

# **Release 25.40B Up-Issue (PSWV 77)**

**M3902, M3903 Firmware 8.0**

**M3904, M3905 Firmware 8.3**

## **Beta Release Bulletin (BRB) for 25.40Y Version 1.0**

For a full description of all relevant information associated with X11 Release 25.40 please refer to the General Release Bulletin (GRB), P0941098, available on the Electronic Software Distribution website. This GRB is also shipped with all X11 Release 25.40 orders. The software web site is located at: <http://www.nortelnetworks.com>, Under the Support banner - Choose Downloads menu.

Choose applicable product from the pulldown product listing (ie: Meridian 1 Option 11C/11C Mini; Meridian 1 Option 51C, Option 61C, Option 81C) found under the 'View by a Product' option at the blue 'Products Selection' banner. You must **log in** first in order to download software. Registration is required in order to access this site.

**Important**

**Please read all included advisements, requirements, and enhancements both common, and pertinent to your machine type prior to loading this software.**

## Release 25.40Y Beta Releases Notes

The following patches are manufacture delivered for Release 25.40Y Small System sites:

PRS # /CR#	Title	Patch	Included with 25.40Y Small Systems
<b>MP15693/ Q0035133 1</b>	During data dump a BUG7058 occurs. This may or may not lead to an ini. This only applies only to Option 11C.	<b>MPLR16094</b>	Yes
<b>MP16797/ Q0035108 1</b>	Software watchdog timeout (SWD) during task sl1	<b>MPLR16095</b>	Yes SIPE only
<b>MP16163/ Q0035188 3</b>	When a call from an analog Modem is established or received, after certain time the call is cut off.	<b>MPLR16280</b>	Yes
<b>Q0048512 7</b>	When doing a New or Change in LD 11 with any type of 3900 set get a INI000 00000024.	<b>MPLR16603</b>	Yes

The following patches are mandatory for Beta Release 25.40Y:

PRS # /CR#	Title	Patch	Applicable to CP2,3,4 machine types	Applicable to CPP/FNF machine types
<b>MP17264 / Q0034624 1</b>	Acquired M390X sets in a Symposium or Symposium Express environment only allowing one conference or transfer operation. If the problem already exists on a customer site, INI is required after patch is installed. If the patch is installed before the sets are used at all, or during an upgrade, then an INI is not needed.	<b>MPLR16216</b>	Yes	Yes
<b>MP18411/ Q0035020 7</b>	INI F due to failure to get pdata	<b>MPLR16353</b>	Yes	Yes
<b>MP18146/ Q0035040 7</b>	Switch freezes. Task tSL1 is suspended after a software watchdog OR task tSBB is continuously restarted	<b>MPLR16354</b>	Yes	Yes
<b>Q0048512 7</b>	When doing a New or Change in LD 11 with any type of 3900 set get a INI000 00000024.	<b>MPLR16603</b>	Yes	

**The following workarounds applied to Release 25.40 and still apply to Beta Release 25.40Y:**

PRS #/CR#	Product	Applicable to 25.40 small systems	Applicable to 25.40 CP2,3,4 sytems	Applicable to 25.40 CP PII systems	Workaround
<b>MP12512/ Q00351672</b>	M5317 Call Forward (CFW) and transfer	Yes	Yes	Yes	For CFW on a BRI set (M5317) press 00 and clear and enter the number required for CFW and press the CFW key multiple times until the "last forward" appears, and then press forward. For transfer use the conference feature and then dropout.

**The following workarounds applied to Release 25.40 and still apply to Beta Release 25.40Y with Option 11C /Mini and Option 11C IP Expansion:**

PRS #/CR#	Product	Description	Impact	Workaround
<b>MP14089/ Q00349098</b>	TMDI, PRI	Digital trunks on the IP expansion cabinets occasionally do not come into service after system reboot/restart.	Digital trunks are down	Manually disable the trunk loop and then enable the loop

**The following problems have been addressed and “fixes” integrated in Release 25.40Y S/W:**

<b><u>PATCH #</u></b>	<b><u>CR I.D.</u></b>	<b><u>PRS I.D.</u></b>	<b><u>PRODUCT</u></b>	<b><u>PROBLEM CORRECTED</u></b>
MPLR16166	Q00338091	MP17110	M3900	The On Hook Default Path does not work when the handsfree class of service is denied.
MPLR16245	Q00351811	MP17503	M3900	When an ACD set is configured with the Force Answer feature enabled, the warning tone is missing when the handset is on hook and the call is force answered.
MPLR16272	Q00336754	MP17347	M3900	When the Night Service Select Mode is enabled the display does not read 'Day/Night/Transition mode selected'.
MPLR16273	Q00338146	MP17507	M3900	When the user parks a call the display is not updated correctly.
MPLR16304	Q00351262	MP17833	M3900	Firmware download to 3904 sets halts with no error code given and produces bug4042 errors.
MPLR16324	Q00351264	MP17942	M3900	A slow download can result in the appearance of an IOD51 message during a firmware download attempt.
MPLR16227	Q00351645	MP17486	IP Phone	When there is an ITGL card reboot or an EDD the link comes up and the EDD finishes but the IP addresses are not aligned.
MPLR16271	Q00349387	MP17431	CPP	A FIJI reset after a power up causes the clock to disappear resulting in BERR and FHW00 errors.
MPLR16305	Q00349399	MP17923	IP Phone	When a CPP machine is upgraded configured zones disappear.
MPLR16356	Q00349409	MP18470	CPP	When a split command is issued from the active side, the inactive CP does not sysload.

<b><u>PATCH #</u></b>	<b><u>CR I.D.</u></b>	<b><u>PRS I.D.</u></b>	<b><u>PRODUCT</u></b>	<b><u>PROBLEM CORRECTED</u></b>
MPLR16289	Q00349401	MP17318/  MP17946	CPP  CPP	BUG2054 is displayed each time a new message is send to the already full message queue where the customer sees a BUG scrolling on the TTY and doesn't know the impact of it.  After an HSP down, the system failed to disk sync. The HSP goes down again after the memory sync. The net result is that the system completed memory sync but failed to start disc sync.
MPLR16380	Q00349404	MP18082	CPP	The PBX gets a SYS000 000800 error message during midnights.
MPLR16208	Q00351086	MP17179	SIPE	The TMDI card in a SIPE expansion cabinet does not come up after a cold start.
MPLR16317	Q00351626	MP17073	IP PHONE	If the 11C Main Cabinet/Chassis fails during a power failure and an Expansion Cabinet/Chassis switches to survival mode the ITG Line card cannot establish a link to the ELAN address of the Expansion Cabinet/Chassis. This results in IP sets that cannot make calls other than to sets on the same card.
MPLR16276	Q00351382	MP17136	Trunks	Specific to Japan AnalogDID trunks a caller from the PSTN hears a busy tone.
MPLR16157	Q00349494	MP16936	SIPE	An IP connected system can be initialized due to network instability.
MPLR16233	Q00338116	MP17239	SIPE	The 100BaseT driver checks the wrong memory location for the MAC_CRC_ERROR status byte.
MPLR16347	Q00349283	MP16218	Features	The Inventory Generate Sets feature does not print out complete ID's for all digital set types.
MPLR16347	Q00351432	MP18948	Features	The CPP II machine cannot completely print out ID numbers for network shelves and IPE shelves.

<b><u>PATCH #</u></b>	<b><u>CR I.D.</u></b>	<b><u>PRS I.D.</u></b>	<b><u>PRODUCT</u></b>	<b><u>PROBLEM CORRECTED</u></b>
MPLR16337	Q00351630	MP17275	IP	During extended time traffic testing when attempting a 24 channel conference (4 groups of 6 party) some of the calls in one group are dropped.
MPLR16242	Q00351525	MP17461	IP	There is no connection between the ITG card and the Main CPU caused by RUDP not handling NAK's on an optimum fashion.
MPLR16164	Q00349197	MP12815	SCCS/SECC	HOLD cannot be used on a softphone when using s-link with a Genesys tserver.
MPLR15829	Q00349320	MP10284	CallPilot	When CDN calls are being rerouted from Symposium to a CallPilot Phantom DN and an ACD Agent is unavailable the switch sends incorrect information to the CallPilot.
MPLR16084	Q00351965	MP14138	CallPilot	A trackable billable N record is not generated when a call is transferred by an attendant to a set that is forwarded to CallPilot.
MPLR13015	Q00351652	MP09252	EuroNet	Calls are blocked if they are from GSM phones with a data adapter calling into a 2 Node system going from the EDSS1 over the MCDN
MPLR16179	Q00350099	MP17224	EuroNet	Digits are missing on set display after a QSIG transfer and therefore cannot tell where the call is originating from.
MPLR16183	Q00353378	MP17225	EuroNet	DCS sets cannot be put into the Group Hunt List.
MPLR15860	Q00349211	MP15630	Features	An incorrect high value of calls waiting are being provided in a Networked Meridian Max scenario causing confusion and misleading reporting.
MPLR16171	Q00351622	MP16999	IP	In high packet loss testing the TCP link was seen starting before RUDP which can cause a warmstart.
MPLR16374	Q00348833	MP17114	CPP	An error message when logging into PDT causes access to PDT to be unavailable.

<b><u>PATCH #</u></b>	<b><u>CR I.D.</u></b>	<b><u>PRS I.D.</u></b>	<b><u>PRODUCT</u></b>	<b><u>PROBLEM CORRECTED</u></b>
MPLR16431	Q00349410/  Q00349427	MP18529/  MP18891	CPP  CPP	Bug messages fill up the report log on the CPP inactive side when in redundant mode causing a loss of visibility to critical error messages.  The health on a CPP machines fluctuates on the inactive side because the ethernet port is randomly taken out of service and put back in service.
N/A	Q00351433	MP19137	CPP	Unprocessed error messages are lost after a sysload which makes it difficult to determine the cause of the sysload due to a VXWorks loader problem.
MPLR16416	Q00351314	MP18419	THORAPLA-TFORM	Corrupted data in the INET.DB file causes loss of IP phone functionality and also impacts the functioning of Symposium and CallPilot.
MPLR16508	Q00435576	N/A	CALL REGISTER & CALL FORWARD	When a Phase 3 Taurus set deactivates a CFW, a CALLREGISTER is lost. Eventually, the machine has no more CALLREGISTERS and an INI is necessary to recover them.
MPLR16500	Q00351402	MP19038	ADMIN	The LFFD prompt is missing in LD 15 causing CDB corruption which makes use of the DSS9000 in standard mode unavailable.
N/A	Q00349419	MP18694	CPP/THOR	When an ISSP command is attempted in LD22 on CPP machines, it causes the switch to INI.
N/A	Q00349417	MP18692	CPP	An INI occurs on a CPP machine when enabling or disabling superloop LD 30.
N/A	Q00416774	N/A	ELAN	Use of extremely long username and password (18 characters or more) will cause a Bus Error and a task restart of the FTP server task and a subsequent warm start or "hanging" of the FTP server.
N/A	Q00415949	N/A	CPP	There is loss of call processing during a warm start caused by erroneous messages to the Real Time Clock.
N/A	Q00349344	MP19281	CALLPROC	Failure of the CPP compiler to initialize local variables before use causes Bus Errors and data corruption.
MPLR16490	Q00350117	MP19166	ISDN	Failure of the NDS_HANDLER to initialize some variables will cause Bus Errors and INI's.



With the introduction of Release 25.40 patches or workarounds to address the various problems in this list were available through the Small Systems ECN process and manufacture delivered and/or through the MDCS disk and/or through the Dependency List process and/or generally available from the PEP Library. With Release 25.40Y S/W patches to address these particular problems are no longer required.

## System Management and Release 25.40Y Beta Trials

As with Release 25.40 OTM 1.2 will be the concurrent system management tool for X11 Release 25.40Y.

All X11 25.40Y Beta sites using the OTM system management tool should be running OTM 1.2 software.

**As with Release 25.40 MAT is not a supported system management tool for Release 25.40Y.**

Customers that utilize 3rd party management systems such as Switchview, must ensure that the Management System is compatible with Release 25 software.

MAT is not supported on Release 25.40 or later.

OTM 1.2 supports Generic X11 Release 25.40 and later associated features.

## Documentation

Documentation to be used for 25.40Y Beta Trial S/W as well as the final Release 25.40B GA S/W is the generally available NTP CD-ROM Meridian Electronic Library (MERL) Rls 25.40, NTLH19AC/A0859697, currently shipped with Rls 25.40 orders. Electronic access to the documents included in this CD is available as follows:

1. Access Nortel Networks web page: : <http://www.nortelnetworks.com>
2. Under Products, Services & Solutions Click on Technical Documentation
4. Under Select a Product choose Meridian 1 Option 51C, Option 61C, Option 81C
5. Under Technical Product Documentation (after a free registration for Helmsman Express) click "ADD" beside Documentation for Meridian 1 Release 25.40.

## ISM Parameters And Packages Changes

There are no changes to ISM Parameters between 25.40 and 25.40Y.

## Keycodes

New keycodes will NOT be required to upgrade from 25.40 to 25.40Y or to any other version of the Release 25.40B Beta and GA versions of the S/W.

**The remainder of this document, Small and Large System Advisements, are exactly the same as those included with the Release 25.40 program. Key items have been included here for easy reference.**

For a full description of all relevant information associated with X11 Release 25.40 please refer to the General Release Bulletin (GRB), P0941098, available on the Electronic Software Distribution website. This GRB is also shipped with all X11 Release 25.40 orders. The software web site is located at: <http://www.nortelnetworks.com>, Under the Support banner - Choose Downloads menu.

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# System Advisements

In this document, Small Systems refer to the Option 11C and Option 11C Mini. Large Systems refer to the Option 51C, 61C, 81 and 81C machine types. System Advisements are applicable to all System Types.

## Systems Supported

Generic X11 Release 25 supports the following machine types:

- Meridian 1 Option 11C
- Meridian 1 Option 11C Mini
- Meridian 1 Options 51C\*, 61C, 81, and 81C
- Meridian 1 Option 81C system equipped with Call Processor PII

\* Note: As of February 2001 the Option 51C will no longer be sold as a new system, however upgrade to 25.40 will be offered to existing Opt. 51C systems.

## Real Time Impact of Release 25

The real time impact of Release 25 is shown in the following table. These values are based on the average basic calls measurements in combination with the real time impact on some basic market models which make extensive use of key features, such as: CPND, CDR, digital trunking, digital sets.

Machine type	24 to25
11C	6%
CP2: (51C/61C/81/81C)	16%
CP3: (51C/61C/81/81C)	6%
CP4: (51C/61C/81/81C)	6%

  

CP4 to CP PII improvement in real time capacity	
CP4 to CP PII: (Options 51C/61C/81/81C)	210% (= 3.1X)

## Recommended Maximum Call Register Counts

The following tables detail the recommended Maximum Call Register Counts for Release 25.40 Call Registers are set in LD. 17, at the "NCR" prompt, after answering "Yes" to the PARM prompt

	11C	51C CP2	51C CP3&4
<b>Recommended Maximum Call Register Count</b>	1750	1500	2000

	61C CP2	61C CP3&4
<b>Recommended Maximum Call Register Count</b>	3000	4000

	<b>81/81C CP2 W/ or W/o NCE</b>	<b>81/81C CP3&amp;4 W/ or W/o NCE</b>	<b>81C CP PII with 5 or fewer groups</b>	<b>81C CP PII with 6 to 8 groups</b>
<b>Recommended Maximum Call Register Count</b>	7500	10000	20000	25000

## X11 Software and PSDL Version Identification

The PSWV version that is installed on the system will print when the ISS command is initiated in LD 22. A sample printout for small system with the PSWV identification and patch installed is as follows:

This is new information provided in Rls 25.30 and later, reissue of Rls 25.15 and reissue of Rls 24C(25.08)

```
REQ issp
MAIN CAB
VERSION 2111
RELEASE 25
ISSUE 40 Z +
```

### IN-SERVICE PATCHES : 9

PAT#	PRS	PATCH REF #	NAME	DATE	FILENAME
00	Q351331	MPLR16094A	MPLR16094A	08/06/02	P16094A1.11C
01	Q351331	MPLR16094B	mplr16094	08/06/02	P16094B1.11C
02	Q351331	MPLR16094C	core	08/06/02	P16094C1.11C
03	Q351331	MPLR16094D	MPLR16094	08/06/02	p16094d1.11c
04	Q351081	MPLR16095	mplr16095	08/06/02	p16095a1.11c
05	Q351883	MPLR16280A	MPLR16280	08/06/02	p16280a1.11c
06	Q351883	MPLR16280B	mplr16280	08/06/02	p16280b1.11c
07	Q351883	MPLR16280C	CORE	08/06/02	p16280c1.11c
08	Q435576	MPLR16508	CORE	08/06/02	p16508_2.11C

The following print command is also available in order to get a complete list of all S/W versions of the PSDL which is part of the X11 Software:

```
REQ prt
TYPE pswv
PSWV VERSION: PSWV 77
```

```
MISP: S/W VERSION NUMBERS: 71
BRIL: S/W VERSION NUMBERS: 82
BRIT: S/W VERSION NUMBERS: 81
MSDL: S/W VERSION NUMBERS: 71
```

```
.....
3902: S/W VERSION NUMBERS: 80
3903: S/W VERSION NUMBERS: 80
3904: S/W VERSION NUMBERS: 83
3905: S/W VERSION NUMBERS: 83
```

## System Security

Nortel Networks strongly recommends changing the default system passwords for both Meridian 1 and Meridian Mail systems during initial installation. These passwords should be changed again when the system is placed in active service. These actions will help deter unauthorized system access which can result in toll fraud or system abuse. For more information, please refer to the System Security Management NTP (NTLH10AA - A0804757) included with new system or system upgrade shipments.

## Audit routine

As in the case of previous software releases, it is recommended that the Audit routine (Overlay 44) be specified as the background diagnostic to optimize the system capability to deal with call processing anomalies, especially in large line size and high traffic configurations.

# Small System Advisements

The following advisements are for small systems (Option 11C and 11C Mini) only.

## Small System Memory Requirements for Release 25

### Option 11C Mini

The Option 11C Mini comes with 48Mb Total Memory (32 Mb Program Store and 16 Mb C-Drive space) on the Mini System Controller in order to run Release 25 software. The supported Release 25 System Controller card for Option 11C Mini:

- NTDK97AB or higher (48 Meg - no memory upgrade needed) Mini System Controller (MSC)
- NTDK20EA or higher Small System Controller (SSC) for Option 11C Mini main and IP Expansion chassis when using IP Expansion.(25.30 or higher)

Please ensure that you have upgraded the bootcode on the MSC to NTDK34FA Rel 06 or higher. Refer to NTP Upgrades Guide - Chapter 15 Use the flash boot ROM utility.

### Option 11C

#### Software Daughter Board Requirements

The Option 11C requires a 48Mb Total Memory (32 Mb Program Store and 16 Mb C-Drive space) in order to run Release 25 software. This requirement is met with the NTKK13AA or new **NTTK25AA blank** Software Daughterboard.

A system upgrading to Release 25 must replace its NTDK21(32 Mb) or NTDK81(40 Mb) based software daughterboard, with an NTKK13AA **or** NTKK25AA (48 Mb) 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.

#### System Controller Card Requirements

The supported Release 25 System Controller card for Option 11C:

- NTDK20CA or higher Small System Controller (SSC)
- NTDK20EA or higher Small System Controller (SSC) for Option 11C main cabinet when using IP Expansion and NTDK20CA or higher for each Expansion cabinet.(Release 25.30 or later)

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 NTDK20DA, which is compatible with Release 25.Software Delivery Methods

### Option 11C Mini

- Pre-Programmed Mini System Controller (MSC) for new systems
- PCMCIA Card for upgrades
- Electronic Software Distribution (ESD)

### Option 11C

- Software Daughter board for new systems
- PCMCIA Card for upgrades
- Electronic Software Distribution (ESD)

## Electronic Software Delivery Via Electronic Software Distribution (ESD) website

The software download process is required to take compressed software from the internet and download it to your PC for duplication. A programmed PCMCIA card can be used to upgrade an Option 11C or an Option 11C Mini system. The downloading of the software is only necessary when re-programming a PCMCIA card to update an existing Option 11C or 11C Mini system. When ordering a PCMCIA card for the first time, it can be sent pre-programmed with the current market release of software. Alternatively, a blank PCMCIA card can be ordered. This card can be used for future upgrades of software by downloading software from the Electronic Software Distribution ESD website.

### Who has access to the web site?

The ESD is designed for Nortel Networks Distributors and associated technical support personnel. In exceptional circumstances, end customers will be granted access to this site.

### To register for an account:

Nortel Networks has adopted the Common Registration System (CRS). This provides one user I.D. and password to access the service websites such as the Software Distribution and Keycode Retrieval websites.

Go to <http://www.nortelnetworks.com/>, to "Customer Support" menu, choose "Register menu. Follow the registration process instructions.

### Software Download Steps:

Once registered, go to the Customer Support web site at the following URL:

<http://www.nortelnetworks.com> ;

**Choose "Support" menu,**

**Choose "Downloads" menu**

You will notice some changes to the ESD in regards to your personalized customer experience. For further details, choose the "What's New to the Customer Support Site" under Support News banner.

**You will be able to view software on this page as a Guest only. To access the software as an authorized user, you must go to the "Log in" menu and apply your user I.D. and password.**

Choose the applicable software required in the software product listing (ie. Meridian 1 Option 11C/11C Mini).

To find the product listing, go to the « Products » banner and choose "View by a Product".

Click on required software file required. Click on the executable file and save to your desktop.

If you do not already have the PCMCIA Card Programmer installed on your P.C., go to "General info." banner from the software page and download the Card Programmer (version 0.5 or higher). The Programmer will prepare and if necessary erase the PCMCIA card (40Mb or higher), and load the new software to the card. Open the PCMCIA Card Programmer, select the software from the applicable P.C. drive letter in step 1, then select the PCMCIA drive letter in step 2, click on Program PCMCIA card.

The PCMCIA Card Programmer is compatible with Window 95, 98, and Windows NT 4.0 and above. Please note that the manual process to erase and copy is required if using Windows 2000 operating system.

When properly programmed, the software on the PCMCIA card will have the following directory and file structure:

```
bootrom/  
dflt_db/  
p/  
u/  
dramos  
dramos.sym  
dramoscc.sym  
readme.txt
```

You are now ready to put the programmed card into slot A of the System Controller and proceed with the installation procedure.

## Use of BKO command in LD 43

The BKO command is used to backup the customer data to an external data card (blank PCMCIA card) located in slot "B" on the CPU faceplate.

Warning: If the pre-programmed software PCMCIA card is used during BKO operation, the card cannot be used to install software without first removing the backup data, reformatting the disk, and reprogramming with the appropriate software.

# Large System Advisements

The following advisements are for large systems only:

## Call Processor Memory Requirements

### Rls 25 Minimum Memory Requirements for 68040, 68060 or 68060E Processors:

X11 Release 25 Supports Call Processor 68040 (NT9D19), Call Processor 68060 (NT5D10), and Call Processor 68060E (NT5D03).

Minimum call processor memory requirements for X11 Release 25 as follows:

System Type	Flash Memory Requirement	DRAM Memory Requirement	Total Memory	Applicable Regions
Option 51C/61C	32 MB	48 MB	80 MB	North America
Option 81/ 81C on 68060/68060E with 5 or fewer Network Groups, or Option 81C on 68040 (FNF or non-FNF)	32 MB	64 MB	96 MB	North America
Option 81/ 81C on 68060/68060E with 6 or more Network Groups (FNF systems)	32 MB	80MB	112 MB	North America
Option 51C/61C	64MB	80MB	144 MB	CALA
Option 81/ 81C on 68060/68060E any number of Network Groups, (FNF or non-FNF)	64MB	80MB	144 MB	CALA

### Release 25 Recommended Memory Requirements for 68060E Processors:

System Type	Flash Memory Requirement	DRAM Memory Requirement	Total Memory	Applicable Regions
Option 51C/61C	64 MB	64MB	128 MB	North America CALA
Option 81/ 81C (with or without Fiber Network Fabric)	64 MB	96 MB	160 MB	North America CALA

New Release 25 systems will ship with Call Processor 68060E with the recommended memory configurations as shown in the table above.

Call Processors 68040 and 68060 have been market retired and are no longer orderable.

With X11 Release 25, there will be three call processor configurations available for new systems, system hardware upgrades and merchandise shipment:

- 68060E - 128 MB (NT5D03FB). This configuration meets the X11 Release 25 memory requirements for all Meridian 1 Option 51C, 61C, 81, 81C systems except Option 81C systems having 6 or more network groups. This configuration is suggested for Option 51C and 61C systems.
- 68060E - 160 MB (NT5D03PB). This configuration is available commencing April, 2000. It meets the X11 Release 25 memory requirements for all Meridian 1 Option 51C, 61C, 81, 81C systems.

## Release 25 Recommended Memory Requirements for CP PII Processors:

System Type	Flash Memory Requirement	DRAM Memory Requirement	Total Memory	Applicable Regions
Option 81C CPP With up to 5 Network group	N/A	128 MB	128 MB	North America CALA
Option 81C CPP With 6 or more Network group	N/A	256 MB	256 MB	North America CALA With Release 25.40 or later

### Note:

- : Option 81C CPP with 5 or fewer network groups may continue to use 128 MB DRAM for Release 25.40
- : Option 81C CPP with 6 or more network groups MUST upgrade their DRAM to 256 MB when upgrading to Rls 25.40.

## How to Meet Release 25 Memory Requirements

The following table defines the actions to be taken to ensure compatibility with Release 25 for various existing call processor combinations on Option 51C, 61C, 81/81C:

### For Option 51C/61C Systems:

Existing System Type	Existing Processor	Existing Memory Config.	Action to be supported on Release 25	Applicable Regions
Option 51C/61C	68040, 68060, 68060E	48 MB (32/16)	Upgrade to 80 MB (32/48) by adding one 32 MB DRAM SIMM (per card)	North America
Option 51C/61C	68040, 68060, 68060E	64 MB (32/32)	Upgrade to 96 MB (32/64) by adding one 32 MB DRAM SIMM (per card)	North America
Option 51C/61C	68040, 68060, 68060E	80 MB (32/48)	<b>None</b> - Configuration is supported.	North America
Option 51C/61C	68040	96 MB (64/32)	Upgrade to 128 MB (64/64) by adding one 32 MB DRAM SIMM (per card)	North America
Option 51C/61C	68040, 68060, 68060E	112 MB (64/48)	<b>None</b> - Configuration is supported.	North America
Option 51C/61C	68060E	128 MB (64/64)	<b>None</b> - Configuration is supported.	North America
Option 51C/61C	68060, 68060E	112 MB (64/48)	Upgrade to 144 MB (64/80) by adding one 32 MB DRAM SIMM (per card)	CALA
Option 61C	68060E	128 MB (64/64)	Upgrade to 160 MB (64/96) by adding one 32 MB DRAM SIMM (per card)	CALA

### Notes:

- : (xx/yy) denotes Flash memory (xx)/DRAM memory (yy) configuration.
- : New Option 51C Systems not sold in CALA on Release 24 or later.
- : New Option 51C Systems not sold As of Feb. 2001 in all regions.
- : For CALA order NT9C29AD for 51C, and NT9C38AA for 61C.

**For Option 81/81C Systems on 68060/68060E with five or fewer network groups, or any Option 81/81C 68040 based systems:**

Existing System Type	Existing Processor	Existing Memory Config.	Action to be supported on Release 25	Applicable Regions
Option 81/81C	68040, 68060, 68060E	64 MB (32/32)	Upgrade to 96 MB (32/64) by adding one 32 MB DRAM SIMM (per card)	North America
Option 81/81C	68040, 68060, 68060E	80 MB (32/48)	Upgrade to 112 MB (32/80) by adding one 32 MB DRAM SIMM (per card)	North America
Option 81/81C	68040	96 MB (64/32)	Upgrade to 128 MB (64/64) by adding one 32 MB DRAM SIMM (per card)	North America
Option 81/81C	68040, 68060, 68060E	112 MB (64/48)	Upgrade to 144 MB (64/80) by adding one 32 MB DRAM SIMM (per card)	North America
Option 81/81C	68060E	128 MB (64/64)	<b>None</b> - Configuration is supported.	North America
Option 81/81C	68060, 68060E	112 MB (64/48)	Upgrade to 144 MB (64/80) by adding one 32 MB DRAM SIMM (per card) (NT9C39AA)	CALA
Option 81/81C	68060E	128 MB (64/64)	Upgrade to 160MB (64/96) by adding one 32 MB DRAM SIMM (per card) (NT9C39AA)	CALA

Note: (xx/yy) denotes Flash memory (xx)/DRAM memory (yy) configuration.

**For Option 81/81C Systems on 68060/60E with 6 or more network groups:**

Existing System Type	Existing Processor	Existing Memory Config.	Action to be supported on Release 25	Applicable Regions
Option 81/81C	68060, 68060E	64 MB (32/32)	Upgrade to 128 MB (32/96) by adding two 32 MB DRAM SIMMs (per card)	North America
Option 81/81C	68060, 68060E	80 MB (32/48)	Upgrade to 112 MB (32/80) by adding one 32 MB DRAM SIMM (per card)	North America
Option 81/81C	68060, 68060E	112 MB (64/48)	Upgrade to 144 MB (64/80) by adding one 32 MB DRAM SIMM (per card)	North America
Option 81/81C	68060E	128 MB (64/64) NT5D03FA	Upgrade to 144 MB (64/80) by removing one 16 MB DRAM SIMM and adding one 32 MB DRAM SIMM (per card)	North America & CALA
Option 81/81C	68060E	128 MB (64/64) NT5D03FB	Upgrade to 160 MB (64/96) by adding one 32 MB DRAM SIMM (per card)	North America & CALA

Note: (xx/yy) denotes Flash memory (xx)/DRAM memory (yy) configuration.

Note: For CALA order NT9C39AA DRAM Memory Upgrade Kit.

The NTZC75AA DRAM Memory Upgrade Kit for North America supports 32 MB DRAM memory upgrade of Call Processors 68040, 68060 and 68060E. This kit contains one 32 MB DRAM SIMM and supports the memory upgrade of one call processor card. The number of SIMMs required to upgrade a call processor to the minimum memory requirement is defined above for currently existing memory configurations.

The NTZC77AA package contains the anti-static mat and ESD wrist-strap, which is required to perform a memory upgrade. NTZC77AA is not required if the distributor/customer already possesses the anti-static mat and wrist-strap.



**For Option 81C Systems on CP PII Processor:**

Option 81C CP PII with 6 or more network groups MUST upgrade their DRAM to 256 MB when upgrading to 25.40.  
NT4N64AA Rel 02 / A0844698 New CP PII CPU Boared with 256MB  
NT4N19AA / A0856417 256 MB CP PII memory upgarde Kit for one CPU only  
Upgraded CP PII CPU Board from 128MB to 256MB will be coded with NT4N6AA Rel 01

**Software Delivery Methods**

The only supported media for large systems (Options 51C, 61C, 81 and 81C) is CD-ROM. This means that Release 25 requires an IODU/C (NT5D61) on a system operating with Call Processor 68040 (NT9D19), 68060 (NT5D10) or 68060E (NT5D03).

For an Option 81C system equipped with Call Processor PII, Release 25 requires an Multi-Media Disk Unit - MMDU (NT4N43). The MMDU is automatically included with an upgrade to Call Processor PII.

Option 51C, 61C, and 81C software including system software, install disks and related documentation for all CPU types can now be downloaded from the Electronic Software Distribution (ESD) web site.

The ESD site can be accessed through the following Customer Support website:

[<http://www.nortelnetworks.com>](http://www.nortelnetworks.com)

Choose "Support", "Downloads".

**You will be able to view software on this page as a Guest only. To access the software as an authorized user, you must go to the "Log in" menu and apply your user I.D. and password.**

Choose the applicable software required in the software product listing (ie. Meridian 1 Option 51C, 61, 81C).

To find the product listing, go to the « Products » banner and choose "View by a Product".

Click on required software file required. Click on the executable file and save to your desktop.