Product Support Note

PSN 261 – December 2006

Meridian & Succession Switches Configuration

Contents

1 Introduction

This document has been updated in line with the recently introduced naming convention and is intended to serve as a guide to BT people who may be involved with the planning, configuration, installation or maintenance of Meridian systems. It is designed to cover those configuration parameters that are frequently misunderstood and often set incorrectly. This Product Bulletin information is taken from the current NTPs and is a convenient guide only these settings may be superseded by later NTP documentation. All planners and engineers should be familiar with NTPs and have access to them. Failure to make the recommended changes will affect service and may result in an excess of alarm messages.

NB. Remember it is possible to set Buffers and Call Registers too high as well as too low. If call registers are set too high, applications such as CCR can slow down, or even stop completely. If set too low, delayed dial tone or system freeze can be experienced. If changes are made to buffers or call registers, the system will need to be initialised to make these changes effective. After the initialise, recheck the memory available figures (udata & pdata) to ensure sufficient memory is still available. If the figures are very low, that is less than 2000, contact the Meridian STC for advice.

If you have any queries about this document, please contact Meridian STC National Technical Support on Tel: 0800 622396, Fax: 0121 633 8988.

2 Product Overview

The following provides the configuration parameters required for: -

Old Name	New Name	With Signalling Server connected
Option 11C	Option 11C Cabinet	CS1000M Cabinet
Option 11C Mini	Option 11C Chassis	CS1000M Chassis
Option 51C	Meridian 1 51C	CS1000M HG (Half Group)
Option 61C	Meridian 1 61C	CS1000M SG (Single Group)
Option 81C	Meridian 1 81C	CS1000M Multi Group
CSE1K		CS1000S
SBO		MG1000B
CS1000E		CS1000E
SIP Gateway		MG1000T

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Useful Documents to supplement Product Bulletin
- All Planning and Engineering NTP's
- NTP System Security Management 553-3001-307_2.00
- All Technical Bulletins (Newsflashes & Product documents)
- Matrix Deplist User Guide
- AIS Test Plan Document

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2.1 Option 11C Cabinet & Chassis, CS1000M Cabinet, CS1000M Chassis, CS1000S, MG1000E, MG1000B and MG1000T

2.1.1 PARM and OVLY (Overlay 17).

LPIB	150	Release 24 for Option 11C Cabinet and Option 11C Chassis
	450	Release 25 [2] Release 4 and 4.53 [3] CS1000M Cabinet & Chassis, CS1000S, MG1000B & MG1000T
HPIB	150	Release 24 for Option 11C Cabinet and Option 11C Chassis[1]
	450	Release 25 [2] Release 3, 4 and 4.5 [3] CS1000M Cabinet & Chassis, CS1000S, MG1000B,MG1000E & MG1000T

[1]   Source – Capacity Engineering 553-3001-149 release 24
[2]   Source – Capacity Engineering 553-3001-149 release 25.40
[3]   Source – Planning & Engineering 553-3041-120 release 4.00
      553-3041-120 release 4.50 Succession Enterprise release 3.00 GRB 2003_368

500B	100	N/A (set by system to 500 and values entered here are ignored)
SLIB	16	This is the lowest value possible. It is not used by UK systems.
DTIB	70	Use this value regardless of the number of links.
DTOB	70	Use this value regardless of the number of links.
PCDR	NO	
CY45	01	
BKGD	44	
DROL	30 43 44 60*	

Overlay 60 should only be included if Q931 or QSIG or EURO ISDN or CHAS are equipped.
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2.1.2 Minimum Recommended Call Registers

NCR	1000	Release 23 S/W
	1750	Release 24 S/W [1]
	1750	Release 25 S/W [2]
	800	Release 3/4/4.5 MG1000B [3]
	1750	Release 3/4/4.5 CS1000M Cabinet/Chassis [4]
	1750	Release 3/4/4.5, CS1000S [5]
	2047	MG1000T see Nortel recommendations note below

[1]   *Source – Capacity Engineering 553-3001-149 release 24*
[2]   *Source – GRB release 25.40B*
[3]   *Source – Branch Office Inst & Config NTP 553-3001-214 Rlse 4*
[4]   *Source – CS1000M & Meridian 1 Small System Planning & Engineering NTP 553-3011-120 Rls 4*
[5]   *Source – CS1000M & Meridian 1 Large System Planning & Engineering NTP 553-3021-120 Rls 4.5*

NORTEL RECOMMENDATIONS FOR MG1000T
These are NEW and will differ from the NTP's after Nortel investigations
See Product Bulletin - Bulletin Number: P-2006-0262-Global
   CALL REGISTERS
   - Maximum Call Registers should be set on MG1000T which is 2047.
   - 30% of system Call Registers should be reserved for overhead requirements.
   - Recommend CDR be turned off on 1000T systems when not required. CDR uses additional Call Registers. CDR turned on in the 1000E does not impact 1000T system.

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 or 2525 to localize if available (PDT) commands can be used)

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	255	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095
CSQO	255	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095

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2.1.3 Intu (overlay 97)
INTU NO
NB. Most customers prefer to have no conference warn tone (NO). However, if INTU is set to YES, warn tone may result in corruption of coincident MF4 tones.

Hardware compatibility
The following table shows Option 11C and CS software daughterboards & the software releases that they are compatible with. New orders will receive the new NTTK25BA software daughterboard.
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Software Daughterboard	Loaded with S/W Release	Capacity	Compatible with S/W
NTSK04AC	22-46	32 Meg	22-46
NTSK04AG	23-47	32 Meg	23-47
NTSK04AK	24-25	40 Meg	24-25
NTDK21AA	Blank	32 Meg	Rlse 22.08D – 23.47
NTDK81AA	Blank	40 Meg	Rlse 23.47 – 24.25
NTTK13AA	Blank	48 Meg	Rlse 24.25 – 25.XX and Succession 3[1]
NTTK25AA	Blank	48 Meg	25.XX and Succession 3[1]
NTTK25BA	Blank	48 Meg	Release 4.00 / 4.50

[1] *NTTK13AA and NTTK25AA will work fine right up to and including 4.5W as long as the DRAM on the CPU is changed for a 32Mb.*

System	Minimum SSC/MSC	Compatible with S/W
11C/Cabinet	NTDK20CA	Rlse 24.25 with 4 –5 cabinets – 25.XX and Succession 3
	NTDK20EA	Main cabinet when using IP Expansion and …
	NTDK20CA	For each IP Expansion cabinet
Chassis	NTDK97AB	
	NTDK20EA	Main and IP Expansion chassis when using IP Expansion
Succession 1000	NTDK20EA	Call Server and Media Gateway
Succession Branch Office	NTDK20FA	
MG1000T 1000E MG1000B CS1000S	NTDK20HA	Minimum vintages for the Small System Controller are - IP Expansion or CS 1000 Systems - Main Cabinet: NTDK20EA-GA SSC + NTDK19BA SSC Memory Upgrade Kit (32Mb) - Each Expansion cabinet: NTDK20AB-GA SSC + NTDK19BA SSC Memory Upgrade Kit (32Mb) - NTDK20HA - Media Gateway 1000E in CS 1000E systems - NTDK20GA SSC + NTDK19BA SSC Memory Upgrade Kit (32Mb) - NTDK20HA

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An existing Option 11C system equipped with a controller card NTDK20AB can be upgraded to an NTDK20CA with a field upgrade kit NTDK19AA. As of July 1999, all controller cards shipped to the field have been a minimum of NTDK20DA, which is compatible with Release 25 and Succession 3.

A system upgrading to Release 25 or Succession 3 must replace its NTDK21 (32 MB) or NTDK81 (40 MB) based software daughterboard, with an NTTK13AA (48 MB) or NTTK25AA daughterboard. Please ensure that you have upgraded the bootcode on the SSC prior to upgrading the software daughterboard. To verify the size of the software daughterboard and for installation instructions, refer to NTP upgrade manual Chapter 9.

The Succession Branch Office Call Server requires a 48MB Total Memory (32 MB Program Store and 16 MB C Drive space) in order to run Succession 3.0 Software.

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2.2 Meridian 1 51C and CS1000M Half Group

2.2.1 PARM and OVLY (Overlay 17)

< X11 24	HPIB	LPIB	500B	SL1B
CP1	64	192	500	40
CP2	64	192	500	40
CP3/4	64	192	500	40

X11 24 [1]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	1850	1850	800	255
CP3/4	1850	1850	800	255

X11 25 [2]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	2200	2200	800	255
CP3/4	2200	2200	800	255

X21 3.00 [3]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	N/A	N/A	N/A	N/A
CP3/4	3500	3500	800	N/A

X21 4.00 [4]	HPIB	LPIB	500B	SL1B
CP3/4	1850	1850	2000	N/A

X21 4.50 [5]	HPIB	LPIB	500B	SL1B
CP3/4	1850	1850	2000	N/A

[1]   *Source – Capacity Engineering 553-3001-149 release 24*
[2]   *Source – Capacity Engineering 553-3001-149 release 25.40*
[3]   *Source – Succession Enterprise release 3.00 GRB 2003_368*
[4]   *Source – CS1000E & CS1000S Planning & Engineering NTPs*
      553-3041-120 & 553-3031-120 Rlse 4
[5]   *Source- CS1000M & Meridian 1 Large System Planning & Engineering NTP*
      553-3021-120 Rls 4.5

NDIS	20		
DTIB	70		
DTOB	70		1 to 4 DPNSS/DASS links
	100		5 or more DPNSS/DASS links
PCDR	NO		
CY45	01		
BKGD	44		
DROL	30 43 44 45 60[1] 135 137		

[1] *Overlay 60 should only be included if Q931 or QSIG or EURO ISDN or CHAS are equipped.*

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2.2.2 Call Registers (NCR)

Release 23 S/W	CP1	1000
Release 23 S/W	CP2	1500
Release 23 S/W	CP3	2000
Release 23 S/W	CP4	2000
Release 24 S/W [1]	CP2	1500
Release 24 S/W [1]	CP3	2000
Release 24 S/W [1]	CP4	2000
Release 25 S/W [2]	CP2	1500
Release 25 S/W [2]	CP3	2000
Release 25 S/W [2]	CP4	2000
Succession Release 3 [3]	CP3/4	2000
Release 4/4.5 [4]	CP3/4	2000

CP1 - NT6D66, CP2 - NT9D19, CP3 - NT5D10, CP4 - NT5D03, CP PII - NT4N64

[1] *Source – Capacity Engineering 553-3001-149 release 24*
[2] *Source – GRB release 25.40*
[3] *Source – Large System Planning and Engineering 553-3021-120*
[4] *Source – CS1000E & CS1000S Planning & Engineering NTPs 553-3041-120 & 553-3031-120 Rlse 4*
[4] *Source- CS1000M & Meridian 1 Large System Planning & Engineering NTP 553-3021-120 Rls 4.5*

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 to localise.

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	255*	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095
CSQO	255*	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095

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2.2.3 Succession 3 and CS1000 Memory requirements

Succession 3 requires 64 Flash memory and 64 DRAM - 128 Total

	Flash	DRAM	Total
CP3/4	64	64	128

RELEASE 4.00T and RELEASE 4.50W Memory Requirements

System	Flash	DRAM	Total
With 68060 (CP3) or 68060E (CP4) processors*			
CS 1000M SG/PBX 51C/61C	64MB	64MB	128MB

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2.3 Meridian 1 61C and CS1000M Single Group

2.3.1 PARM and OVLY (Overlay 17)

< X11 24	HPIB	LPIB	500B	SL1B
CP1	192	64	500	40
CP2	192	64	500	40
CP3/4	192	64	500	40

X11 24 [1]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	1850	1850	800	255
CP3/4	1850	1850	800	255

X11 25 [2]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	N/A	N/A	N/A	N/A
CP3/4	2200	2200	800	255

X21 3/4/4.5 [3][4]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	N/A	N/A	N/A	N/A
CP3/4	3500	3500	800 [5]	255
CP PII/IV	3500	3500	2000 [5]	N/A

CP1 - NT6D66, CP2 - NT9D19, CP3 - NT5D10, CP4 - NT5D03, CP PII - NT4N64, CP PIV- NT4N39

[1]   *Source – Capacity Engineering 553-3001-149 release 24*
[2]   *Source – Capacity Engineering 553-3001-149 release 25.40*
[3]   *Source – Succession Enterprise release 3.00 GRB 2003_368*
[4]   *Source – CS1000E & CS1000S Planning & Engineering NTPs*
      553-3041-120 & 553-3031-120 Rlse 4
[4]   *Source- CS1000M & Meridian 1 Large System Planning & Engineering NTP*
      553-3021-120 Rls 4.5
[5]   *Source – Large System Planning and Engineering*

NDIS	20		
DTIB	70		
DTOB	70		1 to 4 DPNSS/DASS links
	100		5 or more DPNSS/DASS links
PCDR	No		
CY45	01		
BKGD	44		
DROL	30 43 44 45 60[1] 135[2] 137		
AML	T1	4	
	T2	10	
	T3	8	
	N1	5	
	N2	128	
	K	7	

1 *Overlay 60 should only be included if Q931 or QSIG or EURO ISDN or CHAS are equipped.*

2 *If Ovly 135 is set ensure prompt MID_SCPU=NO on CP PII/CP IV m/c's*

2.3.2 Call Registers (NCR)

Release 23 S/W	CP1	2000
Release 23 S/W	CP2	3000
Release 23 S/W	CP3 / CP4	4000
Release 24 S/W [1]	CP2	3000
Release 24 S/W [1]	CP3 / CP4	4000
Release 25 S/W [2]	CP3 / CP4	4000
Succession rlse 3 [3]	CP3 / CP4	4000
Succession rlse 3 [3]	CP PII	20000
Release 4/ 4.5 [4]	CP3/ CP4	4000
Release 4/ 4.5	CP PII / CP PIV	20000

CP1 - NT6D66, CP2 - NT9D19, CP3 - NT5D10, CP4 - NT5D03, CP PII - NT4N64, CP PIV- NT4N39

[1] *Source – Capacity Engineering 553-3001-149 release 24*

[2] *Source – GRB release 25.40*

[3] *Source – Large System Planning and Engineering 553-3021-120*

[4] *Source – CS1000E & CS1000S Planning & Engineering NTPs 553-3041-120 & 553-3031-120 Rlse 4*

[4] *Source- CS1000M & Meridian 1 Large System Planning & Engineering NTP 553-3021-120 Rls 4.5*

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 or the later patch 2525 to localise if available (pdt> commands can also be used).

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	255*	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095
CSQO	255*	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095

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2.3.3 Memory requirements

2.3.3.1 Succession 3 and CS1000

	Flash	DRAM	Total
CP3/4	64	64	128
CP PII		256 DIMM	256

2.3.3.2 RELEASE 4.00T and RELEASE 4.50W Memory Requirements

System	Flash	Dram	Total
With 68060 (CP3) or 68060E (CP4) processors*			
CS 1000M SG/PBX 51C/61C	64MB	64MB	128MB
With Pentium CP PII processors			
CS 1000M SG/PBX 61C CP PII N/A 256 MB 256 MB	N/A	256MB	256MB
With Pentium CP PIV processors			
CS 1000M SG/PBX 61C CP PIV	N/A	256MB	256MB

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2.3.4 Xct (overlay 17)
It is essential that the XCT is not located in loop 0. (XCT 000 in Overlay 17) If it has been configured in this loop, then it must be moved to another loop. Failure to comply may result in spurious initialises, delays to dial tone and other service affecting symptoms.

If at all possible, ENETs should not be located in loop 0 either. However, do not change existing systems unless service difficulties are experienced with loop 0.
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2.4 Meridian 1 81C and CS1000M Multi Group and CS1000E

2.4.1 PARM and OVLY (Overlay 17).

< X11 24	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	64×(Number of groups)	300	1000	40
CP3/4	64×(Number of groups)	300	1000	40

X11 24 [1]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	1850	1850	800	255
CP3/4	1850	1850	800	255

X11 25 [2]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	N/A	N/A	N/A	N/A
CP3/4	2200	2200	800	255
CP4 6 – 8 groups	3300	3300	800	255
CP PII	2200	2200	800	255
CP PII 6 – 8 groups	3500	3500	800	255

X21 3.00 [3]	HPIB	LPIB	500B	SL1B
CP1	N/A	N/A	N/A	N/A
CP2	N/A	N/A	N/A	N/A
CP3/4	3500	3500	800 [5]	255
CP PII 1 – 8 groups	3500	3500	2000 [5]	255

X21 4/4.5 [4]	HPIB	LPIB	500B	SL1B
CP3/4	3500	3500	2000	N/A
CP PII	3500	3500	2000	N/A
CP PIV	3500	3500	2000	N/A

[1] *Source – Capacity Engineering 553-3001-149 release 24*
[2] *Source – Capacity Engineering 553-3001-149 release 25.40*
[3] *Source – Succession Enterprise release 3.00 GRB 2003_368*
[4] *Source – CS1000E & CS1000S Planning & Engineering NTPs 553-3041-120 & 553-3031-120 Rlse 4, CS1000M & Meridian 1 Large System Planning & Engineering NTP 553-3021-120 Rls 4.5*
[5] *Source – Large System Planning and Engineering*

NDIS	20	
DTIB	70	
DTOB	70 100	1 to 4 DPNSS/DASS links 5 or more DPNSS/DASS links
PCDR	NO	
CY45	01	
BKGD	44	
DROL	30 43 44 45 60[1] 135[2] 137	

[1]   *Overlay 60 should only be included if Q931/QSIG/EURO ISDN/ CHAS equipped.*
[2]   *If Ovly 135 is set ensure prompt MID_SCPU=NO on CP PII/CP IV m/c's*

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2.4.2 Call Registers (NCR)

Release 23 S/W	CP2	7500
Release 23 S/W	CP3 / CP4	10000
Release 24 S/W	CP2	7500
Release 24 S/W	CP3 / CP4	10000
Release 25 S/W	CP2	7500
Release 25 S/W	CP3 / CP4	10000
Release 25 S/W with 1-5 groups	CP PII	20000
Release 25 S/W with 5-8 groups	CP PII	25000
Succession 3 S/W with 1-5 groups	CP PII	20000
Succession 3 S/W with 6-8 groups	CP PII	25000
Meridian 1 81C CS1000M MG 1-5 groups	CP3/CP4	10000
Meridian 1 81C CS1000M MG 1-5 groups CS1000E	CP PII/CP PIV	20000
Meridian 1 81C CS1000M MG 6-8 groups CS1000E	CP PII/CP PIV	25000

 CP1 - NT6D66, CP2 - NT9D19, CP3 - NT5D10, CP4 - NT5D03, CP PII - NT4N64,CP PIV- NT4N39

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 or the later patch 2525 to localise if available (pdt> commands can also be used).

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	255	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095
CSQO	255	At Release 4 and ABOVE this Total can be up to 25% of total call registers up to a max of 4095

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2.4.3 XCT (overlay 17)

It is essential that the XCT is not located in loop 0. (XCT 000 in Overlay 17) If it has been configured in this loop, then it must be moved to another loop. Failure to comply may result in spurious initialises, delays to dial tone and other service affecting symptoms.

If at all possible, ENETs should not be located in loop 0 either. However, do not change existing systems unless service difficulties are experienced with loop 0.

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2.5 RELEASE 4.00T and RELEASE 4.50W Memory Requirements

System	Flash	DRAM	Total
With 68060 (CP3) or 68060E (CP4) processors*			
CS 1000M MG/PBX 81/81C (with or without Fibre Network Fabric)	64MB	96MB	160MB
With Pentium CP PII processors			
CS 1000M SG/PBX 61C CP PII N/A 256 MB 256 MB	N/A	256MB	256MB
CS 1000M MG/PBX 81/81C CP PII (with or without Fibre Network Fabric)	N/A	256MB	256MB
With Pentium CP PIV processors			
CS 1000M SG/PBX 61C CP PIV	N/A	256MB	256MB
CS 1000M MG/PBX 81C CP PIV	n/A	256MB	256MB

CS1000E Release 4.50W

Processor	FLASH	DRAM	TOTAL
Core Call Server (CP PII)	N/A	256MB	256MB
Core Call Server (CPPIV)	N/A	512MB	512MB
MG 1000E (SSC)	48MB	32MB	80MB
MG 1000T (SSC)	48MB	32MB	80MB

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2.6 Legacy Systems

2.6.1 Option 11 and 11E
2.6.1.1 PARM and OVLY (Overlay 17)

LPIB	96	
HPIB	32	16 for pre 16.91 software.
500B	---	Set to lowest value (ignored by system).
SLIB	16	This is the lowest value possible. It is not used by UK systems.
DTIB	0	Not required for Option 11, but once set, it cannot be restored to zero, in which case set it to 35. If set to high values, it will use up a large amount of memory and memory is often at a premium on Option 11s.
DTOB	35	Use this value regardless of the number of links.
PCDR	NO	
BKGD	44	
DROL	30 43 44 60[1]	

[1]   Overlay 60 should only be included if Q931 or CHAS are equipped.

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2.6.1.2 Call registers.
The number configured will depend on several variables. Use the following tables as a guide but never reduce existing values without first consulting MOC Technical Support.

Systems without ACD

Number of :	40 Extns.	80 Extns.	160 Extns.	208 Extns.
8 Trunks	40	-	-	-
16 Trunks	-	56	-	-
32 Trunks	-	-	88	-
40 Trunks	-	-	-	106

Systems with ACD

Number of ACD agents	10	20	40	40	80
Number of ordinary extensions	40	80	40	80	80
Number of ACD Trunks	6	12	0	8	0
Number of non ACD Trunks	12	24	48	48	96
Number of Call Registers	54	84	95	111	166
Number of Call Registers if ACD Max	79	109	120	136	191

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	40	If CCR or/and Link are equipped.
CSQI	20	If only Mail is equipped
CSQO	40	If CCR or/and Link are equipped.
CSQO	20	If only Mail is equipped

All input/output devices (IOTB) should have USER configured as XBUG with the exception of the history file (i.e. ADAN = HST) which should be configured for BUG.

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2.6.2 Option 51 Omega processor
2.6.2.1 PARM and OVLY (Overlay17)

NDIS	20	
LPIB	96	
HPIB	32	
500B	$(A+B)\times8\div100$	where A = total number of 500 sets B = total number of digital sets
SL1B	40	
DTIB	35 70	for non expanded mode DDSLs for expanded mode DDSLs
DTOB	35 70 100	for 1 or 2 digital links for 3 or 4 digital links for 5 links or more
PCDR	NO	
CY45	01	
BKGD	44	
DROL	30 35 43 44 45 60[1]	

[1]   *Overlay 60 should only be included if Q931 or CHAS are equipped*.

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2.6.2.2 Call Registers

NCR	600	This is a minimum value. Never reduce existing values.

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 to localise.

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	100	
CSQO	100	

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2.6.3 Option 61, Omega Processor
2.6.3.1.PARM and OVLY (Overlay17)

NDIS	20	
LPIB	96	
HPIB	32	
500B	$(A+B)\times8\div100$	where A = total number of 500 sets B = total number of digital sets
SL1B	40	
DTIB	35 70	for non expanded mode DDSLs for expanded mode DDSLs
DTOB	35 70 100	for 1 or 2 digital links for 3 or 4 digital links for 5 links or more
PCDR	NO	
CY45	01	
BKGD	44	
DROL	30 35 43 44 45 60[1]	

[1] *Overlay 60 should only be included if Q931 or CHAS are equipped.*

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2.6.3.2 Call Registers

NCR	600	This is a minimum value. Never reduce existing values.

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 to localise.

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	100	
CSQO	100	

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2.6.3.3. XCT(overlay 17)
It is essential that the XCT is not located in loop 0. (XCT 000 in Overlay 17) If it has been configured in this loop, then it must be moved to another loop. Failure to comply may result in spurious initialises, delays to dial tone and other service affecting symptoms.

If at all possible, ENETs should not be located in loop 0 either. However, do not change existing systems unless service difficulties are experienced with loop 0.

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2.6.4 Option 71 Omega processor (Overlay 17)
2.6.4.1 PARM and OVLY (Overlay17)

NDIS	20	
NCR	1200	This is a minimum value. Never reduce existing values
LPIB	96	
HPIB	$32\times$(Number of groups)	
500B	$(A+B)\times8\div100$	where A = total number of 500 sets B = total number of digital sets
SL1B	40	
DTIB	35 70	for non expanded mode DDSLs for expanded mode DDSLs
DTOB	35 70 100	for 1 or 2 digital links for 3 or 4 digital links for 5 links or more
PCDR	NO	
CY45	01	
BKGD	44	
DROL	30 35 43 44 45 60[1]	

[1]   *Overlay 60 should only be included if Q931 or CHAS are equipped.*

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2.6.4.2 Registers

NCR	1200	This is a minimum value. Never reduce existing values

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 to localise.

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	200	
CSQO	200	

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2.6.4.3 XCT (overlay 17)
It is essential that the XCT is not located in loop 0. (XCT 000 in Overlay 17) If it has been configured in this loop, then it must be moved to another loop. Failure to comply may result in spurious initialises, delays to dial tone and other service affecting symptoms.

If at all possible, ENETs should not be located in loop 0 either. However, do not change existing systems unless service difficulties are experienced with loop 0.
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2.6.5 Option 81
2.6.5.1 PARM and OVLY (Overlay17)

NDIS	20	
LPIB	300	
HPIB	64×(Number of groups)	
500B	1000	
SL1B	40	
DTIB	70	
DTOB	70 100	1 to 4 DPNSS/DASS links 5 or more DPNSS/DASS links
PCDR	NO	
CY45	01	
BKGD	44	
DROL	30 43 44 45 60[1] 135 137	

[1]   *Overlay 60 should only be included if Q931 or CHAS are equipped.*

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2.6.5.2 Call Registers

NCR	Release 23 S/W	CP1	5000
	Release 23 S/W	CP2	7500
	Release 23 S/W	CP3 / CP4	10000
	Release 24 S/W	CP2	7500
	Release 24 S/W	CP3 / CP4	10000
	Release 25 S/W	CP2	7500
	Release 25 S/W	CP3 / CP4	10000

If call register overflows are suspected, use System traffic reports or Diagnostic patch 1516 to localise.

MGCR	25	Only if ACD Max is equipped (If no Max, set to 0)
CSQI	255	
CSQO	255	

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2.6.5.3 XCT (overlay 17)
It is essential that the XCT is not located in loop 0. (XCT 000 in Overlay 17) If it has been configured in this loop, then it must be moved to another loop. Failure to comply may result in spurious initialises, delays to dial tone and other service affecting symptoms.

If at all possible, ENETs should not be located in loop 0 either. However, do not change existing systems unless service difficulties are experienced with loop 0.
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2.7 Digital trunk configuration

NB. Some digital trunk parameters cannot be changed until the link is taken out of service. Changes to default values are shown in bold.

2.7.1 DASS and DPNSS

On big switches (Options 51,61,71,81), when using expanded mode addressing, the "D" channel interface card must be fitted in the correct network group and shelf for the DDSL address being used.
For example,
DDSL 0 to 15 Network Group 0 Shelf 0
DDSL 16 to 31 Network Group 0 Shelf 1
DDSL 32 to 47 Network Group 1 Shelf 0
DDSL 48 to 63 Network Group 1 Shelf 1
DDSL 64 to 79 Network Group 2 Shelf 0
DDSL 80 to 95 Network Group 2 Shelf 1
Etc.

2.7.2 PRI Alarm Threshold and Timers DASS & DPNSS (Overlay 74)

Alarm Mnemonic	Persistence Time	Monitor Time (hours)	Count Threshold
TBF	5 seconds	0	1
FAE	2 seconds	1	4
HER	1 minute	1	10
TSF	0 minutes	0	0
AIS	**1 minute**	**1**	**6**
LOI	**6 seconds**	**1**	**6**
DAI	**1 minute**	**1**	**6**

Counter Mnemonic	DASS	DPNSS
CRT	120	120
TMT	50	50
SCT	20	20

2.7.3 Q931 links.

When configuring Q931 "D" channels in overlay 17, the RCAP prompt defines the remote capabilities of the "D" channel. Items such as Call Party Named Display and Network call trace are configured here. If the remote end of the link uses an MSDL card for the "D" channel interface this will also need to be defined here.

If Basic Rate Access (BRI) is used across the link, RCAP should also specify BRI.
The Release ID (overlay 17) should be set to the lowest release of software in the network. This applies to all "D" channels on all sites in the network.

2.7.4 PRI2 Alarm Threshold and Timers Q931 (Overlay 73)

SLP	5	24H	255		1H
BVP	128	122			
CRC	201	97			
FAP	28	1			
GP2	50	100S	12S	12S	4S
MNG1	30S				

NCG1	30s
OSG1	1M
MNG2	30S
NCG2	30S
OSG2	30S
PERS	50
OOSC	0

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2.7.5 Pri2 pad values (Overlay 73)

The following pad values are recommended for Release 16 software or later:

	RECEIVE PAD (x)	TRANSMIT PAD (y)
ONP	0	0
OPX	0	0
DTT	0	0
DCO	0	0
NTC	0	0
TRC	0	0
DTR	0	
VNL	0	0
ACO	0	0
AFX	0	0
ADD	0	0
PR1	0	0
DSET	0	0
BRIL	0	0
BRIT	0	0

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2.7.6   Dti2 system timers chas (overlay 73)

MAND	**1M**
NCSD	**30S**
OSGD	**1M**
OOSC	**0**
PERS	**100**
CCGD	**1M**
CCAR	**1M**

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2.7.7 Dti loop timers chas (Overlay 73)

Group 1 Impairments

BPV	205	10S	3S	3S	1S
FAP	32	4S	1S	1S	100T
SLP	**100**	30S	10S	10S	6S

Group 2 Impairments

GP2	**50**	100S	12S	12S	4S

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2.7.8 Euro – ISDN (PSTN)
The following is a sample configuration for Option 11C is shown below:
The most important prompts are highlighted. This is not a definitive configuration as this will depend on the functionality supported by the service provider and the software level of the M1, therefore reference must be made to the NTP and the customer requirements.

```
LD 17
TYPE PARM
BCAP SPEE              (Bearer Capability = Speech)
or
BCAP 31KH              (Bearer Capability = 3.1 Khz Voice)
TYPE ADAN
ADAN NEW DCH **
CTYP MSDL              (Multipurpose Serial Data Link)
CARD                   (Insert Card No)
PORT 1
DES EURO_ISDN
USR PRI                (D-Channel for ISDN PRI)
DCHL                   (Insert Loop No)
OTBF 32
PARM RS422 DTE
DRAT 64KC
CLOK EXT
NASA NO
*IFC EURO or E403      (Interface type for D-Channel See Note 1)
*CNTY UK  or ETSI      (Country Type See Note 1)
```

```
PINX_CUST 0
ISDN_MCNT 300
CLID OPT1
```
PROG NCHG   **(Send Progress Message)**
```
CO_TYPE STD
```
SIDE USR   **(USR = default, NET for Master Mode)**
```
CNEG 2
RLS ID
```
RCAP COLP   **(Supports Connected Line ID)**
```
MBGA NO
OVLR NO
OVLS NO
T310 120
INC_T306 120
OUT_T306 120
T200 3
T203 10
N200 3
N201 260
K 7


LD 73
TYPE PRI2
FEAT LPTI
LOOP                    (Insert loop No)
```
MFF CRC   **(Multiframe Format = CRC [Cyclic Redundancy Check])**
ACRC YES   **(Auto report or CRC-4 error)**
ALRM ALT   **(Alternate firmware alarm handles)**
```
RAIE NO
G1OS YES
```
(Set all timers to default until further notice)
```
SLP 5 24 H 30 1 H
BPV 128 122
```
CRC 201 97   **(Cyclic Redundancy Check error counts)**
```
FAP 28 1
RATS 10
GP2 20 100 S 12 S 12 S 4 S
MNG1 15 M
NCG1 15 M
OSG1 15 M
MNG2 15 S
NCG2 15 S
OSG2 15 S
PERS 50
CLRS 1
OOSC 5


LD 16
TYPE RDB
CUST 00
DMOD
```
ROUT   **(Insert Route No)**
```
DES EURO_ISDN
```
TKTP DID
```
SAT NO
RCLS EXT
```
DTRK YES   **(Digital Trunk Route)**
```
BRIP NO
```
DGTP PRI2   **(Digital trunk Type for Route)**
ISDN YES
MODE PRA

```
*IFC EURO or E403      (Interface type for D-Channel See Note 1)
*CNTY UK  or ETSI      (Country Type See Note 1)
SBN NO
PNI 00000
NCNA NO
NCRD NO
ISAR NO
CPFXS YES
ADDP NO
DSEL VOD
PTYP DCO
AUTO NO
DNIS NO
ICOG IAO
RANX NO
SRCH RRB
TRMB YES
STEP
ACOD 1600
TARG **
```

All other responses in RDB should be set to default or customer specific

```
LD 14
TN **                   (Insert T.N)
TYPE DID
CDEN SD
CUST 0
TRK PRI2
PDCA 1                  (Pad Category table number)
PCML A                  (Pulse Code Modulation Law [A Law])
NCOS 7
RTMB 100 1
B-CHANNEL SIGNALING
NITE
CLS UNR DTN WTA LPR APN
P10 VNL
TKID
DTCR NO
DATE 4 FEB 1997


LD 15
TYPE CDB
CUST 00
LDN_DATA
OPT XLDN
DLDN YES
LDN0 ****                (LDN0 must be defined for ISDN PRI DID Service. The length of LDN0
                         determines the number of trailing digits translated as the DN on PRI
                         DID routes)
LDA0
LDN1
LDA1
LDN2
LDA2
LDN3
LDA3
LDN4
LDA4
LDN5
LDA5
ICI 00 LD0
```

```
ICI 01
ICI 02
ICI 03
ICI 04
ICI 05
ICI 06
ICI 07
ICI 08
ICI 09
```

Note 1
These have to be set the same on both the DCH and RDB, or the switch will not accept it.
Below should only be used in rare cases where the exchange does not support newer
Euro features. All BT exchanges do so we would only ever set as EURO UK when it is a
non BT link and even then most of the other providers support the E403 ETSI settings.

```
IFC EURO
CNTY UK
```

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2.7.9 QSIG

Like all Meridian networking solutions, QSIG has numerous permutations in which the
configuration can be applied. The essential thing to understand is that, which ever way is
chosen, the remote system needs to have the ability to recognise the protocol it is
receiving and visa versa, therefore the only right way to configure QSIG is one which is
built on common ground between two systems.

Since release 23, all QSIG Supplementary Services have provided the user with the
choice of ROSE APDU Operation Coding rule: Integer Values or Object Identifiers (for
example QSIG SS Path Replacement PRI/PRO etc.).

However, two supplementary services, developed in release 22, offered only the Object
Identifier option:
• QSIG Supplementary Service - Name Display
• QSIG Supplementary Service - Call Completion

From release 24, these supplementary services offer the possibility of choosing Integer
Value option for ROSE APDU operation coding.
There are no functional change vs Release 22 versions.

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2.7.10 Example of Meridian rlse 25 QSIG to CISCO

Patches must include the following however these are not definitive and are subject to up-issue or withdrawal, please check the latest at time of installation
([see Patching - Section 2.17)](#)

p16179_1	p14000_3	p14007a3	p14007b3
p16131a1	p16131b1	p16131c1	p16131d1
p17448			

Packages must include

MSDL (222)	MSDL SDI (227)	MSDL STA (228)	QSIG (263)
QSIGGF (305)	QSIG-SS (316)	ETSI-SS (323)	MEET (348)

(Use numbers and loops etc to suit site)
D Channel config example

```
ADAN      DCH 21
  CTYP MSDL
  DNUM 15
  PORT 1
  DES  EGF4
  USR  PRI
  DCHL 21
  OTBF 32
  PARM RS422  DTE
  DRAT 64KC
  CLOK EXT
  IFC  EGF4
    PINX_CUST 0
    ISDN_MCNT 300
  CLID OPT0
  CO_TYPE  STD
  SIDE USR                (Must be USR when connected to router)
  CNEG 1
  RLS  ID  25
  QCHID YES
  RCAP NCT MWI COLP NDI CCBI CCNI PRI DV3I MQC CTI
  PR_TRIGS DIV 2 3
           CNG 2 3
           CTR2 2 3      (Use XCTR to delete CTR1 then enter CTR2 2 3)
  PR_RTN NO              (YES will retain the first leg of a redirected call)
  MQC_FEAT NAS NACD NMS  (depending on packages)
  MBGA NO
  OVLR NO
  OVLS NO
  T310 120
  T200 3
  T203 10
  N200 3
  N201 260
  K    7
```

CDB Example

```
NET_DATA
  OPT RTD
  AC2 LOC
  FNP YES
  ISDN YES
    PNI 112           (match to existing PNI number)
    PINX_DN 2415      (must be spare DN in site number range dial able from remote sites,
                       although NU will result)
    MBG 0
    BSGC 65535
    PFX1
    PFX2
    HLOC
    LSC          (usually 3 digit site code if applicable)
    RCNT 5
    PSTN NO
    TNDM 15
    PCMC 15
    SATD 1
    OCLI NO
  TIDM NO
  DASC
  ROPT NRO
  DITI YES
  TRNX NO
  EXTT NO
  FTOP FRES
  APAD 0  0
  VNR NO
  NIT 8
  NAS ATCL YES
  NAS ACTV NO
  FOPT 0
  CNDN
  CNAT
  CNIP YES
ODN8
  ODN9
  ASTM 30
  HDOPT 0
  HDTM 30
```

Route data block example

```
TYPE RDB
CUST 00
DMOD
ROUT 120
DES  QSIGGF
NPID_TBL_NUM   0
ESN  NO
RPA  NO
CNVT NO
SAT  NO
RCLS EXT
DTRK YES
BRIP NO
DGTP PRI2
ISDN YES
     MODE PRA
     IFC  EGF4
     SBN  NO
     PNI  00112   (to match existing)
     NCNA yes
     NCRD yes
     CTYP CDP
     INAC NO
     ISAR NO
     CPFXS YES
     DAPC NO
     INTC NO
DSEL VOD
PTYP DTT
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB NO
STEP
ACOD 1920   (to suit)
TCPP NO
TARG 01
BILN NO
OABS
INST
IDC  YES     (      )
DCNO 2 *     (To suit)
NDNO 2       (      )
DEXT NO
SIGO STD
MFC  NO
ICIS YES
OGIS YES
TIMR ICF 1920
     OGF 1920
     EOD 13952
     LCT 256
     NRD 10112
     DDL 70
     ODT 4096
     RGV 640
     GTO 896
     GTI 896
```

```
        SFB 3
        PRPS 800
        NBS 2048
        NBL 4096
     IENB 5
        TFD 0
        VSS 0
        VGD 6
DTD   NO
SCDT  NO
2 DT  NO
DRNG  NO
CDR   YES
INC   YES
LAST  YES
TTA   YES
ABAN  YES
CDRB  NO
QREC  NO
OAL   YES
AIA   YES
OAN   YES
OPD   NO
NDP   EXC 0
CDRX  NO
NATL  YES
SSL
CFWR  NO
IDOP  NO
VRAT  NO
MUS   NO
PANS  YES
FRL   0 0
FRL   1 0
FRL   2 0
FRL   3 0
FRL   4 0
FRL   5 0
FRL   6 0
FRL   7 0
OHQ   NO
OHQT  00
CBQ   NO
AUTH  NO
TTBL  0
PLEV  2
OPR   NO
ALRM  NO
ART   0
PECL  NO
DCTI  0
TIDY  1920 120
SGRP  0
AACR  NO
```

Trunk member Example

```
TN    021 01
TYPE TIE
CDEN SD
CUST 0
TRK  PRI2
PDCA 3        (may require new pad table as this can be amended without affecting other routes)
PCML A
NCOS 7
RTMB 120 1
B-CHANNEL SIGNALING
TGAR 1
AST  NO
IAPG 0
CLS  UNR DTN CND WTA LPR APN THFD XREP BARD
     P10 VNL
TKID
```

***** ALL QSIGGF RLI ENTRIES MUST HAVE SBOC SET WITH COPT = 1 OR 2 *****
This is in order for alternate routing to RLI entries 1,2 3 etc to work

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2.8 ACD
It is recommended that the prompts in LD 23 for call forcing, FCFT, FADT, FADR should be treated as mutually exclusive. Having a value set for more than one prompt will cause incorrect call distribution amongst agents. FCFT is the preferred prompt to use, with FADT and FADR being set to none.

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2.9 Network ACD
When a Meridian is used in a Network ACD (NACD) Q931 environment, it is important to ensure that certain parameters are correctly configured as shown below:

Overlay 17
```
CLOK EXT
NASA YES
RLS ID 16 NB.
```

This parameter should be set to the lowest release of software in the network. In the example shown, this is Release 16. If all switches are at a minimum of Release 18, this parameter should be set to 18 etc.

Overlay 16
These parameters must be set for all Q931 routes where NACD is used. Ideally, they should be altered at both ends of a link at the same time, otherwise messaging errors may occur.
```
SIGO ESN5
INAC YES
```


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2.10 CDR (all systems)

CDR should be configured at a minimum speed of 9600 Baud. Please see MOC Newsflash 96_016 before making this change to any Option 11E.

Within LD 16, the CDR prompt Time to Answer (TTA) set to YES adds an overhead to the processor load. Only set this prompt on necessary routes, it is not recommended for Music or Ran routes.

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2.11 Traffic measurements

The traffic measurement for processor load TFS 004 now has extra fields to help with indicating excessive Real Time Usage.

If the Maximum Real Time Used figure exceeds 80%, the switch may suffer from call processing problems at peak times.

This enhancement is available from Release 18 software onwards on Big Switches (Omega and "C" processors) and Release 22 software onwards on Option 11 (i.e., the C processor variant.)

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2.12 System security

All recommendations on Meridian1 security can be found in the Meridian "System Security Guide" P0806182. This guide is shipped with all new systems and Meridian Mail and is the definitive document from Nortel on Meridian1 security.

With the new release of 4.50 Nortel have introduced a new range of system security measures in line with Industry Standards. NTP System Security Management 553-3001-307_2.00 .

This new standard is very exacting and all staff who work on Nortels CS switches should familiarise themselves with the rules.

To assist engineers with certain aspects of Password Security a newsflash as been issued. see Technical Bulletin 05_23

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2.13 Transmission levels

AOLR in Overlay 17 should be set to value 39. This prompt is used in Release 22 or later software to set transmission levels for ACD agent sets.

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2.13.1 IP Telephony

To set the correct Loss Plan information the following Configuration / PEP insertion must be adhered to for Nortel IPT products.

Product / SW Level	PEP Requirements	ConfigurationRequirements
Succession Rls3.00	None	LD 73 – Set DDB. Change Pad 15 to UK settings as per NTP. Set UK Specific IP Set Loss Plan on Media Cards.
Succession CSE 1K Rls.2.2	MPLR 17754	LD 73 – Set DDB. Change Pad 15 to UK settings as per NTP.
IP Line on Sites with X11 25.40b software	MPLR 16341	As above
IP Trunk on sites with X11 25.40b software	MPLR 15721	As above
CS1000 Release 4/4.5	None	As above

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2.13.2 Media Card Loss Plan Settings (Succession Rls.2 & 3&4+)
See NTP 553-3001-182 (Transmission Parameters)
To Set DDB
```
LD 73
REQ NEW
TYPE DDB
TRSH 0
Other prompts: <CR>
PDCA (PAD 15)
```

DDB will create a default PAD Table 15 which must be changed to the recommended UK settings.

```
LD 73
REQ PRT (CHG)
TYPE DTI
FEAT PAD
PDCA 15
      ONP    6     5
      DSET   3     4
      OPX    N/A   N/A
      DTT    0     0
      SDTT   0     0
      DCO    N/A   N/A
      DTO    3     19
      VNL    0     0
      SATT   3     19
      ACO    2     16
      ATO    3     19
      PRI    0     0
      PRI2   0     0
      XUT    2     16
      XEM    2     16
      BRIL         0      0
      BRIT   0     0
      WRLS   3     19
```
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2.13.3 IP Set SLR & RLR Values for the UK (Rls 3.00/4.00/4.50 Only)
See NTP 553-3001-365 (IP Line)

When a system is installed in the UK, the command UKLossPlanSet is entered at the CLI of one Media card, this should be implemented for all software levels. Once entered, the setting will automatically synchronise with all other media cards in that node. This adjusts the loss plan of the Internet Telephones to the higher transmit levels required in the UK. Use the following steps to set the loss plan for the UK.

1. Either - telnet to the card, connect to the maintenance port, use OTM or Element Manager to access the Voice Gateway Media Card to gain access to the CLI.
2. Log into the IPL> shell.
3. At the IPL > CLI, enter the command UKLossPlanSet. Press <CR>.
4. Exit from the login session.

Example of lossPlanPrt output on release 3 and 4 systems

Parameter	Default	Offset	Result
HandsetRLR	2	0	2
HandsetSLR	11	-5	6
HeadsetRLR	0	0	0
HeadsetSLR	11	-5	6
HandsfreeRLR	13	0	13
HandsfreeSLR	16	0	16

On release 4.5 sites the defaults were changed and it should be:

Parameter	Default	Offset	Result
HandsetRLR	2	0	2
HandsetSLR	8	-2	6
HeadsetRLR	0	0	0
HeadsetSLR	8	-2	6
HandsfreeRLR	13	0	13
HandsfreeSLR	16	0	16

Using the UKLossPlanSet command gives a result of 6 for both the Handset SLR and the Headset SLR on all versions of software

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2.14 Customer data block (CDB - Overlay 15)
RGNA in the CDB (MPO) should be set to STD STD. It is normally AAR AAR.
This will prevent transferred calls to an extension which has FNA/EFD set to another extension from reverting back to the transferee when the forward no answer timer (ring cycles) matures rather than following the call forward treatment.

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2.15 Meridian Mail DSP parameters

During installation of Meridian Mail you have the option to change the DSP parameters.
The recommended settings are shown below:
Changes from the default settings are shown in bold.

DSP Encoding Type	**ALAW**
Disable Silence compression:	No
Do you wish to change other DSP parameters?	**YES**
Transmit level:	0
Receive Level:	-7
DTR Reject Level:	(-36)
DTR Max Accept Level:	(1)
Disable AGC:	No
AGC Centre:	-20
Hook Flash Pulse:	320
Telescan Debounce:	(128)
Telescan Ring Time:	1024
Select operation:	**Done**

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2.16 Meridian 1 supported software releases

The preferred software releases for investigation of new problems are highlighted below.

If problems were reported on sites with earlier software releases, the Meridian National Technical Support group may recommend that an upgrade be performed to bring them up to this minimum level.

There may be circumstances when a "bug fix" upgrade is appropriate, however definitive authority must come from Nortel Networks. Upgrades from an un-sustained release must be classed as a commercial upgrade at cost to the customer, even to eradicate a fault condition.

For further information please contact the Meridian STC.

Machine Type and Software	Software release
Option 11C X11 Release 24	24.25
Option 11C X11 Release 25	25.15
Option 11C X11 Release 25	25.40
Option 11C X11 Release 25	25.40b
Option 11C X21 Release 3	3
Option 51C,61C,81,81C X11 Release 24	24.25
Option 61C , 81C X11 Release 25	25.15
Option 61C , 81C X11 Release 25	25.40
Option 61C , 81C X11 Release 25	25.40b
Option 61C , 81C X21 Release 3	3
CSK 1000 X21 Release 3	3
CSK1000 X21 Release 2	2.2
CS1000S/SG/HG/MG X21 Release 4	.00T and .50W
CS1000E, MG1000E/B/T X21 Release 4	.00T and .50W
Meridian 1 pbx 51C, 61C, 81C X21 Release 4	.00T and .50W
Option 11 Release 18	18.42 * (H/W Break point)
Option 11E Release 21	21.54 * (H/W Break point)
Option 11C Release 22	22.16 * (H/W Break point)
Option 11C Release 23	23.47 *
Option 51,61,71 (Omega) Release 16	16.92 * (H/W Break point)
Option 51,61,71 (Omega) Rlse 18, 20, 21 & 22	22.16 * (H/W Break point)
Option 51C,61C,81,81C, Release 23	23.47 *

Un-sustained from Nortel Networks, this means the platform and software will not be subject to any further development work, fault investigation or patch reworks. Existing fixes will be available for deployment to site, bugfix upgrades will not be available on these platforms.

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2.17 Patching

Software release 25.15 saw the introduction of Service packs which provide a single "PEP" containing several product specific PEPS. Software release 25.40 introduced Product Dependency Lists which allow quick identification and delivery of Product Enhancement Paks (PEPS) that are recommended for Meridian 1 and Succession CSE 1000 Systems.

A Dependency List PAK, which is a subset of the Dependency List, is a merge of individual PEPS available from previous issues of the Dependency List. The PAK provides an efficient method for downloading portions of the Dependency List as the user must select only a single PEP Binary File Name. A secondary advantage of the PAK is that when patches are merged, they consume fewer patch handles.

When using DEP PAKs, please ensure that any additional individual PEPS to complete the Dependency List are included.

Software release 4.00T and 4.50W saw the introduction of a new concept of patching with the introduction of downloadable .zip files containing dependency list's. Also a new command structure in LD 143 for loading these zip files to the systems.

IMPORTANT NOTE
The dep lists at 4.50W are dynamic, and at 4.00T Dep Vers 10 on so the recommendation is to download the zip files on a regular basis.

MatrixDeplist_User Guide's can be obtained from the Patching Duty 0800622396 or via the web address below

BT recommends that the latest service or dependency packs and lists be loaded on ALL machines.

Failure to comply with this recommendation may delay issues being escalated to Technical Support and or Nortel Networks for advanced support.

Please visit
http://globalservices.intra.bt.com/solutions/global_customer_service/technical_services/specialist_services/front_office/patch_information.html for further help and latest issues of patches etc.

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3 Credits and document history

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