

Installer's Checklist



N0028430 –v03

NOTE: This document is pertinent for Communication Server 1000 systems (CS 1000S; Media Gateway 1000B; Media Gateway 1000T; CS 1000M Cabinet/Chassis; and Meridian 1 Option 11C Cabinet/Chassis systems)

The Generic X21 Release 4.50W software provided for the above named systems includes the Core Dependency List – Issue 01 to provide 2 PEPs required at the time of software installation .

IT IS IMPORTANT WHEN USING A PRE-PROGRAMMED COMPACT FLASH CARD (PCMCIA), TO ANSWER YES WHEN PROMPTED TO INSTALL THE DEPENDENCY LISTS. The 2 patches provided are required at the time of installation for database conversion.

Next Download the Current ‘Realtime’ Dependency Lists from the Enterprise Solutions PEP Library to apply all GEN and EMG status patches for the SSC system type. REFER TO APPLICABLE PRODUCT BULLETINS.

Refer to the Release 4.5 Product Bulletin for further details on PEP requirements (Readme sheet provides details on the product bulletin web location).

The pre-programmed software daughterboard code and issue for Release 4.50W can be identified as follows:

Applicable Market	Communication Server 1000S / 1000T	Communication Server 1000 Media Gateway 1000B (Global)	Communication Server 1000M Cabinet/Chassis and Meridian 1 Option 11C Cabinet/Chassis
North America / CALA regions	NTM400AF R17	NTMP50AF R14	NTSK01AC R17
Asia Pacific / EMEA regions	NTM410AF R15	NTMP50AF R14	NTSK40AC R16
DSN Market	NTSK14AG R11	N/A	NTSK14AG R11

The software issue can be identified by the Product Issue of the pre-programmed software daughterboard or pre-programmed software PCMCIA Card. Product Issue may be determined by locating the label identifying the product code (i.e. NTM400AF; NTSK01AC) on either the software box (REL#) or on the software daughterboard or PCMCIA label. The pre-programmed PCMCIA card is identified with the letter B (ie. NTM400BF; NTSK01BC). The Product Issue is the two digit number immediately following the product code (ie. NTM400AF 10; NTSK01AC 13).

System Controller Card and Software Daughterboard Requirements:

CAUTION: Ensure that the NTDK20 SSC card is on a **FLAT** surface before installing the Software Daughterboard and Security Device. **DAMAGE MAY RESULT if this is done with the card still in the box!**

- Set the baud rate for Port 0 of the SSC card, using the dip switch on the SSC card faceplate. **Port 0 is the only SDI port that can be used for software installations and upgrades.**
- After successful install of the system, make sure that Port 0 of SSC card is configured as a Maintenance Terminal/TTY. This is required for future software upgrades.

All Small systems will **require 32 MB DRAM memory to run CS 1000 Release 4.0 and higher software.** This includes the processors in Option 11C Cabinet/Chassis, CS 1000M Cabinet/Chassis, CS 1000S, and all Media gateways.

NTDK20JA with the increased memory has been shipping for a while, and all new systems will thus be equipped with 32 MB. However, since the DRAM memory requirement is new, most existing installed base systems will have to upgrade the memory. This applies to all SSCs, whether in a main processor application, a Media Gateway 1000S or a Media Gateway 1000B. A Memory Upgrade kit NTDK19BA is available to upgrade DRAM SIMM on any SSC (except NTDK20AB Release 1-5) to 32 MB. Note that, because of the evolution of the NTDK20, simply adding the memory upgrade will not automatically convert any SSC into a NTDK20JA. New systems will ship with a NTDK20JA, which has 32 MB DRAM; plus new firmware to support the NTKK25CA software daughterboard.

Note that systems with MSC will have a restricted configuration, because they only have 16 MB of DRAM Memory, which cannot be increased. This is limited to:

- Less than 800 IP TNs (Pure IP)
- Less than 160 TDM TNs (Pure TDM)
- Less than 160 TDM TNs and 300 IP TNs (Mixed TDM and IP)
- Less than 2000 Corporate Directory entries (any TN configuration)
- Less than 4,000 ESN Location Codes. The small system sends a warning message when the craftsperson attempts to configure the MXLC prompt greater than 4000, but does not prevent additional location codes from being entered. In practice, approximately 6,000 LOC entries for 4-digit LOCs, and approximately 4,000 LOC entries for 7-digits can be configured, but the exact number depends on the tree structure employed and is difficult to engineer. If an MSC based system is operating outside these limits, it will have to be upgraded with an SSC NTDK20HA.

The Flash Memory requirement is unchanged from Succession Release 3.0. However, to provide future protection against possible software program store increases, new systems will ship with at least 48 MB of program store (+ 16 MB Base Flash).

Minimum vintages for the Small System Controller are:

- Non-IP Expansion Systems
 - NTDK20AB-GA SSC + NTDK19BA SSC Memory Upgrade Kit (32Mb)
 - NTDK20HA
- 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

System	Flash Memory	DRAM Memory
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	Daughterboard Requirements	Requirements
Option 11C/CS 1000M Cabinet or Chassis	32 MB Program Store + 16 MB	32 MB
Option 11C/CS 1000M 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

***The SSC memory upgrade kit is available as NTDK19BA

A system upgrading to Communication Server 1000 Release 4.5 must replace its NTDK21 (32 Mb) or NTDK81 (40 Mb) based software daughterboard, with an NTTK25AA/BA/CA (48 Mb) daughterboard. NTTK13AA is also supported but no longer available for order.

Refer to Product Bulletin (P-2004-0318-Global-Rev2) - SSC (NTDK20JA) and Software Daughterboard (NTTK25CA) PRODUCT VINTAGE CHANGES and P 2005-0029 Global - NTTK25CA Software Daughterboard Compatibility Clarification for further details.

Note: Please ensure that you have upgraded the BootRom code first before starting any upgrade, this will allow the system software to recognize the Software Daughterboard. The bootcode is backwards compatible. As standard practice always upgrade to the latest bootcode Refer to NTP Upgrades Guide - Use the flash boot ROM utility. With Release 4.5 software, the bootrom update is automatically with the software installation.

Software Delivery:

- Preprogrammed Software daughterboard for new systems (or upgrades)
- PCMCIA card for upgrades - **REQUIRES A MINIMUM 48MB PCMCIA CARD**
- Nortel Software WEB Site (www.nortel.com)

SOFTWARE DOWNLOADS VIA NORTEL'S CUSTOMER PORTAL WEBSITE

Follow these steps to access the Communication Server 1000 core software applicable for your system.



1. Access the www.nortel.com web site. Choose the **Support and Training** Banner.
2. Select "**Software Downloads**" from the "**Technical Support**" section.
3. Select Product Family "[Voice & IP Communications](#)"
4. The product listing for the [Communications Servers](#) will be listed:
5. Make the appropriate selection depending on your system type:
 - **Communication Server 1000S**
 - **Communication Server 1000M Cabinet/Chassis (also applicable to Option 11C Cabinet/Chassis systems)**
 - **Media Gateway 1000 (Branch) software is available under Applications & Gateways heading**

Select the **Software** link and click on the applicable file required.

The Software file will identify the software names according to System type; Region, and Release of software.

IMPORTANT: PCMCIA Card Programmer Tool required for 64MB Compact Flash Cards and PC's using Windows 2000

Card Programmer Tool **Version 09** is required for PC's on Windows 2000 operating systems and when using the 64MB PCMCIA Cards. The tool and instructions can be found on the Software Downloads website under the Product Family - **Communication Servers** and the following product mapping. (Click on Software).

-  **Communication Server 1000S**
-  **Communication Server 1000M Cabinet/Chassis**

It is important to **uninstall** any previous versions of the Card Pro Tool before installing a new version. Please refer to the Product Bulletin ([P 2003-0363 Global](#)) published on the Partner Information Center (PIC) for more details.

The following installation guides from the NTP suite (Nortel Networks Enterprise Multimedia Documentation CD-ROM - NTLH91AC) will be helpful to complete your installation:

Communication Server 1000S: Installation and Configuration	553-3031-210
Communication Server 1000M and Meridian 1: Small System Installation and Configuration	553-3011-210
Communication Server 1000M and Meridian 1: Small System Upgrade Procedures	553-3011-258
Communication Server 1000S: Upgrade Procedures	553-3031-258

INSTALLATION MENU - Please refer to the Summary of Steps on how to install software in a new system from the Installation and Configuration NTP.

If installing software using a Pre-programmed Software Daughterboard, select menu Option 1 for a new installation. (New Install – From Software Daughterboard).

If installing using a Software PCMCIA card, select menu Option 4 (New system installation – from Software Delivery Card).

"**Basic Configuration**" database option includes the following items: Directory, Configuration Record, XPECs blocks, Superloops blocks, Patch, Physical Dump Record, IMS TN Table, IMS Links No, Table, Asynch Blocks, CSL Blocks, VAS Blocks, Background TTY Blocks, Background Port ID Blocks, Aries Data Block, SYS PARAMS Block, LAPW Blocks. For a more extensive default data block, please choose "Pre-Configured Data".

"**Pre-Configured database**" This option includes preprogrammed data for trunk routes, SDI ports, default numbering plan and more. For detailed information on preprogrammed data, please refer to Installation and Configuration Guide.

KEYCODES: The data you need to enter in the INSTALL MENU is provided on the Keycode Datasheet. It is important to input the correct values (License parameters, additional Packages, etc.) as provided on the keycode sheet.

If the keycodes are unsuccessful, please check the following: -Software Release, Service Level, any Additional Packages, Software License parameters, Security ID, Auxiliary ID (the old site ID, if this is a system upgrade), and ensure the correct keycodes were entered. All items must match the keycode sheet exactly. If they still are not successful, please call your Service Representative.

REFER TO THE COMMUNICATION SERVER 1000 RELEASE 4.5 PRODUCT BULLETIN FOR APPLICABLE SOFTWARE AND OTHER REQUIREMENTS.