



Communication Server 2100

Software Upgrades Reference Manual

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New in this release

Feature changes

Feature changes are not applicable in this document.

The following upgrade paths are supported:

- From SE06 to SE07
- From SE07 to SE08
- From SE08 to SE09
- From SE08 to SE09.1
- From SE09 to SE09.1

Note: This document provides the component upgrade sequence for a CS 2100 network upgrade to software version SE09.1. For the SE09 component upgrade sequence, refer to the SE09 version of this NTP (also available in this collection).

Other changes

The following updates are applicable to the *Communication Server 2100 Software Upgrades Reference manual*:

- Media Gateway 15000 support is added
- Universal Signaling Point (USP) is supported
- RTP portal is renamed Nortel Border Control Point (BCP)

6 New in this release

About this document

Purpose and audience

This manual acts as a roadmap for upgrading Communication Server 2100 network elements from SE09 to SE09.1. Most procedures are already available in other documents, in which case this manual references the appropriate document.

The audience for this document are technicians, either customer or Nortel, who are upgrading a Communication Server 2100 site to SE09.1.

How to check the version and issue of this document

The version and issue of the document are indicated by numbers (for example, 01.01).

The first two digits indicate the version. The version number increases each time the document is updated to support a new software release. For example, the first release of a document is 01.01. In the next software release cycle, the first release of the same document is 02.01.

The second two digits indicate the issue. The issue number increases each time the document is revised but re-released in the same software release cycle. For example, the second release of a document in the same software release cycle is 01.02.

ATTENTION

FOR MORE INFORMATION

To determine whether you have the latest version of this document and how documentation for your product is organized, check the release information in the *Communication Server 2100 Master Index of Publications*.

Getting started

How to use this document

This document shows where to find information about how to upgrade a Communication Server 2100 (CS 2100) network from SE09 to SE09.1 software release.

Note: For the upgrade sequence to upgrade from the SE08 to the SE09 software load, refer to the SE09 version of this NTP (also available in this NTP).

For information about new and changed hardware added for the Communication Server 2100, refer to the *Communication Server 2100 Product Guide*, 555-4001-806. For information about new and changed software applications for the Communication Server 2100, refer to the *Communication Server 2100 Application Planning Guide*, 555-4001-108.

About the SE09.1 Software Release Upgrade

An end-to-end Communication Server 2100 network upgrade involves upgrading all required components in a specific upgrade order. This document includes the upgrade order for components in an SE09.1 CS 2100 network. This document also includes a list of components, upgraded in SE09, that don't require new software loads for SE09.1.

The following table lists those components that do not require new software loads for an SE09.1 network upgrade. For SE09.1, these components require maintaining patch currency and upgrading to the most recent Maintenance Release for that component during the network upgrade.

SE09.1 Patch Currency and Maintenance Release Components

| Components |
|-----------------------------------|
| Device Manager |
| Ethernet Routing Switch 8600 |
| Peripheral Modules (patches only) |
| Session Server trunks |

| |
|--|
| Policy Controller |
| SAM21 Shelf Controller |
| Media Server 2000 Series |
| Universal Audio Server (UAS) |
| XA-Core – CS 2000 |
| Call Agent – CS 2000 Compact |
| Centrex IP Client Manager (CICM) |
| Multimedia Communications System (MCS) Management Server |
| Border Control Point 7100 |

Upgrade sequence

The following table summarizes the upgrade order for components in a Communication Server 2100 network.

Note 1: Ensure that baseline software is patch current prior to starting the upgrade.

Note 2: For specific upgrade instructions for each component for SE09.1, refer to Nortel Technical Publication (NTP) *Upgrading a Carrier Voice over IP Network*, NN1044-450 for release SN0FF.

Note 3: For Mediatrix Analog station Gateway: Refer to the OEM/third-party gateway upgrade documentation at www.nortel.com/prd/select/mediatrix.html

| Step | Component |
|-------------------------------------|--|
| Preparatory Upgrade | |
| 1 | Device Manager |
| 2 | Ethernet Routing Switch (ERS) 8600 The ERS 8600 software load did not change for SE09. No upgrade is required |
| Carrier Voice over IP upgrade order | |

| | |
|---|--|
| 3 | <p>Integrated Element Management System (IEMS)</p> <div data-bbox="440 302 1382 394" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ATTENTION</p> <p>Perform this upgrade only if the IEMS resides on a standalone server.</p> </div> <div data-bbox="440 411 1382 537" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ATTENTION</p> <p>If the IEMS is on the same server as the CS 2000 Management Tools (CMT) application, go directly to the CMT upgrade.</p> </div> <div data-bbox="440 554 1382 680" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ATTENTION</p> <p>If this is a geographically redundant configuration, the standby server must also be upgraded.</p> </div> <ul style="list-style-type: none"> • SSPFS • IEMS |
| 4 | <p>CS 2000 Management Tools (CMT) and Clients</p> <div data-bbox="440 879 1382 1005" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ATTENTION</p> <p>Perform the IEMS upgrade at this time only if the IEMS is on the same server as the CS 2000 Management Tools.</p> </div> <div data-bbox="440 1022 1382 1148" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ATTENTION</p> <p>If this is a geographically redundant configuration, the standby server must also be upgraded.</p> </div> <ul style="list-style-type: none"> • SSPFS • IEMS • CS2M • APS • ABS |
| 5 | <p>CS 2000 Core Manager or Core and Billing Manager (CBM) 850</p> <div data-bbox="440 1556 1382 1682" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ATTENTION</p> <p>If this is a geographically redundant configuration, the standby server must also be upgraded.</p> </div> <ul style="list-style-type: none"> • SSPFS • CBM |

| | |
|----|---|
| 6 | Multiservice Data Manager <ul style="list-style-type: none"> MDM Solaris OS |
| 7 | Multiservice Switch 15000 |
| 8 | Peripheral Modules MG 4000, IW SPM, ATM, and DPT SPM do not have new software loads for SE09. No upgrades are required for these components. |
| 9 | Media Gateway 9000 Manager <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">ATTENTION</p> <p>If this is a geographically redundant configuration, the standby server must also be upgraded.</p> </div> <ul style="list-style-type: none"> SSPFS MG 9000 Manager |
| 10 | Session Server - Trunks |
| 11 | Policy Controller The Policy Controller load did not change for SE09.1. No upgrade is required. |
| 12 | SAM21 Shelf Controller |
| 13 | Gateway Controller (GWC) |
| 14 | Media Server 2000 series (MS 2010) Universal Audio Server (UAS) does not require an upgrade. The UAS must be at UAS08MM (or higher) software release before beginning the network upgrade. |
| 15 | Media Gateway 3200/3500 (see documentation reference list below for relevant upgrade procedures) |
| 16 | Media Gateway 9000 |
| 17 | Universal Signaling Point (USP) |
| 18 | Enhanced Network and Message Switch |
| 19 | CS 2000-XA-core or CS 2000 Compact Call Agent |
| 20 | Media Gateway (PVG) 7480/15000 |
| 21 | Centrex IP Client Manager (CICM) |
| 22 | Non-MG 15000 gateway managers and gateway Upgrade the element manager (EM) for one type of gateway and immediately upgrade all corresponding gateways of the same type before upgrading the next EM type. |

| | |
|----|--|
| 23 | MCS Management Server <ul style="list-style-type: none"> Solaris OS MCS |
| 24 | OEM/third- party gateway For Mediatrix Analog station Gateway: Refer to the OEM/third-party gateway upgrade documentation at www.nortel.com/prd/select/mediatrix.html . |
| 25 | Nortel Border Control Point 7100 (previously known as RTP Media Portal) |

Note: If this is a first time upgrade from a Meridian SL-100 SuperNode (SN) or SuperNode SE (SNSE) Computing Module to a Communication Server 2100 Compact Core, the *Meridian SL-100 SN/SNSE CM to Compact Core Upgrade Method of Procedure*, 555-4001-213 contains site preparation and Night of Cutover procedures.

The following table includes reference documents relevant to upgrading a CS 2100 network.

Documentation references

| Document title | Document number |
|--|-----------------|
| Upgrading a Carrier Voice over IP Network (SN09FF) | NN10440-450 |
| Communication Server 2100 Product Guide | 555-4001-806 |
| MG 3200 Configuration Guide | LTRT-72904 |
| MG 3500 Gateway Installation, Operation & Maintenance | LTRT-74504 |
| Meridian SL-100 SN/SNSE CM to Compact Core Upgrade Method of Procedure | 555-4031-213 |
| Engineering Bulletin (for networks where a Border Control Point 7100 is directly connected to the Ethernet Routing Switch being upgraded). | SEB-08-01-009 |
| Communication Server 2100 Application Planning Guide | 555-4001-108 |

Terminology

| | |
|----------------|--|
| APS | Audio Provisioning Server |
| BCP | Nortel Border Control Point |
| CA | Call Agent |
| CBM | Core and Billing Manager |
| CICM | Centrex IP Client Manager |
| CMT | Communication Server 2000 Management Tools |
| CS | Communication Server |
| CS 2100 | Communication Server 2100 |
| CS LAN | Communication Server LAN |
| EM | element manager |
| ERS | Ethernet Routing Switch |

| | |
|----------------|---|
| GWC | Gateway Controller |
| IEMS | Integrated Element Management System |
| IOM | Input/Output Module |
| IP | Internet Protocol |
| IPCM | IP Client Manager |
| ENET | Enhanced Network |
| LAN | Local Area Network |
| MAP | Maintenance and Administration Position |
| MAPCI | Maintenance and Administration Position Command Interpreter |
| MC | Message Controller |
| MCS | Multimedia Communications System |
| MDM | Multiservice Data Manager |
| MS | Message Switch |
| MS 2010 | Media Server 2010 |
| MS 7480 | Multiservice Switch 7480 |

| | |
|-----------------|---|
| MS 15000 | Multiservice Switch 15000 |
| MG 3200 | Media Gateway 3200 |
| MG 3500 | Media Gateway 3500 |
| MG 9000 | Media Gateway 9000 |
| NTP | Nortel Technical Publication |
| OEM | Original Equipment Manufacturer |
| PM | Peripheral Module |
| PVG | Packet Voice Gateway |
| RTP | Real-time Protocol (now branded as the Nortel Border Control Point) |
| SAM21 | Service Application Module 21 |
| SDM | SuperNode Data Manager |
| SN | SuperNode |
| SNSE | SuperNode SE |
| STORM | Storage Management |
| UAS | Universal Audio Server |

USP
Universal Signaling Point

VoP
Voice over Packet

Communication Server 2100

Software Upgrades Reference Manual

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