Communication Server 1000
Release 4.5
Beta Release Bulletin

[Beta Release X210450W]

Issue 1.2
August 9, 2005

Confidential Document

Table of Contents

Introduction

General Introduction

This bulletin will provide useful information related to the Communication Server 1000 Release 4.5 Beta Software. Communication Server 1000 Release 4.5 Software includes the Call Server software load 4.50W, the Signaling Server software load 4.50.25 and the IP Line Application 4.50.25. This bulletin also includes information on Element Manager.

An overview of the Global features developed for the Communication Server 1000 Release 4.5 software can be found in the *Knowledge Transfer Kit* (KTK) which can be downloaded off of the Partner Information Center http://www.nortelnetworks.com/pic. Additional information regarding Release 4.5 can be found in the "*What's New for Communication Server 1000 Release 4.5"* NTP available from:

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-015_P_0.04.pdf

All users of Release 4.5 Beta software should read the *KTK* as well as the *What's New* guide prior to this document as this document serves as an advisement to the 4.50W load, not a general overview of the entire release.

Communication Server 1000 Release 4.5 is a multi-purpose release designed to deliver a global software stream to all markets and will be supported as follows:

- Option 51C is no longer being sold as a new system.
- Upgrades to CS1000 4.5 will be offered to existing Option 51C systems and Option 61C CP3 & CP4 systems provided that no shelf or cabinet upgrades are required.
- Option 61C new systems in all regions with Call Processor PII (256MB memory).
- Option 81C new systems will ship with Fiber Network Fabric (FNF) and Call Processor PII (CP PII) with 256MB memory as the default configuration.
- A new Call processor (CP PIV) is introduced in which is applicable to Option 61C, Option 81C, CS1000M SG, CS1000M MG and CS1000E systems. Note that CP PIV will only support FNF based systems. It will not be supported on junctor based (IGS) systems
- **Signaling Servers with a minimum of 512 MB of memory are required for Release 4.5. Please refer to the section on Memory Requirements for more information.**

Detailed information on the compatibility of various platforms & applications with Release 4.5 can be found in the section *Compatibility Matrix*.

Not all features described in this document are offered in all countries, and as noted in this Bulletin, not all features are supported on all machine types.

Please contact your local Nortel Networks representative for more information.

Communication Server 1000 R4.5 Beta Software Listing (X2104.50W)

Systems and components delivered to trial sites may include software already installed. However, these software versions are typically older, and are included only for manufacturing and order management purposes.

Do not attempt to operate the system with these initial loads of software, the correct software versions are listed below:

The correct versions of all software are:

- Call Server — X2104.50W
  - Install disk — 29
  - PSDL — 115
  - FIJI Loadware — 19
- Signaling Server — 4.50.25
- IP Line Application — 4.50.25
- IP Set (phase 0,1) F/W — B76
- IP Set (phase 2) F/W — D98
- IP Set 2007 — C22
- M3902 — ver.8.4
- M3903 — ver.8.7
- M3904 — ver.8.9
- M3905 — ver.8.9
- XA firmware — 6.8 for SMC non NTVQ01AB/NTVQ01BB
8.2 for SMC NTVQ01AB/NTVQ01BB
5.7 for ITG-P
- i2050 software telephone — build 385
- OTM — 2.20.78
- WLAN Handsets 2210/2211 — 97.039

Communication Server 1000 R4.5 Peripheral Software Downloadable (PSDL) Listing

Loadware	X21 03.00 PSWV 88	X21 04.00T PSWV 111	X21 04.50W PSWV 115
LCRI	LOADAA02	LOADAA02	LOADAA02
XNET	LOADAC23	LOADAC23	LOADAC23
XPEC	LOADAC38	LOADAC40	LOADAC40
FNET	LOADAA06	LOADAA07	LOADAA07
FPEC	LOADAA07	LOADAA08	LOADAA08
MSDL	LOADAJ71	LOADAJ73	LOADAJ73
ASYN (SDI)	LOADAH51	LOADAH51	LOADAH51
DCH1 (DCH)	LOADAJ71	LOADAJ71	LOADAJ72*
MLNK (AML)	LOADAK81	LOADAK81	LOADAK81
BRIL	LOADAK83	LOADAK83	LOADAK83
BRIT	LOADAK82	LOADAK82	LOADAK82
MISP	LOADAJ71	LOADAJ71	LOADAJ71
MPHA (MPH)	LOADAH51	LOADAH51	LOADAH51
BRSC	LOADAJ71	LOADAJ71	LOADAJ71
BBRI	LOADAH54	LOADAH54	LOADAH54
PUPE (PRIE)	LOADAK83	LOADAA83	LOADAA84*
BRIE	LOADAK86	LOADAK86	LOADAK86
ISIG	LOADAA33	LOADAA33	LOADAA33
SWE1	LOADBA50	LOADBA51	LOADBA52*
UKG1	LOADBA47	LOADBA48	LOADBA49*
AUS1	LOADBA47	LOADBA47	LOADBA48*
DEN1	LOADBA47	LOADBA47	LOADBA48*
FIN1	LOADBA47	LOADBA47	LOADBA48*
GER1	LOADBA52	LOADBA52	LOADBA53*
ITA1	LOADAA52	LOADBA52	LOADBA53*
NOR1	LOADBA47	LOADBA47	LOADBA48*
POR1	LOADBA47	LOADBA47	LOADBA48*
DUT1	LOADBA47	LOADBA47	LOADBA48*
EIR1	LOADBA47	LOADBA47	LOADBA48*
SWI1	LOADBA51	LOADBA51	LOADBA52*
BEL1	LOADBA47	LOADBA47	LOADBA48*

* New loadware with X210450

Loadware	X21 03.00 PSWV 88	X21 04.00T PSWV 111	X21 04.50W PSWV 115
SPA1	LOADBA47	LOADBA47	LOADBA48*
NET1	LOADBA48	LOADBA48	LOADBA48
FRA1	LOADBA50	LOADBA50	LOADBA51*
CIS1	LOADBA46	LOADBA46	LOADBA47*
ETSI	LOADBA47	LOADBA47	LOADBA48*
E403	LOADBA07	LOADBA07	LOADBA07
N403	LOADBA05	LOADBA05	LOADBA05
JTTC	LOADAC08	LOADAC08	LOADAC08
TCNZ	LOADAA13	LOADAA13	LOADAA13
AUBR	LOADAA14	LOADAA14	LOADAA14
AUPR	LOADAA04	LOADAA04	LOADAA04
HKBR	LOADAA06	LOADAA06	LOADAA06
HKPR	LOADAA08	LOADAA08	LOADAA08
SING	LOADAA15	LOADAA15	LOADAA15
THAI	LOADAA07	LOADAA07	LOADAA07
NI02	LOADAA24	LOADAA25	LOADAA26*
T1IS	LOADAA10	LOADAA10	LOADAA10
T1ES	LOADAA09	LOADAA09	LOADAA09
ESGF	LOADAC26	LOADAC28	LOADAC29*
ISGF	LOADAC24	LOADAC27	LOADAC28*
TEGF (ESGFTI)	LOADAC25	LOADAC27	LOADAC28*
TIGF (ISGFTI)	LOADAC23	LOADAC26	LOADAC27*
INDO	LOADAA06	LOADAA06	LOADAA06
JAPN	LOADAA16	LOADAA16	LOADAA16
MSIA	LOADAA04	LOADAA04	LOADAA04
CHNA	LOADAA04	LOADAA04	LOADAA04
INDI	LOADAA03	LOADAA03	LOADAA03
PHLP	LOADAA02	LOADAA02	LOADAA02
TAIW	LOADAA03	LOADAA03	LOADAA03
EAUS	LOADAA02	LOADAA02	LOADAA02
EGF4	LOADAC09	LOADAC12	LOADAC12
DCH3	LOADAA09	LOADAA09	LOADAA10*
PUP3	LOADAA09	LOADAA10	LOADAA11*
T1E1	LOADAA16	LOADAA16	LOADAA16
DITI	LOADAA38	LOADAA38	LOADAA39*
CLKC[NTRB53]	LOADAA14	LOADAA14	LOADAA16*

* New loadware with X210450

Loadware	X21 03.00 PSWV 88	X21 04.00T PSWV 111	X21 04.50W PSWV 115
M3900 Loadware	**M3900 Phase III**	**M3900 Phase III**	**M3900 Phase III**
1.Global Languages Set			
M3902	LOADAA82	LOADAA84	LOADAA84
M3903	LOADAA85	LOADAA87	LOADAA87
M3904	LOADAA87	LOADAA89	LOADAA89
M3905	LOADAA87	LOADAA89	LOADAA89
2.Western Europe Languages Set			
M3902	LOADBA82	LOADBA84	LOADBA84
M3903	LOADBA85	LOADBA87	LOADBA87
M3904	LOADBA87	LOADBA89	LOADBA89
M3905	LOADBA87	LOADBA89	LOADBA89
3.Eastern Europe Languages Set			
M3902	LOADCA82	LOADCA84	LOADCA84
M3903	LOADCA85	LOADCA87	LOADCA87
M3904	LOADCA87	LOADCA89	LOADCA89
M3905	LOADCA87	LOADCA89	LOADCA89
4.North America Languages Set			
M3902	LOADDA82	LOADDA84	LOADDA84
M3903	LOADDA85	LOADDA87	LOADDA87
M3904	LOADDA87	LOADDA89	LOADDA89
M3905	LOADDA87	LOADDA89	LOADDA89
5. Spare Languages Set			
M3902	LOADCA41	LOADCA41	
M3903	LOADAA52	LOADAA52	
M3904	LOADAA46	LOADAA46	
M3905	LOADAA32	LOADAA32	
6. Spare Languages Set			
M3902	LOADAA40	LOADAA40	LOADAA41*
M3903	LOADAA52	LOADAA52	LOADAA52
M3904	LOADAA46	LOADAA46	LOADAA46
M3905	LOADAA32	LOADAA32	LOADAA32

* New loadware with X210450

Features Status for Software Load (X210450W)

CS1000 4.5 S/W Features	X2104.50U
Campus Redundancy	Supported
Adaptive Network Bandwidth Mgt	Supported
Alternate Routing for S1000 Main Office/Branch Office Users	Supported
Enhanced F/W Download	Supported
RTCP XR Requirements	Supported
SNMP Enhancements	Supported
CLID Enhancements	Supported
Active Call Failover	Supported
EM Enhancements	Supported
DSP Peg Counter	Supported
Centralized Voicemail in CS2100 & CS1000 Interworking	Supported
Network Music Service	Supported
IP Telephone Survivability	Supported
PEP Monitoring Tool	Supported
Attenuator Bit on WLAN Handset	Supported
Default Queue Management	Supported
ACD Agent Capacity Increase	Supported
Next Gen KEM	Supported
Call Duration Timer	Supported
Incalls Key Display	Supported
SipNpmCallTraceMsgPrint	Supported
NAC	Supported
VLAN Filtering	Supported
OTM 2.2	Supported
EM 4.5	Supported

Communication Server 1000 R4.5 Feature/Platform Availability Matrix

Feature/ Product	11C Mini	11C SSC	51C(CP3&4)	61C(CP3&4)	61C CPP	81C/CP3&CP4	81C CPP	CS 1000E	CS 1000S	CS 1000M	Notes
Campus Redundancy								X			
Geographic Redundancy					X		X	X		X	
Adaptive Network Bandwidth Mgt								X	X	X	
Alternate Routing for S1000 Main Office/Branch Office Users								X	X	X	
Enhanced F/W Download	X	X	X	X	X	X	X	X	X	X	
RTCP XR Requirements								X		X	
SNMP Enhancements	X	X	X	X	X	X	X	X	X	X	
CLID Enhancements	X	X	X	X	X	X	X	X	X	X	
Active Call Failover	X	X	X	X	X	X	X	X	X	X	
EM Enhancements								X	X	X	
DSP Peg Counter	X	X	X	X	X	X	X	X	X	X	
PEP Monitoring Tool	X	X	X	X	X	X	X	X	X	X	
Attenuator Bit on WLAN Handset	X	X	X	X	X	X	X	X	X	X	
Default Queue Management											TBD
Next Gen KEM	X	X	X	X	X	X	X	X	X	X	
Call Duration Timer	X	X	X	X	X	X	X	X	X	X	
Incalls Key Display	X	X	X	X	X	X	X	X	X	X	
SipNpmCallTraceMsgPrint	X	X	X	X	X	X	X	X	X	X	
NAC	X	X	X	X	X	X	X	X	X	X	
VLAN Filtering	X	X	X	X	X	X	X	X	X	X	
OTM 2.2	X	X	X	X	X	X	X	X	X	X	
EM 4.5								X	X	X	

New & Enhanced Software Packages and Applicable Systems

CS1000 R4.0 S/W Features	Software Package	Applicable System	Applicable Region
Alternate Routing	407	CS1000 (all)	Global

New License and Applicable Systems

None.

Compatibility Matrix

The following chart describes the releases of other Nortel Networks products that are compatible with Communication Server 1000 Release 4.5.

Aux Processor	11C - 81C 1000M	CS 1000S	CS 1000E	CS 1000B	SRG 1.0/SRG 50
Attendant Console					
PC Attendant Console	Supported	Supported	Supported	Supported	Not supported
Meridian Attendant PC software	Supported	Supported	Supported	Supported	Not supported
M2250 Attendant Console	Supported As Is	Supported As Is	Supported As Is	Supported As Is	Not supported
M2016S Digital Secure Sets					
M2016S Secure Set (NA Only)	Supported	Supported	Supported	Supported	Not supported
M3900 Sets					
M39xx	Supported	Supported	Supported	Supported	Not supported
System Management					
Optivity Telephony Manager	OTM 2.2	OTM 2.2	OTM 2.2	OTM 2.2	Required for main office configuration only
Telephony Manager	TM 3.0 (GA Sept '05)	TM 3.0 (GA Sept '05)	TM 3.0 (GA Sept '05)	TM 3.0 (GA Sept '05)	Required for main office configuration only
Element Manager	EM 4.5	EM 4.5	EM 4.5	EM 4.5	Required for main office configuration only
Messaging					
CallPilot	1.07 (with Service Update 4), 2.0, 2.02, SU03, 3.0	1.07 (with Service Update 4), 2.0, 2.02, SU03, 3.0	2.0, 2.02, SU03, 3.0	1.07 (with Service Update 4), 2.0, 2.02, SU03, 3.0	Support of SRG IP users via main office only. HW not supported directly on SRG unit.
HMS 400	Supported	Supported	Supported	Not Supported	Not Supported
CallPilot Mini	1.5A, 1.5B, 1.5C (not supported on Large Systems)	Not supported	Not supported	1.5A, 1.5B, 1.5C	Support of SRG IP users via main office only. HW not supported directly on SRG unit.
Meridian Mail Modular Option EC	12.12, 13.14	Not supported directly	Not supported directly	Not supported	Not supported
Meridian Mail Enhanced Card	12.12, 13.14	Not supported directly	Not supported directly	12.12, 13.14	Support of SRG IP users via main office only. HW not supported directly on SRG unit.
Companion					

Aux Processor	11C - 81C 1000M	CS 1000S	CS 1000E	CS 1000B	SRG 1.0/SRG 50
Companion - Manufacture Discontinued new system packages on 1 January 2003	3.xx -7.xx (7.xx required for Enhanced Capacity) Release 4.0 was the effective latest in EMEA	Not supported	Not supported	Not supported	Not supported
IP Clients					
Meridian DECT (DMC4/DMC8 version)	451000.xx / 470001.xx – SW embedded on IPE card	451000.xx / 470001.xx – SW embedded on IPE card	Dect Mobility card NOT supported in the IP Media Gateway due to dependencies on E1/BRI interfaces for clocking synchronization. Can be supported in IP Peer Gateways. Will deliver Wireless capability with i2210	451000.xx / 470001.xx – SW embedded on IPE card. Introducing Wireless Visitors.	Not supported
VoIP – 802.11 Wireless IP Gateway with Symbol	Application supported on ITG Pentium only 1.19 - Current 1.20 - Maintenance Up-issue (GA - Q2/04)	Application supported on ITG Pentium only.1.19 - Current, 1.20 - Maintenance Up-issue	Not supported	Not supported	Not supported
IP Phone 2210 / 2211	Supported	Supported	Supported	Supported	Supported
IP Phone 2001	Supported	Supported	Supported	Supported	Supported
IP Phone 2002	Supported	Supported	Supported	Supported	Supported
IP Phone 2004	Supported	Supported	Supported	Supported	Supported
Softphone 2050	Supported	Supported	Supported	Supported	Supported
Mobile Voice Client 2050	Supported	Supported	Supported	Supported	Supported
IP Phone 2033	Supported	Supported	Supported	Supported	Not supported
IP Phone 2007	GA date TBD	GA date TBD	GA date TBD	GA date TBD	SRG505 Supported
Remote Office Portfolio					
Remote Gateway 9150	1.4.1, 1.4.2, 1.5.2	1.4.1, 1.4.2, 1.5.2	Not Supported.	Not Supported	Not Supported
Remote Gateway 9110/9115/ IP Adaptor	1.4.1, 1.4.2, 1.5.2	1.4.1, 1.4.2, 1.5.2	Not Supported	Not Supported	Not Supported
Meridian Home Office MHO-II	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Mini Carrier Remote	Supported	Not Supported	Not Supported	Not Supported	Not Supported
Carrier Remote	Supported	Not Supported	Not Supported	Not Supported	Not Supported

Aux Processor	11C - 81C 1000M	CS 1000S	CS 1000E	CS 1000B	SRG 1.0/SRG 50
Fiber I	Supported	Not Supported	Not Supported	Not Supported	Not Supported
Fiber II	Supported	Not Supported	Not Supported	Not Supported	Not Supported
RPE (Remote Peripheral Equipment)	Not supported	Not supported	Not Supported	Not Supported	Not Supported
Retired Call Center Applications					
Meridian MAX [any platform]	Not supported	Not supported	Not supported	Not supported	Not supported
Network Administration Center [NAC]	Not supported	Not supported	Not supported	Not supported	Not supported
Meridian Customer Controlled Routing [MCCR]	Not supported	Not supported	Not supported	Not supported	Not supported
Meridian Link [Mlink]	Not supported	Not supported	Not supported	Not supported	Not supported
Symposium Link	Not supported	Not supported	Not supported	Not Supported	Not Supported
Symposium Desktop TAPI Service Provider for MCA (Meridian Communicator Adapter)	Not supported	Not supported	Not Supported	Not Supported	Not Supported
Meridian Link & MCCR Co-residency	Not supported	Not supported	Not supported	Not supported	Not supported
Symposium Call Center and CTI Applications					
Symposium TAPI Service Provider	3.0	3.0	3.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Symposium Agent	2.3	2.3	2.3	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.

Aux Processor	11C - 81C 1000M	CS 1000S	CS 1000E	CS 1000B	SRG 1.0/SRG 50
Symposium Agent Greeting	2.0	2.0	2.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Nortel Remote Agent Observe	1.0	1.0	1.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Meridian Link Services [MLS]	5.0	5.0	5.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Symposium Express Call Center [SECC]	4.2	4.2	4.2	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Symposium Call Center Server [SCCS] incl. Symposium Web Client	5.0	5.0	5.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Symposium Web Centre Portal [SWCP]	4.0	4.0	4.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.

Aux Processor	11C - 81C 1000M	CS 1000S	CS 1000E	CS 1000B	SRG 1.0/SRG 50
CTI.next (Nortel Networks Communcations Control Toolkit)	5.0	5.0	5.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Periphonics IVR Applications					
Periphonics IVR (VPS/is)	5.x	5.4.2	5.4.2	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Periphonics Integrated Package for Meridian Link (IPML) – VPS/is and MPS 100	2.0.4, 2.0.5	2.0.4, 2.0.5	2.0.4, 2.0.5	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Periphonics Multimedia Processing Server (MPS) 100	1.0	1.0	1.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Periphonics Multimedia Processing Server - MPS 500, MPS 1000	2.1	2.1	2.1	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Periphonics Integrated Package for Meridian Link (IPML) – MPS 500, MPS 1000	2.1	2.1	2.1	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Business Communications Manager					

Aux Processor	11C - 81C 1000M	CS 1000S	CS 1000E	CS 1000B	SRG 1.0/SRG 50
Business Communications Manager	3.5, 3.6, 3.7	3.5, 3.6, 3.7	3.5, 3.6, 3.7	3.5, 3.6, 3.7, BCM50 R1.0	SRG 1.0/SRG50 are both directly supported on CS 1000 Rel 4.5
MIXX Portfolio					
Integrated Call Assistant (MICA)	1.5	1.5	1.5	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Nortel Networks Integrated Conference Bridge (NNICB)	2.1, 3.0x, 4.0	2.1, 3.0x, 4.0	2.1, 3.0x, 4.0	2.1, 3.0x, 4.0	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Integrated Recorded Announcement (MIRAN)	2.0.16 and above	2.0.16 and above	2.0.16 and above	2.0.16 and above	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Nortel Networks Integrated Personal Call Director	1.0.3 and above, 2.0	1.0.3 and above, 2.0	1.0.3 and above, 2.0	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
Integrated Voice Services (MIVS)	1.17	1.17	1.17	Support of SBO IP users via Main Office only (Normal mode). HW not supported directly on SBO unit.	Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit.
MCS					
MCS 5100	2.0, 3.0, 3.5 when GA	2.0, 3.0, 3.5 when GA	3, 3.5 when GA	3, 3.5 when GA	not applicable
CS 2x00					
CS 2000	SN06.2, SN07, SN08, SN09	SN06.2, SN07, SN08, SN09	SN06.2, SN07, SN08, SN09	SN06.2, SN07, SN08, SN09	not applicable
CS 2100	SE06.2, SE07, SE08, SE09	SE06.2, SE07, SE08, SE09	SE06.2, SE07, SE08, SE09	SE06.2, SE07, SE08, SE09	not applicable

Memory Requirements

Large Systems 68060/68060E (CP3/4) Processors

System	Flash Memory Requirements	DRAM Memory Requirements	Total Memory
Option 51C/61C with CP3 (68060) or CP4 (68060E)	64 MB	64 MB	128 MB
Option 81/81C (with or without FNF)	64 MB	96 MB	160 MB

Large Systems Pentium® CP PII Processors

System	Flash Memory Requirements	DRAM Memory Requirements	Total Memory
Option 61C / CS1000M SG	N/A	256 MB	256 MB
Option 81C (with or without FNF) / CS1000M MG / CS1000E	N/A	256 MB	256 MB

Large Systems Pentium® CP PIV Processors

System	Flash Memory Requirements	DRAM Memory Requirements	Total Memory
Option 61C / CS1000M SG	N/A	512 MB	512 MB
Option 81C (only supports FNF no IGS) / CS1000M MG / CS1000E	N/A	512 MB	512 MB

Small Systems

System	Flash Memory Daughterboard Requirements	DRAM Memory Requirements
Option Cabinet or Chassis	32 MB Program Store + 16 MB	32 MB
Option 11C Chassis with MSC (provisional)	32 MB Program Store + 16 MB	16 MB*

* Note: systems with MSC will have a restricted configuration, tentatively
Less than 800 IP TNs (no TDM TNs)
Up to 128 TDM TNs
Less than 2000 Corporate Directory entries
Less than 4000 ESN Location Codes

Note: The SSC memory upgrade kit is available as NTDK19BA

Signaling Server

Communication Server Release 4.5 now required that all Signaling Servers have a minimum of 512 MB of memory. Signaling Servers with 512 MB memory were introduced in Succession 3.0, but prior to that time signaling servers were shipped with 256 MB. Users who have 256 MB signaling servers are required to upgrade their memory before the installation of Release 4.5 using the **NTDU80CA Upgrade Kit**.

Users may determine the amount of physical memory installed in their signalling Server using one of the following three options:

1) Issuing the command “sysPhysMemTop” in the VxWorks shell
2) During boot-up the BIOS prints the amount of detected memory
3) Check the label at the back of the chassis

Any system running PD/RL/CL with over 10,000 IP users are required to have to 1 GB of installed memory in the Signaling Server providing the PD/RL/CL function. Memory Upgrade Kits are available to upgrade to either 512 MB (one kit) or 1 GB (two kits).

System Software

System software is available from the following FTP links:

CS1000M & CS 1000E 4.50W S/W all processors except CP-PIV

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/0450W_I29_P115_Pre_ALL_iso.zip

Signaling Server and IP Peer S/W version 4.50.25

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/Sig_Serv_45025_iso.zip

CS1000M & CS 1000E 4.50W S/W for CP-PIV processor

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/0450W_I29_P115_Pre_CPP4.zip

4.50W – CP-PIV install instructions

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/READMECPP4_INSTALL.TXT

Install disk instructions for CP3 and CP4

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/READMECP3_4_INSTALL.TXT

Install disk instructions for CPP2

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/READMECPP_INSTALL.TXT

IP set phase I F/W 2004

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/0602B76.zip

IP set phase I F/W 2002

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/0603B76.zip

IP set phase II F/W- All

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/0604D98.zip

IP 2007set F/W

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/0621C22.zip

IP LINE Pentium and SA

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/IPL45025.zip

CS1000M-Cabinet and chassis- 4.50W for AP and EMEA

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/ap-emea_450W_r08.exe

CS1000S, MG1000S, MG1000T - 4.50W for AP and EMEA

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/ap-emea_S450W_r08.exe

CS1000B- 4.50W for Branch office all regions

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/branch-450W_r08.exe

CS1000M-Cabinet and chassis- 4.50W for NA and CALA

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/na-cala_450W_r10.exe

CS1000S, MG1000S, MG1000T - 4.50W for NA and CALA

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50W/na-cala_S450W_r08.exe

Please find the below procedure for creating install disks for CPT and CPP.

Procedure for Creating the install disk for CPT.

Requirements : 1.44MB floppy and software CD

Procedure:

1. Format the floppy.
2. Insert the software CD in CDROM drive. [For example we have taken 4.50C]
3. Change the directory in the CD to D:\0450_CMR.I29\target\cp3\f0
4. Copy the following files from the CD to floppy.

p < dir>
disk2421.sys
disk2521.sys
disk2621.sys
disk2821.sys
disk2921.sys
disk3021.sys
p directory will have two sub directories
install <dir> and
os <dir>
install <dir> will have install file in it
and os <dir> will have diskos file.

Procedure for making 81c CPP install disk.

Requirements : 1.44MB floppy and software CD

Procedure:

1. Insert the floppy .
2. Insert the software CD in CDROM drive. [For example we have taken 4.50C]
3. Change the directory in the CD to D:\0450_CMR.N33\target\p\install
4. Execute mkboot.bat (This batch files copies nvram.sys and bootrom.sys from CD to floppy)
5. Check the floppy for its contents.

Procedure to making an install Compact Flash for CP PIV.

Requirements: 512M Compact Flash Card, Win 95/98/NT/XP PC with floppy drive & CF Reader

Procedure:

1. Download the CP PIV S/W zip file to a PC.
2. Extract the .zip file contents to a **new empty** temporary directory on the PC
3. Insert the 512M CF card into the CF card reader in the PC (note: all existing files will be lost !)
4. Execute the mkbootrmd.bat from within the utilities menu – this will format the CF card.
5. Copy entire contents of PC temporary directory to the Compact Flash. (select all & copy)
6. Copy the keycode.kcd file from the PC to the CF card into the /keycode directory.
7. Use CPP4cnvrt.exe from within the utilities menu to copy an existing CPP2 customer database files from CPP2 backup floppy disk to the CF card.
8. Use this CF card to install the CPP4 system by installing it in the faceplate CF2 socket and resetting the pack from the faceplate reset switch.

(Observe ESD static handling precautions – Always wear your wrist strap !!)

Documentation

Beta versions of the NTPs listed may be downloaded by copying the links in the tables below into your browser, or following the instructions below:

```
DOCUMENTATION DOWNLOAD INSTRUCTIONS
-----------------------------------
Place the following line in your browser address bar (You must copy and
paste it into your browser address bar) to retrieve the updated
documentation list (List.txt) file:

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DO
CS/List.txt

Then replace "List.txt" in the ftp link with the file-name of the
document you require below to download the document file.
```

Basic Information	
Definition: Includes library navigation; system overview; and new release information documents.	
Library Navigator: Communication Server 1000 Release 4.5	553-3001-000
n/a	
Feature Listing	553-3001-011
n/a	
What's New for Communication Server 1000 Release 4.5	553-3001-015
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-015_P_0.04.pdf	
Communication Server 1000M and Meridian 1: Small System Overview	553-3011-010
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3011-010_P_2.03.pdf	
Communication Server 1000M and Meridian 1: Large System Overview	553-3021-010
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3021-010_P_2.04.pdf	
Communication Server 1000S: Overview	553-3031-010
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3031-010_P_2[1].03.pdf	
Communication Server 1000E: Overview	553-3041-010
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3041-010_P_1[1].04.pdf	

Planning and Engineering	
Definition: Includes tasks specific to planning, designing, and engineering the network (including the hardware and software); the network management system and internetworking products such as determining the right technology for the network, accessing the network performance requirements, and understanding hardware and software migration impacts; scheduling and ordering; sales application engineering; implementation planning; and traffic/capacity engineering. It also includes card and cabling descriptions.	
Communication Server 1000M and Meridian 1: Small System Planning and Engineering	553-3011-120
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3011-120_P_2.06.pdf	
Communication Server 1000M and Meridian 1: Large System Planning and Engineering	553-3021-120

Planning and Engineering	
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3021-120_P_2.05.pdf	
Communication Server 1000S: Planning and Engineering	553-3031-120
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3031-120_P_2[1].04.pdf	
Spares Planning	553-3001-153
n/a	
Equipment Identification	553-3001-154
n/a	
Product Compatibility	553-3001-156
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-156_P_15[1].02.pdf	
Data Networking for Voice over IP	553-3001-160
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-160_P_2[1].06.pdf	
Electronic Switched Network: Signaling and Transmission Guidelines	553-3001-180
n/a	
Transmission Parameters	553-3001-182
n/a	
Dialing Plan: Description	553-3001-183
n/a	
Multifrequency Compelled Signaling: Description, Hardware and Engineering	553-3001-184
n/a	
Communication Server 1000E: Planning and Engineering	553-3041-120
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3041-120_P_1[1].05.pdf	

Installation and Configuration	
Definition: Includes tasks performed during initial hardware and software installation; initial configuration; testing/commissioning of installation, acceptance, and signoff.	
Communication Server 1000E and Communication Server 1000M Large Systems: System Redundancy and Disaster Recovery	553-3001-307
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-307_P_1[1].03.pdf	
Communication Server 1000M and Meridian 1: Small System Installation and Configuration	553-3011-210
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3011-210_P_2.06.pdf	
Communication Server 1000M and Meridian 1: Large System Installation and Configuration	553-3021-210
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3021-210_P_2.04.pdf	
Communication Server 1000S: Installation and Configuration	553-3031-210
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3031-210_P_2[1].05.pdf	
ISDN Primary Rate Interface: Installation and Configuration	553-3001-201
n/a	
Circuit Card: Description and Installation	553-3001-211
n/a	
Signaling Server: Installation and Configuration	553-3001-212
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-212_P_2[1].10.pdf	
IP Peer Networking: Installation and Configuration	553-3001-213

ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-213_P_2[1].14.pdf	
Media Gateway 1000B: Installation and Configuration	553-3001-214
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-214_P_2[1].15.pdf	
ISDN Basic Rate Interface: Installation and Configuration	553-3001-218
n/a	
Optivity Telephony Manager: Installation and Configuration	553-3001-230
n/a	
Communication Server 1000E: Installation and Configuration	553-3041-210
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3041-210_P_2[1].03.pdf	

System Administration and Security	
Definition: Includes general system administration and security tasks such as creating user accounts and defining and optimizing system security. Includes OTM and Element Manager documents.	
System Management	553-3001-300
n/a	
System Security Management	553-3001-302
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-302_P_9.09.pdf	
Set Based Administration	553-3001-303
n/a	
Software Input/Output: Administration	553-3001-311
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-311_P_12.03.pdf	
Optivity Telephony Manager: System Administration	553-3001-330
n/a	
Using Optivity Telephony Manager Release 2.1 Telemanagement Applications	553-3001-331
n/a	
Element Manager	553-3001-332
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-332_P_2[1].05.pdf	

Feature Administration; Operations	
Definition: Includes tasks associated with feature and/or application installation, configuration, and activation (including telephones, terminals, consoles, etc.). Includes tasks specific to administering the database, generating reports, and related services.	
Nortel Networks WLAN IP Telephony: Installation and Configuration	553-3001-304
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-304_P_3[1].04.pdf	
Features and Services: Book 1 of 3 (A to C)	553-3001-306
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-306_P_13[1].03_Book_1.pdf	
Features and Services: Book 2 of 3 (D to M)	553-3001-306
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-306_P_13[1].03_Book_2.pdf	
Features and Services: Book 3 of 3 (N to Z)	553-3001-306
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-306_P_13[1].03_Book_3.pdf	
Emergency Services Access: Product Description and Administration	553-3001-313
n/a	
Attendant PC: Description, Installation, and Operation	553-3001-320
n/a	

Call Detail Recording: Description and Formats	553-3001-350
n/a	
Automatic Call Distribution: Feature Description	553-3001-351
n/a	
Office Data Administration System: Description and Engineering	553-3001-352
n/a	
Hospitality Features: Description and Operation	553-3001-353
n/a	
Fiber Remote IPE: Description, Installation, and Maintenance	553-3021-354
n/a	
Carrier Remote IPE: Description, Installation, and Maintenance	553-3021-355
n/a	
Fiber Remote Multi-IPE Interface: Description, Installation, and Maintenance	553-3021-356
n/a	
Mini-Carrier Remote: Description, Installation, and Maintenance	553-3001-357
n/a	
Meridian Integrated Conference Bridge Service Implementation Guide	553-3001-358
n/a	
Hospitality Integrated Voice Services: Service Implementation Guide	553-3001-359
n/a	
Integrated Recorded Announcer: Service Implementation Guide	553-3001-360
n/a	
Nortel Networks Integrated Call Director: Service Implementation Guide	553-3001-361
n/a	
Integrated Call Assistant: Service Implementation Guide	553-3001-362
n/a	
IP Trunk: Description, Installation and Operation	553-3001-363
n/a	
IP Line: Description, Installation, and Operation	553-3001-365
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-365_P_3[1].06.pdf	
Telephones and Consoles: Description, Installation, and Operation	553-3001-367
n/a	
ISDN Primary Rate Interface: Features	553-3001-369
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-369_P_2[1].03.pdf	
IP Phones: Description, Installation, and Operation	553-3001-368
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-368_P_6[1].00.pdf	
DECT: Description, Planning, Installation, and Operation	553-3001-370
n/a	
DASS2	553-3001-371
n/a	
DPNSS1	553-3001-372
n/a	
Basic Network features	553-3001-379

n/a	
ISDN Basic Rate Interface: Features	553-3001-380
n/a	

System Messages	
Definition: Includes system-generated error messages and traffic information.	
Software Input/Output: System Messages	553-3001-411
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-411_P_13.04.pdf	
Traffic Measurement: Formats and Output	553-3001-450
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-450_P_2[1].09.pdf	

Fault Management and General Maintenance	
Definition: Includes tasks specific to monitoring and optimizing performance measurements and fault data, troubleshooting and correcting faults and alarms, and responding to performance data such as thresholds, operational measurements, and statistics. Includes tasks specific to performing local and remote fixes. Includes input and output error message documents.	
Software Input/Output: Maintenance	553-3001-511
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-511_P_12.04.pdf	
ISDN Primary Rate Interface: Maintenance	553-3001-517
n/a	
ISDN Basic Rate Interface: Maintenance	553-3001-518
n/a	
Communication Server 1000M and Meridian 1: Small System Maintenance	553-3011-500
n/a	
Communication Server 1000M and Meridian 1: Large System Maintenance	553-3021-500
n/a	
Communication Server 1000S: Maintenance	553-3031-500
n/a	
Simple Network Management Protocol: Maintenance	553-3001-519
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3001-519_P_1[1].05.pdf	

Upgrades	
Definition: Includes tasks specific to planning, preparing, and performing physical hardware removal and installation, new software version upgrades (includes removal and installation). It also includes configuration and testing.	
Communication Server 1000M and Meridian 1: Small System Upgrade Procedures	553-3011-258
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3011-258_P_2.05.pdf	
Communication Server 1000M and Meridian 1: Large System Upgrade Procedures Book 1of 3	553-3021-258
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3021-258B1_P_2.07.pdf	
Communication Server 1000M and Meridian 1: Large System Upgrade Procedures Book 2 of 3	553-3021-258
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3021-258B2_P_2.07.pdf	

Communication Server 1000M and Meridian 1: Large System Upgrade Procedures Book 3 of 3	553-3021-258
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3021-258B3_P_2.07.pdf	
Communication Server 1000S: Upgrade Procedures	553-3031-258
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3031-258_P_2[1].03.pdf	
Communication Server 1000E: Upgrade Procedures	553-3041-258
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3041-258_P_1[1].08.pdf	
Communication Server 1000E: Maintenance	553-3041-500
ftp://www142.nortelnetworks.com/prerel/meridian/succession/X21/4.50Q/DOCS/553-3041-500_P_1[1].04.pdf	

PEP Dependency Lists

Dependency Lists may be available for download from the Enterprise Solutions PEP Library (ESPL). Please refer to the recommended PEPs listing for details.

Any up-issues of the PEP Dependency List for Release 4.50W software will be communicated and available via the Enterprise Solutions PEP Library for download.

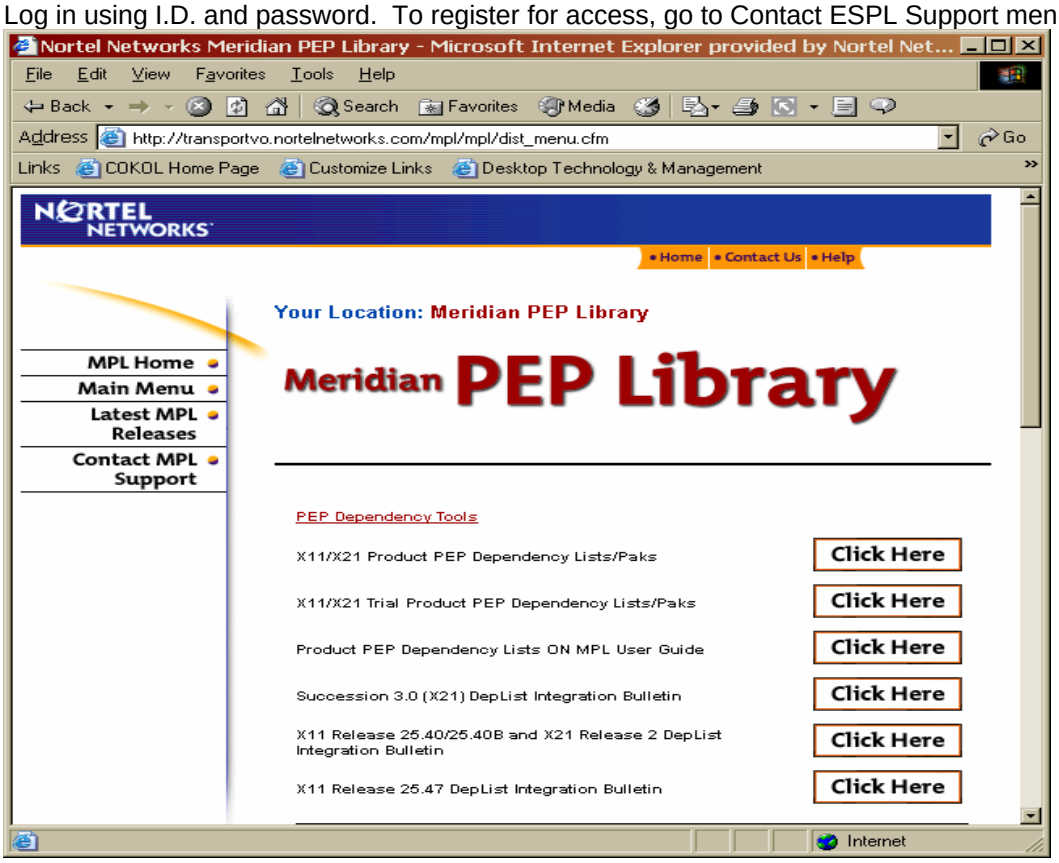
Please refer to the **Matrix Dependency List User Guide (X21 Rls 4.0 and higher)** located under the **PEP Dependency Tools** menu on the **Enterprise Solutions PEP Library.**

ESPL Access Requirements:

Distributors will require access to ESPL; as well as access to download DepLists from the Trial website.
(If you do not have access to the Trial DepLists, the X11/X21 Trial Product PEP Dependency Lists/Paks menu will not be visible from the ESPL website.)

http://www.nortel.com/espl

Log in using I.D. and password. To register for access, go to Contact ESPL Support menu.



- Choose the **Click Here** button at the X11/X21 Trial Product PEP Dependency Lists/Paks menu under PEP Dependency Tools.
- Select the Release Generic **X21** Release **04** Issue **50W**
- Select List Type: **All List Types**

- Select Machine Type: **SSC, CPT, CPP, or PP4 (CP PIV will be available as PP4)**
- Click **SUBMIT**

All the DepLists will be checked as default to be included in the zip file.

- Click Download ******

The next screen will identify all of the PEPs to be provided in the zip file.

- Choose **Click Here** to download the PEP's in a single Zip File Format
- At the screen prompt, click on Save and **rename the file to the standard 8.3 format** (ie. **450W_CPP.zip**) before saving to the floppy disk or PCMCIA (Compact Flash) card.

****Note:**
If other PEPs are required, click on the **Search** button (within the DepLists menu) to include user-selected PEPs in the zip file for download. You will note all the applicable PEPs for the release.

- Find the PEP's required and click on the Add to Zip File box. You will note the box cannot be checked if the PEP is already provided within the DepList.
  Go to bottom of screen and Click Here to add selected PEP's to Zip File. The individual PEPs chosen will be shown in a listing. You can return to Search List to add more PEPs or click To Return to Dependency List.
  Click on the Download Button. The next screen will provide the DepLists and user-selected PEPs for download.

Installing the DepLists to your System:

The PEP Enhancements provide new Matrix DepLists commands within Overlay 143 as well as the pdt interface.

- Insert your floppy disk or PCMCIA Card (which includes your DepList zip file) to your system.
- Log into the system
- Go to > ld 143

IF THE DEPLISTS WERE NOT INSTALLED AT TIME OF SYSTEM UPGRADE OR NEW SYSTEM INSTALL, USE THE 'MDP INSTALL' COMMAND.

Performing this activity involves the following steps:

1. Deactivates and unloads (removes from memory) all active PEPs on the Call server.
2. Erases the contents of default patch directory (/u/patch) on the Call server.
3. Copies the content of mdp distribution to the target system. If the install path contains a zip file, then the zip file is first extracted to a temporary directory (/u/patch/pch_tmp in case of CPP and CPT and a:/pch_tmp in case of SSC) before they get copied to the target system.
4. Loads and activates all available PEPs into memory on the Call server.

Note: *For a SIPE system, after performing the above operation it invokes ACPD to do the synchronization. For CS 1000E after performing the above operation on Call server, it does the same process for a selected IPMG that is enabled for ACPD. Then ACPD is invoked to update the rest of the IPMGs.*

Performing an Install of the DepLists to your System:

Copy the zip file downloaded from MPL to a floppy disk or PCMCIA Card **(saving the file name in the 8.3 naming format ie. 450W_ssc.zip).**

• Insert your floppy disk or PCMCIA Card (which includes your DepList zip file) to your system.
• Log into the system
• Go to Overlay 143 > ld 143
(for Install Command)

Type **.mdp install a:450W_ssc.zip** or .**mdp install f0/450WU_cpt.zip**
(.mdp install<path> Path = floppy disk or PCMCIA card and name of file)

```
Install will deactivate and remove all PEPs from the system,
and install new PEPs from the MDP distribution.
```

IF THE DEPLISTS HAVE ALREADY BEEN INSTALLED WITH YOUR SOFTWARE INSTALLATION AND YOU ARE UPDATING THE CURRENT DEPLISTS TO A NEW ISSUE PROVIDED TO ESPL, USE THE 'MDP REFRESH' COMMAND.

Performing this activity involves the following steps:

1) Determines the PEP deltas – The deltas fall into two categories:
   a) **Additions**:
      1) PEPs included in the MDP, but not currently installed on the target system
      2) PEPs included in the MDP, but an earlier version is currently installed on the target system.
   b) **Deletions**:
      1) PEPs installed on the target system as part of a DepList, but not included in an upissue of the same DepList.
      2) PEPs currently installed on the target system where a newer version is included in the MDP.

2) The PEPs that are identified in the additions list are checked for conflicts with the existing PEPs present in the target system.
3) These deltas are then applied to the system. The PEPs in the deletions list are deactivated and unloaded from the memory and removed from the /u/patch and the deplists are removed from the /u/patch/deplist directory. The PEPs in the additions list are copied to the /u/patch directory and loaded and activated in the system and the deplists are copied to the /u/patch/deplist directory.

Installing Dependency Lists using Element Manager

• For SSC, PCMCIA card is required in drive A:. (Or floppy disk for CPT or CPP systems)
• The ZIP file downloaded from ESPL is to be located on the same PC that EM is being accessed from, and the file must be renamed to comply with 8.3 format required by the Call Server.
• In Element Manager, from the navigator, select "Patching" -> "Call Server".
• In Element Manager, from the main window, select "Dependency Lists".
• In Element Manager, from the "Dependency List Settings" located near the top of the main window, "Browse" to the ZIP File.
• In Element Manager, select "Load and Activate". This will transfer the Zip file to the Call Server and execute a "mdp refresh". No additional action is required.

Applicable PEPs

The following lists of patches are be required for X2104.50W trial sites. This list *may* not represent the total number of patches applicable to the release, and as such previously installed patches may still be required. Not all problems listed are new with X2104.50W, but they were deemed service affecting and as such patches are provided.

Call Server PEPs

Patch #	Type	Description	Applicability
MPLR20698	**Corrective**	Beta / Richardson / Switch INI	**Mandatory. SSC Only**
MPLR20702	**Corrective**	Incorrect pad values for DTI<->VTRK/IPT tandem call	**Mandatory.**

*Customers should check MPL to ensure they have the latest available DEPLIST.

Signaling Server PEPs

Patch #	Type	Description	Applicability
MPLR20704	**Corrective**	Wrong language assigned to an IP phone after disiTPS.	**Mandatory.**
MPLR20716	**Corrective**	CLID is sent as anonymous from CS 1000 to MCS 5100 vis SIP	**Mandatory.**

Technical Advisements

Notes for upgrading i2007 Sets

These steps will apply in the case of any future set introduction as well. Assuming that the customer is to be contacted by Nortel when the new set type is available, the following steps are to be followed.

1. Login to Element Manager
2. Navigate to the *"IP Telephony Firmware Upgrade"* page by selecting *"IP Telephony > Software > Telephony Firmware"* from the navigator.

Retrieve the latest Firmware Currency file from Nortel as follows:

1. From the *"IP Telephony Firmware Upgrade"* page, click on the *"Refresh Currency File"* button. This will load the *"Refresh Currency Information"* page.

2. From the *"Refresh Currency Information"* page, click on the *"Download currency file"* link. This will initiate the retrieval of *"FirmwareCurrency.zip"* from Nortel. Save this file to your desktop.
3. Unzip the contents of *"FirmwareCurrency.zip"* to your desktop. The archive should contain one file, *"currency.xml"*
4. From the *"Refresh Currency Information"* page, click on the *"Browse"* button and locate *"currency.xml"* and press the *"Upload"* button. After the currency file is uploaded, you will be returned to the *"IP Telephony Firmware Upgrade"* page.

The new set type will now be highlighted in the "Firmware Versions table. Retrieve the firmware file for the new set type from Nortel as follows:

1. In the *"IP Telephony Firmware Upgrade"* page, locate the new set type in the *"Firmware Versions"* table.
2. Click on the hyperlink in the *"Latest Firmware Version"* column of the *"Firmware Versions"* table. This will load the *"Download Firmware File"* page.
3. From the *"Download Firmware File"* page, click on the *"Download firmware file"* link. This will initiate the retrieval of an archive containing the desired firmware file from Nortel. Save this file to your desktop.
4. Unzip the contents of this archive to your desktop. The archive should contain one file, with the extension *".bin"*.
5. From the *"Download Firmware File"* page, click on the *"Browse"* button and locate firmware file and press the *"Upload"* button. After the firmware file is uploaded, you will be returned to the *"IP Telephony Firmware Upgrade"* page.

At this point, the set firmware for the new set type is available for distribution. Select the check box associated with the new set type and press the distribute button in order to proceed.

Loadware File Errors When Upgrading CP II from CD ROM

When upgrading a CP II system from CD ROM, the following errors may be displayed:

INST0012 Unable to open file ""

errNo : 0xc0007

Please press <CR> when ready ...

>Copying "" to "/p/hidir/cnib.db" -

INST0012 Unable to open file ""

errNo : 0xc0007

Please press <CR> when ready ...

>Copying "" to "/p/hidir/cp.db" -

INST0012 Unable to open file ""

errNo : 0xc0007

Please press <CR> when ready ...

>Copying "" to "/p/hidir/ipb.db" -

INST0012 Unable to open file ""

These error messages are related to disk access timing, and will not affect the installation. The software will be loaded correctly and these messages can be disregarded.

PDT 1 and PDT 2 passwords will be set to default when upgrading CPP 2 or CPP4

On CPP2 systems and SS after upgrade to R4.5, PDT passwords are reset to system default values. Once the upgrade is complete, the user can alter the PDT passwords to non-default values and these changes are propagated to all SS and MC when an EDD is issued.

Password Configurations

After upgrade to R4.5 passwords are converted to UPPERCASE, but can be altered to mixed case thereafter.

OTM - passwords must always be entered in UPPERCASE. After password change, OTM passwords must still be entered in UPPERCASE.

NRS fails to resolve SPN calls

login to NRSM
1. save service domain
-> Configuration -> set Standby DB View
-> Service Domains
In "View Service Domain Property"
click "Save" button"
2. Cutover & commit
-> Tools -> Database Actions
Select "Cutover & commit"
click "submit" button

PD Backup

Users are advised to backup the PD info off of the signaling server itself or to a floppy disk prior to the cutover.

Campus Redundancy & Cisco L2 Switches

Customers using Cisco L2 switches may experience problems with the HSP. Based on the initial investigation, the HSP port goes down and makes the connected L2 switch's port down. It takes longer for L2 switch's port to come back up and the HSP time out timing, thus the two CPUs wouldn't talk to each other any more. On Cisco L2 switches, spanning tree is turned on by default,

and when switches or ports are boot up, it takes about 40 second to go through Blocking, Listening, Learning and Forwarding state. By enabling the spanning tree port fast feature on the L2 switch port, which brings up the port to forwarding state right away when the port tries to come up, that takes no longer than 10 seconds.

Transferring PBX Database to OTM

1. Login to the PBX.
2. Perform EDD in LD 43.
3. Copy the backed files to a PCMCIA card.
4. OR Perform manual FTP of the backed up files to the OTM server.

Workaround for Uploading M1 Corporate directory

1. Launch Corporate Directory application in OTM.
2. Invoke the properties for M1 Corporate Directory.
3. Disable the option to automatically upload the report to PBX.
4. Generate the report.
5. Rename the file to CPDIRx.csv, where x is the customer number.
6. FTP the report generated manually to the PBX under the path C:\u\db.
    a. FTP to the PBX. (ftp xxx.xxx.xxx.xxx, where xxx.xxx.xxx.xxx is the IP of the PBX)
    b. Change directory to C:\u\db.
    c. Type mput CPDIRx.csv
    d. Close the FTP connection when the transfer is complete.

Configuring IPL4.5 card

Configure the IPLine4.5 card through Element Management or CLI. Configuration is possible via OTM as long as the OTM PEP is applied as described in the section of PEPs.

Set Based Adminstrator

(LAPW - SBA) are not converted properly from Release 3.0 & 4.0 to 4.50C. You need to recreate the SBAs in LD17 and do a "EDD CLR".

Signaling Server Upgrade

IP configurations will not automatically be saved and restored during the upgrade process. Users are advised to write down the IP addresses for the ELAN and Call Server. The remaining IP addresses can be restored using Element Manager.

Signaling Server Downgrade

If users should have to fall back to the previous release on the signaling server, the following steps are required:

1. Put the 4.50.19 CD in the CD drive. Reboot SS from CD.

2. Go to Tools menu, select the choice which says preparing the BootRom / BIOS for previous release. You should see a return message.

3. Put the 4.00.55 CD into the drive. Reboot SS from CD.

4. 4.0 SS install program should detect this as a new install, due to older version of VxWorks. Follow the usual procedure to partition / test the drive and then start complete installation.

Password Conversion on Upgrade

Call server upgrades to 4.5Q from 4.0 and below - all lower and mixed case passwords are converted to all upper case.

CS1000S Centralized Software Upgrade (CSD) to Media Gateways

If a site is running 4.0 or below with a non-default PDT password, CSD will fail after the main cabinet SSC is upgraded to 4.50Q. Change the PDT2 password back to default, reboot the main cab SSC and CSD will occur properly to all media gateways. This issue doesn't apply to CS1000E CSD, since the CPP HD is wiped as re-partitioning for VxWorks 5.5 upgrade, and it will start with default PDT passwords.

Cannot import Node Configuration into EM

Cannot import Signaling Server or Media Card node files via EM. Impact the ability to easily add any SS and media card as a new node by importing the node file. Manually add a new node via EM by browsing to IP Telephony -> Nodes: Servers, Media Cards -> Configuration web page. Then click New Node to Add and supply all server information. Existing nodes are not affected since the data is converted from pre-4.5 database after upgrade.

Disk Drive Partitioning

The Core Disk Drives will be repartitioned during the upgrade to 4.50C. If a user needs to take the upgraded core back to an earlier release from 4.50C, the following will take place:

- For CPPII, the 4.0 install disk detects the wrong partitions and will cause the hard drive to be repartitioned correctly for the earlier release.
- For Signaling Server, on the **4.5** CD, there is a utility to repartition the drive to the format of the previous release. You then put in the earlier Signaling Server disk and do the install.
- Small Systems do no repartition the Hard Disk during the upgrade to 4.5

PDT Password

Security passwords will not be synchronized between the Call Server and the Signaling Server. Configuration is supported through a transition state, however, not recommended to leave in this configuration.

IP Trunk

All releases of IP Trunk are supported with Release 4.5. There is no dependency between Release 4.5 and the IP Trunk software.

DEPLIST Installation

Please note that the DEPLIST is not included with the downloaded software image and needs to be downloaded separately. The DEPLIST will not install if selected via the install menu.

CPP Reformatting

Installing on CPP machines will reformat and repartition the drives. The install boot disk does the first portion and then reboots the system again, then goes into the Install Menu

LNAME option removed

The LNAME option has been removed. As of Release 4.5, all passwords must include the login name. With software releases previous to R4.5, the administrator, logged in with the PWD2 password, could optionally associate a login name with PWD1, PWD2, and LAPW accounts, using the LNAME_OPTION. In R4.0 the LNAME_OPTION default was changed to Y, however it could be changed to N in LD17.

In release 4.0, when the value of LNAME_OPTION was N, users needed only a password to be authenticated to the system. When the value of LNAME_OPTION was Y, the authentication was more secure because users must provide a valid login name and password instead of just a password. This last approach is now the only operational mode, as of release 4.5 and moving forward.

Passwords and External Devices

Release 4.5 now allows for creation of passwords with upper and lower case characters As a result any user account created in overlay 17 that is destined to be used for external device communications with the CS1000 system (i.e. OTM, Net6) are required to have passwords created with no lower case characters.

CPP IV Specific Advisements

ESD Warning: The CP PIV BETA packs are sensitive to ESD (Electrostatic discharge) associated with the insert or remove of the faceplate compact flash card. You **must** use a wrist strap and follow ESD precautions when handling, inserting, or removing the Compact Flash Card. This will be resolved with an updated version of the pack prior to GA.

If you do not properly ground yourself and the CP PIV pack is affected by an ESD discharge on CF card insert, it may result in a cold reboot of the CP PIV pack. If it enters this state you must remove and re-insert the battery on the pack to reset the CMOS parameters.

H/W Minimum Vintage: The minimum vintage of pack for loading 4.50Q S/W is Rls 1.0 H/W that includes CPLD load 1.4 and BIOS version 1.1. Early prototype units used within Nortel may need upgrades. All packs supplied to BETA sites will have this accounted for.

Compact Flash - In 4.50U there are a few known incompatibilities with certain compact flash vendors, these are addressed in later S/W releases. For 4.50U please only use the supplied Sandisk CF cards.

CR's: Refer to CR advisements below for Q01132423, Q01113608

CR Advisements

Problem Category	U of Oklahoma/BETA CS1000 4.5/SCCS 5.0/CLID changes depending if on/off camp Ref: **Q01183788** **PATCH: NONE**
Date reported	29-Jul-05
Platform impacted	Call Server
Software reported	4.50
Description of incident	Calls to CDN get different Caller ID between internal and external calls.
Impact on system operation	
Workaround	This problem is due to incorrect configuration for the CDN . The display for external call if we want to have the CDN as mailbox user , change the CMB prompt of the CDN to YES. This prompt default it would be NO. Normally the display will have the route DN only. When this prompt is made to YES, the display will have the CDN.