	9600	1-1-2-4	4-4	DCN
96	AT connection Called sub address to X29 session	SP=X29					1-1	
11102	AT-01	DTE		X.28/V24	2400 7-E-1	1-1-1-2	1-1	ALI-0
11104	AT-03	DTE		X.28/V24	9600 7-E-1	1-1-1-4	1-1	DCN
11110	AT-09	DTE		X.28/V24	9600 7-E-1	1-1-1-10	1-1	DCN
11111	AT-10	DTE		X.28/V24	9600 7-E-1	1-1-1-11	1-1	DCN

IOG11B PORT ALLOCATION (LAS / IGS / STP)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT	Priority	Cabled to
12101	AT-04	DTE		X.28/V24	9600 7-E-1	1-2-1-1	1-1	On site port
12104	AT-07	DTE		X.28/V24	9600 7-E-1	1-2-1-4	1-1	DCN
12109	AT-12	DTE		X.28/V24	9600 7-E-1	1-2-1-9	1-1	DCN
12111	AT-14	DTE		X.28/V24	9600 7-E-1	1-2-1-11	1-1	DCN

Note 2: Preferred rate is 64000. Many site operate at 48000. Sites HMCN, CHTP, LOPS operate at 9600 off NP=1-1-2-2

IOG11B DEVICE ALLOCATION (LAS / IGS / STP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
AD-1	Adjunct processor. Not used		14		
AD-2	Adjunct processor. Not used		14		
AF-0	AF file. Miscellaneous use File=AFFILE				
AF-1	Restart data log File=AFFILEREST				
AF-2	Malicious calls log File=AFFILEMAL				
AF-3	Unknown/New alarms File=AFFILEJUNK				
AF-4	Used to collect reply to SYBUP File=DUMPMAS				Only exist while dumping in progress
AF-5	Used to collect C7 error history File=AFFILEC7ERP				
AMTP-0	AOM	0100	12		

IOG11B DEVICE ALLOCATION (LAS / IGS / STP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
AMTP-3	SULTAN	0505{SULTAN_called_add}	2		
AMTP-4	Traffic Data Acquisition (TRAXE)	0505{TRAXE_called_add}	0		
AMTP-6	Charging Check (CCAS)	0505{CCAS_called_add}	5		
AMTP-7	Special network services (SNS)	0505{SNS_called_add}	7		
AMTP-8	Data Collection System (MDCS)	0505{MDCS_called_add}	14		XDCN-0557
AMTP-9	Network Element Mediator	0505236651029	14		
AMTP-10	Network Element Mediator Disaster Recovery	0505278850019	14		
AT-00 Post NEM	On site IO. Used for general O&M as required. Vacant	11101	15		
AT-01	Alarm Interface. Display panel and External alarm receivers type 2 numbers 0-31	11102	6		
AT-02 Post NEM	Dual use -. 1. Network Design & Construction commissioning. 2. CNA loading. Vacant	11103	15		
AT-03	DCN. Hunt Group 1 GOC.	11104	14	1 High	COMMATT
AT-04	On site IO. Alarms sent to IO when attended. Under normal operations leave AT-4 unattended to prevent alarm sending.	12101	15		
AT-05 Post NEM	Alarms to SORTER Vacant	12102	12 14	1 High	
AT-06 Post NEM	SORTER - NEPR & commands & responses. Vacant	12103	12	1 High	
AT-07 Post NEM	DCN. Hunt Group 1 GOC. GOC	12104	14 14	2 High	COMMATT Alarm sending when attended
AT-08 Post NEM	DCN. Hunt Group 2 Product Connect (Note 1) Vacant	11109	3 14	1 High	
AT-09	DCN. Exchange Data Collection System (EDCS).	11110	4		

IOG11B DEVICE ALLOCATION (LAS / IGS / STP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
Post NEM	GOC		14	2 High	COMMATT Alarm sending when attended as SB
AT-10 Post NEM	DCN. Hunt Group 2 Product Connect (Note 1) Vacant	11111	3 14	1 High	
AT-12 Post NEM	DCN. Hunt Group 2 Product Connect (Note 1) GOC	12109	3 14	1 High	
AT-13	AUTOCAT (Note 1)	12110	3		
AT-14	Alarms to NICAD	12111	12		
AT-32 Post NEM	DCN. Hunt Group 1 GOC. Ended				
AT-33 Post NEM	DCN. Hunt Group 1 GOC. Also provides APN access via a patch panel Ended				
AT-34 Post NEM	DCN. Hunt Group 2 Product Connect (Note 1) Ended				
AT-35 Post NEM	Spare, (May be used by NDC with GOC approval) Ended				
AT-40	NIDAD Router. ISDN alarms via MDR	0505222650004	14		
AT-41	NIDAD Router. ISDN alarms via MDR	0505229353007	14		
AT-42	NIDAD Router. ISDN alarms via MDR	0505262052042	14		
AT-43	NIDAD Router. ISDN alarms via MDR	0505262052043	14		
AT-44	NIDAD Router. ISDN alarms via MDR	0505222650109	14		
AT-45	NIDAD Router. ISDN alarms via MDR	0505222650110	14		
AT-46	NIDAD Router. ISDN alarms via MDR	0505262052009	14		
AT-47	NIDAD Router. ISDN alarms via MDR	0505262252015	14		

IOG11B DEVICE ALLOCATION (LAS / IGS / STP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
AT-50&&-59	GOC only	0505236651029nn	14	1 Low	Where nn = AT number
AT-60&&-65	GOC Vendors Eg Ericsson	0505236651029nn	14	4 Low	Where nn = AT number
AT-66&&-69	GOC Contractors Eg NDC	0505236651029nn	14	2 High	Where nn = AT number
AT-70	Sorter alarms via NEM	050523665102970	14	3 Low	
AT-71	Sorter commands & NEPR via NEM	050523665102971	14	3 Low	
AT-72	EDCS via NEM	050523665102972	14	2 Low	
AT-73&&-77	Spare NEM VATs	0505236651029nn	14		Where nn = AT number
AT-78&-79	Network Element Mediator Disaster Recovery	0505278850019nn	14	1 High	Where nn = AT number
AT-80&&-179	SULTAN test positions See Sect SULTAN test lines				Where AT number = SAI device + 80 Note:AT's only appear in a EXTTPP:SURVEY; as these AT's are ended once the test position is created.
DL-1	AOM. Uses are: C7 Traffic Measurement File=C7TMFILE NM Counter Date for destinations File=CODADESTFILE Call Meter File=CMVNFILE Traffic Observation File=OBSFILE Traffic Character Measurements on routes File=TRACAFILE	0100			Moved to DL-4 post NEM No longer in use

IOG11B DEVICE ALLOCATION (LAS / IGS / STP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
DL-4	Data Collection System (MDCS)	0505{MDCS_called_add}			XDCN-0557
DL-5	Traffic Type Measurement File=TRARTFILE	0505{TRAXE_called_add}			
DL-6	C7 Performance Measurement File=C7PMFILE	0505{TRAXE_called_add}			
DL-7	Data Recording per Call File=TRADOFILE	0505{TRAXE_called_add}			
DL-8	Special Network Services File=RCEFILE	0505{SNS_called_add}			
DL-9	Network Element Mediator File=NEM	0505236651029			
DL-10	Network Element Mediator Disaster Recovery File=NEMDR	0505278850019			
FPU DEST={aom}	AOM	0100			
FPU DEST=CCAS	Charge Check File=CHCNTRL	0505{CCAS_called_add}			
FPU DEST=MCS	Charging File=TTFILenn	0505{MCS_called_add}			
FPU DEST=SNS	Special network services	0505{SNS_called_add}			
FPU DEST=TRAXE	Traffic Type Measurement File=TRARFILE	0505{TRAXE_called_add}			
TW-32&&-nn	RSS connected TW's		13		

5.3.3. DCS Allocation IOG11B for SCP

Note: All remaining IOG11B SCP sites (CPCS & EPCS) will be up graded to 21230/IOG20C during year 2003. This table will be removed in the next issue

IOG11B PORT ALLOCATION (SCP)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT	Priority	Cabled to
	APN(A)			X.28/V24	4800 7-E-1			DCN
	APN(B)			X.28/V24	4800 7-E-1			DCN
	CPT			SDLC/V24	64000	1-2-2-1		MAU
{nn} Two digit sub address. Site dependent.	AOM connection Called sub address to MTP session	SP=MTP					4-4	
0100	AOM	DTE		X.25/V24	2400	1-1-2-1	4-4	DCN
0505 {SMAS_called_add}	SMAS	RC=20	2					
0505 {other_SCP_node} {nn} nn = MTP sub add session into other SCP	FTP between STPs	RC=30	2					
	SMAS		2	X.25DTE/X21	48000	1-1-4-1		DCN
	HSL-A		5	X25DTE/X21	64000	1-2-4-1		DCN
	HSL-B		5	X25DTE/X21	64000	1-1-3-1		DCN
96	AT connection Called sub address to X29 session	SP=X29					1-1	
11101	AT-00	DTE		X.28/V24	9600 7-E-1	1-1-1-1	1-1	Patch panel
11102	AT-01	DTE		X.28/V24	2400 7-E-1	1-1-1-2	1-1	ALI-0
11103	AT-02	DTE		X.28/V24	9600 7-E-1	1-1-1-3	1-1	Patch panel
11104	AT-03	DTE		X.28/V24	9600 7-E-1	1-1-1-4	1-1	DCN

IOG11B PORT ALLOCATION (SCP)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT	Priority	Cabled to
11110	AT-09	DTE		X.28/V24	9600 7-E-1	1-1-1-10	1-1	DCN
12101	AT-04	DTE		X.28/V24	9600 7-E-1	1-2-1-1	1-1	Patch panel
12102	AT-05	DTE		X.28/V24	9600 7-E-1	1-2-1-2	1-1	DCN
12103	AT-06	DTE		X.28/V24	9600 7-E-1	1-2-1-3	1-1	DCN
12104	AT-07	DTE		X.28/V24	9600 7-E-1	1-2-1-4	1-1	DCN
12111	AT-14	DTE		X.28/V24	9600 7-E-1	1-2-1-11	1-1	DCN
12112	AT-15	DTE		X.28/V24	9600 7-E-1	1-2-1-12	1-1	As required

IOG11B DEVICE ALLOCATION (SCP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
AF-0	AF file. Miscellaneous use File=AFFILE				
AF-1	Restart data log File=AFFILEREST				
AF-2	Malicious calls log File=AFFILEMAL				
AF-3	Unknown/New alarms File=AFFILEJUNK				
AF-4	Used to collect reply to SYBUP File=DUMPMAS				Only exist while dumping in progress
AF-5	Used to collect C7 error history File=AFFILEC7ERP				

IOG11B DEVICE ALLOCATION (SCP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
AMTP-0	AOM	0100	12		
AMTP-5	SMAS	0505{SMAS_called_add}	12		
AMTP-9	Network Element Mediator	0505236651029	14		
AMTP-10	Network Element Mediator Disaster Recovery	0505278850019	14		
AT-00	On site IO. Used for general O&M as required.	11101	15		
AT-01	Alarm Interface. Display panel and External alarm receivers type 2 numbers 0-31	11102	6		
AT-02	Dual use -. 1. Network Design & Construction commissioning. 2. CNA loading.	11103	15		
AT-03	DCN. Hunt Group 1 GOC	11104	14		COMMATT
AT-04	On site IO. Alarms sent to IO when attended. Under normal operations leave AT-4 unattended to prevent alarm sending.	12101	15		
<u>AT-05</u> <u>Post NEM</u>	<u>Alarms to SORTER</u> <u>GOC</u>	<u>12102</u>	<u>12</u> <u>14</u>	<u>1 High</u>	
AT-06	SORTER - NEPR & commands & responses.	12103	12	1 High	
AT-07 Post NEM	DCN. Hunt Group 1 GOC GOC Contractor Eg NDC	12104	14 14	2 High	COMMATT Alarm sending when attended
AT-09 Post NEM	DCN. Exchange Data Collection System (EDCS). GOC Contractors Eg NDC	11110	4 14	2 High	COMMATT Alarm sending when attended as SB
AT-14	Alarms to NICAD	12111	12		
AT-15	Network Design & Construction commissioning.	12112	15		

IOG11B DEVICE ALLOCATION (SCP)					
DEVICE	FUNCTION	NTN	ATGR	POOL	COMMENTS
AT-32 Post NEM	DCN. Hunt Group 1 TMG/SDLG/EFM. Ended	11301	14		COMMATT
AT-33 Post NEM	DCN. Hunt Group 1 TMG/SDLG/EFM. Also provides APN access via a patch panel Ended	11302	14		COMMATT
AT-50&&-59	GOC only	0505236651029nn	14	1 Low	Where nn = AT number
AT-60&&-65	GOC Vendors Eg Ericsson	0505236651029nn	14	4 Low	Where nn = AT number
AT-66&&-69	GOC Contractors Eg NDC	0505236651029nn	14	2 High	Where nn = AT number
AT-70	Sorter alarms via NEM	050523665102970	14	3 Low	
AT-71	Sorter commands via NEM	050523665102971	14	3 Low	
AT-72	EDCS via NEM	050523665102972	14	2 Low	
AT-73&&-77	Spare NEM VATs	0505236651029nn	14		Where nn = AT number
AT-78&-79	Network Element Mediator Disaster Recovery	0505278850019nn	14	1 High	Where nn = AT number
DL-1	AOM.	0100			
FPU DEST={Other_ST P}	FTP between STPs	0505{other_SCP_node}{nn} nn = MTP sub add session into other SCP			
FPU DEST=SMAS	SMAS File=SSIBIN1 File=SSIBIN2 File=SSIBIN3 File=SSIFILE1 File=SSIFILE2 File=SSIFILE3	0505{MCS_called_add}			

5.3.4. DCS Allocation IOG20C for LAS / IGS / STP / VoPC

Note: VoPC sites also known as engine are to be configured as per a LAS site.

Note: Vacant ports need not be cabled to IOG patch panel. These cables are Ericsson supplied. See Doc 010725A03-07 AXE Hardware Standards. These ports should not be initiated in data to prevent unnecessary port alarms.

IOG20C PORT ALLOCATION (LAS / IGS / STP / VoPC)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT A node / B node	Priority	Cabled to
	APN(A)			X.28/V24	4800 7-E-1			DCN
	APN(B)			X.28/V24	4800 7-E-1			DCN
	CPT			SDLC/V36	64000	1-1-1-3 / 1-2-1-3		MAU
{nn} Two digit sub address. Site dependent.	AOM connection Called sub address to MTP session	SP=MTP						
0505{AOM_called_add}	AOM	RC=50	5					
0505{CCAS_called_add}	CCAS	RC=53	5					
0505{SULTAN_called_add}	SULTAN	RC=51	5					
0505{TRAXE_called_add}	TRAXE	RC=52	5					
0505222650004	AT-40 NICAD router	RC=55	5					
0505229353007	AT-41 NICAD router	RC=55	5					
0505262052042	AT-42 NICAD router	RC=55	5					
0505262052043	AT-43 NICAD router	RC=55	5					
0505222650109	AT-44 NICAD router	RC=55	5					
0505222650110	AT-45 NICAD router	RC=55	5					
0505262052009	AT-46 NICAD router	RC=55	5					

IOG20C PORT ALLOCATION (LAS / IGS / STP / VoPC)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT A node / B node	Priority	Cabled to
0505262252015	AT-47 NICAD router	RC=55	5					
	HSL-A		5	X.25DTE/X.21	64000	1-1-1-4 / 1-2-1-4		DCN
	HSL-B		5	X.25DTE/X.21	64000	1-1-2-1 / 1-2-2-1		DCN
0505236651029	NEM	RC=54	5					
0505278850019	NEMDR	RC=54	5					
0505{MDCS_called_add}	MDCS	RC=54	5					
0505{MCS_called_add}	MCS	DTE		X.25DTE/X.21	64000	1-1-2-4 / 1-2-2-4	4-4	DCN LAS/IGS only
0505{SNS_called_add}	SNS	DTE		X.25DTE/V.24	9600	1-1-2-2 / 1-2-2-2	4-4	DCN LAS only
11102	AT-01	DTE		X.28/V.24	2400 7-E-1	1-1-1-2 / 1-2-1-2	1-1	ALI-0
11201 Post NEM	AT-04 Replaced by HSL-B	DTE		X.28/V.24	9600 7-E-1	1-1-2-1 / 1-2-2-1	1-1	
11203	AT-14	DTE		X.28/V.24	9600 7-E-1	1-1-2-3 / 1-2-2-3	1-1	DCN
11301	AT-08	DTE		X.28/V.24	9600 7-E-1	1-1-3-1	1-1	DCN LAS only
11302	AT-09	DTE		X.28/V.24	9600 7-E-1	1-1-3-2	1-1	DCN
11303	AT-10	DTE		X.28/V.24	9600 7-E-1	1-1-3-3	1-1	DCN
12304	AT-11	DTE		X.28/V.24	9600 7-E-1	1-1-3-4	1-1	Vacant
12301	AT-20	DTE		X.28/V.24	9600 7-E-1	1-2-3-1	1-1	DCN
12302	AT-21	DTE		X.28/V.24	9600 7-E-1	1-2-3-2	1-1	On site port
12303	AT-22	DTE		X.28/V.24	9600 7-E-1	1-2-3-3	1-1	DCN
12304	AT-23	DTE		X.28/V.24	9600 7-E-1	1-2-3-4	1-1	Vacant
96	AT connection Called sub address to X.29 session	SP=X.29						

IOG20C DEVICE ALLOCATION (LAS / IGS / STP / VoPC)					
DEVICE IOG20C	FUNCTION	NTN	ATGR	POOL	COMMENTS
AD-1	Adjunct processor. Not used		14		
AD-2	Adjunct processor. Not used		14		
AF-0	AF file. Miscellaneous use File=AFFILE				
AF-1	Restart data log File=AFFILEREST				
AF-2	Malicious calls log File=AFFILEMAL				
AF-3	Unknown/New alarms File=AFFILEJUNK				
AF-4	Used to collect reply to SYBUP File=DUMPMAS				Only exist while dumping in progress
AF-5	Used to collect C7 error history File=AFFILEC7ERP				
AMTP-0	AOM	0505{AOM_called_add}	12		
AMTP-3	SULTAN	0505{SULTAN_called_add}	2		
AMTP-4	Traffic Data Acquisition (TRAXE)	0505{TRAXE_called_add}	0		
AMTP-6	Charging Check (CCAS)	0505{CCAS_called_add}	5		
AMTP-7	Special network services (SNS)	0505{SNS_called_add}	7		
AMTP-8	Data Collection System (MDCS)	0505{MDCS_called_add}	14		XDCN-0557
AMTP-9	Network Element Mediator	0505236651029	14	2 Low	
AMTP-10	Network Element Mediator Disaster Recovery	0505278850019	14	2 Low	
AT-01	Alarm Interface (External alm receivers provided only)	11102	6		
AT-08	Autocat	11301	3		

IOG20C DEVICE ALLOCATION (LAS / IGS / STP / VoPC)					
DEVICE IOG20C	FUNCTION	NTN	ATGR	POOL	COMMENTS
AT-09	GOC	11302	14	1 High	COMMATT
AT-10	GOC	11303	14	2 High	COMMATT Alarm sending when attended
AT-11 Post NEM	Product Connect Vacant	11304	3		
AT-14	Alarms to NICAD	11203	12		
AT-20	GOC	12301	14	2 High	COMMATT Alarm sending when attended as SB
AT-21	On site IO. Alarms sent to IO when attended. Under normal operations leave AT-21 unattended to prevent alarm sending.	12302	15		
AT-22	GOC	12303	14	1 High	COMMATT
AT-23 Post NEM	Product Connect Vacant	12304	3		
AT-40	NIDAD Router. ISDN alarms via MDR	0505222650004	14		
AT-41	NIDAD Router. ISDN alarms via MDR	0505229353007	14		
AT-42	NIDAD Router. ISDN alarms via MDR	0505262052042	14		
AT-43	NIDAD Router. ISDN alarms via MDR	0505262052043	14		
AT-44	NIDAD Router. ISDN alarms via MDR	0505222650109	14		
AT-45	NIDAD Router. ISDN alarms via MDR	0505222650110	14		
AT-46	NIDAD Router. ISDN alarms via MDR	0505262052009	14		
AT-47	NIDAD Router. ISDN alarms via MDR	0505262252015	14		
AT-50&&-59	GOC only	0505236651029nn	14	1 Low	Where nn = AT number
AT-60&&-65	GOC Vendors Eg Ericsson	0505236651029nn	14	4 Low	Where nn = AT number
AT-66&&-69	GOC	0505236651029nn	14	2 High	Where nn = AT number

IOG20C DEVICE ALLOCATION (LAS / IGS / STP / VoPC)					
DEVICE IOG20C	FUNCTION	NTN	ATGR	POOL	COMMENTS
	Contractors Eg NDC				
AT-70	Sorter alarms via NEM	050523665102970	14	3 Low	NEM Pool 3
AT-71	Sorter commands & NEPR via NEM	050523665102971	14	3 Low	NEM Pool 3
AT-72	EDCS via NEM	050523665102972	14	2 Low	NEM Pool 3
AT-73&&-77	Spare NEM VATs	0505236651029nn	14	3 Low	Where nn = AT number
AT-78&-79	Network Element Mediator Disaster Recovery	0505278850019nn	14	1 High	Where nn = AT number NEM Pool 1
AT-80&&-179	SULTAN test positions See Sect SULTAN test lines				Where AT number = SAI device + 80 Note:AT's only appear in a EXTTP:SURVEY; as these AT's are ended once the test position is created.
DL-1	AOM. Uses are: C7 Traffic Measurement File=C7TMFILE NM Counter Date for destinations File=CODADESTFILE	0505{AOM_called_add}			Moved to DL-4 post NEM
DL-4	Data Collection System (MDCS)	0505{MDCS_called_add}			XDCN-0557
DL-5	Traffic Type Measurement File=TRARTFILE	0505{TRAXE_called_add}			
DL-6	C7 Performance Measurement File=C7PMFILE	0505{TRAXE_called_add}			
DL-7	Data Recording per Call File=TRADOFIL	0505{TRAXE_called_add}			
DL-8	Special Network Services File=RCEFILE	0505{SNS_called_add}			
DL-9	Network Element Mediator	0505236651029			

IOG20C DEVICE ALLOCATION (LAS / IGS / STP / VoPC)					
DEVICE IOG20C	FUNCTION	NTN	ATGR	POOL	COMMENTS
	File=NEM				
DL-10	Network Element Mediator Disaster Recovery File=NEMDR	0505278850019			
FPU DEST=CCAS	Charge Check File=CHCNTRL	0505{CCAS_called_add}			
FPU DEST=MCS	Charging File=TTFIEnn	0505{MCS_called_add}			
FPU DEST=TRAXE	Traffic Type Measurement File=TRARFILE	0505{TRAXE_called_add}			
TW-32&&-nn	RSS connected TW's		13		

5.3.5. DCS Allocation IOG20C for SCP

Note: Vacant ports need not be cabled to IOG patch panel. These cables are Ericsson supplied. See Doc 010725A03-07 AXE Hardware Standards. These ports should not be initiated in data to prevent unnecessary port alarms.

IOG20C PORT ALLOCATION (SCP)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT A node / B node	Priority	Cabled to
	APN(A)			X.28/V24	4800 7-E-1			DCN
	APN(B)			X.28/V24	4800 7-E-1			DCN
	CPT			SDLC/V36	64000	1-1-1-3 / 1-2-1-3		MAU
{nn} Two digit sub address. Site dependent.	AOM connection Called sub address to MTP session	SP=MTP						
0505{AOM_called_add}	AOM	RC=50	5					
	HSL-A		5	X.25DTE/X.21	64000	1-1-1-4 / 1-2-1-4		DCN
	HSL-B		5	X.25DTE/X.21	64000	1-1-2-1 / 1-2-2-1		DCN
11203	AT-14	DTE		X.28/V24	9600 7-E-1	1-1-2-3 / 1-2-2-3	1-1	DCN
0505{SMAS_called_add}	SMAS	RC=20	2	X.25DTE/X.21	64000	1-1-2-4 / 1-2-2-4		DCN
11102	AT-01	DTE		X.28/V24	2400 7-E-1	1-1-1-2 / 1-2-1-2	1-1	ALI-0
11301	AT-08	DTE		X.28/V24	9600 7-E-1	1-1-3-1	1-1	Vacant
11302	AT-09	DTE		X.28/V24	9600 7-E-1	1-1-3-2	1-1	DCN
11303	AT-10	DTE		X.28/V24	9600 7-E-1	1-1-3-3	1-1	DCN
11304	AT-11	DTE		X.28/V24	9600 7-E-1	1-1-3-4	1-1	Vacant
12301	AT-20	DTE		X.28/V24	9600 7-E-1	1-2-3-1	1-1	DCN
12302	AT-21	DTE		X.28/V24	9600 7-E-1	1-2-3-2	1-1	On site port
12303	AT-22	DTE		X.28/V24	9600 7-E-1	1-2-3-3	1-1	DCN
12304	AT-23	DTE		X.28/V24	9600 7-E-1	1-2-3-4	1-1	Vacant

IOG20C PORT ALLOCATION (SCP)								
NTN	FUNCTION	NTN analysis	Route	Layer 2 & 1 Protocol	Rate Bits-Par-StopBits	PORT A node / B node	Priority	Cabled to
96	AT connection Called sub address to X29 session	SP=X29						

IOG20C DEVICE ALLOCATION (SCP)					
DEVICE IOG20C	FUNCTION	NTN	ATGR		COMMENTS
AD-1	Adjunct processor. Not used		14		
AD-2	Adjunct processor. Not used		14		
AF-0	AF file. Miscellaneous use File=AFFILE				
AF-1	Restart data log File=AFFILEREST				
AF-2	Malicious calls log File=AFFILEMAL				
AF-3	Unknown/New alarms File=AFFILEJUNK				
AF-4	Used to collect reply to SYBUP File=DUMPMAS				Only exist while dumping in progress
AF-5	Used to collect C7 error history File=AFFILEC7ERP				
AMTP-0	AOM	0505{AOM_called_add}	12		
AMTP-4	Traffic Data Acquisition (TRAXE)	0505{TRAXE_called_add}	0		
AMTP-5	SMAS	0505{SMAS_called_add}	12		
AMTP-9	Network Element Mediator	0505236651029	14	2 Low	
AMTP-10	Network Element Mediator Disaster Recovery	0505278850019	14	2 Low	

IOG20C DEVICE ALLOCATION (SCP)					
DEVICE IOG20C	FUNCTION	NTN	ATGR		COMMENTS
AT-01	Alarm Interface (External alm receivers provided only)	11102	6		
AT-09	GOC	11302	14	1 High	COMMATT
AT-10	GOC	11303	14	2 High	COMMATT Alarm sending when attended
AT-20	GOC	12301	14	2 High	COMMATT Alarm sending when attended as SB
AT-21	On site port	12302	15	1 High	
AT-22	GOC	12303	14	1 High	COMMATT
AT-50&&-59	GOC only	0505236651029nn	14	1 Low	Where nn = AT number
AT-60&&-65	GOC Vendors Eg Ericsson	0505236651029nn	14	4 Low	Where nn = AT number
AT-66&&-69	GOC Contractors Eg NDC	0505236651029nn	14	2 High	Where nn = AT number
AT-70	Sorter alarms via NEM	050523665102970	14	3 Low	
AT-71	Sorter commands via NEM	050523665102971	14	3 Low	
AT-72	EDCS via NEM	050523665102972	14	2 Low	
AT-73&&-77	Spare NEM VATs	0505236651029nn	14		Where nn = AT number
AT-78&-79	Network Element Mediator Disaster Recovery	0505278850019nn	14	1 High	Where nn = AT number NEM Pool 1
FPU DEST=SMAS	SMAS File=SSIBIN1 File=SSIBIN2 File=SSIBIN3 File=SSIFILE1 File=SSIFILE2 File=SSIFILE3	0505{SMAS_called_add}			

5.3.6. SULTAN Monitor Line Test Position

To provide the monitoring function via SULTAN network an additional test position for each RSS (type P83 & P86) is required. This line is physically jumpered from an LI3 either off the same RSS or one in the same building to the SAI magazine within the RSS. The Test position AT-xx only needs creating for the purpose of initiating the test position. Once the test position is initiated the AT is ended leaving only the test position.

Most P90 RSS's have an MRU type SULTD device which provides monitoring without the need of a monitoring line. These can be identified by doing a SLOMI on any line within the RSS and noting the version type (1 or 2) in the SLOMI print. Version twos are the MRU type and do not require this line. In some cases the SAI magazine is still equipped in P90 RSS's and used by the SULTAN network. As a general rule if the SAI device exist in a EXEDP print a monitoring line should also be provided.

Prerequisites

- SULTAN support have allocated and connected an LI3 and SUB for the monitor line. {sai_num}
- SAI device exist in the EXEDP print for the RSS eg SAI-15 {sai_device}
- Test position AT number. Equals SAI number plus 80 eg AT-95 {at_testpos}
- LI3 has been jumpered to the SAI device on the MDF
- TCALT route exist for RSS eg T+EXHGA {tcalt}
- Two Ozterm sessions connected to the node via physical AT's. (session 1 and session 2)

Commands

From session 2

Request and dismiss exchange header. Enter & Ctrl D. Note AT number {at2}

From session 1

Identify NTN for {at2}

IMCLT:SPG=0;

MCDVP; Note NTN for {at2} {ntn}

MCDVR:IO={at2};

MCDVI:IO={at_testpos},NTN={ntn};

END;

IOIOI:IO={at_testpos},DET;

IOBLE:IO={at_testpos};

From session 2

Log on and ensure the header shows the correct AT test position.

EXTPI:BNB={sai_num},R={tcalt};

EXATI;

EXTPP;

Log off with Ctrl D

From session 1

EXSAI:BNB={sai_num},DEV={sai_device};

Note if fault code 5 is returned, this indicates the jumper hasn't been run from the SAI to the LI3. Only once the jumpers been run will it be possible to execute this command.

Restore AT's to normal

IOBLI:IO={at_testpos};

IOIOR:IO={at_testpos};

IMLCT:SPG=0;

MCDVR:IO={at_testpos};

MCDVI:IO={at2},NTN={ntn};

END;

From session 2

Log on and ensure the header shows the original AT number. {at2}

Job complete.

5.3.7. Physical Port Layouts

5.3.7.1. Hardware Allocation IOG11B-S APZ212. Pre NEM

NEM was deployed early 2003. This section is no longer up to date and is only included for information only.

NODE A, SPG 0
IOEXT-A MAGAZINE

LU=1-1-1

LU=1-1-2

LU=1-1-3

LU=1-1-4

CHAR=2

AT-0 11101 1-1-1-1	AT-8 11109 1-1-1-9
AT-1 11102 1-1-1-2	AT-9 11110 1-1-1-10
AT-2 11103 1-1-1-3	AT-10 11111 1-1-1-11
AT-3 11104 1-1-1-4	AT-11 11112 1-1-1-12

7

8

CHAR=17

AMTP-0 0100 1-1-2-1	Spare
AMTP-6 1-1-2-2	Spare
Spare	Spare
AMTP-4 TRAXE ADDR 1-1-2-4	AMTP-3 SULTAN 1-1-2-12

10

11

CHAR=2

AT-32 11301 1-1-3-1	AT-40 11309 1-1-3-9
AT-33 11302 1-1-3-2	AT-41 11310 1-1-3-10
AT-34 11303 1-1-3-3	AT-42 11311 1-1-3-11
AT-35 11304 1-1-3-4	AT-43 11312 1-1-3-12

13

14

CHAR=16

Main Nodes	
MCS MCS ADDR 1-1-4-1	
IN nodes	
AMTP-5 SMAS ADDR 1-1-4-1	

16

17

NODE B, SPG 0
IOEXT-B MAGAZINE

LU=1-2-1

CHAR=2

AT-4 12101 1-2-1-1	AT-12 12109 1-2-1-9
AT-5 12102 1-2-1-2	AT-13 12110 1-2-1-10
AT-6 12103 1-2-1-3	AT-14 12111 1-2-1-11
AT-7 12104 1-2-1-4	AT-15 12112 1-2-1-12

LU=1-2-2

CHAR=21

CPT	
12 201 1-2-2-1	

LU=1-2-3

CHAR=17

AMTP-7 SNS 1-2-3-1	

LU=1-2-4

CHAR=16

HSL1 1-2-4-1	

7	8	10	11	13	14	16	17
NODE A, SPG 1 IOEXT-A MAGAZINE							
LU=17-1-1		LU=1-1-2		LU=1-1-3		LU=1-1-4	
CHAR=16		CHAR=		CHAR=		CHAR=	
MCS MCS ADDR 17-1-1-1							
Spare							
7	8	10	11	13	14	16	17

Note: Shading indicates Not Equipped.

5.3.7.2. Hardware Allocation IOG11B-S APZ212. Post NEM

SPG=0 NODE=A											
LU=1-1-1 CHAR=2			LU=1-1-2 CHAR=17			LU=1-1-3 CHAR=16			LU=1-1-4 CHAR=16		
RPU	LIU	LIU	RPU	LIU	LIU	RPU	LIU4		RPU	LIU4	
	AT-0 Vacant 1-1-1-1	AT-8 Vacant 1-1-1-9		AMTP-0 AOM 1-1-2-1			HSL-B NEM 1-1-3-1			MCS 1-1-4-1 SMAS In SCP nodes	
	AT-1 ALI 1-1-1-2	AT-9 GOC 1-1-1-10		AMTP-6 CCAS 1-1-2-2							
	AT-2 Vacant 1-1-1-3	AT-10 Vacant 1-1-1-11									
	AT-3 GOC 1-1-1-4			AMTP-4 TRAXE 1-1-2-4	AMTP-3 SULTAN 1-1-2-12						
06	07	08	09	10	11	12	13	14	15	16	17

SPG=0 NODE=B											
LU=1-2-1 CHAR=2			LU=1-2-2 CHAR=21			LU=1-2-3 CHAR=17			LU=1-2-4 CHAR=16		
RPU	LIU	LIU	RPU	LIU4		RPU	LIU		RPU	LIU4	
	AT-4 On site port 1-2-1-1	AT-12 GOC 1-2-1-9		CPT 1-2-2-1			AMTP-7 SNS 1-2-3-1			HSL-A NEM 1-2-4-1	
	AT-5 Vacant 1-2-1-2	AT-13 Autocat 1-2-1-10									
	AT-6 Vacant 1-2-1-3	AT-14 NICAD 1-2-1-11									
	AT-7 GOC 1-2-1-4	AT-15 Vacant 1-2-1-12									
06	07	08	09	10	11	12	13	14	15	16	17

SPG=1 NODE=A											
LU=17-1-1 CHAR=16											
RPU	LIU4										
	MCS 17-1-1-1										
06	07	08	09	10	11	12	13	14	15	16	17

5.3.7.3. Hardware Allocation IOG20C APZ212. Pre NEM

NEM was deployed early 2003. This section is no longer up to date and is only included for information only.

Node A			Node B		
LU=1-1-1	LU=1-1-2	LU=1-1-3	LU=1-2-3	LU=1-2-2	LU=1-2-1
CHAR=79	CHAR=79	CHAR=79	CHAR=79	CHAR=79	CHAR=79
LUM 2V+1ETH	LUM 4V	LUM 4V		LUM 4V	LUM 2V 1ETH
NOT TO BE USED	AT-4 1-1-2-1	AT-8 1-1-3-1		AT-20 1-2-3-1	AT-4 1-2-2-1 NOT TO BE USED
AT-1 1-1-1-2	AMTP-7 1-1-2-2	AT-9 1-1-3-2		AT-21 1-2-3-2	AMTP-7 1-2-2-2 AT-1 1-2-1-2
CPT 1-1-1-3	AT-6 1-1-2-3	AT-10 1-1-3-3		AT-22 1-2-3-3	AT-6 1-2-2-3 CPT 1-2-1-3
HSL1 1-1-1-4	MCS 1-1-2-4	AT-11 1-1-3-4		AT-23 1-2-3-4	MCS 1-2-2-4 HSL1 1-2-1-4
28	32	36	48	52	56

LUM 1 and 2 are duplicated and have “Y” type connecting cables.

5.3.7.4. Hardware Allocation IOG20C APZ212. Post NEM

Node A				Node B			
LUM 3V+1ETH	LUM 4V	LUM 4V	ALCPU	ALEXP	LUM 4V	LUM 4V	LUM 3V 1ETH
LU=1-1-1	LU=1-1-2	LU=1-1-3			LU=1-2-3	LU=1-2-2	LU=1-2-1
CHAR=79	CHAR=79	CHAR=79			CHAR=79	CHAR=79	CHAR=79
TCP/IP port Not used	HSL-B 1-1-2-1	AT-8 Autocat 1-1-3-1			AT-20 GOC 1-2-3-1	HSL-B 1-2-2-1	TCP/IP port Not used
AT-1 ALI 1-1-1-2	AMTP-7 SNS 1-1-2-2	AT-9 GOC 1-1-3-2			AT-21 On site port 1-2-3-2	AMTP-7 SNS 1-2-2-2	AT-1 ALI 1-2-1-2
CPT 1-1-1-3	AT-14 NICAD 1-1-2-3	AT-10 GOC 1-1-3-3			AT-22 GOC 1-2-3-3	AT-14 NICAD 1-2-2-3	CPT 1-2-1-3
HSL-A 1-1-1-4	MCS 1-1-2-4	AT-11 Vacant 1-1-3-4			AT-23 Vacant 1-2-3-4	MCS 1-2-2-4	HSL-A 1-2-1-4
28	32	36	40	44	48	52	56

LUM 1 and 2 are duplicated and have “Y” type connecting cables.

5.3.7.5. Hardware Allocation SCP IOG20C APZ212. Post NEM

Node A				Node B			
LUM 3V+1ETH	LUM 4V	LUM 4V	ALCPU	ALEXP	LUM 4V	LUM 4V	LUM 3V 1ETH
LU=1-1-1	LU=1-1-2	LU=1-1-3			LU=1-2-3	LU=1-2-2	LU=1-2-1
CHAR=79	CHAR=79	CHAR=79			CHAR=79	CHAR=79	CHAR=79
TCP/IP port Not used	HSL-B 1-1-2-1	AT-8 Vacant 1-1-3-1			AT-20 GOC 1-2-3-1	HSL-B 1-2-2-1	TCP/IP port Not used
AT-1 ALI 1-1-1-2	Vacant 1-1-2-2	AT-9 GOC 1-1-3-2			AT-21 On site port 1-2-3-2	Vacant 1-2-2-2	AT-1 ALI 1-2-1-2
CPT 1-1-1-3	AT-14 NICAD 1-1-2-3	AT-10 GOC 1-1-3-3			AT-22 GOC 1-2-3-3	AT-14 NICAD 1-2-2-3	CPT 1-2-1-3
HSL-A 1-1-1-4	SMAS 1-1-2-4	AT-11 Vacant 1-1-3-4			AT-23 Vacant 1-2-3-4	SMAS 1-2-2-4	HSL-A 1-2-1-4
28	32	36	40	44	48	52	56

LUM 1 and 2 are duplicated and have “Y” type connecting cables.

6. IOG HD VOLUME DIMENSIONS

6.1. IOG11B HD Volume Dimensions

6.1.1. SCP Hard Disk Allocation For IOG11B5 SPG-0 (2 GB + 2 GB)

Volume	Size (kb)	Size (sectors)	Alarm limit (%)
PROG_x	60,000	120,000	90
OMFZLIBORD	15,000	30,000	80
EXCHVOLUME	2,000,777	4,001,554	90
RELVOLUMSW	2,075,777	4,151,554	95
Total	4,151,554	8,303,108	

6.1.2. LAS/IGS/STP Single SPG. SPG-0 (2 GB + 2 GB)

Volume	Size (kb)	Size (sectors)	Alarm limit (%)
PROG_x	60,000	120,000	90
OMFZLIBORD	15,000	30,000	80
EXCHVOLUME	250,000	500,000	90
RELVOLUMSW	2,000,777	4,001,554	95
CALLVOLUME	1,825,777	3,651,554	80
Total	4,151,554	8,303,108	

6.1.3. LAS/IGS/STP Dual SPG. SPG-0 (2 GB + 2 GB) / SPG-1 (2 GB + 2 GB)**SPG-0**

Volume	Size (kb)	Size (sectors)	Alarm limit (%)
PROG_x	60,000	120,000	90
OMFZLIBORD	15,000	30,000	80
EXCHVOLUME	400,000	800,000	90
RELVOLUMSW	2,000,777	4,001,554	95
SPARE	1,675,777	3,351,554	
Total	4,151,554	8,303,108	

SPG-1

Volume	Size (kb)	Size (sectors)	Alarm limit (%)
PROG_x	60,000	120,000	90
OMFZLIBORD	15,000	30,000	80
CALLVOLUME	4,076,554	8,153,108	80
Total	4,151,554	8,303,108	

6.2. IOG20C HD Volume Dimensions

6.2.1. LAS/IGS/STP Hard Disk Allocation For IOG20C (Old)

Note: These are the first issued allocations for IOG20. Growth in RELVOLSW has demanded a revision of volume allocations to the section below. Existing nodes will be repartitioned according to the new section

Volume	Size (kB)	Size (sectors)	Alarm limit (%)
PROG_x	150,000	300,000	90
OMFZLIBORD	50,000	100,000	90
EXCHVOLUME	4,000,000	8,000,000	90
RELVOLMSW	1,938,448	3,876,896	90
CALLVOLUME	10,000,000	20,000,000	80
STATVOLUME	500,000	1,000,000	80
OD_x	1,211,792	2,423,584	80
Total	17,852,240	35,700,480	

Note: OD_x is required for future file transfer capabilities. The size has to match the size of the optic drive.

6.2.2. LAS/IGS/STP Hard Disk Allocation For IOG20C

Volume	Size (kB)	Size (sectors)	Alarm limit (%)
PROG_x	150,000	300,000	90
OMFZLIBORD	50,000	100,000	90
EXCHVOLUME	4,000,000	8,000,000	90
RELVOLMSW	4,938,448	9,876,896	90
CALLVOLUME	7,000,000	14,000,000	80
STATVOLUME	500,000	1,000,000	80
OD_x	1,211,792	2,423,584	80
Total	17,850,240	35,700,480	

Note: OD_x is required for future file transfer capabilities. The size has to match the size of the optic drive.

7. FILE ALLOCATION FOR IOG

Tables below give a list of files that appear in an INFIP print. The aim of these tables is to provide information on the function and use of IOG files. For more information on IOG files see ALEX documentation. Many of these files are created automatically at IOG start up and do not require creating by command. Some files are not used by the Telstra network but are still required to satisfy the software, removing such files causes alarms.

7.1. File Allocation For IOG11B-S /A2 & /A5

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
C7PMFILE	-	DEV	A ^{Note1}	DL-6	0	2048	4	3	3	SEQ	C7 Performance Measurement	C7PPI	CCS-7
C7TMFILE	-	DEV	A ^{Note1}	DL-1	0	512	16	0	10	SEQ	C7 Traffic Measurement	C7TPI	CCS-7
CHASFILE	-	DEV		DL-1	0	2048	4	0	10	SEQ	Remove!!!		
CHCNTRL1OLD	-	DEV		DL-1	0	244	33	0	0	SEQ	Remove!!!		
CMVNFILE	-	DEV	A ^{Note1}	DL-1	0	2048	9	0	10	SEQ	Call meter	CHSOP	
CODADESTFILE	-	DEV	A ^{Note1}	DL-1	0	512	16	40	40	SEQ	NM Counter Date for destinations. Pre NEM	NEDCI	NMS
CODADESTFILE	-	DEV	A ^{Note1}	DL-4	0	3622		40	0	SEQ	NM Counter Date for destinations. Post NEM	NEDCI	NMS
CODAOLD	-	DEV		DL-1	0	2038	4	0	10	SEQ	Remove!!!		
FD0A1	-	DEV	A	FD-1	0	512	16	0	10	SEQ	Floppy Disk Node A		
FD0B1	-	DEV	B	FD-1	0	512	16	0	10	SEQ	Floppy Disk Node B		
OBSFILE	-	DEV	A ^{Note1}	DL-1	0	512	16	0	10	SEQ	Traffic Observation	TOBSI	OMS
OD0A1	-	DEV	A	OD-1	0	512	16	0	10	SEQ	Optical Disk Node A		
RCEFILE	-	DEV	A	DL-8	0	1024	30	10	10	SEQ	Special Network Services		
TRACAFILE	-	DEV	A ^{Note1}	DL-1	0	350	23	0	10	SEQ	Traffic Character Measurements on routes	TRSMI	OMS
TRADOFILE	-	DEV	A ^{Note1}	DL-7	0	4065	2	10	10	SEQ	Data Recording per Call	TRADI	OMS
TRADOOLD	-	DEV		DL-7	0	2005	4	0	3	SEQ	Remove!!!		
TRARTFILE	-	DEV	A ^{Note1}	DL-5	0	928	8	0	3	SEQ	Traffic Type Measurement	TRATI	OMS
CHCNTRL	CALLVOLUME	CMP	-		0	448	18	10	20	SEQ	Charge Check	CHURI	CHS
TTFILE05	CALLVOLUME	CMP	-		0	2048	4	10	200	SEQ	Toll Tickets Pkg5	CHOFI	CHS
TTFILE06	CALLVOLUME	CMP	-		0	2048	15	10	200	SEQ	Toll Tickets Pkg6	CHOFI	CHS
AFFILE	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Miscellaneous use	IOAFC	
AFFILEJUNK	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Unknown/New alarms		
AFFILEMAL	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Malicious calls log		
AFFILEREST	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Restart data log		
BGCTMFILE	EXCHVOLUME	CMP	-		0	2048	4	10	10	SEQ	BGC Traffic measurement	BUTTP	BGC

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
C7ERPRESET	EXCHVOLUME	SPL	-		0						C7 event cmd reading file		
CODARTEFILE	EXCHVOLUME	CMP	-		0	2022	4	0	0	SEQ	NM Counter Date for routes	NEDCI	NMS
INMFILE10	EXCHVOLUME	SPL	-		0	512	1	0	512	SEQ	Intelligent Network Buffer file. XDCN352		SES
INMFILE11	EXCHVOLUME	SPL	-		0	512	1	0	512	SEQ	Intelligent Network Buffer file. XDCN352		SSINMIO
INMFILE9	EXCHVOLUME	SPL	-		0	512	1	0	512	SEQ	Intelligent Network Buffer file. XDCN352		SES
INMLOG	EXCHVOLUME	CMP	-		0	512	1	1024	512	SEQ	Intelligent Network Log file. XDCN352		SSINMIO
INMPAR	EXCHVOLUME	SPL	-		0	32	1	1	0	SEQ	Intelligent Network Param file. XDCN352		SES
LOG	EXCHVOLUME	CMP	-		0	512	16	0	10	SEQ	Remove!!!		SSINMIO
SPFILE	EXCHVOLUME	CMP	-		0	1980	4	0	10	SEQ	Automatic Congestion control	NMDLC	NMS
SPTRANOBJECT	EXCHVOLUME	SPL	-		0	514	59	3	0	DIR	STS Object Table		STS
SPTRANTABLE	EXCHVOLUME	SPL	-		0	152	202	1	8	DIR	STS Translation Table		STS
STCPDUMP	EXCHVOLUME	CMP	-		0	2048	4	20	10	SEQ	STS Copied data from CP		STS
STFIOPADM	EXCHVOLUME	SPL	-		0	1800	17	1	0	DIR	STS Data for file output		STS
STFIOPFILE	EXCHVOLUME	CMP	-		0	2048	15	20	20	SEQ	?		STS
STFORMFILE	EXCHVOLUME	SPL	-		0	514	59	1	0	DIR	STS Measurements reports		STS
STMPFILE	EXCHVOLUME	SPL	-		0	400	76	0	0	DIR	STS MP data		STS
STOBJTYPE	EXCHVOLUME	CMP	-		0	20	def	200	10	SEQ	STS Object type data		STS
STOGHFILE	EXCHVOLUME	SPL	-		0	5800	5	1	0	DIR	STS Object group data		STS
STRECPARFILE	EXCHVOLUME	SPL	-		0	900	34	0	0	KEY	STS Recording parameter data		STS
STREPSFILE	EXCHVOLUME	SPL	-		0	13400	2	1	0	DIR	STS Report data		STS
STSTART	EXCHVOLUME	SPL	-		0	14	2194	1	0	DIR	STS Support data		STS
STTRANF1	EXCHVOLUME	CMP	-		0	2048	15	3	1	DIR	STS CP translation tables		STS
STTRANF2	EXCHVOLUME	CMP	-		0	2048	15	12	5	SEQ	STS CP object tables		STS
TRARFILE	EXCHVOLUME	CMP	-		0	1100	7	25	25	SEQ	Traffic Type Measurement	TRRPI	
TRLOGFILE	EXCHVOLUME	CMP	-		0	256	32	0	500	SEQ	Transaction Log	MCTLC	MCS
CNTFILEx	OMFZLIBORD	SPL	-		0					DIR	Created at start up		SPS
CONFILEx	OMFZLIBORD	SPL	-		0					DIR	Created at start up		SPS
CPDEVFILE2	OMFZLIBORD	SPL	-		0	200	Def	25	10	KEY	IO device file. NTN / IO tie	MCDVI	MCS
DFOBUFILEx	OMFZLIBORD	SPL	-		0	128	64	0	50	KEY	Direct File Output, Backup IO/file	MCDSC	DCS
DFOFILE	OMFZLIBORD	SPL	-		0	50	Def	16	10	KEY	Direct File Output	ILBUI	DCS
DISSIDATA	OMFZLIBORD	SPL	-		0	832	9	1	1	DIR	SP Transient limits	DISSI	SPS
DTEFILE	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	DTE CLI tie to NP	ILNAP	DCS

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
EXDATAFILE	OMFZLIBORD	SPL	-		0	53	154	40	5	KEY	Exchange Data files. Backed up	IMEDI	SPS
FLTLOGFILE	OMFZLIBORD	SPL	-		0	66	124	256	1	DIR	Fault Detection Log		SPS
FMPUFILTABx	OMFZLIBORD	SPL	-								Created at start up		DCS
FTAMUSERx	OMFZLIBORD	SPL	-								File Transfer User ID & password	ILVAI	DCS
FTFILE	OMFZLIBORD	SPL	-		0	32	Def	256	0	KEY	NTN or IP tie to FPU Dest	ILDNI	DCS
GATEWAY	OMFZLIBORD	SPL	-		0					DIR	Created at start up		SPS
IDFILE	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	XID tie to NTN		DCS
LCFILE	OMFZLIBORD	SPL	-		0	128	Def	32	10	DIR	Load Admin		DCS
LUFILE	OMFZLIBORD	SPL	-		0	100	40	20	10	KEY	LU Admin	ILLUI	DCS
MAINALLOG	OMFZLIBORD	SPL	-		0	460	17	2	1	DIR	Alarm Log	IMALP	SPS
MTMFORMSEQ0	OMFZLIBORD	SPL	-		0	10	819	0	0	SEQ	Mag Tape seq Numbers		FMS
OSISAPLOCx	OMFZLIBORD	SPL	-		0					KEY	OSI local data file	ILSAI	DCS
OSISAPREMx	OMFZLIBORD	SPL	-		0					KEY	OSI Remote data file	ILRSI	DCS
PORTFILE	OMFZLIBORD	SPL	-		0	200	Def	20	10	KEY	Port Admin	ILNPP	DCS
PSFILE	OMFZLIBORD	SPL	-		0	350	Def	20	10	KEY	NTN Admin. NTN to NP tie	MCDVI	DCS
PVCFILE	OMFZLIBORD	SPL	-		0	100	40	20	10	KEY	Permanent Virtual Circuits		DCS
RECFILE	OMFZLIBORD	SPL	-		0	200	1	25	4	KEY	Recovery of corrupt files	INMFP	FMS
RLOGFILEx	OMFZLIBORD	SPL	-		0	58	141	161	1	KEY	SP Log Incident	IMRLP	SPS
RMBNTFILE	OMFZLIBORD	SPL	-		0	53	579	0	1	KEY	Remote Measurement	RMBNI	RMS
RMDELAYFILE	OMFZLIBORD	SPL	-		0	242	126	0	8	KEY	Remote Measurement	RMDMI	RMS
RMDEVFILE	OMFZLIBORD	SPL	-		0	14	2194	0	32	KEY	Remote Measurement	RMFRI	RMS
RMINSFILE	OMFZLIBORD	SPL	-		0	75	409	0	10	KEY	Remote Measurement	RMRCI	RMS
RMRESFILE	OMFZLIBORD	SPL	-		0	334	91	0	8	KEY	Remote Measurement	RMREI	RMS
RMROUTEFILE	OMFZLIBORD	SPL	-		0	80	384	0	6	KEY	Remote Measurement	RMFRI	RMS
RMSCHEDFILE2	OMFZLIBORD	SPL	-		0	84	365	0	32	KEY	Remote Measurement	RMTDI	RMS
RMSTDADJFILE	OMFZLIBORD	SPL	-		0	132	232	0	0	DIR	Remote Measurement	RMIDC	RMS
RMTLIFILE	OMFZLIBORD	SPL	-		0	180	170	0	8	KEY	Remote Measurement	RMSMI	RMS
SPHWADAPTx	OMFZLIBORD	SPL	-		0	50	163	72	10	KEY	SP Hardware Table Adaptors	IMHWC	SPS
SPHWUNITSx	OMFZLIBORD	SPL	-		0	26	315	186	20	KEY	SP Hardware Table Units	IMHWC	SPS
SPTDATAx	OMFZLIBORD	SPL	-		0	304	26	16	1	DIR	SP Trace System parameters	IMTSI	SPS
SSFILE	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	Session port admin		DCS
STTIMETABFIL	OMFZLIBORD	SPL	-		0	200	Def	20	20	KEY	DCS TRAFFIC RECORDING	ILTTI	DCS
STTRGFILE	OMFZLIBORD	SPL	-		0	1700	Def	100	100	KEY	DCS TRAFFIC RECORDING	ILRGI	DCS
TLOGCONDFILE	OMFZLIBORD	SPL	-		0	1236	6	5	10	KEY	Transaction Log Condition	MCTLG	MCS
TLOGEXCOM	OMFZLIBORD	SPL	-		0	512	16	10	10	KEY	Transaction Log Exclusion Cmd	MCTLG	MCS

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
TLOGEXPT	OMFZLIBORD	SPL	-		0	512	16	9	10	KEY	Transaction Log Exclusion Printout	MCTL	MCS
TLRCHRESULT	OMFZLIBORD	CMP	-		0					SEQ	Remove!!!		
TLRCHRESULx	OMFZLIBORD	CMP	-		0					SEQ	Transaction log results	MCSAP	MCS
RELADMPAR	RELVOLMSW	CMP	-		0	32	256	0	32	SEQ	Reload parameters	SYGPS	MAS
RELCMDHDF	RELVOLMSW	CMP	-		0	512	16	40	100	SEQ	Reload Command file	SYCLI	MAS
RELFSW0	RELVOLMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. First file range	SYBUI	MAS
RELFSW1	RELVOLMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. First file range	SYBUP	MAS
RELFSW100	RELVOLMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. Second file range	SYBUP	MAS
RELFSW101	RELVOLMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. Second file range	SYBUP	MAS

Note 1 At creation (INFII) parameter NODE is required but does not appear later in an INFIP print.

Note 2 Lower case x at the end of the file name represents the SPG number.

7.2. File Allocation For IOG20C /A2 & /A5

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
C7PMFILE	-	DEV	A ^{Note1}	DL-6	0	2048	4	3	3	SEQ	C7 Performance Measurement	C7PPI	CCS-7
C7TMFILE	-	DEV	A ^{Note1}	DL-1	0	512	16	0	10	SEQ	C7 Traffic Measurement	C7TPI	CCS-7
CHASFILE	-	DEV		DL-1	0	2048	4	0	10	SEQ	Remove!!!		
CHCNTRL1OLD	-	DEV		DL-1	0	244	33	0	0	SEQ	Remove!!!		
CMVNFILE	-	DEV		DL-1	0	822	9	0	10	SEQ	Remove!!!		
CODADESTFILE	-	DEV	A ^{Note1}	DL-1	0	512	16	40	40	SEQ	NM Counter Date for destinations. Pre NEM	NEDCI	NMS
CODADESTFILE	-	DEV	A ^{Note1}	DL-4	0	3622		40	0	SEQ	NM Counter Date for destinations. Post NEM	NEDCI	NMS
CODAOLD	-	DEV		DL-1	0	2038	4	0	10	SEQ	Remove!!!		
OBSFILE	-	DEV	A ^{Note1}	DL-1	0	512	16	0	10	SEQ	Traffic Observation	TOBSI	OMS
OD0A1	-	DEV	A	OD-1	0	512	60	10	10	SEQ	Optical Disk Node A		
OD0B1	-	DEV	B	OD-1	0	512	60	10	10	SEQ	Optical Disk Node B		
RCEFILE	-	DEV	A	DL-8	0	1024	30	10	10	SEQ	Special Network Services		
TRACAFILE	-	DEV	A ^{Note1}	DL-1	0	350	23	0	10	SEQ	Traffic Character Measurements on routes	TRSMI	OMS
TRADOFILE	-	DEV	A ^{Note1}	DL-7	0	4065	2	10	10	SEQ	Data Recording per Call	TRADI	OMS
TRADOOLD	-	DEV		DL-7	0	2005	4	0	3	SEQ	Remove!!!		
TRARTFILE	-	DEV	A ^{Note1}	DL-5	0	928	8	0	3	SEQ	Traffic Type Measurement	TRATI	OMS
CHCNTRL	CALLVOLUME	CMP	-		0	448	18	10	20	SEQ	Charge Check	CHURI	CHS
TTFILE05	CALLVOLUME	CMP	-		0	2048	4	10	200	SEQ	Toll Tickets Pkg5	CHOFI	CHS
TTFILE06	CALLVOLUME	CMP	-		0	2048	15	10	200	SEQ	Toll Tickets Pkg6	CHOFI	CHS
AFFILE	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Miscellaneous use	IOAFC	
AFFILEJUNK	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Unknown/New alarms		
AFFILEMAL	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Malicious calls log		
AFFILEREST	EXCHVOLUME	CMP	-		0	160	51	0	150	SEQ	AF file. Restart data log		
BGCTMFILE	EXCHVOLUME	CMP	-		0	2048	4	10	10	SEQ	BGC Traffic measurement	BUTTP	BGC
C7ERPRESET	EXCHVOLUME	SPL	-		0						C7 event cmd reading file		
CODARTEFILE	EXCHVOLUME	CMP	-		0	2022	4	0	0	SEQ	NM Counter Date for routes	NEDCI	NMS
INMFILE10	EXCHVOLUME	SPL	-		0	512	1	0	512	SEQ	Intelligent Network Buffer file. XDCN352		SES SSINMI O
INMFILE11	EXCHVOLUME	SPL	-		0	512	1	0	512	SEQ	Intelligent Network Buffer file. XDCN352		SES SSINMI O

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
INMFILE9	EXCHVOLUME	SPL	-		0	512	1	0	512	SEQ	Intelligent Network Buffer file. XDCN352		SES SSINMI O
INMLOG	EXCHVOLUME	CMP	-		0	512	1	1024	512	SEQ	Intelligent Network Log file. XDCN352		SES SSINMI O
INMPAR	EXCHVOLUME	SPL	-		0	32	1	1	0	SEQ	Intelligent Network Param file. XDCN352		SES SSINMI O
LOG	EXCHVOLUME	CMP	-		0	512	16	0	10	SEQ	Remove!!!		
SPFILE	EXCHVOLUME	CMP	-		0	1980	4	0	10	SEQ	Automatic Congestion control	NMDLC	NMS
SPTRANOBJECT	EXCHVOLUME	SPL	-		0	514	59	3	0	DIR	STS Object Table		STS
SPTRANTABLE	EXCHVOLUME	SPL	-		0	152	202	1	8	DIR	STS Translation Table		STS
STCPDUMP	EXCHVOLUME	CMP	-		0	2048	4	20	10	SEQ	STS Copied data from CP		STS
STFIOPADM	EXCHVOLUME	SPL	-		0	1800	17	1	0	DIR	STS Data for file output		STS
STFIOPFILE	EXCHVOLUME	CMP	-		0	2048	15	20	20	SEQ	?		STS
STFORMFILE	EXCHVOLUME	SPL	-		0	514	59	1	0	DIR	STS Measurements reports		STS
STMPFILE	EXCHVOLUME	SPL	-		0	400	76	0	0	DIR	STS MP data		STS
STOBJTYPE	EXCHVOLUME	CMP	-		0	20	def	200	10	SEQ	STS Object type data		STS
STOGHFILE	EXCHVOLUME	SPL	-		0	5800	5	1	0	DIR	STS Object group data		STS
STRECPARFILE	EXCHVOLUME	SPL	-		0	900	34	0	0	KEY	STS Recording parameter data		STS
STREPSFILE	EXCHVOLUME	SPL	-		0	13400	2	1	0	DIR	STS Report data		STS
STSTART	EXCHVOLUME	SPL	-		0	14	2194	1	0	DIR	STS Support data		STS
STTRANF1	EXCHVOLUME	CMP	-		0	2048	15	3	1	DIR	STS CP translation tables		STS
STTRANF2	EXCHVOLUME	CMP	-		0	2048	15	12	5	SEQ	STS CP object tables		STS
TRARFILE	EXCHVOLUME	CMP	-		0	1100	7	25	25	SEQ	Traffic Type Measurement	TRRPI	
TRLOGFILE	EXCHVOLUME	CMP	-		0	256	32	0	500	SEQ	Transaction Log	MCTL	MCS
CNTFILEx	OMFZLIBORD	SPL	-		0					DIR	Created at start up		SPS
CONFILEx	OMFZLIBORD	SPL	-		0					DIR	Created at start up		SPS
CPDEVFILE2	OMFZLIBORD	SPL	-		0	200	20	25	10	KEY	IO device file. NTN / IO tie	MCDVI MCDSC	MCS
DFOBUFILEx	OMFZLIBORD	SPL	-		0	128	64	0	50	KEY	Direct File Output, Backup IO/file	ILBUI	DCS
DFOFILEx	OMFZLIBORD	SPL	-		0	50	Def	16	10	KEY	Direct File Output	ILDFI	DCS
DISSIDATA	OMFZLIBORD	SPL	-		0	832	9	1	1	DIR	SP Transient limits	DISSI	SPS
DTEFILEx	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	DTE CLI tie to NP	ILNAP	DCS
EXDATAFILE	OMFZLIBORD	SPL	-		0	53	154	40	5	KEY	Exchange Data files. Backed up	IMEDI	SPS
FLTLOGFILE	OMFZLIBORD	SPL	-		0	66	124	256	1	DIR	Fault Detection Log		SPS
FMPUFILTABx	OMFZLIBORD	SPL	-								Created at start up		DCS

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
FTAMUSERx	OMFZLIBORD	SPL	-								File Transfer User ID & password	ILVAI	DCS
FTFILEx	OMFZLIBORD	SPL	-		0	32	Def	256	0	KEY	NTN or IP tie to FPU Dest	ILDNI	DCS
GATEWAY	OMFZLIBORD	SPL	-		0					DIR	Created at start up		SPS
IDFILEx	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	XID tie to NTN		DCS
IPROTFILEx	OMFZLIBORD	SPL	-			32	Def	4	10	KEY	IP Routing	ILIRI	DCS
LCFILEx	OMFZLIBORD	SPL	-		0	128	Def	32	10	DIR	Load Admin		DCS
LUFILEx	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	LU Admin	ILLUI	DCS
MAINALLOG	OMFZLIBORD	SPL	-		0	460	17	2	1	DIR	Alarm Log	IMALP	SPS
MTMFORMSEQ0	OMFZLIBORD	SPL	-		0	10	819	0	0	SEQ	Mag Tape seq Numbers		FMS
OSISAPLOCx	OMFZLIBORD	SPL	-		0					KEY	OSI local data file	ILSAI	DCS
OSISAPREMx	OMFZLIBORD	SPL	-		0					KEY	OSI Remote data file	ILRSI	DCS
PEFILEx	OMFZLIBORD	SPL	-			4000	Def	20	10	KEY	Port Admin	ILNPP	DCS
PSFILEx	OMFZLIBORD	SPL	-		0	800	Def	20	10	KEY	NTN Admin. NTN to NP tie	MCDVI	DCS
PVCFILEx	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	Permanent Virtual Circuits		DCS
RECFILE	OMFZLIBORD	SPL	-		0	200	1	25	4	KEY	Recovery of corrupt files	INMFP	FMS
RLOGFILEx	OMFZLIBORD	SPL	-		0	58	141	161	1	KEY	SP Log Incident	IMRLP	SPS
RMBNTFILE	OMFZLIBORD	SPL	-		0	53	579	0	1	KEY	Remote Measurement	RMBNI	RMS
RMDELAYFILE	OMFZLIBORD	SPL	-		0	242	126	0	8	KEY	Remote Measurement	RMDMI	RMS
RMDEVFILE	OMFZLIBORD	SPL	-		0	14	2194	0	32	KEY	Remote Measurement	RMFRI	RMS
RMINSFILE	OMFZLIBORD	SPL	-		0	75	409	0	10	KEY	Remote Measurement	RMRCI	RMS
RMRESFILE	OMFZLIBORD	SPL	-		0	334	91	0	8	KEY	Remote Measurement	RMREI	RMS
RMROUTEFILE	OMFZLIBORD	SPL	-		0	80	384	0	6	KEY	Remote Measurement	RMFRI	RMS
RMSCHEDFILE2	OMFZLIBORD	SPL	-		0	84	365	0	32	KEY	Remote Measurement	RMTDI	RMS
RMSTDADJFILE	OMFZLIBORD	SPL	-		0	132	232	0	0	DIR	Remote Measurement	RMIDC	RMS
RMTLIFILE	OMFZLIBORD	SPL	-		0	180	170	0	8	KEY	Remote Measurement	RMSMI	RMS
SPHWADAPTx	OMFZLIBORD	SPL	-		0	50	163	72	10	KEY	SP Hardware Table Adaptors	IMHWC	SPS
SPHWUNITsx	OMFZLIBORD	SPL	-		0	26	315	186	20	KEY	SP Hardware Table Units	IMHWC	SPS
SPTDATAx	OMFZLIBORD	SPL	-		0	304	26	16	1	DIR	SP Trace System parameters	IMTSI	SPS
SSFILEx	OMFZLIBORD	SPL	-		0	100	Def	20	10	KEY	Session port Admin		DCS
STTIMETABFIL	OMFZLIBORD	SPL	-		0	200	Def	20	20	KEY	DCS TRAFFIC RECORDING	ILTTI	DCS
STTRGFILEx	OMFZLIBORD	SPL	-		0	1700	Def	100	100	KEY	DCS TRAFFIC RECORDING	ILRGI	DCS
TLOGCONDFILE	OMFZLIBORD	SPL	-		0	1236	6	5	10	KEY	Transaction Log Condition	MCTLS	MCS
TLOGEXCOM	OMFZLIBORD	SPL	-		0	512	16	10	10	KEY	Transaction Log Exclusion Cmd	MCTLC	MCS
TLOGEXPRT	OMFZLIBORD	SPL	-		0	512	16	9	10	KEY	Transaction Log Exclusion Printout	MCTLC	MCS
TLRCHRESULT	OMFZLIBORD	CMP	-		0					SEQ	Remove!!!		

FILE	VOLUME	Class	Node	IO	SPG	Rec Length	Blk	Size	Exp	Type	Comments	Cmd	Sub Sys
TLSRCHRESULx	OMFZLIBORD	CMP	-							SEQ	Transaction log results	MCSAP	MCS
RELADMPAR	RELVOLUMSW	CMP	-		0	32	256	0	32	SEQ	Reload parameters	SYGPS	MAS
RELCMDHDF	RELVOLUMSW	CMP	-		0	512	16	40	100	SEQ	Reload Command file	SYCLI	MAS
RELFSW0	RELVOLUMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. First file range	SYBUI	MAS
RELFSW1	RELVOLUMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. First file range	SYBUP	MAS
RELFSW100	RELVOLUMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. Second file range	SYBUP	MAS
RELFSW101	RELVOLUMSW	CMP	-		0	2048	15	20	2000	SEQ	Reload File. Second file range	SYBUP	MAS

Note 1 At creation (INFII) parameter NODE is required but does not appear later in an INFIP print.

Note 2 Lower case x at the end of the file name represents the SPG number.

8. AXE ALARM FUNCTION AND ROUTING OF ALARM PRINTOUTS

Any function block in AXE which generates an alarm uses the function block AL (the alarm function) in subsystem IOS to alert the operators. According to Telstra requirements and the urgency of the alarm, AL lights up lamps in the alarm panels, turns on outputs on SCAN card, initiates alarm bells and/or directs alarm printout to the IO devices locally at the exchange and to a maintenance centre via NICAD. AL stores the alarm information in an alarm list which is printed out periodically and/or upon order by a command.

All printouts are administered by AL but the detailed information is extracted from the alarm generating block in APT or APZ.

External alarms are connected to sensors monitored by function block EXAL which passes information to AL. The alarm class, category of alarm condition are set by command. External alarms and system alarms are handled in the same manner.

8.1. Initiation of the Alarm Function in AL

When supervisory programs in the system detect a fault or disturbance that should be attended to by maintenance staff, a signal (FAULT) is sent to AL. This signal contains the following information (which is also provided in the alarm inhibition signal (COFAULT)):

- Alarm Class
- Alarm Category
- Alarm Case
- Function Code
- Alarm Parameters

8.2. Alarm Class

The alarm class indicates the URGENCY of the alarm and can either be assigned by command or by a number symbol in the function block. The appropriate alarm class lamp on the Alarm Panel will be lit and Scan Card output turned on.

The alarm classes used in Australia are:

Alarm Class & PRINTOUT SLOGAN (Installation Independent)	ALCLS Number Symbol Value	Command Parameter ACL Value	Description
A1	#0	A1	A fault condition that must be dealt with immediately, or Maintenance Staff Recalled after hours
A2	#1	A2	A fault condition that must be dealt with as soon as possible during normal working hours.
A3	#2	A3	A fault condition that must be cleared on a convenient occasion during normal working hours
O1	#3	O1	An abnormal condition caused by manual intervention to the configuration or working mode of the exchange, which should be investigated as soon as possible during normal working hours.
O2	#4	O2	An abnormal condition caused by manual intervention to the configuration or working mode of the exchange which can be allowed to remain.

8.3. Alarm Category

Each alarm is assigned one of the sixteen available alarm category VALUES either by means of a command, or by a number symbol. When a number symbol is used its value cannot be modified afterwards by command. The alarm category (ALCAT) is used to indicate that PART of the system which is generating the alarm and indicates to the AOM in conjunction with the alarm class, the routing to be performed or which alarm panel lamp is to be switched on. The alarm category printout slogan is included as part of the alarm printout, eg APT, APZ, POW, EXT or NMC and these Slogans and the Alarm Panel display category (DICAT) are loaded by commands ALACC and ALEXL.

8.3.1. System Associated Alarm Categories

Number Symbol ALCAT	Alarm Class	PRCA	Meaning	Printout Slogan	Alarm Panel Light	Display Cat (Dicat)	Typical AOM Alarm Routing	
							NEMACCS	NEXIS
#0	A1...O2	37	APZ Data Processing System	APZ	APZ	0&4&&7		
#1	A1...O2	38	APZ Processors (CP, RP, EMRP)	APZ	APZ			
#2	A1...O2	39	APZ IO device	APZ	APZ			
#3	A1...O2	40	APT Switch	APT	APT	1&4&&7	X	
#4	A1...O2	41	APT Switching Part	APT	APT			
#5	A1...O2	42	APT Switching Devices	APT	APT		X	
#6	A1...O2	43	APT Customer Lines	APT	APT			
#7	A1...O2	44	APT Network Management & CCS7	APT	APT		X	

8.3.2. Alarm Categories For External Alarms

Number Symbol ALCAT	Alarm Class	PRCA	Meaning	Printout Slogan	Alarm Panel Light	Display Cat (Dicat)	Typical AOM Alarm Routing	
							NEMACCS	NEXIS
#8	A1...O2	45	Power	POW	POW	2&4&&7		
#9	A1...O2	46	Building & Air Treatment	BLD	EXT	3&4&&7		
#A (10)	A1...O2	51	PABX Alarm	PBX	EXT			
#B (11)	A1...O2	52	Cable and Gas Pressure	CBL	EXT			
#C (12)	A1...O2	53	Miscellaneous - & Transmission Alarms	TRN	EXT			

Number Symbol ALCAT	Alarm Class	PRCA	Meaning	Printout Slogan	Alarm Panel Light	Display Cat (Dicat)	Typical AOM Alarm Routing	
							NEMACCS	NEXIS
#D (13)	A1...O2	54	Switching external	EXT	EXT			
#E (14)	A1...O2	55	Network Management Center alarms /66	NMC	EXT			X
#F (15)	A1...O2	56	Spare	EXT	EXT		X	
#4 & #5	LF	-	AOM Link Failure	-	-			X
#1	HB	-	Heart Beat Failure (Detected by AOM)	-	-			X

8.4. Alarm Case

If a function block generates several types of alarms each one is given an alarm case number. This is system defined and is not operator defined.

8.5. Routing Of Alarms

Within the AXE exchange the routing of an alarm printout is directed to an output device or link according to command (IOROL).

Each printout has a unique Printout Category code (PRCA). This code is used as a pointer into the printout routing table. See section "**Error! Reference source not found.**". The printout will be directed to one or more IO devices depending on the availability of the IO device and its attended status (ATT).

A PRCA, is allocated to each printout generating block by means of a number symbol at code generation, where n is unique for each printout. Each alarm PRCA is given an alarm category to enable selective routing of alarms.

The Alarm Class (ALCLS) and Alarm Category (ALCAT) is sent to the AOM centre via the X25 LINK and is used for further routing by the AOM itself.

Routing for the AOM is carried out on an individual basis taking into account destination / Class / Category.

8.6. External Alarms And AXE AMS Alarms. Aust

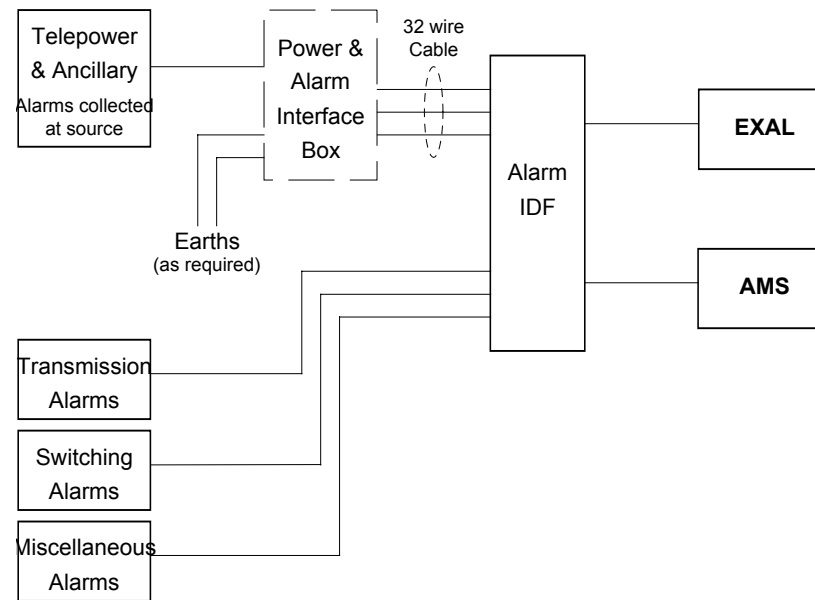
This section contains the National Standard External Alarm data including inlet allocations, catchwords and alarm classes. Rearrangements of alarm numbering and cabling are necessary to conform to the interim (pre XM/TMOS) 1994 Network Operations Alarm Management policy.

The Operations alarm management policy is summarised as follows:

1. NICAD is to be used as the primary alarm management system for AXE switching alarms. The backup system as specified in Issue 4 of this document will not be used.
2. At sites where AMS is installed (NODE or RSS), all power, environmental and miscellaneous alarms (classified as Network Services alarms) are connected to AMS. This includes AXE suite High Temperature alarms.
3. Alarms classified as AXE (IOG Fan alarms) are to remain connected to EXAL. Since Network Services alarms are not required to be connected to EXAL where AMS is installed, the removal of alarms from EXAL in sites which had AMS installed prior to formulation of the Alarm Management Policy will be necessary.
4. At AXE sites (NODE and RSS) where AMS is not installed, Network Services alarms are to be connected in accordance with the standard EXAL templates indicated in this document. Any additional alarms required at a site will require the installation of a Power and Alarm Interface for alarm commoning.

The standard alarm arrangement is shown in Figure 1 below. The Power and Alarm Interface device may be required in some sites to allow alarm commoning and/or conversion of normally open to normally closed alarm conditions. The use of normally closed (ie. An earth break or interrupt to indicate alarm condition) is required for a continuous check of wiring integrity.

Figure 9.1 - Alarm Collection Arrangement



8.6.1. External Alarms Numbering

The external alarm units presently in use in Australia are:

- EXAL0 - for Exchange alarms (RSS)
- EXAL2 - for Exchange alarms (IOG11B & IOG20C)

EXAL0/EXAL2 inputs for each site are allocated (reserved) in blocks of 32.

eg Node EXAL2 - (0-31)
 RSS-1 EXAL0 - (32-63)
 RSS-2 EXAL0 - (64-93) etc

- EXAL2-6&&-8 Functions vary depending on the configuration of the NODE.
- EXAL2-18&-20 "*Rectifier Fail*" and "*Load Voltage out of limits*" used in sites without Buck Boost power systems.

8.6.2. Catch word 2

Catchword #2 (CAW2) is used for the site "LRDC" code and floor where the alarm generating equipment is located using the following format.

It has a maximum length of 15 characters.

LRDCGF-exchangename For alarms on the Ground floor of the building.

LRDC1F-exchangename For alarms on the First floor of the building.

Where exchangename is the name of the exchange building. If the name exceeds eight characters, delete remaining characters

Eg: Blackburn RSS would be BLBUGF-BLACKBUR

NOTES

- For **AXE ALARMS** the "LRDC" is the Node or RSS, four digit code.
- The exchangename is the name of the exchange building. If the name exceeds eight characters, remove remaining characters.
Eg: Blackburn RSS would be BLBUGF-BLACKBUR
- For all other alarm types, the LRDC is the 4 digit code used by the site for higher order transmission. This is the code that AMS will use when installed.
- Floor, Suite and Rack are optional.

8.6.3. NICAD Alarm Slogans

In addition to the EXAL alarm slogans in the following tables, a number of site dependent slogans are recognised by NICAD. These are as follows -

- MASS CALL PLATFORM
- MISCELLANEOUS URGENT
- MISCELLANEOUS NON URGENT
- RCM URGENT
- S12 RECTIFIER FAIL
- AXE (as the first three characters, followed by anything)

8.6.4. External Alarms Node Site without AMS

COMMAND ALRDL : DEV=EXAL0 / EXAL2 - (0-31), DEV=" " CAW1=" " , CAW2=" " ; AC=, MR, ND,						COMMAND ALEXL: DEV = EXAL0 / EXAL2 - (0-31), PRCA=, ACL= , ALCAT= , ;		
DEVICE EXAL0 / 2	ALARM CATCHWORD #1 (25 characters maximum)	ALARM CATCHWORD #2 (7 chars maximum.)	ALARM CONDITION	MANUAL RESET	NO DISP.	PRINTOUT CATEGORY	ALARM CLASS	ALARM CATEGORY
1	AXE ALARMS "RET NON URGENT UNIT x",	Ref sect Catch word 2	1				A2	13;
6	IOG11 Sites only "IOG11(S) FAN FAIL SPG-0-A",	Ref sect Catch word 2	1				A1,	13;
7	"IOG11(S) FAN FAIL SPG-0-B",	Ref sect Catch word 2	1				A1,	13;
8	"IOG11(L2) FAN FAIL SPG-1", Note: A and B node alarms outputs are commoned.	Ref sect Catch word 2	1				A1,	13;
9	BUILDING & AIR TREATMENT ALARMS "AIR CONDITIONING ALARM",	Ref sect Catch word 2	1				A1,	9;
10	"HIGH TEMP CP SUITE xxx", Note: xxx is the Suite that the sensor is installed.	Ref sect Catch word 2	1				A1,	9;
11	"HIGH TEMP GSD SUITE xxx", Note: xxx is the Suite that the sensor is installed.	Ref sect Catch word 2	1				A1,	9;
12	"ENTRY ALM (EXAL2-xxx)", Note: xxx is the EXAL2 number, used for resetting	Ref sect Catch word 2	1	MR,	ND;		A1,	9;
13	"FIRE ALARM IS OPERATED",	Ref sect Catch word 2	1				A1,	9;
14	"FIRE ALM FAULTY OR ISOL",	Ref sect Catch word 2	1				A1,	9;
15	"CABLE WELL IS FLOODED",	Ref sect Catch word 2	1				A1,	11;;
16	"CABLE PRESSURE ALARM",	Ref sect Catch word 2	1				A1,	11;

COMMAND ALRDL : DEV=EXAL0 / EXAL2 - (0-31),						COMMAND ALEXL: DEV = EXAL0 / EXAL2 - (0-31),		
DEV=" "	CAW1=" ",	CAW2=" ";	AC=,	MR,	ND,	PRCA=,	ACL= ,	ALCAT= ,;
DEVICE EXAL0 / 2	ALARM CATCHWORD #1 (25 characters maximum)	ALARM CATCHWORD #2 (7 chars maximum.)	ALARM CONDITION	MANUAL RESET	NO DISP.	PRINTOUT CATEGORY	ALARM CLASS	ALARM CATEGORY
	BUILDING POWER ALARMS							
17	"AC MAINS FAILURE",	Ref sect Catch word 2	1				A1,	8;
19	CAW1="BATTERY VOLTS ABNORMAL",	Ref sect Catch word 2	1				A1,	8;
21	"FUSE/CCT BREAKER FAILED",	Ref sect Catch word 2	1				A1,	8;
22	"UPS/INVERTER URGENT",	Ref sect Catch word 2	1				A1,	8;
23	"STANDBY DIESEL FAILED",	Ref sect Catch word 2	1				A1,	8;
24	"BATTERY BANKS ISOLATED",	Ref sect Catch word 2	1				A1,	8;
25	"POWER NON URGENT",	Ref sect Catch word 2	1				A2,	8;
26	"POWER OFF NORMAL",	Ref sect Catch word 2	1				A3,	8;
27	"STANDBY DIESEL ON LINE",	Ref sect Catch word 2	1				A3,	8;
		Buck Boost power systems						
18	"DC CONVERSION FAIL",	Ref sect Catch word 2	1				A1,	8;
20	"BUCK BOOST BATT OPERATION",	Ref sect Catch word 2	1				A1,	8;
		Other power systems						
18	"RECTIFIER FAIL",	Ref sect Catch word 2	1				A1,	8;
20	"LOAD VOLTAGE OUT OF LIMIT",	Ref sect Catch word 2	1				A1,	8;
	AXE POWER ALARMS							
28	"A HOD FUSE IS BLOWN",	Ref sect Catch word 2	1				A1,	8;
29	"HOD CAP/ALARM FUSE BLOWN",	Ref sect Catch word 2	1				A1,	8;
	TRANSMISSION ALARMS							
30	"TRANSMISSION URGENT",	Ref sect Catch word 2	1				A1,	12;
31	"TRANSMISSION NON URGENT",	Ref sect Catch word 2	1				A2,	12;

Where possible the Alarm Condition is set equal to 1, to provide a continuous check of the wiring integrity.

1=Break, Interrupt & 0=Make, Contact or Earth.

8.6.5. External Alarms Node Site with AMS 21220 / IOG11B

COMMAND ALRDL : DEV=EXAL0 / EXAL2 - (0-31),						COMMAND ALEXL: DEV = EXAL0 / EXAL2 - (0-31),		
DEV=" "	CAW1=" "	CAW2=" "	AC=,	MR,	ND,	PRCA=,	ACL= ,	ALCAT= ;;
DEVICE EXAL0 / 2	ALARM CATCHWORD #1 (25 characters maximum)	ALARM CATCHWORD #2 (7 chars maximum.)	ALARM CONDITION	MANUAL RESET	NO DISP.	PRINTOUT CATEGORY	ALARM CLASS	ALARM CATEGORY
0-5	AXE ALARMS Vacant							
6	"IOG11(S) FAN FAIL SPG-0-A",	Ref sect Catch word 2	1				A1,	13;
7	"IOG11(S) FAN FAIL SPG-0-B",	Ref sect Catch word 2	1				A1,	13;
8	"IOG11(L2) FAN FAIL SPG-1", Note: A and B node alarms outputs are commoned.	Ref sect Catch word 2	1				A1,	13;
9-31	Vacant							

Where possible the Alarm Condition is set equal to 1, to provide a continuous check of the wiring integrity.

1=Break, Interrupt & 0=Make, Contact or Earth.

8.6.6. External Alarms Node Site with AMS 21230 / IOG20C

COMMAND ALRDL : DEV=EXAL0 / EXAL2 - (0-31),						COMMAND ALEXL: DEV = EXAL0 / EXAL2 - (0-31),		
DEV=" "	CAW1=" "	CAW2=" "	AC=,	MR,	ND,	PRCA=,	ACL= ,	ALCAT= ;;
DEVICE EXAL0 / 2	ALARM CATCHWORD #1 (25 characters maximum)	ALARM CATCHWORD #2 (7 chars maximum.)	ALARM CONDITION	MANUAL RESET	NO DISP.	PRINTOUT CATEGORY	ALARM CLASS	ALARM CATEGORY
0	AXE ALARMS Vacant							
1	"IOG20C FAN FAIL",	Ref sect Catch word 2	1				A1	13
2	Vacant		1				A2	13
3	"ASTV-64 FAN FAIL"	Ref sect Catch word 2	1				A1	13
4-6	Vacant							
7	"ASTV-256 FAN FAIL"	Ref sect Catch word 2	1				A1	13
8-10	Vacant							
11	"HSSL FAN FAIL" (Note 1)	Ref sect Catch word 2	1				A1	13
Note 2	"RET NON URGENT UNIT x"	Ref sect Catch word 2	1				A2	13
4-31	Vacant							

Where possible the Alarm Condition is set equal to 1, to provide a continuous check of the wiring integrity.

1=Break, Interrupt & 0=Make, Contact or Earth.

Note 1 HSSL stands for "High Speed Signalling Links Cabinet"

Note 2 Being Site specific, no device number will be allocated for the "RET NON URGENT UNIT"

8.6.7. External Alarms RSS Site without AMS

COMMAND ALRDL : DEV=EXAL0 -X						COMMAND ALEXL: DEV = EXAL0 - X,		
DEV=" "	CAW1=" "	CAW2=" "	AC=,	MR,	ND,	PRCA=,	ACL= ,	ALCAT= ;
DEVICE EXAL0	ALARM CATCHWORD #1 (25 characters maximum)	ALARM CATCHWORD #2 (7 chars maximum.)	ALARM CONDITION	MANUAL RESET	NO DISP.	PRINTOUT CATEGORY	ALARM CLASS	ALARM CATEGORY
1	AXE ALARMS "RET NON URGENT UNIT x",	Ref sect Catch word 2	1				A2	13;
0	MISCELLANEOUS ALARMS Vacant	Ref sect Catch word 2	1					
2	"DCN CABINET POWER SxxxRxx", Note: xxx is the Suite/Rack of the cabinet.	Ref sect Catch word 2	1				A1	12;
3	"FIRE REPORT SYSTEM",	Ref sect Catch word 2	1				A1	12;
4	"SECURITEL RACK ALARM",	Ref sect Catch word 2	1				A1	12;
5	"PAIR GAIN RACK URGENT",	Ref sect Catch word 2	1				A1	12;
6	"PAIR GAIN RACK NON URGENT",	Ref sect Catch word 2	1				A2	12;
7	"SSN RACK",	Ref sect Catch word 2	1				A1	12;
10	"HIGH TEMP RSS SUITE xxx", Note: xxx is the Suite that the sensor is installed.	Ref sect Catch word 2	1				A1,	9;
8	BUILDING & AIR TREATMENT ALARMS "EXHAUST FAN RUNNING",	Ref sect Catch word 2	1				A3	9;
9	"AIR CONDITIONING ALARM",	Ref sect Catch word 2	1				A1,	9;
11	"PCM TUBE SPACE TEMP >29C",	Ref sect Catch word 2	1				A2	9
12	"ENTRY ALM (EXAL2-xxx)", Note: xxx is the EXAL0 number, used for resetting	Ref sect Catch word 2	1	MR;			A1,	9;
13	"FIRE ALARM IS OPERATED",	Ref sect Catch word 2	1				A1,	9;
14	"FIRE ALM FAULTY OR ISOL",	Ref sect Catch word 2	1				A1,	9;
15	"CABLE WELL IS FLOODED",	Ref sect Catch word 2	1				A1,	11;
16	"CABLE PRESSURE ALARM",	Ref sect Catch word 2	1				A1,	11;
17	BUILDING POWER ALARMS "AC MAINS FAILURE"	Ref sect Catch word 2	1				A1,	8;
19	"BATTERY VOLTS ABNORMAL"	Ref sect Catch word 2	1				A1,	8;
21	"FUSE/CCT BREAKER FAILED",	Ref sect Catch word 2	1				A1,	8;
22	"UPS/INVERTER URGENT",	Ref sect Catch word 2	1				A1,	8;
23	"STANDBY DIESEL FAILED",	Ref sect Catch word 2	1				A1,	8;
24	"BATTERY BANKS ISOLATED",	Ref sect Catch word 2	1				A1,	8;
25	"POWER NON URGENT",	Ref sect Catch word 2	1				A2,	8;
26	"POWER OFF NORMAL",	Ref sect Catch word 2	1				A3,	8;
27	"STANDBY DIESEL ON LINE",	Ref sect Catch word 2	1				A3,	8;

COMMAND ALRDL : DEV=EXAL0 -X						COMMAND ALEXL: DEV = EXAL0 - X,		
DEV=" "	CAW1=" "	CAW2=" ";	AC=,	MR,	ND,	PRCA=,	ACL= ,	ALCAT= ,;
DEVICE EXAL0	ALARM CATCHWORD #1 (25 characters maximum)	ALARM CATCHWORD #2 (7 chars maximum.)	ALARM CONDITION	MANUAL RESET	NO DISP.	PRINTOUT CATEGORY	ALARM CLASS	ALARM CATEGORY
		Buck Boost power systems						
18	"DC CONVERSION FAIL",	Ref sect Catch word 2	1				A1,	8;
20	"BUCK BOOST BATT OPERATION",	Ref sect Catch word 2	1				A1,	8;
		Other power systems						
18	"RECTIFIER FAIL",	Ref sect Catch word 2	1				A1,	8;
20	"LOAD VOLTAGE OUT OF LIMIT",	Ref sect Catch word 2	1				A1,	8;
	AXE POWER ALARMS							
28	"A HOD FUSE IS BLOWN",	Ref sect Catch word 2	1				A1,	8;
29	"HOD CAP/ALARM FUSE BLOWN",	Ref sect Catch word 2	1				A1,	8;
	TRANSMISSION ALARMS							
30	"TRANSMISSION URGENT",	Ref sect Catch word 2	1				A1,	12;
31	"TRANSMISSION NON URGENT",	Ref sect Catch word 2	1				A2,	12;

Where possible the Alarm Condition is set equal to 1, to provide a continuous check of the wiring integrity.

1=Break, Interrupt & 0=Make, Contact or Earth.

8.6.8. External Alarms RSS Site with AMS

COMMAND ALRDL : DEV=EXAL0 -X						COMMAND ALEXL: DEV = EXAL0 - X,		
DEV=" "	CAW1=" "	CAW2=" "	AC=,	MR,	ND,	PRCA=,	ACL= ,	ALCAT= ;
DEVICE EXAL0	ALARM CATCHWORD #1 (25 characters maximum)	ALARM CATCHWORD #2 (7 chars maximum.)	ALARM CONDITION	MANUAL RESET	NO DISP.	PRINTOUT CATEGORY	ALARM CLASS	ALARM CATEGORY
1 0, 2-31	AXE ALARMS "RET NON URGENT UNIT x", Vacant	Ref sect Catch word 2	1				A2	13;

Where possible the Alarm Condition is set equal to 1, to provide a continuous check of the wiring integrity.

1=Break, Interrupt & 0=Make, Contact or Earth.

8.7. Allocation Of Alarm Class And Category Values

Each alarm and some spontaneous printouts has a printout category (PRAC), alarm class (ALCLS) and alarm category (ALCAT). For PRAC and ALCAT allocation to printouts see ALEX documentation. ALCLS can be found in the E module.

9. PRINTOUT ROUTING

9.1. Printout Routing for IOG11B & IOG20C

Spontaneous printouts such as alarms and reports are directed to various AT's by the use of the Printout Category code (PRCA). Each spontaneous print is assigned to a PRCA code by the software. An IO routing table then directs the PRCA's to AT's as required.

In general all alarms are sent to NICAD. Other print outs (not alarms) are sent to dedicated AT's as required.

In special cases such as software loading it is possible to send alarms to both NICAD and one of the GOC ports (AT-7 in IOG11) so that direct observation of alarms during the procedure can be observed from a GOC port. If the CP is separated, alarms from the separated CP can be observed on an additional GOC port (AT-9 in IOG11). To enable/disable alarm sending to GOC ports the GOC ports can be placed in either attended or unattended status with command IODAC. All GOC ports share a common attendance status so the IODAC can be entered from any GOC port.

If work is being carried out on site, alarms can be observed from a local port (AT-4 in IOG11) by attending it. This port does not share the common attendance status of the GOC ports so attending it will not alter the alarm sending status to GOC ports. For IOG20 the on site port is AT-21.

9.1.1. Printout Routing Requirements for IOG11B and IOG20C

The following basic requirements determine I/O printout routing

- Alarms routed to NICAD, AOM and SORTER. GOC ports when attended.
- Restart Data routed to AOM, AFFILEREST (AF-1), GOC port when attended.
- Spontaneous A3 alarms are output to AOM, NICAD and AXE SORTER
- RBP output capability is required at sites which perform charging for RBP calls. A DCN or other Permanent Virtual Circuit (PVC) connection to AT-11 is necessary for these sites. Backup is provided by the AOM. Refer XDCN 167
- Four files are provided:
 - (AF-0) AFFILE store 14days of KFL tracings.
 - (AF-1) AFILEREST stores 14 days of Restart data, EMRP restarts.
 - (AF-2) AFFILEMAL stores 2 days of Malicious Call traces.
 - (AF-3) AFFILEJUNK stores 2 days of data from vacant PRCAs.
 - (AF-4) DUMPMASER used by CS&DLG only when dumping.
- Spontaneous prints that fail to get to their destination will go the system stand by device (AF-3)

9.1.1.1. Printout Categories for IOG11B and IOG20C Sites

The following is a list of codes for routing of printout categories.

The allocation of these values is by the parameter list of the function blocks.

PRCA CODE	SLOGAN	FIRST I/O	FIRST I/O UNATTENDED	NEXT I/O	STB	FIRST I/O ATTENDED	STB
0	Vacant	NICAD	AF-3				
1	Analysis activated	NICAD	Sort			Alm EX	Alm SB
2	Charging Statistics	NICAD	Sort		AOM	Alm EX	Alm SB
3-9	Vacant	NICAD	AF-3				
10	Howler result	NICAD	Sort			Alm EX	Alm SB
11	Unperformed Alarm Call	NICAD	Sort			Alm EX	Alm SB
12	Malicious Call Identification Service Internal Or Incoming Call	NICAD	AF-2				
13-15	Vacant	NICAD	AF-3				
16	Immediate service price	AF-3					
17	A-number analysis activated	NICAD	Sort			Alm EX	Alm SB
18-20	Vacant	NICAD	AF-3				
21	NM Printouts	AOM	Sort				
22	Vacant	NICAD	AF-3				
23	Account Class Data	AF-3					
24	NM Route Load	AOM					
25	Malicious Call Identification Service Outgoing Call	NICAD	AF-2				
26	Processor Load State change	AOM					
27	Exchange input Load State change	AOM	Sort				
28-31	Vacant	NICAD	AF-3				
32	Restart data	AOM	AF-1			Alm EX	
33	Processor statistics	AOM	Sort				
34	Vacant	NICAD	AF-3				
35	"Heart Beat" to AOM	AOM					
36	Alarm list (Periodic)	AF-3					
37	Alarm/Alarm ceasing-CAT 0	NICAD	Sort		AOM	Alm EX	Alm SB
38	Alarm/Alarm ceasing-CAT 1	NICAD	Sort		AOM	Alm EX	Alm SB
39	Alarm/Alarm ceasing-CAT 2	NICAD	Sort		AOM	Alm EX	Alm SB
40	Alarm/Alarm ceasing-CAT 3	NICAD	Sort		AOM	Alm EX	Alm SB
41	Alarm/Alarm ceasing-CAT 4	NICAD	Sort		AOM	Alm EX	Alm SB
42	Alarm/Alarm ceasing-CAT 5	NICAD	Sort		AOM	Alm EX	Alm SB
43	Alarm/Alarm ceasing-CAT 6	NICAD	Sort		AOM	Alm EX	Alm SB
44	Alarm/Alarm ceasing-CAT 7	NICAD	Sort		AOM	Alm EX	Alm SB
45	Alarm/Alarm ceasing-CAT 8	NICAD				Alm EX	Alm SB
46	Alarm/Alarm ceasing-CAT 9	NICAD				Alm EX	Alm SB
47	Alarm status to AOM	AOM					

PRCA CODE	SLOGAN	FIRST I/O	FIRST I/O UNATTENDED	NEXT I/O	STB	FIRST I/O ATTENDED	STB
48	System Restart alarms	NICAD	Sort		AOM	Alm EX	Alm SB
49	System Restart alarm ceasing	NICAD	Sort		AOM	Alm EX	Alm SB
50	MCS Authority command input restricted.	NICAD				Alm EX	Alm SB
51	Alarm/Alarm ceasing-CAT 10	NICAD				Alm EX	Alm SB
52	Alarm/Alarm ceasing-CAT 11	NICAD				Alm EX	Alm SB
53	Alarm/Alarm ceasing-CAT 12	NICAD				Alm EX	Alm SB
54	Alarm/Alarm ceasing-CAT 13	NICAD				Alm EX	Alm SB
55	Alarm/Alarm ceasing-CAT 14	NICAD	Sort		AOM	Alm EX	Alm SB
56	Alarm/Alarm ceasing-CAT 15	NICAD	Sort			Alm EX	Alm SB
57	System Restart RELOAD alarm	NICAD	Sort		AOM	Alm EX	Alm SB
58	System Restart RELOAD alarm ceasing	NICAD	Sort		AOM	Alm EX	Alm SB
59	Vacant	NICAD	AF-3				
60	Scheduled Alarm Status Report	AF-3					
61	RPD Restart INFO	AOM	AF-1			Alm EX	
62	Program Build level	NICAD	AF-3				
63-69	Vacant	NICAD	AF-3				
70	Semipermanent connection Fault	NICAD	Sort		AOM	Alm EX	Alm SB
71-74	Vacant	NICAD	AF-3				
75	Business Group Subscriber Controlled Line Relocation Data	AF-3					
76	Vacant	NICAD	AF-3				
77	Network Performance Recording	AT-71					
78-85	Vacant	NICAD	AF-3				
86	Monitoring registration details	AOM					
87-88	Vacant	NICAD	AF-3				
89	Registration of Software Irregularities	NICAD	Sort		AOM	Alm EX	Alm SB
90-92	Vacant	NICAD	AF-3				
92	Semipermanent connection break details	NICAD	Sort		AOM	Alm EX	Alm SB
93	SES simulation call response	AT-60					
94	Service Script Interpreter	NICAD	Sort			Alm EX	Alm SB
95	Subscriber Keyword printouts	AF-3					
96-98	Service Script Interpreter	NICAD	Sort			Alm EX	Alm SB
99	Malicious call tracing	NICAD	AF-2				
100	ISUP User part printouts	NICAD	Sort		AOM	Alm EX	Alm SB
101-108	Vacant	NICAD	AF-3				
109	Charging discrepancy result	NICAD	Sort		AOM	Alm EX	Alm SB
110	Generic access manager switching network terminal change result	NICAD	Sort		AOM	Alm EX	Alm SB
111	Vacant	NICAD	AF-3				
112	Special Network Data	Sort					
113-127	Vacant	NICAD	AF-3				
128-255	Vacant	NICAD	AF-3				

Key to above table			
Description	Function	IOG11B	IOG20C
Alarms to NICAD	NICAD	AT-14	AT-14 via Sorter
Alarms to Sorter	Sort	AT-70	AT-70
Alarms to AOM	AOM	AMTP-0	AMTP-0
Alarms when attended	Alm EX	AT-7	AT-10
Alarms when attended to SB device	Alm SB	AT-9	AT-20
Alarms when attended for onsite communications	Alm loc	AT-4	AT-21

Note 1: All vacant PRCA are set to default to NICAD, AF-3, so that if used by a new feature the alarms will error out in NICAD so that new PRCAs can be found. IO routing changes will be necessary.

MEANING OF CLASSA & CLASSUA SETTINGS

CLASSA & CLASSUA	ACL
0	Not Used
1	A1
2	A2
3	A3
4	O1
5	O2
6	NO PRINT

9.1.2. Printout Routing Data

Print out routing is loaded by XDCN-0334. An example of the data loaded by this XDCN is below

```
IOROL:PRCA=37&&44&48&49&55&57&58&70&92,DTYPE=FIRST,IO={nicad},NOSYST;  
IOROL:DTYPE=STB,IO={aom};  
IOROL:DTYPE=FIRST,IO={sort},NOSYST;  
IOROL:DTYPE=FIRST,IO={alm_EX}, CLASSUA=6,NOSYST;  
IOROL:DTYPE=STB,IO={alm_SB}, CLASSUA=6;  
IOROL:DTYPE=FIRST,IO={alm_LOC},CLASSUA=6,NOSYST;  
IOROI:PRCA=37&&44&48&49&55&57&58&70&92;
```

The XDCN script file when loaded will direct PRCA's as per tables above.

10. PRIORITY CALL ANALYSIS

10.1. Incoming Calls

The AXE system uses a system of queues to which it allocates each INCOMING call, both local subscriber and trunk/junction depending on its priority.

All these incoming calls are first passed through a priority analysis process before further treatment by the system. After priority analysis, the call is placed into a priority buffer (one of 16). The calls are then fetched from the buffers according to their priority allocation, with the highest priority being handled first.

There are a maximum of sixteen buffers/queues numbered 0-15, with zero (0) being the highest priority and 15 the lowest.

For subscribers there are two classes: normal and priority. The position of the priority subscribers can be set between the maximum and minimum priority levels. Normal subscribers are allocated buffer position 11, but have an overriding control which results in calls in this queue being taken first for a certain percentage of time. See command PLSUC for more information.

For incoming trunks the priority value is set to a default value of 10. Command EXRBC can be used to redefine the priority level of each route if required.

The setting of I/C Route Priorities as detailed in the following should be implemented.

The effect of setting higher priorities on I/C Routes is only evident under CP overload conditions and results in important calls being processed first with the aim of minimising the effects of CP overload.

Important calls (when associated with a specific route) are defined as follows:

- Those calls which have already traversed the Network (particularly from Interstate) and therefore should be given priority over localised calls which have just originated.
- Special Network Products such as 008 which require call transfer.
Note: These calls require that the priority for the B-C link is set to the same as or higher than the A-B link.
- Calls from Special Network Products such as ISDN, CMTS, FAXSTREAM, etc.

Calls of lesser importance are defined as follows:

- Avalanche traffic such as I/C Mass Calling routes such as 00556
- I/C calls on Routes from local Nodes & Tandems.

Note: Priority level 3 is reserved for Priority Subscribers, and will only be used if required during emergency conditions (eg. bushfires). During normal operations level 3 is not used.

PRIORITY CALL LEVELS

Priority	Route Type	IO
0-2	Not in use	
3	Priority Customers (emergency use only)	
4	INAP incoming	
5	Not in use	
6	Emergency Routes	
7	Loop	
8	Not in use	HIGH
9	TNS / MTS /International	
10	Default priority for all Routes	
11	Default Priority for Normal Customer	
12	Adaptive Base Level Load Regulation, Low Request Queue. (PLRPC)	NORM

Priority	Route Type	IO
13	Adaptive Base Level Load Regulation, High Request Queue (PLRPC)	LOW
14	Not in use	
15	Avalanche / False Traffic	

Note:- since call priority information cannot yet be signalled through the network, the use of these priority settings does not guarantee priority customers end-to-end call priority

11. ALLOCATION OF MEASURING PROGRAMS (MP) AND TRAFFIC RECORDING GROUPS (TRG)

11.1. Measurement Programs

Table 13.1. relates to measurement facilities described in sections 13.2.1,2&3. The table details allocation of **Measuring Programs** according to organisational requirements.

Table 13.1.

Operating Centre	Allocated MPs	Reserved MPs
Network Data Acquisition Traffic	0 - 40	41 - 50
Network Data Acquisition ANF	51 - 66	
Network Data Acquisition SEQS	65 - 70	
Network Administration Centre	71 - 100	

Command **TRIDP :ALL**; should be used to find a free MP in your allocated range

11.2. Traffic Recording Groups (TRGs)

11.2.1. General Measurements

Table 13.2 shows the allocation of **Traffic Recording Groups** to organisational areas requiring access to measurement objects not specifically noted elsewhere in section 13.

Table 13.2

Operating Centre	Allocated TRGs	Reserved TRGs
Network Data Acquisition	0 - 23	-
Network Administration Centre	24 - 40	-

11.2.2. CCS#7 Measurements

The CCS#7 measurement facility is shown separate from the general measurement facility as it is covered by its own unique TRG association. It uses the same MPs as the general measurements but has its own TRGs. The allocation of resources within this category, as detailed in table 13.3, relate specifically to CCS#7 route measurements.

Table 13.3

Operating Centre	Allocated TRGs	Reserved TRGs
Network Data Acquisition	0 - 10	11 - 15
Network Administration Centre	16 - 20	

Total TRGs available 20

11.2.3. Data Recording Per Call (DRPC) Measurements

The DRPC measurement facility is shown separate from the general measurement facility as it is covered by its own unique TRG association. It uses the same MPs as the general measurements but has its own TRGs.

A characteristic of the DRPC measurement facility is that it has a unique allocation of 16 TRGs but only **one** MP can be associated with this type of measurement.

This resource is allocated to Network Data Acquisition. Table 13.4 refers.

Table 13.4

Operating Centre	Allocated TRGs	Reserved TRGs
Network Data Acquisition	0 - 15	-

Total TRGs available 16

For all inquiries regarding Traffic Measurements, Measuring programs or Traffic Recording groups please contact:

National Network Data Acquisition (NDA) Hot line on (03) 650 7198

12. IO PARAMETERS

12.1. Device Parameter

COMMAND	PARAMETERS	COMMENTS
IOIOI	IO= TW-"X", DVPMR= 1;	For IOIM connected PCs and Printers that have Internal Acknowledgment and does not need Time Supervision Of CR, LF, FF
IOIOI	IO= AT-"X";	For ATs Use Default Of Zero

see Command Descriptions for more information.

12.2. Device attendance.

COMMAND	PARAMETERS	COMMENTS
IODAC;	Np	From COMMATT port. Alarm Panel and alarms to GOC ports not normally active.

12.3. IO Printout Format

COMMAND	PARAMETERS	COMMENTS
IOFOC:	IO= "io", LINE= 255, FORMFEED= NO;	"io" is AT or TW in IOG11B & IOG20C Sites
IOFOC:	IO= "io", LINE= 255;	"io" is TW in RSS Sites

12.4. IO Standby Devices

Was used to provides error interrupts with an output so that they can be captured from both EX and SB CPs. This is now controlled using PRCA 32.

COMMAND	PARAMETERS	COMMENTS
IOSBC:		IOG20C
IOSBC:		IOG11B-S

END all IO standbys

12.5. IO Disturbance Level

COMMAND	PARAMETERS	COMMENTS
IODLC:	BLOCK= TW, ADL= 5;	Printer interface disturbance set at 5%

12.6. IO Load Regulation For IOG11B-S & IOG20C

COMMAND	PARAMETERS	COMMENTS
IOLRC:	IO= "io", PRI= "pri";	Set IO Priorities as per section "IO Device Allocation Tables and IO requirements."

12.7. Data Carrier Detect for AT devices in IOG11B-S.

COMMAND	PARAMETERS	COMMENTS
ILSLC:	NP="Np",DCD=DISC;	Disconnect carrier detect on all NDC AT Ports to prevent alarms when PC are powered down.
ILSLC:	NP="Np",DCD=YES;	Connect carrier detect on all other AT Ports

12.8. Data Carrier Detect for AT devices in IOG20C.

COMMAND	PARAMETERS	COMMENTS
ILSLC:	NP="Np",DCDSUP=YES;	Connect carrier detect on all other AT Ports

12.9. Transaction Log For IOG11B-S & IOG20C

COMMAND	PARAMETERS	COMMENTS
MCTLS/C:	FILE= TRLOGFILE, FILEDUR= 72, IO= ALL,XPRCA=32&35&47&61&77&12&25&93&99;	Logs last 72 hours or 3 days of exchange transactions. Excludes restarts, heart beat ,NEPR ,MCT and SES simulation
MCTBE:	FILE= TRLOGFILE;	

12.10. IO Alphanumeric File Devices

COMMAND	PARAMETERS	COMMENTS
IOIFI INFDI INFCC IOAFC	FILE=AFFILE, NSUB=9999, MAXTIME=1440, RELEASE=YES; FILE=AFFILE, DEST=FICTIVE, EQUIP=NOLINK; FILE=AFFILE, REMOVE=16800; IO=AF-0, FILE=AFFILE;	(AF-0) AFFILE store 7 days of KFL traces. 1 sub file per day
IOIFI INFDI INFCC IOAFC	FILE=AFFILEREST, NSUB=9999, MAXTIME=1440, RELEASE=YES; FILE=AFFILEREST, DEST=FICTIVE, EQUIP=NOLINK; FILE=AFFILEREST, REMOVE=36600; IO=AF-1, FILE=AFFILEREST;	(AF-1) FFILEREST stores 14 days of Restart data, EMRP restarts 1 sub file per day
IOIFI INFDI INFCC IOAFC	FILE=AFFILEMAL, NSUB=9999, MAXTIME=60, RELEASE=YES; FILE=AFFILEMAL, DEST=FICTIVE, EQUIP=NOLINK; FILE=AFFILEMAL, REMOVE=02400; IO=AF-2, FILE=AFFILEMAL;	(AF-2) AFFILEMAL store 1 days of Malicious Call traces. 1 sub file per hour
IOIFI INFDI INFCC IOAFC	FILE=AFFILEJUNK, NSUB=9999, MAXTIME=1440, RELEASE=NO; FILE=AFFILEJUNK, DEST=FICTIVE, EQUIP=NOLINK; FILE=AFFILEJUNK, REMOVE=04800; IO=AF-3, FILE=AFFILEJUNK;	(AF-3) AFFILEJUNK stores 2 days of data from vacant PRCAs. 1 sub file per day
IOIFI INFDI INFCC IOAFC	FILE=AFFILEC7ERP, NSUB=9999, MAXTIME=1440, RELEASE=YES; FILE=AFFILEC7ERP, DEST=FICTIVE, EQUIP=NOLINK; FILE=AFFILEC7ERP, REMOVE=36600; IO=AF-5, FILE=AFFILEC7ERP;	(AF-5) AFFILEC7ERP stores 2 days of C7 event reports. 1 sub file per day

12.11.IO Terminal Time for LOG11B-S & LOG20C

COMMAND	PARAMETERS	COMMENTS
IOTTC:	ATGR= 0, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 1, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 2, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 3, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 4, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 5, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 6, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 7, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 8, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 9, STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 10,STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 11,STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 12,STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 13,STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 14,STIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.
IOTTC:	ATGR= 15,SIME= 0000, ETIME= 2359, DCAT= 0&&-9;	Terminal Available 24 Hours a Day.

12.12. IO Authorities for IOG11B-S & IOG20C

COMMAND	PARAMETERS	COMMENTS
IOTGC:	ATGR= 0, CATR= 0&&63;	No command access.
IOTGC:	ATGR= 1, CATI= 0, CATR= 1&&63;	All print commands.
IOTGC:	ATGR= 2, CATI= 0&&62 ,CATR= 1&&61&63;	SULTAN
IOTGC:	ATGR= 3, CATI= 0&&40&52&60&62, CATR= 1&&39&41&51&53&&59&61&63;	All Customer Operations Commands
IOTGC:	ATGR= 4, CATI=0&&7&18&31&40&43&44&45&47&51&&53&55&&57&59&60&62 ,CATR=1&&6&8&&17&19&&30&32&&39&41&42&46&48&&50&54&58&61&63;	All print, traffic recording, customer & some administration commands, TEST SYSTEM print only for CRIS.
IOTGC:	ATGR= 5, CATI= 0&&63;	Data Pipe
IOTGC:	ATGR= 6, CATI= 6, CATR= 0&&5&7&&63;	Alarm Displays
IOTGC:	ATGR= 7, CATI=129, CATR= 0&&63;	Telstra special network services
IOTGC:	ATGR= 8, CATR= 0&&63;	Spare
IOTGC:	ATGR= 9, CATR= 0&&63;	Spare
IOTGC:	ATGR= 10, CATR= 0&&63;	Spare
IOTGC:	ATGR= 11, CATR= 0&&63;	Spare
IOTGC:	ATGR= 12, CATI= 0&&63;	Network exchange management systems. No barring
IOTGC:	ATGR= 13, CATI= 0&&63;	IOIOM TW terminals. No barring
IOTGC:	ATGR= 14, CATI= 0&&63;	Remote connected AT terminals, No barring.
IOTGC:	ATGR= 15, CATI= 0&&63;	Onsite AT terminals, No barring.
IOTAC:	IO= "io", ATGR= "atgr", AUTH= NO;	As per tables in Section 5

Note: for /A4 & /A2, command category range is 0-255. Add IOTGC:ATGR=x, CATR=64&&255;

12.13. Command Category Change for Package 6 IOG11B & IOG20C

COMMAND	PARAMETERS	COMMENTS
IOCTI:	COMMAND = BGABE, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = BGABI, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = BGBGC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGBGE, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGBGI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGBSE, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGBSI, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGESC, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGNSE, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGNSI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGPNC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGPNE, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGPRC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = BGRCC, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGRCE, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGRMC, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGRPE, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGRPI, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGRSC, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BGRSE, COCA=52	Moved from COCA 33
IOCTI:	COMMAND = BLODE, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = BLODI, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = BLORE, COCA=52	Moved from COCA 34
IOCTI:	COMMAND = BLORI, COCA=52	Moved from COCA 34
IOCTI:	COMMAND = BLOSE, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = BLOSI, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = CTRAI, COCA=52	Moved from COCA 40
IOCTI:	COMMAND = DTBLE, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = DTBLI, COCA=52	Moved from COCA 35
IOCTI:	COMMAND = DTL1E, COCA=52	Moved from COCA 39
IOCTI:	COMMAND = DTL1I, COCA=52	Moved from COCA 39
IOCTI:	COMMAND = DTL2E, COCA=52	Moved from COCA 39
IOCTI:	COMMAND = DTL2I, COCA=52	Moved from COCA 39
IOCTI:	COMMAND = DTL3E, COCA=52	Moved from COCA 39
IOCTI:	COMMAND = DTL3I, COCA=52	Moved from COCA 39
IOCTI:	COMMAND = DTS1E, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = DTS1I, COCA=52	Moved from COCA 42

COMMAND	PARAMETERS	COMMENTS
IOCTI:	COMMAND = DTS2E, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = DTS2I, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = DTS3E, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = DTS3I, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = DTRNE, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = DURNI, COCA=00	Moved from COCA 42
IOCTI:	COMMAND = END , COCA=31	Moved from COCA 27
IOCTI:	COMMAND = EXAKC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXRBC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXRME, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXRMI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXROE, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXROI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXRVI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXSCI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXSPE, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXSPI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXSSE, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXSSI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXSTE, COCA=52	Moved from COCA 44
IOCTI:	COMMAND = EXSTI, COCA=52	Moved from COCA 44
IOCTI:	COMMAND = EXTPE, COCA=62	Moved from COCA 44
IOCTI:	COMMAND = EXTPI, COCA=62	Moved from COCA 43
IOCTI:	COMMAND = EXUTC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXUTE, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = EXUTI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = IOTXP, COCA=00	Moved from COCA 7
IOCTI:	COMMAND = MOCOI, COCA=52	Moved from COCA 48
IOCTI:	COMMAND = MOLTE, COCA=52	Moved from COCA 48
IOCTI:	COMMAND = MOLTI, COCA=52	Moved from COCA 48
IOCTI:	COMMAND = MONTI, COCA=62	Moved from COCA 48
IOCTI:	COMMAND = PRINT, COCA=31	Moved from COCA 27
IOCTI:	COMMAND = SLCRI, COCA=52	Moved from COCA 51
IOCTI:	COMMAND = SLOCI, COCA=62	Moved from COCA 51
IOCTI:	COMMAND = SLOMI, COCA=62	Moved from COCA 51
IOCTI:	COMMAND = SLOTI, COCA=52	Moved from COCA 51
IOCTI:	COMMAND = SLQME, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = SLQMI, COCA=52	Moved from COCA 42
IOCTI:	COMMAND = SLRTE, COCA=52	Moved from COCA 51

COMMAND	PARAMETERS	COMMENTS
IOCTI:	COMMAND = SLRTI, COCA=52	Moved from COCA 51
IOCTI:	COMMAND = SULCC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = SULGC, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = SULGI, COCA=52	Moved from COCA 43
IOCTI:	COMMAND = SUMAR, COCA=52	Moved from COCA 52
IOCTI:	COMMAND = SUMII, COCA=52	Moved from COCA 52
IOCTI:	COMMAND = SUSUR, COCA=52	Moved from COCA 39
IOCTI:	COMMAND = TCDLI, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCITE, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCITI, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCKRI, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCMAE, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCMAI, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCMCC, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCMCE, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCMCI, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCPXI, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TCTDI, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TEST , COCA=31	Moved from COCA 27
IOCTI:	COMMAND = TNLII, COCA=52	Moved from COCA 53
IOCTI:	COMMAND = TNTDI, COCA=52	Moved from COCA 51

13. SUPERVISION PARAMETERS

13.1. Alarms

13.1.1. Alarm Categories And Display.

COMMAND	PARAMETERS	COMMENTS
ALACC:	ALCATNO= 0, ALCAT= APZ, DICAT= 0&4&&7;	APZ Data Processing Subsystem
ALACC:	ALCATNO= 1, ALCAT= APZ, DICAT= 0&4&&7;	APZ Processors (CP, RP)
ALACC:	ALCATNO= 2, ALCAT= APZ, DICAT= 0&4&&7;	APZ IO device
ALACC:	ALCATNO= 3, ALCAT= APT, DICAT= 1&4&&7;	APT Switching Part
ALACC:	ALCATNO= 4, ALCAT= APT, DICAT= 1&4&&7;	APT Switch
ALACC:	ALCATNO= 5, ALCAT= APT, DICAT= 1&4&&7;	APT Switching Devices
ALACC:	ALCATNO= 6, ALCAT= APT, DICAT= 1&4&&7;	APT Customer Lines
ALACC:	ALCATNO= 7, ALCAT= APT, DICAT= 1&4&&7;	APT Digital Path & CCS7
ALACC:	ALCATNO= 8, ALCAT= POW, DICAT= 2&4&&7;	Power
ALACC:	ALCATNO= 9, ALCAT= BLD, DICAT= 3&4&&7;	Building & Air Treatment
ALACC:	ALCATNO= 10, ALCAT= PBX, DICAT= 3&4&&7;	PABX Alarm
ALACC:	ALCATNO= 11, ALCAT= CBL, DICAT= 3&4&&7;	Cable and Gas Pressure
ALACC:	ALCATNO= 12, ALCAT= TRN, DICAT= 3&4&&7;	Miscellaneous - & Transmission Alarms
ALACC:	ALCATNO= 13, ALCAT= EXT, DICAT= 3&4&&7;	Spare
ALACC:	ALCATNO= 14, ALCAT= NMC, DICAT= 3&4&&7;	Network Traffic Management /36 & /66 only
ALACC:	ALCATNO= 15, ALCAT= EXT, DICAT= 3&4&&7;	Spare

13.1.2. Alarm Class

COMMAND	PARAMETERS	COMMENTS
ALCLC:	ACLNO= 0, ACL= A1, ALDB, TWB;	NOTE: The "O" in O1 and O2 are alpha, not numeric.
ALCLC:	ACLNO= 1, ACL= A2, TWB;	
ALCLC:	ACLNO= 2, ACL= A3;	
ALCLC:	ACLNO= 3, ACL= O1, TWB;	
ALCLC:	ACLNO= 4, ACL= O2;	
ALPRC:	PRI= A;	Alarm Class priority Change

13.1.3. Time for periodic Alarm List

COMMAND	PARAMETERS	COMMENTS
ALLTC:		NICAD enters ALLIP to distribute load.

13.1.4. Alarm Functions Report Time for APZ 212.

COMMAND	PARAMETERS	COMMENTS
ALRTC;		Inhibit function.

13.1.5. Alarm Interface and display Data For IOG11B-S.

COMMAND	PARAMETERS	COMMENTS
ALALI: ALDIC:	ALI= 0, IO= AT-1, ALDI, EXAL= 0, SCAN; ALI= 0, DISPLAY= ATT, TYPE= x;	Defines ALI 0 and EXAL2-0&&-31 and SCAN Where x= 1 when ALAMP 137 7546/1 Where x= 2 when ALAMP 137 7546/4

13.1.6. Alarm Interface and display Data For IOG20C

COMMAND	PARAMETERS	COMMENTS
ALALI:	ALI= 0, IO= AT-1, EXAL= 0;	Defines ALI 0 and EXAL2-0&&-31

13.1.7. Alarm Function, Scan Category Data IOG11B-S

COMMAND	PARAMETERS	COMMENTS
ALSCC:	ALCATNO= 0, SCCAT= 0&4&6&7;	APZ Data Processing Subsystem
ALSCC:	ALCATNO= 1, SCCAT= 0&4&6&7;	APZ Processors (CP, RP)
ALSCC:	ALCATNO= 2, SCCAT= 0&4&6&7;	APZ IO device
ALSCC:	ALCATNO= 3, SCCAT= 1&4&6&7;	APT Switching Part
ALSCC:	ALCATNO= 4, SCCAT= 1&4&6&7;	APT Switch
ALSCC:	ALCATNO= 5, SCCAT= 1&4&6&7;	APT Switching Devices
ALSCC:	ALCATNO= 6, SCCAT= 1&4&6&7;	APT Customer Lines
ALSCC:	ALCATNO= 7, SCCAT= 1&4&6&7;	APT Digital Path & CCS7
ALSCC:	ALCATNO= 8, SCCAT= 2&5&&7;	Power
ALSCC:	ALCATNO= 9, SCCAT= 3&5&&7;	Building & Air Treatment
ALSCC:	ALCATNO= 10, SCCAT= 3&5&&7;	PABX Alarm
ALSCC:	ALCATNO= 11, SCCAT= 3&5&&7;	Cable and Gas Pressure
ALSCC:	ALCATNO= 12, SCCAT= 3&5&&7;	Miscellaneous - & Transmission Alarms
ALSCC:	ALCATNO= 13, SCCAT= 3&5&&7;	Spare
ALSCC:	ALCATNO= 14, SCCAT= 3&5&&7;	Network Traffic Management 36 & /66 only
ALSCC:	ALCATNO= 15, SCCAT= 3&5&&7;	Spare

SUMMARY OF SCAN OUTPUTS

SCAN OUTPUT	ALARM TYPE	SCAN OUTPUT	ALARM TYPE	SCAN OUTPUT	ALARM TYPE	SCAN OUTPUT	ALARM TYPE
----------------	------------	----------------	------------	----------------	------------	----------------	------------

SCAN OUTPUT	ALARM TYPE	SCAN OUTPUT	ALARM TYPE	SCAN OUTPUT	ALARM TYPE	SCAN OUTPUT	ALARM TYPE
0	APZ	1	APT	2	POW	3	EXT
4	APZ, APT	5	POW, EXT	6	APZ, APT, POW, EXT	7	APZ, APT, POW, EXT
8	Not used	9	Not used	10	Not used	11	Not used
12	Not used	13	Not used	14	Not used	15	Not used

13.2. APZ Supervision

13.2.1. Load Control

COMMAND	PARAMETERS	COMMENTS
PLCDC:	LDLIM= 93, LIMCAL= 30; FOR APZ 212	When processor load exceeds 93%, minimum call acceptance limit is 30 calls/sec.
PLSUC:	SUPRY= 32, PRLEV= 3;	The percentage of time that the buffer for Subscriber calls are served before other traffic to 32%. Buffer 3 is assigned to priority subscriber calls.
PLSUC:	PRPRY=ON;	Allow buffer 12 (IO) to be fetched before Calls
PLRPC:	PRI=1,PRLEV=13;	Low request queue
PLRPC:	PRI=2,PRLEV=12;	High request queue

13.2.2. Exchange Input Load Supervision

COMMAND	PARAMETERS	COMMENTS
PLSVC:	ACL= A1, REJCLS= 10, TDMI= 1;	A1 alarm if exchange rejects calls at a rate greater than 10 calls in the prescribed time set in TDMI (mins).
PLSDC:	SAL= 0;	Alarm state set at normal when: SAL= 0 :normal state. SAL= 1 :calls without priority are rejected if there is register congestion. SAL= 2 :calls with priority only accepted

13.2.3. Processor Load Supervision for TCAP messages.

COMMAND	PARAMETERS	COMMENTS
PLSPC:	LDLIM=93,MINMSG=100;	The Load Supervision function maintains an acceptable throughput of TCAP messages during high processor load conditions.

13.2.4. Processor Load Observation

COMMAND	PARAMETERS	COMMENTS
PLOBC:	LV12= 93, LV23= 80, LV34= 70, COU= 12;	Sets Load State 1 to 93-100% " " " 2 to 80-93% " " " 3 to 70-80% " " " 4 to 0-70% Printout given after 12 Load State changes.

13.2.5. Exchange Input Load Observation

COMMAND	PARAMETERS	COMMENTS
PLEIC:	LV12=600, LV23= 600, LV34= 600, COU= 255;	APZ 212-11 & APZ 212-20 This facility is no longer required, all values set to Maximum.

13.2.6. Test System Load Monitor

COMMAND	PARAMETERS	COMMENTS
TEIMI:	LOAD=100,TI=10;	Test system terminated if processor load reaches LOAD% for TI in milliseconds

13.2.7. CP Fault Alarms for APZ 212.

COMMAND	PARAMETERS	COMMENTS
REACC:	FAULTTYPE= AMUFAULT, ACL= A1 ; FAULTTYPE= SIDEFAULT, ACL= A1 ; FAULTTYPE= TEMPORARY, ACL= A2 ; FAULTTYPE= BITFAULT, ACL= A2 ;	
	FAULTTYPE= FANFAULT, ACL= A1 ;	212-20 Only

13.2.8. Audit Function initiate APZ 212

COMMAND	PARAMETERS	COMMENTS
AFSII;		Active Registration of Software Irregularities.

13.2.9. Audit Function supervision for APZ 212 with APT /A4

COMMAND	PARAMETERS	COMMENTS
AFTSS:	TEST=101, ACL1=A3,LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1	Program Store Usage.
AFTSS:	TEST=102, ACL1=A3,LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1	Reference Store Usage.
AFTSS:	TEST=104, ACL1=A3,LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1	Data Store Usage.
COMMAND	PARAMETERS	
AFTSS:	TEST=110,SAE="Sae",BLOCK="Block",LIM1="lim1",HYST1="HYST1",ACL1="ACL1";	

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
16		90	5	A3				B Number Modifications in B Number Analysis
17		90	5	A3				Modules in B Number Analysis.
46		80	15	A3	90	24	A1	Block SUSADIA No of Subs
47		80	15	A3	90	24	A1	Block SUSADIA No of Modules
50		80	15	A3	90	24	A1	Customers with Hot Line.
88		80	15	A3	90	24	A1	Customers with MCT facility.
109		90	5	A3				Block DA Modules in A number Analysis
178		80	15	A3	90	24	A1	Total Business Groups
179		80	15	A3	90	24	A1	Nub of Business Group subs 10-groups
181		80	15	A3	90	24	A1	Nub of BGS Routing Cases
182		80	15	A3	90	24	A1	Nub of BGS Routing Programs
183		80	15	A3	90	24	A1	Nub of BGS Routing Alternatives
184		80	15	A3	90	24	A1	Nub of BGS Routing Alternatives containing B -Mods
185		80	15	A3	90	24	A1	Nub of BGS in B-Nub Analysis
186		80	15	A3	90	24	A1	Nub B-number Mods in BGS in B-Nub Analysis
187		80	15	A3	90	24	A1	Nub B-number Mods in BGS in EOS Analysis
195		80	15	A3	90	24	A1	BGS Group routing switch analysis modules
201		80	15	A3	90	24	A1	BGS CAT sets in exchange
330		90	5	A3				Passwords
333		75	10	A1				Block DCLTRAN No of Transport Individuals
336		75	10	A1				Block DCLNET No of Logical channels
338		75	10	A1				Nub of Queue Individuals
345		75	10	A1				Block LAD No of 32 Word Storage Banks
346		75	10	A1				Block LAD No of 64 Word Storage Banks
347		75	10	A1				Block LAD No of 128 Word Storage Banks
348		75	10	A1				Block LAD No of 256 Word Storage Banks
349		75	10	A1				Block LAD No of 512 Word Storage Banks

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
350		85	5	A1				Block LAD No of 1024 Word Storage Banks
351		75	10	A1				Block LAD No of 2048 Word Storage Banks
352		85	5	A1				Block LAD No of 4096 Word Storage Banks
353		75	10	A1				Block LAD No of 8k Word Storage Banks
354		75	10	A1				Block LAD No of 16k Word Storage Banks
355		75	10	A1				Block LAD No of 32k Word Storage Banks
440		80	15	A3	90	24	A1	ISDN-E store a specific access-related data
441		80	15	A3	90	24	A1	Process instances handling the calls
446		80	10	A1				Charging views
447		80	15	A3	90	24	A1	Attendant individuals
455		80	15	A3	90	24	A1	ISDN-E SSC Traffic individuals (ISDN-E)
466		85	15	A1				Block ALA alarm list elements.
500	BCFC	80	10	A3	95	10	A1	BUSINESS GROUP CALL FLOW CONTROL
500	BCPUC	80	10	A3	95	10	A1	Business Group Call Pick-Up, Connection
500	BPTNO	80	10	A3	95	10	A1	Business Group Private Telecommunication Network Originating
500	BPTNT	80	10	A3	95	10	A1	Business Group Private Telecommunication Network Terminating
500	CHOFCAS	10	5	A2	90	5	A1	Block CHOFCAS, Converted records.
500	CHOFCS	10	5	A2	90	5	A1	Block CHOFCS, Converted records.
500	CHOFICI	10	5	A2	90	5	A1	Block CHOFICS, Converted records.
500	CHOFTT	10	5	A2	90	5	A1	Block CHOFTT, Converted records.
500	CUG	80	15	A3	90	24	A1	CLOSED USER GROUP
500	ISC	80	15	A3	90	24	A1	Immediate Service
500	IU3PTY	80	15	A3	90	24	A1	ISDN-E, Three Party Service
500	IUAOCD	80	15	A3	90	24	A1	ISDN-E User Advice of Charge, During the Call
500	IUAOCE	80	15	A3	90	24	A1	ISDN-E User, Advice of Charge, at the End of the Call
500	IUAOCS	80	15	A3	90	24	A1	ISDN-E User, Advice of Charge at Call Set-Up Time
500	IUAOCT	80	15	A3	90	24	A1	ISDN-E User Advice of Charge, Total Meter Reading
500	IUASIC	80	15	A3	90	24	A1	ISDN-E User Announcement Services for Incoming Calls
500	IUBSIC	80	15	A3	90	24	A1	ISDN-E User Barring Services for Incoming Calls
500	IUCAOS	80	15	A3	90	24	A1	ISDN-E Charging Associated Output Services
500	IUCCS	80	15	A3	90	24	A1	ISDN-E Call Control Service Mechanism
500	IUCDP	80	15	A3	90	24	A1	ISDN-E User Call Diversion Protection
500	IUCHBC	80	15	A3	90	24	A1	ISDN-E User Charging for Business Communications
500	IUCHMH	80	15	A3	90	24	A1	ISDN-E User Charging Message Handling
500	IUCSIC	80	15	A3	90	24	A1	ISDN-E User Charging Services
500	IUCUG	80	15	A3	90	24	A1	ISDN-E CLOSED USER GROUP
500	IUCW	80	15	A3	90	24	A1	ISDN-E, Call Waiting Service
500	IUDIVC	80	15	A3	90	24	A1	ISDN-E User Call Diversion Administration
500	IUDIVN	80	15	A3	90	24	A1	ISDN-E User Call Diversion Notification Handling
500	IUFACT	80	15	A3	90	24	A1	ISDN-E Facility Translation
500	IUHOLD	80	15	A3	90	24	A1	ISDN-E Call Hold Changeable
500	IUISPH	80	15	A3	90	24	A1	ISDN-E ISUP Protocol Handler
500	IUKEYA	80	15	A3	90	24	A1	ISDN-E, Keypad
500	IUMCID	80	15	A3	90	24	A1	ISDN-E User Malicious Call Identification In Terminating Node

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
500	IUNUMP	80	15	A3	90	24	A1	ISDN-E User Number Presentation Services
500	IUOCB	80	15	A3	90	24	A1	ISDN-E User Outgoing Call Barring
500	IUOCC	80	15	A3	90	24	A1	ISDN-E Originating Call Control
500	IURDIR	80	15	A3	90	24	A1	ISDN-E Clearing Redirection Control
500	IUSKEY	80	15	A3	90	24	A1	ISDN-E Change of Keyword
500	IUSSCO	80	15	A3	90	24	A1	ISDN-E Supplementary Service Control Originating
500	IUSSCT	80	15	A3	90	24	A1	ISDN User Supplementary Service Control Retention
500	IUSUDA	80	15	A3	90	24	A1	ISDN User Service Subscriber Data Administration
500	IUTCC	80	15	A3	90	24	A1	ISDN-E Terminating Call Control Changeable
500	IUTCPH	80	15	A3	90	24	A1	ISDN-E TCAP Protocol Handler
500	IUTPRH	80	15	A3	90	24	A1	ISDN-E Terminal Portability and Reduced Hunting
500	IUUUS	80	15	A3	90	24	A1	ISDN-E User-to-User Signalling
500	MB	80	15	A3	90	24	A1	Common AM Message Buffer
500	MCIDMF	80	15	A3	90	24	A1	ISDN-E User Malicious Call Identification in Terminating Node
500	MFDMCID	80	15	A3	90	24	A1	BGC ISDN-E Malicious Call Identification in Terminating Node
500	MFTRAN	80	15	A3	90	24	A1	BGS-AM Management Function Translation Block
500	NASA	80	15	A3	90	24	A1	Network Analysis Session Agent
500	NASA1	80	15	A3	90	24	A1	Network Analysis Session Agent 1
500	PHABA	80	15	A3	90	24	A1	Protocol Handler Active Basic Access
500	PHABAV5	80	15	A3	90	24	A1	Protocol Handler Active Primary Access
500	SCFM	80	15	A3	90	24	A1	Service Control Function Main
500	SEIS	80	15	A3	90	24	A1	Subscriber lines with seizure supervisions.
500	SIPA	80	15	A3	90	24	A1	Subscriber Information Presentation
500	SSFCTE	80	15	A3	90	24	A1	Service Switching Function Charging Traffic Engine
500	SSUA	80	15	A3	90	24	A1	Service Suspension
500	SUSCCED	80	15	A3	90	24	A1	Logging of subscriber procedure
500	SUSQC	80	15	A3	90	24	A1	Subscriber Call Queue Control
501	SUSAACA	80	15	A3	90	24	A1	Alarm call bookings
501	SUSASU	80	15	A3	90	24	A1	Absent Subscriber Service
501	SUSCNUA	80	15	A3	90	24	A1	Changed Number Announcement service (CNUA)
501	SUSKEY	80	15	A3	90	24	A1	Change Of Keyword
501	SUSLNR	80	15	A3	90	24	A1	Last Number Repetition
501	SUSMSN	80	15	A3	90	24	A1	Multiple Subscriber Number
501	SUSOCB	80	15	A3	90	24	A1	Outgoing Call Barring,
501	SUSSLs	80	15	A3	90	24	A1	Screening List Services
502	SUSAACA	80	15	A3	90	24	A1	individuals in file for stored alarm call bookings.
502	SUSKEY	80	15	A3	90	24	A1	Change Of Keyword
506	LIM3	80	15	A3	90	24	A1	PBX Subroutes
506	LIMRA1	80	15	A3	90	24	A1	PBX Subroutes
506	LIMRA2	80	15	A3	90	24	A1	PBX Subroutes
507	LIM3	80	15	A3	90	24	A1	Lines with Special Equipment
507	LIMRA1	80	15	A3	90	24	A1	Lines with Special Equipment
507	LIMRA2	80	15	A3	90	24	A1	Lines with Special Equipment
513	BAVAL	80	15	A3	90	24	A1	Translation Modules

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
541	SUSCCBA	80	15	A3	90	24	A1	A Subs with CCB
561	PHABA	80	15	A3	90	24	A1	Active phase of call and protocol restart procedure
561	PHABAV5	80	15	A3	90	24	A1	Simultaneous calls active phase, BA
561	PHOBA	80	15	A3	90	24	A1	Call establishment at the originating side
561	PHOBAV5	80	15	A3	90	24	A1	Simultaneous calls originating, BA
561	PHTBA	80	15	A3	90	24	A1	Call establishment at the terminating side
561	PHTBAV5	80	15	A3	90	24	A1	Simultaneous calls terminating, BA
600	CHOFCAS	10	5	A2	90	5	A1	Unconverted records
600	CHOFCS	10	5	A2	90	5	A1	Unconverted records
600	CHOFICI	10	5	A2	90	5	A1	Unconverted records
600	CHOFTT	10	5	A2	90	5	A1	Unconverted records
601	CHOFCAS	10	5	A2	90	5	A1	Tagged Data Records
601	CHOFCS	10	5	A2	90	5	A1	Tagged Data Records
601	CHOFICI	10	5	A2	90	5	A1	Tagged Data Records
601	CHOFTT	10	5	A2	90	5	A1	Tagged Data Records
602	SUSCR	80	15	A3	90	24	A1	Call Return, PSTN
618	BAVAL	80	15	A3	90	24	A1	BGS A-number validation, extension validation ind
639	UPLTD	90	5	A3				User part label translation and distribution ,SPUP ind
712	DA	90	5	A3				X-number modification modules.
736	DA	90	5	A3				Analysis modules, X-number analysis.
747	SUSCFDB	80	15	A3	90	24	A1	Variable service data records.
748	SUSCFDB	80	15	A3	90	24	A1	CFBV forwarded-to number records.
749	SUSCFDB	80	15	A3	90	24	A1	CFNRV forwarded-to number records.
750	SUSCFDB	80	15	A3	90	24	A1	CFUV forwarded-to number records.
751	SUSCFDB	80	15	A3	90	24	A1	subscribers with fixed services.
752	SUSCFDB	80	15	A3	90	24	A1	fixed forwarded-to number records.
753	SUSCFDB	80	15	A3	90	24	A1	Storage of forwarded- number/carrier access code
754	SUSCFDB	80	15	A3	90	24	A1	Storage of subaddress for CFUV.
776	SUSQC	80	15	A3	90	24	A1	queue individuals
777	SUSQC	80	15	A3	90	24	A1	idle line individuals
778	SUSMWC	80	15	A3	90	24	A1	activation records
790	SUSSLD	80	15	A3	90	24	A1	Screening list database table records.
791	SUSSLD	80	15	A3	90	24	A1	screening list database number records
917		90	15	A1				Task individual, Call forwarding data base SUSCFDB
918		90	15	A1				Individuals of O&M functions which make use of O&M view

13.2.10.Audit Function supervision for APZ 212 with APT /A2 !!!!NOT ADAPTED FOR A2 YET

COMMAND	PARAMETERS	COMMENTS
AFTSS:	TEST=101, ACL1=A3,LIM1=96,HYST1=2, LIM2=98,HYST2=2,ACL2=A1	Program Store Usage.
AFTSS:	TEST=102, ACL1=A3,LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1	Reference Store Usage.
AFTSS:	TEST=104, ACL1=A3,LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1	Data Store Usage.

COMMAND	PARAMETERS
AFTSS:	TEST=110,SAE="Sae",BLOCK="Block",LIM1="lim1",HYST1="HYST1",ACL1="ACL1";

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
16		90	5	A3				B Number Modifications in B Number Analysis
17		90	5	A3				Modules in B Number Analysis.
46		80	15	A3	90	24	A1	Block SUSADIA No of Subs
47		80	15	A3	90	24	A1	Block SUSADIA No of Modules
50		80	15	A3	90	24	A1	Customers with Hot Line.
88		80	15	A3	90	24	A1	Customers with MCT facility.
109		90	5	A3				Block DA Modules in A number Analysis
178		80	15	A3	90	24	A1	Total Business Groups
179		80	15	A3	90	24	A1	Nub of Business Group subs 10-groups
181		80	15	A3	90	24	A1	Nub of BGS Routing Cases
182		80	15	A3	90	24	A1	Nub of BGS Routing Programs
183		80	15	A3	90	24	A1	Nub of BGS Routing Alternatives
184		80	15	A3	90	24	A1	Nub of BGS Routing Alternatives containing B -Mods
185		80	15	A3	90	24	A1	Nub of BGS in B-Nub Analysis
186		80	15	A3	90	24	A1	Nub B-number Mods in BGS in B-Nub Analysis
187		80	15	A3	90	24	A1	Nub B-number Mods in BGS in EOS Analysis
195		80	15	A3	90	24	A1	BGS Group routing switch analysis modules
201		80	15	A3	90	24	A1	BGS CAT sets in exchange
330		90	5	A3				Passwords
333		75	10	A1				Block DCLTRAN No of Transport Individuals
336		75	10	A1				Block DCLNET No of Logical channels
338		75	10	A1				Nub of Queue Individuals
345		75	10	A1				Block LAD No of 32 Word Storage Banks
346		75	10	A1				Block LAD No of 64 Word Storage Banks
347		75	10	A1				Block LAD No of 128 Word Storage Banks
348		75	10	A1				Block LAD No of 256 Word Storage Banks
349		75	10	A1				Block LAD No of 512 Word Storage Banks
350		85	5	A1				Block LAD No of 1024 Word Storage Banks
351		75	10	A1				Block LAD No of 2048 Word Storage Banks
352		85	5	A1				Block LAD No of 4096 Word Storage Banks
353		75	10	A1				Block LAD No of 8k Word Storage Banks
354		75	10	A1				Block LAD No of 16k Word Storage Banks
355		75	10	A1				Block LAD No of 32k Word Storage Banks
440		80	15	A3	90	24	A1	ISDN-E store a specific access-related data
441		80	15	A3	90	24	A1	Process instances handling the calls
446		80	10	A1				Charging views
447		80	15	A3	90	24	A1	Attendant individuals
455		80	15	A3	90	24	A1	ISDN-E SSC Traffic individuals (ISDN-E)
466		85	15	A1				Block ALA alarm list elements.

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
500	BCFC	80	10	A3	95	10	A1	BUSINESS GROUP CALL FLOW CONTROL
500	BCPUC	80	10	A3	95	10	A1	Business Group Call Pick-Up, Connection
500	BPTNO	80	10	A3	95	10	A1	Business Group Private Telecommunication Network Originating
500	BPTNT	80	10	A3	95	10	A1	Business Group Private Telecommunication Network Terminating
500	CHOFcas	10	5	A2	90	5	A1	Block CHOFcas, Converted records.
500	CHOFCS	10	5	A2	90	5	A1	Block CHOFCS, Converted records.
500	CHOFICI	10	5	A2	90	5	A1	Block CHOFICS, Converted records.
500	CHOFTT	10	5	A2	90	5	A1	Block CHOFTT, Converted records.
500	CUG	80	15	A3	90	24	A1	CLOSED USER GROUP
500	ISC	80	15	A3	90	24	A1	Immediate Service
500	IU3PTY	80	15	A3	90	24	A1	ISDN-E, Three Party Service
500	IUAOCD	80	15	A3	90	24	A1	ISDN-E User Advice of Charge, During the Call
500	IUAOCE	80	15	A3	90	24	A1	ISDN-E User, Advice of Charge, at the End of the Call
500	IUAOCS	80	15	A3	90	24	A1	ISDN-E User, Advice of Charge at Call Set-Up Time
500	IUAOCT	80	15	A3	90	24	A1	ISDN-E User Advice of Charge, Total Meter Reading
500	IUASIC	80	15	A3	90	24	A1	ISDN-E User Announcement Services for Incoming Calls
500	IUBSIC	80	15	A3	90	24	A1	ISDN-E User Barring Services for Incoming Calls
500	IUCAOS	80	15	A3	90	24	A1	ISDN-E Charging Associated Output Services
500	IUCCS	80	15	A3	90	24	A1	ISDN-E Call Control Service Mechanism
500	IUCDP	80	15	A3	90	24	A1	ISDN-E User Call Diversion Protection
500	IUCHBC	80	15	A3	90	24	A1	ISDN-E User Charging for Business Communications
500	IUCHMH	80	15	A3	90	24	A1	ISDN-E User Charging Message Handling
500	IUCSIC	80	15	A3	90	24	A1	ISDN-E User Charging Services
500	IUCUG	80	15	A3	90	24	A1	ISDN-E CLOSED USER GROUP
500	IUCW	80	15	A3	90	24	A1	ISDN-E, Call Waiting Service
500	IUDIVC	80	15	A3	90	24	A1	ISDN-E User Call Diversion Administration
500	IUDIVN	80	15	A3	90	24	A1	ISDN-E User Call Diversion Notification Handling
500	IUFACT	80	15	A3	90	24	A1	ISDN-E Facility Translation
500	IUHOLD	80	15	A3	90	24	A1	ISDN-E Call Hold Changeable
500	IUISPH	80	15	A3	90	24	A1	ISDN-E ISUP Protocol Handler
500	IUKEYA	80	15	A3	90	24	A1	ISDN-E, Keypad
500	IUMCID	80	15	A3	90	24	A1	ISDN-E User Malicious Call Identification In Terminating Node
500	IUNUMP	80	15	A3	90	24	A1	ISDN-E User Number Presentation Services
500	IUOCB	80	15	A3	90	24	A1	ISDN-E User Outgoing Call Barring
500	IUOCC	80	15	A3	90	24	A1	ISDN-E Originating Call Control
500	IURDIR	80	15	A3	90	24	A1	ISDN-E Clearing Redirection Control
500	IUSKEY	80	15	A3	90	24	A1	ISDN-E Change of Keyword
500	IUSSCO	80	15	A3	90	24	A1	ISDN-E Supplementary Service Control Originating
500	IUSSCT	80	15	A3	90	24	A1	ISDN User Supplementary Service Control Retention
500	IUSUDA	80	15	A3	90	24	A1	ISDN User Service Subscriber Data Administration
500	IUTCC	80	15	A3	90	24	A1	ISDN-E Terminating Call Control Changeable
500	IUTCPH	80	15	A3	90	24	A1	ISDN-E TCAP Protocol Handler
500	IUTPRH	80	15	A3	90	24	A1	ISDN-E Terminal Portability and Reduced Hunting
500	IUUUS	80	15	A3	90	24	A1	ISDN-E User-to-User Signalling

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
500	MB	80	15	A3	90	24	A1	Common AM Message Buffer
500	MCIDMF	80	15	A3	90	24	A1	ISDN-E User Malicious Call Identification in Terminating Node
500	MFDMCID	80	15	A3	90	24	A1	BGC ISDN-E Malicious Call Identification in Terminating Node
500	MFRAN	80	15	A3	90	24	A1	BGS-AM Management Function Translation Block
500	NASA	80	15	A3	90	24	A1	Network Analysis Session Agent
500	NASA1	80	15	A3	90	24	A1	Network Analysis Session Agent 1
500	PHABA	80	15	A3	90	24	A1	Protocol Handler Active Basic Access
500	PHABAV5	80	15	A3	90	24	A1	Protocol Handler Active Primary Access
500	SCFM	80	15	A3	90	24	A1	Service Control Function Main
500	SEIS	80	15	A3	90	24	A1	Subscriber lines with seizure supervisions.
500	SIPA	80	15	A3	90	24	A1	Subscriber Information Presentation
500	SSFCTE	80	15	A3	90	24	A1	Service Switching Function Charging Traffic Engine
500	SSUA	80	15	A3	90	24	A1	Service Suspension
500	SUSCCED	80	15	A3	90	24	A1	Logging of subscriber procedure
500	SUSQC	80	15	A3	90	24	A1	Subscriber Call Queue Control
501	SUSAACA	80	15	A3	90	24	A1	Alarm call bookings
501	SUSASU	80	15	A3	90	24	A1	Absent Subscriber Service
501	SUSCNUA	80	15	A3	90	24	A1	Changed Number Announcement service (CNUA)
501	SUSKEY	80	15	A3	90	24	A1	Change Of Keyword
501	SUSLNR	80	15	A3	90	24	A1	Last Number Repetition
501	SUSMSN	80	15	A3	90	24	A1	Multiple Subscriber Number
501	SUSOCB	80	15	A3	90	24	A1	Outgoing Call Barring,
501	SUSLS	80	15	A3	90	24	A1	Screening List Services
502	SUSAACA	80	15	A3	90	24	A1	individuals in file for stored alarm call bookings.
502	SUSKEY	80	15	A3	90	24	A1	Change Of Keyword
506	LIM3	80	15	A3	90	24	A1	PBX Subroutes
506	LIMRA1	80	15	A3	90	24	A1	PBX Subroutes
506	LIMRA2	80	15	A3	90	24	A1	PBX Subroutes
507	LIM3	80	15	A3	90	24	A1	Lines with Special Equipment
507	LIMRA1	80	15	A3	90	24	A1	Lines with Special Equipment
507	LIMRA2	80	15	A3	90	24	A1	Lines with Special Equipment
513	BAVAL	80	15	A3	90	24	A1	Translation Modules
541	SUSCCBA	80	15	A3	90	24	A1	A Subs with CCB
561	PHABA	80	15	A3	90	24	A1	Active phase of call and protocol restart procedure
561	PHABAV5	80	15	A3	90	24	A1	Simultaneous calls active phase, BA
561	PHOBA	80	15	A3	90	24	A1	Call establishment at the originating side
561	PHOBV5	80	15	A3	90	24	A1	Simultaneous calls originating, BA
561	PHTBA	80	15	A3	90	24	A1	Call establishment at the terminating side
561	PHTBIV5	80	15	A3	90	24	A1	Simultaneous calls terminating, BA
600	CHOFCS	10	5	A2	90	5	A1	Unconverted records
600	CHOFCS	10	5	A2	90	5	A1	Unconverted records
600	CHOFICI	10	5	A2	90	5	A1	Unconverted records
600	CHOFTT	10	5	A2	90	5	A1	Unconverted records
601	CHOFCS	10	5	A2	90	5	A1	Tagged Data Records

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
601	CHOFCS	10	5	A2	90	5	A1	Tagged Data Records
601	CHOFICI	10	5	A2	90	5	A1	Tagged Data Records
601	CHOFTT	10	5	A2	90	5	A1	Tagged Data Records
602	SUSCR	80	15	A3	90	24	A1	Call Return, PSTN
618	BAVAL	80	15	A3	90	24	A1	BGS A-number validation, extension validation ind
639	UPLTD	90	5	A3				User part label translation and distribution ,SPUP ind
712	DA	90	5	A3				X-number modification modules.
736	DA	90	5	A3				Analysis modules, X-number analysis.
747	SUSCFDB	80	15	A3	90	24	A1	Variable service data records.
748	SUSCFDB	80	15	A3	90	24	A1	CFBV forwarded-to number records.
749	SUSCFDB	80	15	A3	90	24	A1	CFNRV forwarded-to number records.
750	SUSCFDB	80	15	A3	90	24	A1	CFUV forwarded-to number records.
751	SUSCFDB	80	15	A3	90	24	A1	subscribers with fixed services.
752	SUSCFDB	80	15	A3	90	24	A1	fixed forwarded-to number records.
753	SUSCFDB	80	15	A3	90	24	A1	Storage of forwarded- number/carrier access code
754	SUSCFDB	80	15	A3	90	24	A1	Storage of subaddress for CFUV.
776	SUSQC	80	15	A3	90	24	A1	queue individuals
777	SUSQC	80	15	A3	90	24	A1	idle line individuals
778	SUSMWC	80	15	A3	90	24	A1	activation records
790	SUSSLD	80	15	A3	90	24	A1	Screening list database table records.
791	SUSSLD	80	15	A3	90	24	A1	screening list database number records
917		90	15	A1				Task individual, Call forwarding data base SUSCFDB
918		90	15	A1				Individuals of O&M functions which make use of O&M view

13.2.11. Audit Function supervision for APZ 212 with APT Transgate

COMMAND	PARAMETERS	COMMENTS
AFTSS:	TEST=101, ACL1=A3, LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1	Program Store Usage.
AFTSS:	TEST=102, ACL1=A3, LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1;	Reference Store Usage.
AFTSS:	TEST=104, ACL1=A3, LIM1=90,HYST1=5, LIM2=95,HYST2=5,ACL2=A1;	Data Store Usage.

COMMAND	PARAMETERS
AFTSS:	TEST=110,SAE="Sae",BLOCK="Block",LIM1="lim1",HYST1="HYST1",ACL1="ACL1";

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
165		A3	95	1				Number of CCITT7 signalling points in all networks (mtp2)
236		A3	90	5				Storage of global data table
237		A3	90	5				Nub of records stored for service logics
238		A3	90	5				Nub of records for service administrators

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
256		A3	95	1				Block C7ER No of IND for Event Recording
271		A3	90	5				Storage of SC (service center) information
292		A3	90	5				
330		A3	90	5				Passwords
333		A2	75	10				Block DCLTRAN No of Transport Individuals
336		A2	75	10				Block DCLNET No of Logical channels
338		A2	75	10				Nub of Queue Individuals
345		A2	75	10				Block LAD No of 32 Word Storage Banks
346		A2	75	10				Block LAD No of 64 Word Storage Banks
347		A2	75	10				Block LAD No of 128 Word Storage Banks
348		A2	75	10				Block LAD No of 256 Word Storage Banks
349		A2	75	10				Block LAD No of 512 Word Storage Banks
350		A2	85	10				Block LAD No of 1024 Word Storage Banks
351		A2	75	10				Block LAD No of 2048 Word Storage Banks
352		A2	85	10				Block LAD No of 4096 Word Storage Banks
353		A2	75	10				Block LAD No of 8k Word Storage Banks
354		A2	75	10				Block LAD No of 16k Word Storage Banks
355		A2	75	10				Block LAD No of 32k Word Storage Banks
356		A3	90	5				
357		A3	90	5				
358		A3	90	5				
359		A3	90	5				
360		A3	90	5				
361		A3	90	5				
362		A3	90	5				
363		A3	90	5				
364		A3	90	5				
365		A3	90	5				
366		A3	90	5				
367		A3	90	5				
368		A3	90	5				
369		A3	90	5				
370		A3	90	5				
371		A3	90	5				
423		A3	95	1				Block SAF number of table rows in table
424		A3	95	1				Block SAF number of work rows in table

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
462		A3	90	1				Number of commands.
466		A2	85	5				Block ALA number of alarm list elements.
500	SSVP	A3	90	5				
500	SCFM	A3	90	5				
500	SSPUM	A3	90	5				
618	SSNA	A3	90	5				SA-reference individuals within block SSN
618	SSVP	A3	90	5				SSI voice prompting chained data file in DM module
622	SSSTC	A3	90	5				SSI statistics counters 24 hour statistics queue file
670	SSI	A3	90	5				
671	SSI	A3	90	5				
671	SSINT	A3	90	5				Service script internal control types
671	SSINT2	A3	90	5				Service script interpreter, basic controltypes 2
671	SSNA	A3	90	5				number individuals within block SSNA
671	SSVP	A3	90	5				SSI voice prompting DM file
672	SSSTC	A3	90	5				SSI statistics counters (DM-file) for controltypes
675	SSIA	A3	90	5				
676	SSIA	A3	90	5				
689	SSSTC	A3	90	5				SSI statistics counters Queue file
757	SCFM	A3	90	5				Call Data Extension File
760	SSNAX	A3	90	5				SSI Extended Num Analysis, 0-64K.
761	SSNAX	A3	90	5				SSI Extended Num Analysis, 0-1M.
762	SSNAX	A3	90	5				SSI Extended Num Analysis, 0-1M.
763	SSNAX	A3	90	5				SSI Extended Num Analysis, Two digit compare
764	SSNAX	A3	90	5				SSI Extended Num Analysis, Digit Branch
765	SSQUE	A3	90	5				SSI Queue, ACB file to Store numbers.
766	SSQUE	A3	90	5				SSI Queue, Statistical File
767	SSQUE	A3	90	5				SSI Queue, 4 pos
768	SSQUE	A3	90	5				SSI Queue, 32 pos.
805	DBTAB7	A3	90	5				
806	DBTAB7	A3	90	5				
809	LAVS	A3	90	5				Distributors for Variable Output
810	LAVS	A3	90	5				Variable Groups for Variable Output
814	DBCOH	A3	90	5				
814	DBPOH	A3	90	5				
815	DBTRH	A3	90	5				
816	DBTRH	A3	90	5				

SAE	BLOCK	LIM1	HYST1	ACL1	LIM2	HYST2	ACL2	COMMENTS
817	DBTRH	A3	90	5				

Note: other SIZEALTS will be audited as the NIU information becomes available.

13.2.12. Additional Supervision in /A4

COMMAND	PARAMETERS	COMMENTS
LDTMI;		Line Down Time Measurement, Initiate

13.3. Restarts and Error Interrupts

13.3.1. Restarts

COMMAND	PARAMETERS	COMMENTS
SYEDI: SYRDI:	EMG= ALL, EM= ALL, FORM= LARGE; RP= rp, FORM= LARGE;	EMRP restart data size /29 & /A4 RP restart data size for down loadable RPs or RPD. This survives a reload and should be active.

13.3.2. Software Recovery Printout Format APZ 212

COMMAND	PARAMETERS	COMMENTS
SYRFC:	RECTYPE= SYSTRES , PRINT= JAM & LSI & MAL & VAR & JBA & JBB & JBC & JBD & JTJB & PREB & TROB;	
SYRFC:	RECTYPE= SOFTERR , PRINT= JAM;	
SYRFC:	RECTYPE= APPLERR , PRINT= JAM;	
SYRFC:	RECTYPE= SYSTRES , RANK= SMALL , ACL= A1;	
SYRFC:	RECTYPE= SYSTRES , RANK= LARGE , ACL= A1;	
SYRFC:	RECTYPE= SYSTRES , RANK= RELOAD , ACL= A1;	
SYRFC:	RECTYPE= SYSTRES , RANK= SMLMAN , ACL= A1;	
SYRFC:	RECTYPE= SYSTRES , RANK= LRGMAN , ACL= A1;	
SYRFC:	RECTYPE= SYSTRES , RANK= RELMAN , ACL= A1;	
SYRFC:	RECTYPE= SOFTERR , ACL= A3;	
SYRFC:	RECTYPE= APPLERR , ACL= A3;	

13.3.3. System Recovery Actions for APZ 212

COMMAND	PARAMETERS	COMMENTS
SYRAC:	FORLOPPRES = ACTIVE;	Forlopp Restarts are active.
SYRAC:	SELRES = ACTIVE;	Selective Restarts are active for all mainstream nodes
SYRAC:	SELRES = PASSIVE;	Selective Restarts are passive for Transgate Nodes.
SYRAC:	SELRESTYPE = SMALLDELAYED;	Selective restart type for block with category 1
SYRAC:	SIGREC = ACTIVE;	missing signal reception statement in a bloc is regarded as a program error
SYRAC:	SMALLMINUTES = 4;	Delay in minute after a small system , before the restart rank is set to "small"
SYRAC:	LARGEMINUTES = 4;	Delay in minute after a large system , before the restart rank is set to "small"
SYRAC:	SMALLNUM = 1;	Number of large restart allowed before the restart rank is set to "large"
SYRAC:	LARGENUM = 1;	Number of large restart allowed before the restart rank is set to "reload"
SYFSC:	FLSTATUS = ACTIVE;	Forlopp Audit status
SYFSC:	FLECF = OFF;	Forlopp Execution Control status
SYFSC:	FLERROR = ON;	Forlopp Error status
SYFSC:	FLMODE = OPERATION;	Forlopp mode

13.3.4. Block Category Set

COMMAND	PARAMETERS	COMMENTS
SYBCS:		Refer to XDCN 344 / 298 / 271 - contact local DPG.

13.3.5. Error Interrupts

COMMAND	PARAMETERS	COMMENTS
DIEFC:	FORM= LARGE;	For APZ 212-20, IOG11B-S (printout to PRCA 32)

13.3.6. Error Intensity Limits

COMMAND	PARAMETERS	COMMENTS
SYELS:	DCAT= X, LIMIT=40 000, TIME=0000;	X equals DCAT 0 to 15.

13.4. System Backup

13.4.1. Backup Commandlog

COMMAND	PARAMETERS	COMMENTS
SYGPS:	DEFAULTS,CLH=MAN,INCL1=ANY,INCL2=NONE,SUP=60;	Set Command Log handling to manual mode.

13.4.2. System Backup Information

COMMAND	PARAMETERS	COMMENTS
SYBTS:	TIME= 0205, TDMI= 1440;	One large per day only APZ 212
SYBMS:	STORE= ALL,IODEP=YES;	

13.4.3. System Backup Allocation Test

COMMAND	PARAMETERS	COMMENTS
LAATS;		Loading Administration Allocation Test for APZ 211-10, APZ 212

13.5. Routes

13.5.1. Route Supervision

ROUTE DESCRIPTION	DEV TYPES	COMMANDS
Traffic routes		
LAS to LAS. Out going	BT7 BT73	BLURC:R=route,ACL=A3,LVB=30% & 70%;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
LAS to LAS. In coming	BT7 BT73	EXRBC:R=route,PRI=10;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
LAS to TNS Out going	BT7 BT73	BLURC:R=route,ACL=A3,LVB=10% & 70%;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
		NERLC:R=route,LV23=90,LV12=97,ACL2=A2,ACL1=A1,SI=60,COU=10;
TNS to LAS In coming	BT7 BT73	EXRBC:R=route,PRI=9;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
LAS to IGS Out going	BT7 BT73	BLURC:R=route,ACL=A3,LVB=30% & 70%;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=90,QUOB=100;
LAS to IGS In coming	BT7 BT73	EXRBC:R=route,PRI=10;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=90,QUOB=100;
IGS to TNS Out going	BT7 BT73	BLURC:R=route,ACL=A3,LVB=10% & 70%;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
		NERLC:R=route,LV23=90,LV12=97,ACL2=A2,ACL1=A1,SI=60,COU=10;
TNS to IGS In coming	BT7 BT73	EXRBC:R=route,PRI=10;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
IGS to Interconnect Out going	BT7 BT73	BLURC:R=route,ACL=A2,LVB=10% & 70%;
	UPDN2 UPDN3	SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;

ROUTE DESCRIPTION	DEV TYPES	COMMANDS
Interconnect to IGS In coming	BT7 BT73 UPDN2 UPDN3	EXRBC:R=route,PRI=10; SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
Emergency Out going	BT7 BT73 UPDN2 UPDN3	BLURC:R=route,ACL=A2,LVB=30% & 70%; SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
Emergency In coming	BT7 BT73 UPDN2 UPDN3	EXRBC:R=route,PRI=6; SEQAC:R=route,ACL=A3,QUOS=85,QUOB=100;
RSS / RIM routes		
RSS In coming	RT RT2 RT3	Nil
RSS Out going	RT RT2 RT3	BLURC:R=route,ACL=A2,LVB=10% & 50%; SEQAC:R=route,ACL=A3,QUOS=90,QUOB=100; NERLP:R=route,LV12=95,ACL1=A2,SI=60,COU=4;
RIM ARK In coming	BTARK6	DUDAC:R=route,ACL=A2,ADL=5; EXRBC:R=route,PRI=10;
RIM ARK Out going	BTARK6	BLURC:R=route,ACL=A2,LVB=10% & 50%; SEQAC:R=route,ACL=A3,QUOS=90,QUOB=100; NERLP:R=route,LV12=95,ACL1=A2,SI=60,COU=4; DUDAC:R=route,ACL=A2,ADL=5;
RIM ESM CAS signalling	LIRA1	N/A
RIM V5.2(-) Single link	LIAN	N/A
RIM V5.2 Multi link In coming	LITS	Nil
RIM V5.2 Multi link Out going	LITS	BLURC:R=route,ACL=A2,LVB=10% & 50%; SEQAC:R=route,ACL=A3,QUOS=90,QUOB=100; NERLC:R=route,LV12=95,ACL1=A2,SI=60,COU=4;
GSD routes		
MJD	MJD	NERLP:R=route,LV12=80,ACL1=A1,SI=60,COU=3; BLURC:R=route,ACL=A2,LVB=10% & 25%;
CCD	CCD	NERLC:R=route,LV12=95,ACL1=A1,SI=60,COU=3; BLURC:R=route,ACL=A2,LVB=10% & 25%;
ASDH	ASDH ASDH3	NERLP:R=route,LV12=80,ACL1=A1,SI=60,COU=3; BLURC:R=route,ACL=A2,LVB=10% & 25%;
Tone Signalling routes		
MFC signalling	CR CS CSR CSRR2 CSARK3	BLURC:R=route,ACL=A2,LVB=10% & 25%; NERLC:R=route,LV12=95,ACL1=A1,LV23=85,ACL2=A2,SI=60,COU=4;
DTMF signalling reception	KR KRD	BLURC:R=route,ACL=A2,LVB=10% & 25%; NERLC:R=route,LV12=95,ACL1=A1,SI=60,COU=3;

ROUTE DESCRIPTION	DEV TYPES	COMMANDS
DTMF signalling reception RSS	KR2	BLURC:R=route,ACL=A2,LVB=1% & 60%;
		NERLC:R=route,LV12=95,ACL1=A1,SI=60,COU=3;
DTMF signalling sending	CSKD	BLURC:R=route,ACL=A2,LVB=10% & 25%;
		NERLC:R=route,LV12=95,ACL1=A1,SI=60,COU=3;
FSK signalling	CSFSK	BLURC:R=route,ACL=A2,LVB=10% & 25%;
		NERLC:R=route,LV12=95,ACL1=A1,SI=60,COU=3;
Others		
SUALTAN	SAI	BLURC:R=route,ACL=A3,LVB=30% & 100%;
RSS Time switch bus	CJ	NERLC:R=route,ACL1=A2,LV12=95,SI=60,COU=4;

Notes on BLURC:

- First value of LV B will cause Alarm at ACL Value, second value will raise the alarm level to one higher.
- For Both-Way BT Routes where one of the routes is a dummy route, **remove dummy route Blocking supervision.**
- For Both-Way BT, RT and JT Routes, **remove I/C Blocking supervision.**
- Blocking Supervision is not required for Signalling routes, ie CCS-7 and RSS (SSS-D)
- Route types (eg LAS) are independent of the switch type (eg AXE, System 12, DMS, 10C) and are related to the function of the route in the Network.

13.5.2. Seizure Quality Supervision

COMMAND	PARAMETERS	COMMENTS
SEQAC	CTIME= 100,CTIME1=10;	The timeout period for the Australia market is 90 seconds. This figure must be set slightly higher than this figure to find all faults. This will also greatly reduce the number of false alarms that are output by the AXE

It is recommended that:

- SEQS be removed permanently where it is **clearly** evident that the route continually carries short holding time (SHT) traffic. For example Incoming SxS Main tandem function. COMMAND **SEQQP: R= ALL;** is very useful in working this out.
- On routes that intermittently carry Short Holdin Time traffic, SEQS may be temporarily ended and re-initiated (using commands SEQSE and SEQIR) as needed under the following conditions:
 1. Where traffic situations can be predetermined.
 2. Where an unexpected surge of SHT traffic causes devices and subsequently routes to be blocked. Blocking of circuits and subsequently routes can be detected by Blocking Supervision alarms and Circuit Available Exceptions.

13.5.3. Route Load Supervision Observation

COMMAND	PARAMETERS	ROUTE TYPES (DETY)
NERME:	R=ALL,OBS;	Disable function

13.5.4. Route Load Supervision Software Routes for /A4

Charging Functions:

COMMAND	PARAMETERS	COMMENTS
NERLC:	R=CHMON, ACL1=A1, LV12= 60, ACL2=A2, LV23=50, SI=60, COU=2;	Charging Monitoring

Function blocks with one route using devices.

COMMAND	PARAMETERS	COMMENTS
NERLC:	R="route" , ACL1=A1, LV12= 95, ACL2=A2, LV23=80, SI=60, COU=1;	For all routes listed below.

ROUTE	Route Description	Function	FU/B	SAE
ANOH	Announcement at Off Hook		ANOH	500
ASCMD			ASCMD	500
AUIF	Announcement unit user interface function		AUIF	500
BACAMP1	Business Group Attendant Camp-On		BACAMP	500
CONBCAN	Business Group Attendant Console Busying	Deactivation	BACONB	500
CONBINT	Business Group Attendant Console Busying	Interrogation	BACONB	500
CONBORD	Business Group Attendant Console Busying	Activation	BACONB	500
BAEO	Business group attendant override		BAEO	500
BAINT1	Business Group Attendant Intrusion		BAINT	500
BAQC	Business group attendant number and queue control		BAQC	500
BATINT	Business group attendant intrusion terminating		BATINT	500
BATRAC1	Business Group Attendant Transfer Services Controller		BATRAC	500
BAVAL	Business group subscriber number validation		BAVAL	500
BCM	Business group Call Monitoring		BCM	500
DCPU	Business Group Call Pick-Up	Directed Pick-Up	BCPU	500
GCPU	Business Group Call Pick-Up	Group Call Pick-Up.	BCPU	500
BDSREL	Business group subscriber controlled line relocation		BDREL	500

ROUTE	Route Description	Function	FU/B	SAE
BPRES	Business group subscriber number presentation isdn		BPRES	500
1BWL1	Black And White List	Internal Route	BWL1	500
CABSE01	Announcement about called number		CABSE	500
CJ	Combined Junctor	Internal Route	CJ	79&500
CJINT	Combined junctor	Internal route	CJI	192
CALLSUP	Call Supervision, Release And Coordination Of Function	Addressing The Cl-Route	CLCOF	1
COF	Call Supervision, Release And Coordination Of Function	Addressing The Cof-Route	CLCOF	500
DJBGC	Logical Trunk for BGC3.0 Administration		DJBGC	607
DJO	Outgoing Traffic Interface, ISDN-E		DJO	500
DJTC	Dummy Junctor Transaction Capability		DJTC	500
DSUIF	Digit sender		DSUIF	500
ECDH	Echo Cancellor in Pool Device Handler		ECDH	500
IAROUTE	Interface to analysis functions		IA	500
MAMOH	Mass announcement control		MACO	500
REG	Register Functions		RE	1
CLIPA	Subscriber information presentation analysis	Route for FSK signalling.	SIPA	500
SSFDDEV	Service switching function, delegated functions	Statistic for SSFD devices.	SSFD	500
SSFDVAR	Service switching function, delegated functions	Statistic for the devices that contains variable part information for the announcements.	SSFD	514
SSFDCF1	SSF Call Control Function	1 = SCF initiated call is created by an Initiate Call Attempt operation.	SSFDCF	
SSFDCF2	SSF Call Control Function	2 = outgoing call party created by a Connect operation within an SCF initiated call.	SSFDCF	
SSFDCF3	SSF Call Control Function	3 = connect is created by an Establish Temporary Connection operation.	SSFDCF	
SSFDCF4	SSF Call Control Function	4 = a call invokes IN.	SSFDCF	
SSFDCF5	SSF Call Control Function	5 = outgoing call party is created by a Connect operation.	SSFDCF	
SSFDCF6	SSF Call Control Function	6 = Points out the route used for Call statistics.	SSFDCF	
SSFDCF7	SSF Call Control Function	7 = Points out the route used for Leg statistics.	SSFDCF	

ROUTE	Route Description	Function	FU/B	SAE
SSFM2	Service switching function, main function 2,		SSFM2	284
SSFOST	Service switching function outgoing call handler	Statistics	SSFO	500
SSFTD1	Service switching function, traffic handler, data	Statistical route for call individuals	SSFTD	458
SSFTD2	Service switching function, traffic handler, data	Statistical route for data individuals.	SSFTD	604
SSFUC	Service switching function user control		SSFUC	500
SUPIA	Supplementary service inter working and a-number handling		SUPIA	1
SURMR	Function Repairman Controlled Subscriber Line Tests		SURM	Fixed
SUSAACA	Automatic Alarm Call Administration		SUSAACA	500
APMWI	Application Communication Control		SUSAPN	
APCCBS	Application Communication Control Supplementary Service		SUSAPSS	
CCBBTRF	Calls completion to busy subscribers, b-subscriber	Traffic route (route1)	SUSCCBB	500
CCBBQUE	Calls completion to busy subscribers, b-subscriber	B-queue route (route2)	SUSCCBB	542
CCMB	Supplementary Services Call Completion Message Buffer Handler		SUSCCMB	604
CCP	Supplementary Service Completion of Calls Protocol Control		SUSCCP	604
SUSCCPM	Supplementary Service Completion Of Calls Protocol Control		SUSCCPM	604
0CEC1	Common Part Of Enquiry And Call Waiting Service 1	Function Code For Traffic Route On Suscec1	SUSCEC1	144
CEC2	Common Part Of Enquiry And Call Waiting Service 2		SUSCEC2	144
SUSCH	ISDN Call Hold		SUSCH	500
SUSA	Sus Common Interface		SUSCIF	500
SUSCNUA	Changed number announcement		SUSCNUA	500
CORE	Call Forwarding Traffic.		SUSCRE	500
SUSCS	Common seizure		SUSCS	500
SUSCWI	ISDN Call waiting		SUSCWI	500
ENQUSE	Enquiry Call Handling		SUSENQ	500
GSPUSE	General Deactivating Service	Deactivation	SUSGD	500
SKEYFKW	Change Of Keyword	Subscriber Change Of First Keyword	SUSKEY	500
LMUSER	Subscriber service line monitoring	1=User file (route 1)	SUSLM	500
LMMONT	Subscriber service line monitoring	2=Monitor file (route 2)	SUSLM	798
LMIDLE	Subscriber service line monitoring	3=Idle line file (route 3)	SUSLM	799
MCT2	Malicious Call Identification		SUSMCIA	53

ROUTE	Route Description	Function	FU/B	SAE
MCT1	Malicious Call Identification		SUSMCIT	53
MSN	Multiple Subscriber Number		SUSMSN	500
SUSMWP	Supplementary services message waiting indication protocol		SUSMWP	604
SUSNAP	Supplementary services national application communication control		SUSNAP	604
SUSNSF	Number selection and formatting		SUSNSF	500
SCREC	Service Code Reception		SUSSCR	500
TCIA	Traffic Control Interface towards ANS		TCIA	500
TOM	Trunk offering main functions		TOM	4

Function blocks with more than one route sharing devices.

COMMAND	PARAMETERS	COMMENTS
NERLC:	R="route" , ACL1=A1, LV12= 55, ACL2=A2, LV23=45, SI=60, COU=1;	For all routes listed below.

ROUTE	Route Description	Function	FU/B	SAE
BPTNT1	Business Group Private Telecommunication Network Terminating	Route used for public route	BPTNT	500
DJIORIG	Incoming Traffic Interface, ISDN-E	Normal AM originated calls for Route	DJI	500
DJITRAN	Incoming Traffic Interface, ISDN-E	Normal AM terminated calls for Route	DJI	500
AACCAN	Automatic Alarm Call, Pstn	Cancellation Aac	SUSAACT	500
AACINT	Automatic Alarm Call, Pstn	Interrogation Aac	SUSAACT	500
AACORD	Automatic Alarm Call, Pstn	Booking Aac	SUSAACT	500
AACUSE	Automatic Alarm Call, Pstn	Effectuation	SUSAACT	500
4ACF	Association Control Function	Exchange network address (4)	SUSACF	604
ACFMCPN	Supplementary Services Association Control Function	Called Party Number Analysis.	SUSACF	604
ACFMPCRC	Supplementary Services Association Control Function	Process Route	SUSACF	604
ACFMOPR	Supplementary Services Association Control Function	Operation Route	SUSACF	605
ADIDEL	Abbreviated Dialling Service	Erasure Stored Telephone Number.	SUSADIT	500
ADIINS	Abbreviated Dialling Service	Registration Of Complete Telephone Number.	SUSADIT	500
ADIINSI	Abbreviated Dialling Service	Registration Of Incomplete Telephone Number	SUSADIT	500
ADIINT	Abbreviated Dialling Service	Interrogation Of Stored Telephone Number.	SUSADIT	500
ADIUSE	Abbreviated Dialling Service	Call Set Up With The Suffix Method	SUSADIT	500
ACTFDC	A-Services Service Block	Activation of fixed destination call service. (5)	SUSASSB	500

ROUTE	Route Description	Function	FU/B	SAE
ACTPRE	A-Services Service Block	Activation of outgoing call barring, prearranged service. (9)	SUSASSB	500
ACTSEL	A-Services Service Block	Activation of outgoing call barring, selected service. (12)	SUSASSB	500
DEACPRE	A-Services Service Block	Deactivation of outgoing call barring, prearranged service. (10)	SUSASSB	500
DEACSEL	A-Services Service Block	Deactivation of outgoing call barring, selected service. (13)	SUSASSB	500
DECFDC	A-Services Service Block	Deactivation of fixed destination call service (6)	SUSASSB	500
ERADIC	A-Services Service Block	Erasure of stored telephone number (3)	SUSASSB	500
INTADI	A-Services Service Block	Interrogation of stored telephone number. (4)	SUSASSB	500
INTFDC	A-Services Service Block	Interrogation of fixed destination call service. (7)	SUSASSB	500
INTPRE	A-Services Service Block	Interrogation of outgoing call barring, prearranged service. (11)	SUSASSB	500
INTSEL	A-Services Service Block	Interrogation of outgoing call barring, selected service. (14)	SUSASSB	500
REG1	A-Services Service Block	Change of first or second keyword (15)	SUSASSB	500
REG2	A-Services Service Block	Change of second keyword. (16)	SUSASSB	500
REGADIC	A-Services Service Block	Registration of complete telephone number.(1)	SUSASSB	500
REGADII	A-Services Service Block	Registration of incomplete telephone number (2)	SUSASSB	500
VERFDC	A-Services Service Block	Verification of fixed destination call number. (8)	SUSASSB	500
CCACAN	Absent Subscriber Service Subscriber Controlled	Deactivation	SUSASU	500
CCAIN	Absent Subscriber Service Subscriber Controlled	Interrogation	SUSASU	500
CCAORDP	Absent Subscriber Service Subscriber Controlled	Activation Of Prearranged Variant	SUSASU	500
CCAORDS	Absent Subscriber Service Subscriber Controlled	Activation Of Selective Variant	SUSASU	500
CCAUSE	Absent Subscriber Service Subscriber Controlled	Call Set-Up	SUSASU	500
CCAVER	Absent Subscriber Service Subscriber Controlled	Verification	SUSASU	500
4CCBS	Completion Of Calls To Busy Subscribers, A-Subscriber	Traffic Route	SUSCCBA	500
5CCBS	Completion Of Calls To Busy Subscribers, A-Subscriber	A-Queue Route	SUSCCBA	500
CCBSCAN	Completion Of Calls To Busy Subscribers, A-Subscriber	Cancellation	SUSCCBA	500
CCBSINT	Completion Of Calls To Busy Subscribers, A-Subscriber	Interrogation	SUSCCBA	500
CCBSORD	Completion Of Calls To Busy Subscribers, A-Subscriber	Activation	SUSCCBA	500
CCTA4	Completion of Calls to A-Subscriber	Traffic route (route4)	SUSCCTA	500
CCTA5	Completion of Calls to A-Subscriber	A-queue route (route5)	SUSCCTA	541
CCTA7	Completion of Calls to A-Subscriber	Converted number route	SUSCCTA	604
CCTB1	Completion of Calls to B-Subscriber	Remote Seizure	SUSCCTB	

ROUTE	Route Description	Function	FU/B	SAE
CCTB2	Completion of Calls to B-Subscriber	Traffic route (route2)	SUSCCTB	500
CCTB3	Completion of Calls to B-Subscriber	B-queue route (route3)	SUSCCTB	542
CFBFI	Call Forwarding Invocation Handler	Call Forwarding Busy Fixed number (CFBF) (2)	SUSCFIH	500
CFNRFI	Call Forwarding Invocation Handler	Call Forwarding No Reply Fixed number (4)	SUSCFIH	500
CFTUINV	Call forwarding timed unconditional	1 = Call Forwarding Timed Unconditional invoked.	SUSCFIH	500
SCFINC	Selective Call Forwarding Unconditional	Selective Call Forwarding Unconditional invoked.	SUSCFIH	500
SUSCFIH	Call Forwarding Busy	Deactivation Of Fixed List.	SUSCFIH	500
SUSCFIH	Call Forwarding Invocation Handler	Loop Back (1)	SUSCFIH	500
TRBRED	Call Forwarding Busy	Forwarding	SUSCFIH	500
TRNRRED	Call Forwarding No Reply	Forwarding	SUSCFIH	500
CFTUACT	Call forwarding timed unconditional	Activation of CFTU.	SUSCFPH	500
CFTUDEA	Call forwarding timed unconditional	Deactivation of CFTU.	SUSCFPH	500
CFTUINT	Call forwarding timed unconditional	Interrogation of CFTU.	SUSCFPH	500
CTRCANF	Call Forwarding Unconditional, Call Diversion Protection	Deactivation Of Fixed Number	SUSCFPH	500
CTRCANV	Call Forwarding Unconditional, Call Diversion Protection	Deactivation Of Variable Number	SUSCFPH	500
CTRINT	Call Forwarding Unconditional, Call Diversion Protection	Interrogation Of Fixed And Variable Number	SUSCFPH	500
CTRINTF	Call Forwarding Unconditional, Call Diversion Protection	Interrogation Of Fixed Number	SUSCFPH	500
CTRINTV	Call Forwarding Unconditional, Call Diversion Protection	Interrogation Of Variable Number	SUSCFPH	500
CTRORD	Call Forwarding Unconditional, Call Diversion Protection	Activation Of Variable Number	SUSCFPH	500
CTRORDF	Call Forwarding Unconditional, Call Diversion Protection	Activation Of Fixed Number.	SUSCFPH	500
CTRRED	Call Forwarding Unconditional, Call Diversion Protection	Forwarding Due To Cfu	SUSCFPH	500
CTRVER	Call Forwarding Unconditional, Call Diversion Protection	Verification Of Variable Number	SUSCFPH	500
SCFACT	Selective Call Forwarding Unconditional	Activation Of Scfu.	SUSCFPH	500
SCFDACT	Selective Call Forwarding Unconditional	Deactivation Of Scfu.	SUSCFPH	500
SCFINT	Selective Call Forwarding Unconditional	Interrogation Of Scfu.	SUSCFPH	500
TRBCAN	Call Forwarding Busy	Deactivation Of Variable Number.	SUSCFPH	500
TRBCL	Call Forwarding Busy	Deactivation Of Fixed List.	SUSCFPH	500
TRBINT	Call Forwarding Busy	Verification Of Variable Number.	SUSCFPH	500
TRBOL	Call Forwarding Busy	Activation Of Fixed List	SUSCFPH	500
TRBORD	Call Forwarding Busy	Activation Of Variable Number.	SUSCFPH	500
TRBVER	Call Forwarding Busy	Interrogation Of Variable Number.	SUSCFPH	500
TRBVL	Call Forwarding Busy	Interrogation Of Fixed List.	SUSCFPH	500
TRBVLV	Call Forwarding Busy	Interrogation Of Fixed And Variable Number	SUSCFPH	500
TRNCAN	Call Forwarding No Reply	Deactivation Of Variable Number	SUSCFPH	500
TRNCL	Call Forwarding No Reply	Deactivation Of Fixed Number	SUSCFPH	500

ROUTE	Route Description	Function	FU/B	SAE
TRNINT	Call Forwarding No Reply	Verification Of Variable Number	SUSCFPH	500
TRNOL	Call Forwarding No Reply	Activation Of Fixed Number	SUSCFPH	500
TRNORD	Call Forwarding No Reply	Activation Of Variable Number	SUSCFPH	500
TRNVER	Call Forwarding No Reply	Interrogation Of Variable number	SUSCFPH	500
TRNVL	Call Forwarding No Reply	Interrogation Of Fixed Number	SUSCFPH	500
TRNVLV	Call Forwarding No Reply	Interrogation Of Fixed And Variable Number	SUSCFPH	500
CTRCAN	Call Forwarding Unconditional, Call Diversion Protection	Deactivation Of Both Fixed And Variable Number	SUSCFU	500
CLII1	Calling Line Identification Restriction	Deactivate The Semipermanent Mode (Proc2/6/11) Or Temporary A-Number Presentation Allowed (Proc9).	SUSCLIR	500
CLIP1	Calling Line Identification Restriction	Presentation Restricted (Proc8) Or Temporary Opposite Procedure(Proc4).	SUSCLIR	500
CLIR1	Calling Line Identification Restriction	Activate The Semipermanent Mode (Proc1/5/10) Or Temporary A-Number	SUSCLIR	500
CRERASE	Call return, pstn	3 = Erasure (route3)	SUSCR	500
CRINVOC	Call return, pstn	2 = Invocation (route2)	SUSCR	500
CRREGIS	Call return, pstn	1 = Registration (route1)	SUSCR	500
CAWCAN	Call Waiting, Pstn	Deactivation Of Call Waiting Service.	SUSCWP	500
CAWINT	Call Waiting, Pstn	Interrogation Of The Call Waiting Service.	SUSCWP	500
CAWORD	Call Waiting, Pstn	Activation Of Call Waiting Service.	SUSCWP	500
CAWSUP	Call Waiting service	Temporary deactivation of Call Waiting service (6)	SUSCWP	500
CAWUSE	Call Waiting, Pstn	Call Set Up, Call Waiting.	SUSCWP	500
DDBCAN	Do Not Disturb Service	Deactivation.	SUSDDDB	500
DDBINT	Do Not Disturb Service	Interrogation.	SUSDDDB	500
DDBORD	Do Not Disturb Service	Activation.	SUSDDDB	500
HLIDEL	Fixed Destination Call	Deactivation Of Fixed Destination Call Service.	SUSFDC	500
HLIINS	Fixed Destination Call	Activation Of Fixed Destination Call Service.	SUSFDC	500
HLIINT	Fixed Destination Call	Data Request Of Fixed Destination Call Service.	SUSFDC	500
HLIUSE	Fixed Destination Call	Call Setup With Timeout.	SUSFDC	500
HLIVER	Fixed Destination Call	Data Check Of Fixed Destination Call Number.	SUSFDC	500
GASINV	General Availability for Supplementary Services	Invocation (1)	SUSGAS	500
LHWCAN	Line Hunt Group	Deactivation	SUSLHW	500
LHWINT	Line Hunt Group	Interrogation	SUSLHW	500
LHWORD	Line Hunt Group	Activation	SUSLHW	500

ROUTE	Route Description	Function	FU/B	SAE
RCLCAL	Last Number Repetition	Call Set-Up	SUSLNR	500
RCLDEL	Last Number Repetition	Activation By Service Code	SUSLNR	500
RCLINT	Last Number Repetition	Deactivation	SUSLNR	500
BMWIACT	Message Waiting Indication	Activation Of Message Waiting Indication.	SUSMWC	500
BMWIDEA	Message Waiting Indication	Deactivation Of Message Waiting Indication.	SUSMWC	500
BMWIINT	Message Waiting Indication	Verification Of Message Waiting Indication.	SUSMWC	500
BMWIRET	Message Waiting Indication	Message Retrieval.	SUSMWC	500
NMWACT	Message Waiting Indication	5 = Activation of MMI by direct dialling.	SUSMWC	500
NMWDEAC	Message Waiting Indication	6 = Deactivation of MWI by direct dialling.	SUSMWC	500
MWB	Message Waiting Indication	Message Buffer Handler (5)	SUSMWMB	604
CCBCAN	Outgoing Call Barring, Subscriber Controlled	Deactivation Of Prearranged Service.	SUSOCB	500
CCBCANS	Outgoing Call Barring, Subscriber Controlled	Deactivation Of Selective Service.	SUSOCB	500
CCBINT	Outgoing Call Barring, Subscriber Controlled	Interrogation Of Prearranged Service.	SUSOCB	500
CCBINTS	Outgoing Call Barring, Subscriber Controlled	Interrogation Of Selective Service.	SUSOCB	500
CCBORD	Outgoing Call Barring, Subscriber Controlled	Activation Of Prearranged Service.	SUSOCB	500
CCBORDS	Outgoing Call Barring, Subscriber Controlled	Activation Of Selective Service.	SUSOCB	500
QUEACRM	Subscriber Call Queue, Traffic	Activation, Remote Controlled, Kkww Free	SUSQT	500
QUEACT	Subscriber Call Queue, Traffic	Activation	SUSQT	500
QUEDEA	Subscriber Call Queue, Traffic	Deactivation	SUSQT	500
QUEDERM	Subscriber Call Queue, Traffic	Deactivation, Remote Controlled, Kkww Free	SUSQT	500
QUEINT	Subscriber Call Queue, Traffic	Interrogation	SUSQT	500
QUEUESE	Subscriber Call Queue, Traffic	Call Set-Up	SUSQT	500
RCORD	Remote Control Of Supplementary Services		SUSRC	500
SUSRC3	Remote Control Of Supplementary Services	Using Remote control (GP method). (3)	SUSRC	500
SLADD	Screening List Editing	Add Or Change Of Screening List Entry	SUSSLE	500
SLERASE	Screening List Editing	Erase Of Screening List Entry Or The Entire List.	SUSSLE	500
SLINT	Screening List Editing	Interrogation Of Screening List Entry.	SUSSLE	500
SLS11	Screening List Services	11 = Change of screening list data for SCA	SUSSLS	500
SLS12	Screening List Services	12 = Erasure of screening list data for SCA	SUSSLS	500
SLS13	Screening List Services	13 = Interrogation of screening list data for SCA	SUSSLS	500
SLS14	Screening List Services	14 = Invocation of SCA service	SUSSLS	500
SLS18	Screening List Services	18 = Change of screening list data for SCR	SUSSLS	500
SLS19	Screening List Services	19 = Erasure of screening list data for SCR	SUSSLS	500
SLS20	Screening List Services	20 = Interrogation of screening list data for SCR	SUSSLS	500
SLS21	Screening List Services	21 = Invocation of SCR service (Route21)	SUSSLS	500
SLS27	Screening List Services	27 = Invocation of UCR service (Route27)	SUSSLS	500

ROUTE	Route Description	Function	FU/B	SAE
SRACLI	Screening List Services	Change Of Screening List Data For Statistics	SUSSLS	500
SRACT	Screening List Services	Activation Of Sr	SUSSLS	500
SRDEACT	Screening List Services	Deactivation Of Sr	SUSSLS	500
SRECLI	Screening List Services	Erasure Of Screening List Data For Sr (Statistical Only)	SUSSLS	500
SRICLI	Screening List Services	Interrogation Of Screening List Data For Sr (Statistical Only)	SUSSLS	500
SRINT	Screening List Services	Interrogation Of Sr	SUSSLS	500
SRUSE	Screening List Services	Invocation Of Sr Service. (Statistical Only)	SUSSLS	500
SUSVCI	Voice Coded Charging Information	File for monitoring calls.	SUSVCI	502

13.5.5. Seizure Supervision On Trunks

COMMAND	PARAMETERS	COMMENTS
SETAC;	PL= 18, ACL= A3;	Each device must be seized once every three days.
SETRE:	R= all, PERM;	PL is a 4 Hours period
NOTES:		Function no longer used by Operations

- For Both-Way BT Routes where one of the routes is a dummy route, remove dummy route Seizure supervision.
- For Both-Way BT Routes, remove I/C Seizure supervision.
- Remove Seizure supervision on INDIAL and Critical INDIAL

13.5.6. Signalling Fault Supervision

COMMAND	PARAMETERS	COMMENTS
FAISI:	R= r, ACL= A3;	For device types BT63, BT33, UPDN2 ,UPDN3

13.5.7. Network Performance Recording

COMMAND	PARAMETERS	COMMENTS
NEPRI:		See XDCN 212

13.6. Digital Path Transmission Supervision

Digital path supervision settings are dependent on the type of hardware and software used to support the DIP. The hardware types are divided according to the digital link interface (DL) used.

GSD connected DL:

- DL1. Is realised by two differential 4Meg feeds from the TSM to ETC, One containing clocking, the other speech data and sync. In the ETC to TSM direction, two 2Meg feeds carry speech data, address and link error information. These links can be found in P83 and P86 equipment. The TSM variant is 11
- DL2. Is realised by two 4Meg feeds in the TSM to ETC direction and also in the ETC to TSM direction. Extra S bits are added in the frame to improve synchronisation between the TSM and ETC. P90 or SSS5 equipment supports the DL2 interface. The TSM variant is 1 or 4
- DL3. Is realised by a four pair cable. It has 48Meg data and a 16Meg clock in each direction. The link carries all multiplexed 16 digital paths from one TSM to a General Device type magazine. Four DL3 links can be combined in an SDH 155Meg system by an ET155 magazine. The TSM variant is 31 or 30.

RSS connected DL:

- At present there is only one hardware version used to realise RSS connected DL's referred to as an ESM. RSS connected DL's are used mainly for primary rate ISDN.

Note 1: The DIP supervision for each device type is controlled by its own block and has lead to variations for DIP supervision parameters between device types. The aim of the following tables is to provide similar supervision across all device types where possible.

Note 2: Text enclosed in exclamation marks indicates system defined parameters and cannot be loaded or changed. They are only included for clarity as they appear in AXE printouts.

13.6.1. GSD Connected DL Type 1 (Pkg 6)

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTIDC:	DIP=dip,INACT=0,MODE=0,MULTFS=00; !QSUP=0! Default parameters	BT7, UPDN2	Devices controlled by CCS7 signalling
DTFSC:	DIP=dip,FAULT=1&&4,ACL=A2;		

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
DTIDC:	DIP=dip,INACT=0, !QSUP=0;!	BT6, BT3, BTARK6, BTARK3	Devices controlled by CAS signalling
DTFSC:	DIP=dip,FAULT=1&&7,ACL=A2;		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
!DTIDC:!	!DIP=dip,INACT=1,QSUP=0;! Note: Data defined by system software	BL2	Devices controlled by CAS signalling
!DTFSC:!	!DIP=dip,FAULT=1&&7,ACL=A2;! Note: Data defined by system software		Note 1
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; !DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;!		Note 1
!DTIDC:!	!DIP=dip,INACT=1,QSUP=0;! Note: Data defined by system software	RT	RSS links. Both control and non control.
!DTFSC:!	!DIP=dip,FAULT=1&&7! Note: Data defined by system software		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; !DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;!		Note 1

Note 1. Changes introduced by package 6.1. These parameters are either no longer available or fix by the system software.

13.6.2. GSD Connected DL Type 2 (Pkg6)

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTIDC:	DIP=dip,INACT=0,MODE=0,MULTFS=00,CRC=0; !QSUP=0!	BT73	Devices controlled by CCS7 signalling
DTFSC:	DIP=dip,FAULT=1&&4,ACL=A2;		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
DTIDC:	DIP=dip,INACT=0,MODE=0,MULTFS=00,CRC=0,QSUP=3;	UPDN3	Devices controlled by CCS7 signalling
DTFSC:	DIP=dip,FAULT=1&&4&9,ACL=A2;		
DTQSC:	DIP=dip,SF,SFL=5,ACL=A3,TI=24;		

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
	DIP=dip,ES,ESL=120,ACL1=A3,RESL=5,ESL2=26,ACL2=A3,SDEGR=0600; DIP=dip,SES,SESL=15,ACL1=A2,RSESL=2,SESL2=10,ACL2=A3,SDEGR=0600;		
DTQSI:	DIP=dip,SF,ES,SES;		
DTIDC:	DIP=dip,INACT=0,CRC=0,QSUP=0; !MULTFS=01!	BT63, BT33, BL3	Devices controlled by CAS signalling
DTFSC:	DIP=dip,FAULT=1&&7,ACL=A2;		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
DTIDC:	DIP=dip,INACT=0,MODE=1,CRC=0; !QSUP=0!	RT2, RT3	RSS control links
DTFSC:	DIP=dip,FAULT=1&&4,ACL=A2;		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
DTQSI:	DIP=dip,DF,SF,BFF,LH,LL;		Note 1
DTIDC:	DIP=dip,INACT=0,MODE=0,CRC=0; !QSUP=0!	RT2, RT3	RSS NON control links
DTFSC:	DIP=dip,FAULT=1&&4,ACL=A2;		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
DTQSI:	DIP=dip,DF,SF,BFF,LH,LL;		Note 1
DTIDC:	DIP=dip,CRC=2,QSUP=3,INACT=0;	LITS	RIM V5.2 multi link
DTFSC:	DIP=dip,FAULT=1&&4&9,ACL=A2;		
DTQSC:	DIP=dip,ES,ESL=120,ACL1=A3; DIP=dip,SES,SESL=15,ACL1=A2; DIP=dip,DM,DML=15,ACL1=A3,DML2=10,T2=24,ACL2=A3; DIP=dip,PAR,N1=805,N2=64,N3=1,N4=28,N5=2;		Set parameters to blue book
DTQSI:	DIP=dip,DM,ES,SES;		

Note 1. Changes introduced by package 6.1. These parameters are either no longer available or fix by the system software.

13.6.3. GSD Connected DL Type 3 (Pkg 6)

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTIDC:	DIP=dip,INACT=0,MODE=0,MULTFS=00,CRC=0,QSUP=3;	UPDN3	Devices controlled by CCS7 signalling
DTFSC:	DIP=dip,FAULT=1&&4&9,ACL=A2;		
DTQSC:	DIP=dip,SF,SFL=5,ACL=A3,TI=24;		

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
	DIP=dip,ES,ESL=120,ACL1=A3,RESL=5,ESL2=26,ACL2=A3,SDEGR=0600; DIP=dip,SES,SESL=15,ACL1=A2,RSESL=2,SESL2=10,ACL2=A3,SDEGR=0600;		
DTQSI:	DIP=dip,SF,ES,SES;		
DTIDC:	DIP=dip,INACT=0,MULTFS=00,CRC=0,QSUP=0;	BT73	Devices controlled by CCS7 signalling
DTFSC:	DIP=dip,FAULT=1&&4,ACL=A2;		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
DTIDC:	?	BT63, BT33, BL3	Devices controlled by CAS signalling
DTFSC:	?		
DTQSC:	?		
DTIDC:	DIP=dip,INACT=0,MODE=0,CRC=0; !QSUP=0!	RT2, RT3	RSS links. Note:RSS control links do not exist in DL3
DTFSC:	DIP=dip,FAULT=1&&4,ACL=A2;		
DTQSC:	DIP=dip,BFF,BFFL1=20,ACL1=A3,BFFL2=800,ACL2=A2; DIP=dip,SF,SFL= 5,ACL= A3,TI= 24; DIP=dip,DF,DFL= 5,ACL= A3,TI= 4;		
DTIDC:	?	LITS	RIM V5.2 multi link
DTFSC:	?		
DTQSC:	?		
TPIDC:	SDIP=sdip,MS,MSREIM=ON,DEGTHR=1,DEGM=3; SDIP=sdip,HP,DEGTHR=1,DEGM=3; SDIP=sdip,LP,DEGTHR=1,DEGM=3;	UPDDIF	ET155 XDCN-514
TPFSC:	SDIP=sdip,LP,FAULT=3&&9,ACL=A2;		Fault Supervision
TPFSI:	SDIP=sdip,LP,FAULT=3&&9;		
TPQSC:	SDIP=sdip,ESL=10,RESL=0,ESL2=50; SDIP=sdip,SESL=3,RSESL=0,SESL2=10;		Quality Supervision
TPQSI:	SDIP=sdip,ES,ES2,SES,SES2,UAWS;		
TPQCI:	SDIP=sdip;		Historical Data
DTIDC:	DIP=dip,INACT=0,CRC=0,QSUP=3;	UPDDIF	Dip within a ET155
DTFSC:	DIP=dip,ACL=A2,FAULT=1&&4;		
DTQSC:	DTQSC:DIP=dip,SF,SFL=5,ACL=A3,TI=24; DTQSC:DIP=dip,ES,ESL=120,RESL=5,ESL2=26; DTQSC:DIP=dip,SES,SESL=15,RSESL=2,SESL2=10;		

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTQSI:	DIP=dip,SF,ES,SES;		
DTIDC:		BTR22D3	?
DTFSC:			
DTQSC:			
DTIDC:	DIP=dip,CRC=2,QSUP=3,SEC=YES;	LIPRAGS	ISDNE GS connected
DTFSC:	DIP=dip,FAULT=1&&3&9&11&&17,ACL=A3;		
DTQSC:	DIP=dip,SF,SFL=5,ACL=A3,TI=24; DIP=dip,ES,ESL=120,ACL1=A2,RESL=0,ESL2=26,ACL2=A3; DIP=dip,SES,SESL=15,ACL1=A2,SESL2=1,ACL2=A3; DIP=dip,SALA=1;		
DTQSI:	DIP=dip,SF,ES,SES;		

13.6.4. RSS Connected DL (Pkg 6)

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTIDC:	DIP=dip,CRC=2,QSUP=2;	LIAN	RIM V5.2- Single link
DTFSC:	DIP=dip,FAULT=1&&4&10,ACL=A1;		
DTQSC:	DIP=dip,ES,ESL=120,T1=15,ACL1=A3,RESL=5,ESL2=26,T2=24,ACL2=A3; DIP=dip,SES,SESL=15,T1=15,ACL1=A1,SESL2=10,T2=24,ACL2=A2; DIP=dip,DM,DML=15,T1=15,ACL1=A2,DML2=10,T2=24,ACL2=A3 DIP=dip,PAR,N1=805,N2=64,N3=1,N4=28,N5=2;		
DTIDC:	DIP=dip,INACT=0,CRC=2,QSUP=1; !MULTFS=01!	LIRA1	RIM (ESM) CAS signalling
DTFSC:	DIP=dip,FAULT=1&&7&10, ACL=A1;		
DTQSC:	DIP=dip,ES,ESL=120,T1=15,ACL1=A2; DIP=dip,SES,SESL=15,T1=15,ACL1=A1; DIP=dip,DM,DML=15,T1=15,ACL1=A2;		
DTQSI:	DIP=dip,ES,SES,DM;		
DTIDC:	DIP=dip,CRC=2,QSUP=2,SEC=YES;	LIPRAE	ISDNE RSS connected
DTFSC:	DIP=dip,FAULT=1&&3&10&&17,ACL=A3;		
DTQSC:	DIP=dip,ES,ESL=120,T1=15,ACL1=A2,RESL=0,ESL2=26,T2=24,ACL2=A3; DIP=dip,SES,SESL=15,T1=15,ACL1=A2,SESL2=1,T2=24,ACL2=A3; DIP=dip,DM,DML=15,T1=15,ACL1=A2,DML2=10,T2=24,ACL2=A3; DIP=dip,PAR,N1=805,N2=64,N3=1,N4=28,N5=2; DIP=dip,SALA=1;		Set to ITU-T M2100 & M2120 recommendations. (Ericsson default values)

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTQSI:	DIP=dip,ES,SES,DM;		

13.6.5. ISDN PRA Layer 1, 2 & 3 Supervision (Pkg 6)

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
		LIPRAE, <i>LIPRAGS</i>	Layer 1. Covered under DIP Quality Supervision (DTQSC)
DTL2I:	DIP=dip;		Layer 2. Loaded per DIP
DTL3I:	DIP=dip;		Layer 3. Loaded per DIP
DTP2C	PRA,RTIME=5,PTIME=1,LIMVRT=10,LIMVPE=5,LIMVER=5,ACL=A3;		Load once per node. LME Default values
DTP3C	PRA,RTIME=5,PTIME=1,LIMAB=10,LIMRF=5,LIMRT=5,ACL=A3;		Loaded once per node. LME Default values
DTMSC/DTMSI	Parameters set by NICAD router via AT-46&&-49		PRA alarms sent to NICAD router via MRD at time of writing was at FAR

13.6.6. ISDN BA Layer 1, 2 & 3 Supervision (Pkg 6)

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
DTL1I:	DIP=dip;	LIBAE	Layer 1. Loaded per DIP
DTL2I:	DIP=dip;		Layer 2. Loaded per DIP
DTL3I:	DIP=dip;		Layer 3. Loaded per DIP
DTT1C	DEV=LIBAE-libae,&&,ESLTNT=360,ESNTLT=360,SESLTNT=10,SESNTLT=10,DMLTNT=5,DMNTLT=5;		Assignable per LIBA. Build data, it is entered when LIBAs are defined.
DTP1C	DETY=LIBAE,N=10,N1=32,N2=2,T1=1;		These values have been chosen to match those used for existing ISDN /18 BMUX Basic Rate Microlink Customers
DTP2C	BA,PTIME=1,RTIME=5,LIMVRT=10,LIMVPE=5,LIMVER=5;		LME Default values
DTP3C	BA,PTIME=1,RTIME=5,LIMRF=5,LIMRT=5,LIMCC=5,LIMAB =5;		LME Default values
DTMSC/DTMSI	Parameters set by NICAD router over AT-46&&-49		BA alarms sent to NICAD router

COMMAND	PARAMETERS	DEVICE TYPES	COMMENTS
			via MRD at time of writing was at FAR

13.7. GSD

13.7.1. Network Synchronisation BYB202 & BYB102.

Sites with two BITS clocks		
COMMAND	PARAMETERS	COMMENTS
NSCOI:	DIP=CSN101S, CLREFINL=8;	
NSCOI:	DIP=CSN201S, CLREFINL=9;	
NSCOI:	RCM=RCM-0, CLREFINL=10;	
NSDAC:	DIP=CSN101S, REFGRP=1, PRI= 1, FDL= 50, WDL= 5, ACL= A2;	
NSDAC:	DIP=CSN201S, REFGRP=2, PRI= 2, FDL= 50, WDL= 5, ACL= A2;	
NSDAC:	RCM=RCM-0, REFGRP=3, PRI=3, FDL=50, WDL=5, ACL=A2;	
NSMDC:	SYNCHMODE= SINGLE;	

Sites with one BITS clocks		
COMMAND	PARAMETERS	COMMENTS
NSCOI:	DIP=CSN101S, CLREFINL=8;	
NSCOI:	DIP=CSN102S, CLREFINL=9;	
NSCOI:	RCM=RCM-0, CLREFINL=10;	
NSCOI:	DIP=dip, CLREFINL=11;	
NSDAC:	DIP=CSN101S, REFGRP=1, PRI= 1, FDL= 50, WDL= 5, ACL= A2;	
NSDAC:	DIP=CSN102S, REFGRP=1, PRI= 2, FDL= 50, WDL= 5, ACL= A2;	
NSDAC:	RCM=RCM-0, REFGRP=2, PRI=3, FDL=50, WDL=5, ACL=A2;	
NSDAC:	DIP=dip, REFGRP=3, PRI= 4, FDL= 50, WDL= 5, ACL= A2;	
NSMDC:	SYNCHMODE= SINGLE;	

13.7.2. Network Synchronisation BYB501.

Sites with two BITS clocks		
COMMAND	PARAMETERS	COMMENTS
NSCOI:	DIP=CSN101S, CLREFINL=0;	
NSCOI:	DIP=CSN201S, CLREFINL=2;	
NSCOI:	RCM=RCM-0, CLREFINL=9;	
NSCOI:	RCM=RCM-1, CLREFINL=10;	
NSDAC:	DIP=CSN101S, REFGRP=1, PRI= 1, FDL= 50, WDL= 5, ACL= A2;	

Sites with two BITS clocks		
COMMAND	PARAMETERS	COMMENTS
NSDAC:	DIP=CSN201S, REFGRP=2, PRI= 2, FDL= 50, WDL= 5, ACL= A2;	
NSDAC:	RCM=RCM-0, REFGRP=3, PRI=3, FDL=50, WDL=5, ACL=A2;	
NSDAC:	RCM=RCM-1, REFGRP=3, PRI=4, FDL=50, WDL=5, ACL=A2;	
NSMDC:	SYNCHMODE= SINGLE;	

Sites with one BITS clocks		
COMMAND	PARAMETERS	COMMENTS
NSCOI:	DIP=CSN101S, CLREFINL=0;	
NSCOI:	DIP=CSN102S, CLREFINL=2;	
NSCOI:	RCM=RCM-0, CLREFINL=9;	
NSCOI:	RCM=RCM-1, CLREFINL=10;	
NSCOI:	DIP=dip, CLREFINL=1;	
NSDAC:	DIP=CSN101S, REFGRP=1, PRI= 1, FDL= 50, WDL= 5, ACL= A2;	
NSDAC:	DIP=CSN102S, REFGRP=1, PRI= 2, FDL= 50, WDL= 5, ACL= A2;	
NSDAC:	RCM=RCM-0, REFGRP=2, PRI=3, FDL=50, WDL=5, ACL=A2;	
NSDAC:	RCM=RCM-1, REFGRP=2, PRI=4, FDL=50, WDL=5, ACL=A2;	
NSDAC:	DIP=dip, REFGRP=3, PRI= 5, FDL= 50, WDL= 5, ACL= A2;	
NSMDC:	SYNCHMODE= SINGLE;	

13.7.3. Connection Performance Test Of Group Switch In /A4 & /A2

COMMAND	PARAMETERS	COMMENTS
SNCPE:	ACL=A2,ADL=10,ACV=1;	

13.7.4. GSD Variant.

COMMAND	PARAMETERS	COMMENTS
GSCOI:	See Application Information for a detailed description	

13.7.5. Switching Network Terminal Variant.

COMMAND	PARAMETERS	COMMENTS
NTCOI	See Application Information for a detailed description	

13.7.6. Semipermanent Connection, Break Logging Data.

COMMAND	PARAMETERS	COMMENTS
---------	------------	----------

COMMAND	PARAMETERS	COMMENTS
EXSDC	MIN=0, CONG=10, PRI=10;	

13.8. CCS-7 Supervision Red Book

This information is provide for checking of data only. **Data must not be changed** without consent by Regional CCS7 Coordinator.
For the most up to date information please refer to **XDCN-2007**.

13.8.1. Link Set Supervision

COMMAND	PARAMETERS	COMMENTS
C7SUC:	LS= LinkSet, LVA= 1, ACL= A2, DMI= 5;	Link Set requires minimum of 1 signalling link able to carry traffic or an A2 alarm is raised after 5 minutes.

13.8.2. Destination Supervision

COMMAND	PARAMETERS	COMMENTS
C7RUC:	DEST= Destination Point Number, ACL= A2, DMI= X;	An A2 alarm is raised if CCITT destination inaccessible X= 5 for Quasi Associated Destinations X= 0 for Associated Destinations

13.8.3. Semipermanent Connection Initiate.

COMMAND	PARAMETERS	COMMENTS
EXSCI:	NAME= "Digital Path Name", DEV1= BT7-x, DEV2= C7PCDD-X;	First character of NAME must not be numeric.

13.8.4. Initiate Parameter Group.

COMMAND	PARAMETERS	COMMENTS
C7LPC:	PARMG= 0, T= 64, D= 256;	Default group
C7LPC:	PARMG= 1, T= 128, D= 64;	For Digital Radio.
C7LPC:	PARMG= 2, T= 64, D= 256;	For Optical fibre/Pair Cable/digital over coaxial cable.

13.8.5. CCITT7 Signalling Link Initiate.

COMMAND	PARAMETERS	COMMENTS
C7SLI:	LS= Linkset, SLC= "SLC", ST= "ST", PARMG= X, SDL= "SDL", ACL= A2;	Where X equals 0 for Optical fibre/Pair Cable/digital over coaxial cable. 1 for Digital Radio.

SDL format is DIP-BT7-bt7 where: DIP= DIP Name & bt7 is BT7 Individual number. eg: WIRE01C-BT7-123 This information is provide for checking of data only. **Data must not be changed** without consent by the Inter-regional/Interconnect CCS7 Coordinator, Signalling Section, Network Product Integration Branch.

13.8.6. CCITT7 Event Reporting Specification.

COMMAND	PARAMETERS	COMMENTS
C7ESC:		See XDCN0315 for latest settings

13.8.7. User Part disturbance recording

COMMAND	PARAMETERS	COMMENTS
UPDSI	UPDSI:SP=sp, SI=5, DTYPE=1&&5, THR=10;	

13.8.8. Data For Signalling Interconnect Points

COMMAND	PARAMETERS	COMMENTS
C7VSI:	LS= LinkSet, TYPE= BOTH;	Both originating point, and destination point screening performed. STP policing violation specification based on origin and destination of a message. An A2 is given if any MTP Violations occur.
C7VSC:	LS= LinkSet, ORIG= orig, DEST = dest;	
C7VAC:	LS= LinkSet, TH1= 1, ACL1= A2, TH2= 20, ACL2= A2, VMAX= 50, ACL= A2;	
C7VRI:	LS= LinkSet;	Initiate MTP violation reporting. Initiate MTP violation of Network Management Policing. Activate MTP Policing violation.
C7VMI:	LS= LinkSet;	
C7VAI:	LS= LinkSet;	

13.9. Subscriber Line Supervision

13.9.1. Blocking Supervision on Customer SubGroups

COMMAND	PARAMETERS	COMMENTS
BLUPC	SNB="snb",PXR="pxr",LVB1=1,LVB2="70"%	ETSI PABX: These parameters match the alarm thresholds for PRA PABX subroutes in /18 AXE, although the alarm classes are fixed in /A4 & /29 at A3/A2 level rather than A2/A1 as in /18.
BLUPC	SNB="snb",PXR="pxr",LVB1="70%",LVB2="100"%	BL devices: The blocking supervision is fixed in Software as A3 for LVB1 and A2 for LVB2. This is only used on critical Indials.

13.9.2. Seizure Supervision Subscribers.

COMMAND	PARAMETERS	COMMENTS
SESRI;	SNB="snb", PLD= 1, NCLLS= 1, CTIME=45,DCAT=0;	Public or lease Coin Telephone
SESRI:	SNB= "snb", PLD= 1, NCLLS= 1, CTIME=20,DCAT=0;	High Calling Rate Sub No

13.9.3. Block supervision Subscribers Line Interfaces.

COMMAND	PARAMETERS	COMMENTS
BLULC:	DETY= LI1/LI3/LIRA1/LIBA/LIV5, LIM1="y", LIM2= "z";	y=6%, z = 7% of customer connected LIx's. A3 alarm is generated when the number of LIx's in blocked state exceeds LIM1 , A2 when the number of blocked devices exceeds LIM2.
BLULE:	DETY= BL2 / BL3;	Remove Line blocking supervision.
SLFSE	DETY= LI1 / LI3 / BL2 / BL3 /LIBA ;	Remove Subscriber Lines Fault Marking Supervision.
BLLE:	DETY= LI1 / LI3 / BL2 / BL3 /LIRA1;	Remove LLO alarm , as this will result in a permanent alarm.

13.9.4. Subscriber Line Parameter Limits (K Ohms)

COMMAND	PARAMETERS	COMMENTS
SLPLC:	PAR= IRAU1, LIMV= 50;	Insulation resistance limits for fault-marking at Call Setup and Release . No low between test. This test causes false blocking of customers lines.
SLPLC:	PAR= IRAU2, LIMV= 0;	
SLPLC:	PAR= IRRE1, LIMV= 50;	Insulation resistance limits for fault-marking at retesting of faulty lines.
SLPLC:	PAR= IRRE2, LIMV= 50;	
SLPLC:	PAR= IRUN1, LIMV= 50;	Insulation resistance limits for fault-marking at routine testing of unused lines or SUCT testing.
SLPLC:	PAR= IRUN2, LIMV= 50;	
SLPLC:	PAR= IRFO1, LIMV= 500;	Insulation resistance limits for testing from subscribers premises . Limits which define acceptable lines.
SLPLC:	PAR= IRFO2, LIMV= 500;	
SLPLC:	PAR= IRFF1, LIMV= 50;	Insulation resistance limits for testing from subscribers premises. Limits which define incipient lines (bad) Command controlled tests Insulation resistance limits A to B Command controlled tests Insulation resistance limits A to B S interface Command controlled tests Insulation resistance limits to earth Command controlled tests Insulation resistance limits to earth S interface Command controlled tests negative DC voltage Command controlled tests positive DC voltage Command controlled tests AC voltage Command controlled tests NT DC signature resistance high voltage Command controlled tests NT DC signature resistance low voltage Command controlled tests NT DC signature high voltage value. Command controlled tests NT DC signature low voltage value Command controlled tests Capacitance per KM A to B Command controlled tests Capacitance per KM A or B to earth Bit fault rate.
SLPLC:	PAR= IRFF2, LIMV= 50;	
SLPLC:	PAR=IRLAB,LIMV=200;	
SLPLC:	PAR=IRLABS,LIMV=200;	
SLPLC:	PAR=IRLAE,LIMV=200;	
SLPLC:	PAR=IRLAES,LIMV=200;	
SLPLC:	PAR=FVAENDC,LIMV=20;	
SLPLC:	PAR=FVAEPDC,LIMV=20;	
SLPLC:	PAR=FVAEAC,LIMV=30;	
SLPLC:	PAR=RHVU,LIMV=300;	
SLPLC:	PAR=RLVU,LIMV=800;	
SLPLC:	PAR=DCVHU,LIMV=85;	
SLPLC:	PAR=DCVLU,LIMV=10;	
SLPLC:	PAR=CABKM,LIMV=45;	
SLPLC:	PAR=CAGKM,LIMV=73;	
SLPLC:	PAR=BCH1,LIMV=1;	
SLPLC:	PAR=FVNREP,LIMV=20;	Foreign Voltage limits for testing from subscribers premises. Limits which define incipient lines (bad)
SLPLC:	PAR=FVPREP,LIMV=20;	

COMMAND	PARAMETERS	COMMENTS
SLPLC	PAR=FVACREP,LIMV=30;	
SLPLC	PAR=IRFB,LIMV=20;	Insulation resistance limits for fault-blocking at Call Setup and Release .
SLFBE:	TESTER = ALL;	Disable blocking of customer lines due to low insulation. This function was disabled Sep 2002 as a 6 sigma initiative called Fault Block Process.

NOTE: Automatic blocking of lines occurs at 20K OHMS between or to Ground / 48 volts, this is not changeable and is defined in software in function block SULTR for SLCT type 1 and 2. Mass Signalling fault, AJ Fuse, and Foreign Battery will always block the customers line.

13.9.5. Subscriber Line Test Results And Indications

COMMAND	PARAMETERS	COMMENTS
SLTTC:	TER= 0 , TONE= NUTON;	Received Subscribers Number is unallocated
SLTTC:	TER= 1 , TONE= RRGBTON;	Subscribers line type not unique, physical
SLTTC:	TER= 2 , TONE= RRGBTON;	Access and Facility on bits set. Category value > 0
SLTTC:	TER= 3 , TONE= BUSYTON, POR;	Subscribers line busy
SLTTC:	TER= 4 , TONE= RRGBTON;	Subscribers line lockout or Blocked
SLTTC:	TER= 5 , TONE= CONGTON;	SULT Individual not available
SLTTC:	TER= 6 , TONE= CONGTON;	Test path to subscribers line is congested
SLTTC:	TER= 7 , TONE= RRGBTON;	Subscribers line not tested - line manually blocked - line in state line lockout Subscribers line tested - line fault blocked - line fault marked
SLTTC:	TER= 8 , TONE= RRGTON;	Subscribers line accepted

13.9.6. Subscriber Line Routine Test and Periodic Retest.

COMMAND	PARAMETERS	COMMENTS
SLASC:	TDMI1=120,TDMI2=10,IFL=5,TPIF=2,TIME=0000,DATE="tomorrow";	Time to re-test Subscribers that are fault marked is 120 mins, Blocked is 10 min.
SLRTI:	DETY= LI1\LI3\LIBA3, TIME= 0500, DATE= "tomorrow", TDD= 03;	

13.9.7. Subscriber Data Functions Line Data

COMMAND	PARAMETERS	COMMENTS
SULGI:	see XDCN 322	Assign a compromise (default) linetype to an EMG
SULGI:	see XDCN 322	Assign a compromise (default) linetype to an EMG

14. EXPOP DATA

The aim of EXPOP's is to give the position of any hardware device in the node or RSS. Positions on software individuals are not to be included such as UPDN2. Positions for such individuals are to be given on the SNT.

Other uses of EXPOP's are tracking and date stamping data changes such as XDCN's DCN's XTCN's, etc. These are loaded under the EQ parameter.

Note: Text fields in the POS parameter (Building, Row & External desc) have a maximum capacity of 255 different texts. To not exceed this limit it's important that the exact same text is use repeatedly in each of these fields. The tables below are designed to minimise usage of these fields.

14.1. EXPOP Data for BYB102 (P83)

EXPOP's for BYB102 (P83)		
Command	Position	Comments
EXPOI:RP=rp,	POS=Incdnode-row-section-shelf&MAGPOS-mp;	RP
EXPOI:RP=rp,EM=em,	POS=Incdnode-row-section-shelf&MAGPOS-mp;	RP/EM
EXPOI:DEV=dev;	POS=Incdnode-row-section-shelf;	Devices. Not GSD connected
EXPOI:DEV=devgsd,	POS=Incdnode-row-section-shelf;	Devices. GSD connected
EXPOI:TSM=tsm,	POS=Incdnode-row-section-shelf&MAGPOS-mp&RP_rp-EM_em;	TSM
EXPOI:SPM=spm,	POS=Incdnode-row-section-shelf&MAGPOS-mp;	SPM
EXPOI:CLM=clm,	POS=Incdnode-row-section-shelf&RP_rp-EM_em;	CLM
EXPOI:SNT=sntgsd,	POS=Incdnode-row-section-shelf&MAGPOS-mp;	SNT. GSD connected
EXPOI:EMG=emg,MAG=STR-a/b,	POS=Incdrss-row-section-shelf&MAGPOS-mp;	STR
EXPOI:DEV=devrss,	POS=Incdrss-row-section-shelf;	EMG line interface devices
EXPOI:EMG=emg,EM=em,	POS=Incdrss-row-section-shelf&MAGPOS-mp;	EMG EM
EXPOI:EQ=JOB-0,	POS=Incdrss-row-section-shelf;	RTU
EXPOI:EQ=text-number,	POS=yyyy-mmm-dd-A&yyyy-mmm-dd-A&ISS-nn;	Format for miscellaneous data. Second date and iss are optional
EXPOI:EQ=XDCN-number,	POS=GR/FR-iss-n-a;	XDCN
EXPOI:EMG=Incdrss,MAG=FL	POS=FLOOR_xx;	Where xx = GD, 1, 2....15 etc
OOOR-A,		As seen in MITS See note 1

Description of parameters BYB201 (P83)		
Parameter	Description	Device types
lncdnode	Four letter node code. Eg. EXHG	
lncdrss	Five letter RSS code as seen in EXEGP print. Eg EXHGA or EXHG1	
row	Row or suite number. Eg. 213	
section	Section or cabinet number in range 0 to 255. Eg 12	
shelf	Shelf. Possible letters are A B C D E F G H J	
mp	Magazine position on shelf. Must be two digits. Eg 01 or 13	
bp	Board position in magazine. Must be three digits. Eg 038 or 126	
RP_rp-EM_em	RP and EM number. rp must be three digits. em must be two digits. Eg RP_021-EM_02	
dev	Devices not GSD connected or associated with an EMG	SEPRM1
devgsd	Device connected to GSD that require there own magazine.	CR CS KR CSARK2
devrss	Hardware line interfaces connected via an RSS.	LI3 SEUBF
sntgsd	SNT's connected to GSD	SNTPCD32 SNTPCDD SNTETBT6 SNTETBT3 SNTETBT7 SNTETBL2 MJDSNT JTM SNTETRT UPETN2 SNTETBTARK6

14.2. EXPOP Data for BYB202

EXPOP's for BYB202 (P86, P90)		
Command	Position	Comments
EXPOI:RP=rp,	POS=lncdnode-row-section-shelf&MAGPOS-mp; POS=lncdnode-row-section-shelf&MAGPOS-mp&BOARDPOS-bp;	RP. If RP occupies whole mag RP. If multiple RP's exist in one mag Note: For boardpos use position of the RP bus A card.
EXPOI:RP=rp,EM=em,	POS=lncdnode-row-section-shelf&MAGPOS-mp; POS=lncdnode-row-section-shelf&MAGPOS-mp&BOARDPOS-bp;	RP/EM. If EM occupies the whole magazine. If multiple EM's exist in one mag. Note: Software EM's are not to be EXPOled. These are RP types STC1A RPBC1A STC2C RPD1A RPG1A
EXPOI:TSM=tsm, EXPOI:SPM=spm, EXPOI:CLM=clm, EXPOI:SNT=sntgsd,	POS=lncdnode-row-section-shelf&MAGPOS-mp&RP_rp-EM_em; POS=lncdnode-row-section-shelf&MAGPOS-mp; POS=lncdnode-row-section-shelf&RP_rp-EM_em;	TSM SPM CLM SNT. GSD connected.

Description of parameters BYB202 (P86, P90)		
Parameter	Description	Device types
sntgsd	SNT's connected to GSD	SNTPCD32 SNTPCDD ET63 ET73 ETBL3 ASDS CCDSNT CSFSK CSKD FHCT JTM ETRT2 ETRT3 STPRAE STV5 UPETN3 STV5G ETV5G
sntrss	SNT's connected to RSS	ETGAM ETV5 ETSA

14.3. EXPOP Data for BYB501

EXPOP's for BYB501		
Command	Position	Comments
EXPOI:RP=rp, EXPOI:RP=rp,EM=em, EXPOI:TSM=tsm,	POS=Incdnode-row-section-vert-horzshelf-horzmag; POS=Incdnode-row-section-vert-horzshelf-horzmag; POS=Incdnode-row-section-vert-horzshelf-horzmag &RP_rp-EM_em;	RP RP/EM TSM
EXPOI:SPM=spm, EXPOI:CLM=clm,	POS=Incdnode-row-section-vert-horzshelf-horzmag; POS=Incdnode-row-section-vert-horzshelf-horzmag &RP_rp-EM_em;	SPM CLM
EXPOI:SNT=sntgsd, EXPOI:SNT=CSLSNT,	POS=Incdnode-row-section-vert-horzshelf-horzmag POS=Incdnode-row-section-vert-horzshelf-horzmag &RP_rp-EM_em;	SNT. GSD connected SNT. GSD connected. RSS control signalling terminal.
EXPOI:MAG=CPUM-a/b, EXPOI:MAG=MAU-B,	POS=Incdnode-row-section-vert-horzshelf-horzmag; POS=Incdnode-row-section-vert-horzshelf-horzmag;	MAG CPG. For horzmag use IPU pos MAG CPG. For horzmag use MAU pos
EXPOI:MAG=RPHM-A/B,	POS=Incdnode-row-section-vert-horzshelf-horzmag;	MAG CPG. For horzmag use RPIO pos
EXPOI:MAG=SPVCM-A/B.	POS=Incdnode-row-section-vert-horzshelf-horzmag;	MAG IOG. For horzmag use CPU-60 pos
EXPOI:DEV=devrss, EXPOI:EMG=emg,EM=em,	POS=Incdrss-row-section-shelf; POS=Incdrss-row-section-shelf;	EMG line interface devices EMG EM
EXPOI:EQ=text-number,	POS=yyyy-mmm-dd-A&yyyy-mmm-dd-A&ISS-nn;	Format for miscellaneous data.
EXPOI:EQ=XDCN-number, EXPOI:MAG=FLOOR-A,	POS=GR/FR-iss-n-a; POS=FLOOR_xx;	Second data and iss are optional XDCN Where xx = GD, 1, 2....15 etc As seen in MITS See note 1

Description of parameters BYB501		
Parameter	Description	Device types
lncdnode	Four letter node code. Eg. EXHG	ET63 ET73 ETBL3 C7SNT CCDSNT CSFSK CSKD FHCT ETRT3 ETRT2 STPRAE STV5 UPETN3 UPDDIF STV5G ETV5G CSRR2 KRD ASDS3 OMSSNT
lncdrss	Five letter RSS code as seen in EXEGP print. Eg EXHGA or EXHG1	
row	Row or suite number. Eg. 213	
section	Section or Cabinet number in range 0 to 255. Eg 12	
shelf	Shelf. Possible letters are A B C D E F G H J	
vert	Vertical. In units of 25mm strating at the bottom of the cabinet	
horzshelf	Horizontal start position of magazine. Note: First mag starts at 3	
horzmag	Horizontal start position within magazine	
bp	Board position in magazine. Must be three digits. Eg 038 or 126	
RP_rp-EM_em	RP and EM number. rp must be three digits. em must be two digits. Eg RP_021-EM_02	
sntgsd	SNT's connected to GSD	

Note 1. The EXPOI for "FLOOR" and "DCN" is to be loaded by GOC as this infomation may not be available during the data build process. The purpose of adding this is for sites where the suite number does not match the floor. Eg MELQ occupies suites 1210 to 1243 but is on floor 11.

14.4. Responsibilities

15. SERVICE AGREEMENTS

16. MEASURES

17. REFERENCES

Document Number	Title
008713a01	Network Services Standard Definitions
008713f01	Suggestion for Improvement to Standard Procedures Form
XDCN 269	Standard Procedure 001 157 - O&M Command Parameters
XDCN 334	Standard Procedure 001 157 - PRCA Routing
TP 01086	AXE Outage Recovery – APZ 212 10/110
TP 01684	AXE Outage Recovery – APZ 212 11/101
001157A03	AXE - ISDN Alarms And Alarm Parameter Settings.

18. DEFINITIONS

Terms, abbreviations & acronyms used in the document are included in this section. To encourage single definitions a combined Network Services definitions document [008713a01](#) exists and is available on the Network Services Document Support WEB site.

Term	Definition
------	------------

19. ATTACHMENTS

Document Number	Title
-----------------	-------

DOCUMENT CONTROL SHEET

The latest authorised version of this document can be found on the Telstra Intranet at <http://www.in.telstra.com.au/ism/networkoperationsdocumentsupport/index.asp>
The Network Services Document Controller and the Network Services Process Improvement Coordinator can both be contacted at:

Branch Process Effectiveness
Email ! GOC Process&Doc Feedback
WEB Site <http://www.in.telstra.com.au/ism/networkoperationsdocumentsupport/index.asp>
Phone 03 8549 0626

Contact for Enquiries and Proposed Changes

If you have any questions regarding this document contact:

Name: Peter J Wilson

Designation: SME

Phone: 1300 697 371

Fax:

If you have a suggestion for improving this document, complete and forward a copy of *Suggestions for Improvements to Documentation* (Form [008713f01](#)).

Record of Issues

Issue No	Issue Date	Nature of Amendment
1	1 May 1992	Not Issued
2	2 February 1993	Inclusion of /36 Application System
3	3 July 1993	Inclusion of /66 Application System
4	15 March 1995	Changes for O&M Restructure and /66 Package 3
5	30 August 1996	Change of document number to 001157A01 & inclusion of /29 and Transgate Application Systems
6	4 September 1997	Updated for conversion to Intranet
7	30 June 1998	Inclusion of /A4 Application Systems

8	11 June 2000	Removal of references to /36 & /29. Inclusion of changes for NC99 & /A2. New section on EXPOP data. Inclusion of BYB501 mechanics.
9	5 February 2001	Major changes to Digital Path Transmission Supervision. Changes also to Printout Routing ,Network Synch and Audit Function..
10	17 May 2001	Digital path data for BYB501. EXPOP changes. New format for IOG allocations
11	10 Oct 2002	Introduction of NEM
12	17 March 2003	Deployment of second high speed link for NEM. Major re-write

This publication has been prepared and written by Telstra Corporation Limited (ABN 33 051 775 556), and is copyright. Other than for the purposes of and subject to the conditions prescribed under the Copyright Act, no part of it may in any form or by any means (electronic, mechanical, microcopying, photocopying, recording or otherwise) be reproduced, stored in a retrieval system or transmitted without prior written permission from the document controller. Product or company names are trademarks or registered trademarks of their respective holders.

Note for non-Telstra readers: The contents of this publication are subject to change without notice. All efforts have been made to ensure the accuracy of this publication. Notwithstanding, Telstra Corporation Limited does not assume responsibility for any errors nor for any consequences arising from any errors in this publication.