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Nortel Multiservice Switch 7400/15000/20000

What's New

NN10600-000

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New features for PCR 7.2

This section lists the new features for this release of Nortel Multiservice Switch 7400/15000/20000 that impact the documentation suite. This section also provides a description of each feature and explains how it impacts the product and the user.

Attention: Some new features may be documented but are not yet supported. For feature support details, see the Nortel Multiservice Switch Release Notes.

To find out the feature impacts on and other changes to the documentation suite, see the section [Changes to the documentation suite \(page 11\)](#).

Navigation

- [Load Rebalancing on Parallel Links \(CD4254\) \(page 6\)](#)
- [Standard Virtual Path Termination \(VPT\) for non-ATM SPVCs \(CD5374\) \(page 6\)](#)
- [Local & Global Rerouting support on 2pSTM1eCh and 2pSTM1Ch \(CD5375\) \(page 6\)](#)
- [EVLS \(Ethernet Virtual Line Service\) Fast Ethernet Policing \(CD3996\) \(page 6\)](#)
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- [Telnet Command Logging \(CD5174\) \(page 7\)](#)
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- [Multiservice Switch IKE Support for IPSec \(CD5054\) \(page 8\)](#)
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- [Media Gateway Remote Transcoder Operation \(CD4974\) \(page 9\)](#)
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- [Media Gateway 15000 G.726 over IP \(CD5774\) \(page 9\)](#)
- [Media Gateway 7000/15000 Interoperability with SDPs containing multiple IP addresses \(CD5754\) \(page 9\)](#)
- [Two Port Voice Services Processor For Enhanced Capacity \(CD5435\) \(page 10\)](#)
- [Media Gateway 15000 as a Host Device \(CD5694\) \(page 10\)](#)
- [Packet Trunking - IP Nodal Provisioning Templates \(CD5834\) \(page 10\)](#)
- [Port Alarm Text Enhancement \(CD5954\) \(page 10\)](#)

Load Rebalancing on Parallel Links (CD4254)

The link load balancing feature has been extended through to re-balance the bandwidth across the Private Network-Network Interface (PNNI) parallel links on the event of recovery of any one of the links from a failure situation. Before this feature, if one of the links went down, the connections would be moved to the remaining links; however, once the downed link had recovered, the connections would not re-balance across the parallel links. This feature recognizes when a PNNI link has recovered, and re-balances the bandwidth equally across the PNNI parallel links.

Standard Virtual Path Termination (VPT) for non-ATM SPVCs (CD5374)

This feature makes Standard VPTs available to other applications besides ATM. Specifically, this feature makes Standard VPTs available to FRATM, CES, and atmMPE. These other applications will then be able to use Standard VPTs as they have been used for ATM applications.

Local & Global Rerouting support on 2pSTM1eCh and 2pSTM1Ch (CD5375)

This feature extends the existing CES Local and Global Rerouting feature to the 2pSTM1Ch Electrical and the 2pSTM1Ch optical FPs. No additional Local & Global Reroute capabilities are added with this feature.

EVLS (Ethernet Virtual Line Service) Fast Ethernet Policing (CD3996)

The Multiservice Switch Ethernet policer enhances and complements the Ethernet Virtual Line Service (EVLS) offering. The policer enables the service provider to measure customer traffic volume, and enforce compliance to the defined traffic contract.



The MSS policer provides a large degree of configuration flexibility to suit service provider policies and networking objectives. These include per EVC (Ethernet Virtual Connection) (port and Virtual Local Area Network (VLAN)) policing, single or double rates enforcement, discard or tagging of non Committed Information Rate (CIR) conformant traffic, a wide range of traffic rates and burst sizes, and independence of policer configuration from the Asynchronous Transfer Mode (ATM) core service. The Ethernet policer conforms to the Metro Ethernet Forum (MEF) Traffic Management standard.

The service provider benefits in several ways. First, the ability of offering new and enhanced types of Ethernet services with different service level agreements (SLAs). Second, the policer enables the provider to restrict the amount of traffic admitted to the network from specific customers or classes, which results in overall performance improvement and fairness to all network users. Third, the policer provides detailed statistics, which can be used for monitoring and reporting the SLAs, up-selling the end-user a bigger traffic contract, and for network engineering purposes.

EVLS (Ethernet Virtual Line Service) Gigabit Ethernet Policing (CD4634)

The Multiservice Switch Ethernet policer enhances and complements the Ethernet Virtual Line Service (EVLS) offering. The policer enables the service provider to measure customer traffic volume, and enforce compliance to the defined traffic contract.

The MSS policer provides a large degree of configuration flexibility to suit service provider policies and networking objectives. These include per EVC (port and Virtual Local Area Network (VLAN)) policing, single or double rates enforcement, discard or tagging of non CIR-conformant traffic, a wide range of traffic rates and burst sizes, and independence of policer configuration from the ATM core service. The Ethernet policer conforms to the Metro Ethernet Forum (MEF) Traffic Management standard.

The service provider benefits in several ways. First, the ability of offering new and enhanced types of Ethernet services with different service level agreements (SLAs). Second, the policer enables the provider to restrict the amount of traffic admitted to the network from specific customers or classes, which results in overall performance improvement and fairness to all network users. Third, the policer provides detailed statistics, which can be used for monitoring and reporting the SLAs, up-selling the end-user a bigger traffic contract, and for network engineering purposes.

Telnet Command Logging (CD5174)

The purpose of this feature is to provide a more complete audit trail of the telnet command, by showing when the remote session started and terminated on the originating Multiservice Switch. Prior to this feature, the telnet



command, when used to telnet from one Multiservice Switch node to another (from CP or XC), is not captured in the Multiservice Switch command log stream. This feature ensures that the following events are captured in the Multiservice Switch command logs: a record to show when the telnet command is executed; a record to show when the telnet command returns and the user's remote session is terminated. Commands executed by the user on the remote node will continue to be logged on the remote Multiservice Switch.

Pre-Login Warning Banner (CD5214)

This feature displays a warning banner to the operator prior to telnet and local console logins.

ssh (secure shell) Support on Multiservice Switch (CD5376)

This feature provides a secure alternative to telnet, when accessing the Multiservice Switch through a command line interface. ssh is being provided to allow customers to securely place confidential information on the Multiservice Switch.

Multiservice Switch IKE Support for IPSec (CD5054)

The IKE feature provides support of Internet Key Exchange (IKE) as defined in RFC2409. This functionality is provided as an enhancement to existing Multiservice Switch IPSec. IKE allows automatic negotiation of a Security Association (SA) between two peers (MDM and Multiservice Switch) requiring secure communication. This can only be done by manual configuration with the existing IPSec solution.

Media Gateway 15000 International CAS Generic ITU R2 (CD4535)

This feature provides the framework for supporting ITU R2 Channel Associated Signaling (CAS) generically and for country specific variants. R2 is an International protocol typically used to interface to legacy PBX and TDM systems. This feature will be supported on VSP3-o hardware. Specific R2 packages that will be supported include Brazilian R2, Mexican R2 and Korean R2.

Media Gateway 7000/15000 Additional International Tonesets (CD4539)

This feature extends the existing tonesets support to include additional country specific tonesets for Pakistan, Brazil Custom 1 and Mexico Custom 1. It also adds general support for Alternate Call Waiting tones, and specific Alternate Call Waiting tones for Mexico and Taiwan.



Media Gateway Remote Transcoder Operation (CD4974)

Transcoder Free Operation (TrFO) is the ability of the wireless network to transmit native coded voice between source and destination. In TrFO enabled wireless networks, transcoding is only performed if originating and terminating codecs don't match. Enhanced Variable Rate Coder (EVRC) codec is the common codec deployed. This feature introduces Remote Transcoder Operation which involves performing the transcoding function at the point of presence when terminating to a PBX or PSTN network.

Media Gateway Ping Enhancement (CD5734)

This feature extends the subcommands of the Media Gateway 15000 Ping command to align with the Multiservice Switch Ping command. The Ping command is now available under NSTA. 11 Ping sub-commands are included.

Media Gateway Transcoder Free Operation Phase 1 (CD4975)

Transcoder Free Operation (TrFO) is the ability of the wireless network to transmit native coded voice between source and destination. In TrFO enabled wireless networks, transcoding is only performed if originating and terminating codecs don't match. EVRC (Enhanced Variable Rate Coder) codec is the common codec deployed.

Media Gateway V5.2 on VSP3o (CD5714)

This feature provides the transport of V5.2 layer 3 signaling protocols between an AN and a MGC using V5.2 User Adaptation (V5UA) over SCTP over IP over ATM. A V5.2 AN provides power feed, recognition of line signals (e.g., off-hook, on-hook, hook-flash, dial pulses) and applies line signals (e.g., cadence ringing). The Media Gateway acts as a Signalling Gateway and a Media Gateway to provide the interworking between the AN and the MGC.

EUED Compliance for Media Gateway 15000 (CD5574)

This feature introduces software changes required to support European Union Environmental Directives (EUED) compliance.

Media Gateway 15000 G.726 over IP (CD5774)

This feature introduces support for Codec Type G.726 over IP on the Media Gateway 15000's VSP3 and VSP3-o including 24K, 32K, and 40K compression and packetization rates 10 ms and 20 ms.

Media Gateway 7000/15000 Interoperability with SDPs containing multiple IP addresses (CD5754)

This feature allows the Media Gateway 7000 and 15000 to better handle calls where the incoming SDP contains two IP addresses. An example of where the gateway may see two IP addresses in the same SDP would include when the



Media Gateway 7000/15000 originating a call to the MCS whereby the MCS inserts a RTP portal and assigns one IP address for audio (voice, fax, data) and a second IP address for image (T.38). Without this feature, interoperability issues will also arise between the Media Gateway 7000/15000 and SIP Lines.

Two Port Voice Services Processor For Enhanced Capacity (CD5435)

The 2pOC3ChSmlrVsp4e will update the VSP3-o FP to provide additional TDM ports and additional packet capacity. This will enable gateway configurations to be engineered with higher call capacities, yielding higher density and lower footprint gateway configurations.

Media Gateway 15000 as a Host Device (CD5694)

The new capability provided by this feature allows the Media Gateway 15000 with the NTHW49xx GigE card to appear as a host device to the adjacent NextHop L3 Routers because the Media Gateway 15000 and NextHop Routers are in the same subnet. As a result, OSPF and static routes are no longer required between the Media Gateway 15000 and the NextHop Routers. Instead, IP packets will be forwarded via layer 2 ethernet from the NextHop Router to the Media Gateway 15000 based on entries in the NextHop Routers ARP table (which provides Media Gateway 15000 VSP L3 IP address to MG15K GigE L2 MAC address mapping).

Packet Trunking - IP Nodal Provisioning Templates (CD5834)

This SN09 FF feature introduces templates for the packet trunking - IP solution using the MDM nodal provisioning tool. In previous releases, templates for the UA-IP and AAL2 solution were introduced.

Port Alarm Text Enhancement (CD5954)

RNC customers require additional information be displayed when port alarms are raised. This enables the operator to provision brief user information on each port/channel, e.g. which customer a port is serving. There are certain fields under the port/channel where additional information can be provisioned, however, they are not displayed when the alarm is raised. The feature provides the option to display the information with the alarms.



Changes to the documentation suite

This section identifies changes to the Nortel Multiservice Switch documentation suite for PCR7.2. For additional feature information and last-minute post-publication changes, see the Nortel Multiservice Switch Release Notes.

Navigation

- [Current NTP list \(page 11\)](#)
- [New documents \(page 15\)](#)
- [Removed documents \(page 15\)](#)
- [Renamed and renumbered documents \(page 15\)](#)
- [Restructured documents \(page 15\)](#)
- [Feature updates \(page 15\)](#)
- [Customer change requests addressed \(page 18\)](#)
- [Other updates and changes \(page 21\)](#)

Current NTP list

With only updated NTPs being republished for every release, refer to the table [Current version of NTPs for PCR7.2 \(page 11\)](#) to confirm that you are working with the most current version of an NTP.

Attention: The current NTP list is also available in the Nortel Multiservice Switch Release Notes.

Current version of NTPs for PCR7.2

Document name and number	Document version
NN10600-000 <i>Nortel Multiservice Switch 7400/15000/20000 What's New</i>	7.2S2
NN10600-001 <i>Nortel Multiservice Switch 7400/15000/20000 Using the Documentation</i>	7.1S1

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Current version of NTPs for PCR7.2 (continued)

Document name and number	Document version
NN10600-002 <i>Nortel Using Task-based Documentation Job Aid</i>	7.1S1
NN10600-005 <i>Nortel Multiservice Switch 7400/15000/20000 Terminology</i>	7.2S1
NN10600-030 <i>Nortel Multiservice Switch 7400/15000/20000 Overview</i>	7.2S1
NN10600-050 <i>Nortel Multiservice Switch 7400/15000/20000 Command Reference</i>	7.2S2
NN10600-053 <i>Nortel Multiservice Switch 7400/15000/20000 Commands Job Aid</i>	7.1S1
NN10600-060 <i>Nortel Multiservice Switch 7400/15000/20000 Component Reference</i>	7.2S1
NN10600-120 <i>Nortel Multiservice Switch 15000/20000 Hardware Description</i>	7.2S1
NN10600-125 <i>Nortel Multiservice Switch 15000/20000 Planning Site Requirements</i>	7.1S1
NN10600-130 <i>Nortel Multiservice Switch 15000/20000 Hardware Installation, Maintenance, and Upgrade</i>	7.2S1
NN10600-170 <i>Nortel Multiservice Switch 7400 Hardware Description</i>	7.1S2
NN10600-172 <i>Nortel Multiservice Switch 7400 FP Cabling Reference</i>	7.1S1
NN10600-175 <i>Nortel Multiservice Switch 7400 Hardware Installation, Maintenance, and Upgrade</i>	7.1S1
NN10600-270 <i>Nortel Multiservice Switch 7400/15000/20000 Software Installation</i>	7.1S1
NN10600-271 <i>Nortel Multiservice Switch 7400/15000/20000 Network Management Connectivity</i>	7.2S2
NN10600-272 <i>Nortel Multiservice Switch 7400/15000/20000 Upgrading Software</i>	7.2S1
NN10600-300 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: SNMP</i>	7.2S1
NN10600-405 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Call Server</i>	7.1S1
NN10600-410 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Call Redirection Server</i>	7.1S1
NN10600-415 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Hunt Group Server</i>	7.1S1
NN10600-420 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Trunking</i>	7.2S1
NN10600-425 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Dynamic Packet Routing System</i>	7.1S1
NN10600-435 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Path-Oriented Routing System</i>	7.1S1
NN10600-440 <i>Nortel Multiservice Switch 7400 Operations: Frame Relay Managed Cut Through Switching</i>	7.2S1
NN10600-445 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Multiprotocol Label Switching</i>	7.1S1

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Current version of NTPs for PCR7.2 (continued)

Document name and number	Document version
NN10600-450 <i>Nortel Multiservice Switch 7400: Operations: DPN-100 Interworking</i>	7.1S1
NN10600-500 <i>Nortel Multiservice Switch 6400/7400/15000/20000 Alarms Reference</i>	7.2S2
NN10600-510 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Trace System</i>	7.1S1
NN10600-520 <i>Nortel Multiservice Switch 7400/15000/20000 Fault and Performance Management: Troubleshooting</i>	7.1S1
NN10600-550 <i>Nortel Multiservice Switch 7400/15000/20000 Common Configuration Procedures</i>	7.2S2
NN10600-551 <i>Nortel Multiservice Switch 7400/15000/20000 FP Configuration Reference</i>	7.2S2
NN10600-560 <i>Nortel Multiservice Switch 7400/15000/20000 Accounting</i>	7.2S1
NN10600-561 <i>Nortel Multiservice Switch 7400/15000/20000 Data Management</i>	7.2S1
NN10600-601 <i>Nortel Multiservice Switch 7400/15000/20000 Security Management</i>	7.2S2
NN10600-700 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Technology Fundamentals</i>	7.1S1
NN10600-702 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Routing and Signalling Fundamentals</i>	7.2S1
NN10600-705 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Traffic Management Fundamentals</i>	7.1S1
NN10600-706 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Traffic Shaping and Policing Fundamentals</i>	7.1S1
NN10600-707 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Queuing and Scheduling Fundamentals</i>	7.1S1
NN10600-708 <i>Nortel Multiservice Switch 7400/15000/20000 ATM CAC and Bandwidth Fundamentals</i>	7.1S1
NN10600-710 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Configuration Management</i>	7.2S1
NN10600-715 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Fault and Performance Management</i>	7.2S1
NN10600-720 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: AAL1 Circuit Emulation</i>	7.2S1
NN10600-730 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Inverse Multiplexing for ATM</i>	7.1S1
NN10600-745 <i>Nortel Multiservice Switch 7400 Operations: MPANL</i>	7.1S1
NN10600-750 <i>Nortel Multiservice Switch 7400 Operations: Voice Transport</i>	7.2S1

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Current version of NTPs for PCR7.2 (continued)

Document name and number	Document version
NN10600-755 <i>Nortel Multiservice Switch 7400 Operations: Voice Networking</i>	7.1S1
NN10600-760 <i>Nortel Multiservice Switch 7400 Operations: DCME Voice Service</i>	7.1S1
NN10600-765 <i>Nortel Multiservice Switch 7400 Operations: Remote Server Agent</i>	7.1S1
NN10600-770 <i>Nortel Multiservice Switch 7400 Operations: HDLC Transparent Data Service</i>	7.1S1
NN10600-775 <i>Nortel Multiservice Switch 7400 Operations: Bit Transparent Data Service</i>	7.1S1
NN10600-780 <i>Nortel Media Gateway 7480/15000 Technology Fundamentals</i>	7.2S2
NN10600-781 <i>Nortel Media Gateway 7480/15000 Non-switched Service Configuration Management</i>	7.1S1
NN10600-782 <i>Nortel Media Gateway 7480/15000 Switched Service Configuration Management</i>	7.2S2
NN10600-783 <i>Nortel Media Gateway 7480/15000 Periodic Routine Exercise</i>	7.2S1
NN10600-800 <i>Nortel Multiservice Switch 7400/15000/20000 IP Technology Fundamentals</i>	7.2S2
NN10600-801 <i>Nortel Multiservice Switch 7400/15000/20000 IP Configuration Management</i>	7.2S2
NN10600-802 <i>Nortel Multiservice Switch 7400/15000/20000 IP VPN Technology Fundamentals</i>	7.2S1
NN10600-803 <i>Nortel Multiservice Switch 7400/15000/20000 IP VPN Configuration Management</i>	7.1S1
NN10600-808 <i>Nortel Multiservice Switch 7400/15000/20000 Layer 3 Traffic Management Fundamentals</i>	7.2S1
NN10600-809 <i>Nortel Multiservice Switch 7400/15000/20000 Layer 3 Traffic Management Configuration</i>	7.2S1
NN10600-821 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Ethernet Services</i>	7.1S1
NN10600-822 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Ethernet Virtual Line Services</i>	7.2S1
NN10600-900 <i>Nortel Multiservice Switch 7400/15000/20000 Frame Relay Technology Fundamentals</i>	7.1S1
NN10600-901 <i>Nortel Multiservice Switch 7400/15000/20000 Frame Relay Configuration Management</i>	7.1S1
NN10600-905 <i>Nortel Multiservice Switch 7400/15000/20000 Frame Relay UNI Job Aid</i>	7.1S1

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Current version of NTPs for PCR7.2 (continued)

Document name and number	Document version
NN10600-906 <i>Nortel Multiservice Switch 7400/15000/20000 Frame Relay NNI Job Aid</i>	7.1S1
NN10600-920 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Frame Relay to ATM Interworking</i>	7.2S1
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New documents

There were no documents added to the suite for this release.

Removed documents

There were no documents removed from the suite for this release.

Renamed and renumbered documents

There were no documents renamed or renumbered for this release.

Restructured documents

There were no documents that underwent major restructuring for this release.

Feature updates

This section lists the PCR 7.2 documents that were modified with new feature information and describes how to access the new information in those documents.

The table [Feature updates \(page 16\)](#) lists the documents that were updated for each feature listed. For any features that did not impact the documentation suite, the table identifies these features as well.

Attention: Some features may be documented but are not yet supported. For feature support details, see the Nortel Multiservice Switch Release Notes.

To find the new feature information in a document, see the “What’s new” section in that document. That section provides cross-references that lead you directly to the new information.

The table also indicates the documentation status of each feature, whether Draft, Preliminary, or Standard. For an explanation of information quality and status definitions, see the NN10600-001 *Nortel Multiservice Switch 7400/15000/20000 Using the Documentation*.



The following reference documents were updated for many of the features listed in the feature updates table. They are not included in the table, in the interests of keeping it as short as possible.

- NN10600-005 *Nortel Multiservice Switch 7400/15000/20000 Terminology*
- NN10600-030 *Nortel Multiservice Switch 7400/15000/20000 Overview*
- NN10600-060 *Nortel Multiservice Switch 7400/15000/20000 Component Reference*
- NN10600-500 *Nortel Multiservice Switch 6400/7400/15000/20000 Alarms Reference*

Feature updates

Feature name	Documentation status	Documents updated
Load Rebalancing on Parallel Links (CD4254) (page 6)	Standard	NN10600-702 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Routing and Signalling Fundamentals</i> NN10600-710 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Configuration Management</i> NN10600-715 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Fault and Performance Management</i>
Standard Virtual Path Termination (VPT) for non-ATM SPVCs (CD5374) (page 6)	Standard	NN10600-420 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Trunking</i> NN10600-720 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: AAL1 Circuit Emulation</i> NN10600-800 <i>Nortel Multiservice Switch 7400/15000/20000 IP Technology Fundamentals</i> NN10600-801 <i>Nortel Multiservice Switch 7400/15000/20000 IP Configuration Management</i> NN10600-920 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Frame Relay to ATM Interworking</i>
Local & Global Rerouting support on 2pSTM1eCh and 2pSTM1Ch (CD5375) (page 6)	Standard	NN10600-551 <i>Nortel Multiservice Switch 7400/15000/20000 FP Configuration Reference</i>
EVLS (Ethernet Virtual Line Service) Fast Ethernet Policing (CD3996) (page 6)	Standard	NN10600-822 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: Ethernet Virtual Line Services</i>

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Feature updates (continued)

Feature name	Documentation status	Documents updated
EVLS (Ethernet Virtual Line Service) Gigabit Ethernet Policing (CD4634) (page 7)	Standard	No impact to documentation suite.
Telnet Command Logging (CD5174) (page 7)	Standard	NN10600-601 <i>Nortel Multiservice Switch 7400/15000/20000 Security Management</i>
Pre-Login Warning Banner (CD5214) (page 8)	Standard	No impact to documentation suite.
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Feature updates (continued)

Feature name	Documentation status	Documents updated
ssh (secure shell) Support on Multiservice Switch (CD5376) (page 8)	Standard	NN10600-050 <i>Nortel Multiservice Switch 7400/15000/20000 Command Reference</i>
		NN10600-271 <i>Nortel Multiservice Switch 7400/15000/20000 Network Management Connectivity</i>
		NN10600-272 <i>Nortel Multiservice Switch 7400/15000/20000 Upgrading Software</i>
		NN10600-300 <i>Nortel Multiservice Switch 7400/15000/20000 Operations: SNMP</i>
		NN10600-520 <i>Nortel Multiservice Switch 7400/15000/20000 Fault and Performance Management: Troubleshooting</i>
		NN10600-550 <i>Nortel Multiservice Switch 7400/15000/20000 Common Configuration Procedures</i>
		NN10600-560 <i>Nortel Multiservice Switch 7400/15000/20000 Accounting</i>
		NN10600-561 <i>Nortel Multiservice Switch 7400/15000/20000 Data Management</i>
		NN10600-800 <i>Nortel Multiservice Switch 7400/15000/20000 IP Technology Fundamentals</i>
		NN10600-801 <i>Nortel Multiservice Switch 7400/15000/20000 IP Configuration Management</i>
Multiservice Switch IKE Support for IPSec (CD5054) (page 8)	Standard	NN10600-550 <i>Nortel Multiservice Switch 7400/15000/20000 Common Configuration Procedures</i>
		NN10600-601 <i>Nortel Multiservice Switch 7400/15000/20000 Security Management</i>
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Customer change requests addressed

The table [Customer CR updates \(page 19\)](#) lists the customer change requests that were addressed in the documentation. The table also states which documents were updated. To locate the changed information in a particular document, see its section called “What’s new”.



Customer CR updates

CR number	Request title	Documents updated
Q01224975	7.2: NN10600-130: Introduce new AC rectifier on MSS 15k/20k	NN10600-130 <i>Nortel Multiservice Switch 15000/20000 Hardware Installation, Maintenance, and Upgrade</i>
Q01283937	7.2: PCR4.1 Troubleshooting Guide - Disk Surface Analysis Test procedure mod	No documentation impact
Q01289364	7.2: NTP changes for Fratm SIWF provisioning	No documentation impact
Q01257521	Update NTPs with info on limitation of ip accounting when ipcos is changed	NN10600-800 <i>Nortel Multiservice Switch 7400/15000/20000 IP Technology Fundamentals</i>
Q01277544	7.2: NN10600-715: TMO UK: PCR 5.2.1: Updating ATM Troubleshting & Monitoring	NN10600-715 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Fault and Performance Management</i>
Q01212518	7.2: NN10600-715: Mobistar:15k:5.2.2: PING ATM (OAM Segment) Rejected	NN10600-715 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Fault and Performance Management</i>
Q01251494	7.2: update NTP because of Q01215563 for description of start -force prov	NN10600-050 <i>Nortel Multiservice Switch 7400/15000/20000 Command Reference</i>
Q01286888	7.2: NN10600-050 - Remove references of revertible timer	NN10600-050 <i>Nortel Multiservice Switch 7400/15000/20000 Command Reference</i>
Q01250734	7.2: UBS: modulation/demodulation of fax signal causes issue for faxrelay call	NN10600-715 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Fault and Performance Management</i>
Q01271925	7.2: NN10600-120: Alternative cable spec for 16p OC3/STM1 for NTHW24/31/44/48	NN10600-120 <i>Nortel Multiservice Switch 15000/20000 Hardware Description</i>
Q01239861	7.2: Incorporate Release Note Consideration into NTP NN10600-710	NN10600-710 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Configuration Management</i>
Q01301078	7.2:NN10600-710: The Max protectedConnectionPoolAvailable is 29440 not 29696	NN10600-710 <i>Nortel Multiservice Switch 7400/15000/20000 ATM Configuration Management</i>
Q01165105	Wrong Severity Levels for alarm 70171000 in NTP document 241-5701-500	NN10600-500 <i>Nortel Multiservice Switch 6400/7400/15000/20000 Alarms Reference</i>
Q01262388	7.2: NN10600-551 & NN10600-730: need to reference the correct IMA version	NN10600-551 <i>Nortel Multiservice Switch 7400/15000/20000 FP Configuration Reference</i>

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Customer CR updates (continued)

CR number	Request title	Documents updated
Q01286966	7.2: TMO: MSS15k: PCR6.1:List of features which require card reset during activn	NN10600-551 <i>Nortel Multiservice Switch 7400/15000/20000 FP Configuration Reference</i>
Q01267066	7.2: NN10600-808: Word "to" is missing in many locations	NN10600-808 <i>Nortel Multiservice Switch 7400/15000/20000 Layer 3 Traffic Management Fundamentals</i>
Q01311290	7.2:NN10600-808: Minor edits required	NN10600-808 <i>Nortel Multiservice Switch 7400/15000/20000 Layer 3 Traffic Management Fundamentals</i>
Q01267021	7.2: NN10600-809: MPLS serviice map config subtitles are reversed	NN10600-809 <i>Nortel Multiservice Switch 7400/15000/20000 Layer 3 Traffic Management Configuration</i>
Q01267001	NTP needs to include old Release note.	NN10600-500 <i>Nortel Multiservice Switch 6400/7400/15000/20000 Alarms Reference</i>
Q01300356	PCR7.2: NN10600-780 - 6 new tonesets	NN10600-780 <i>Nortel Media Gateway 7480/15000 Technology Fundamentals</i>
Q01149361	PCR7.2: NN10600-780: update regarding retry interval algorithm	NN10600-780 <i>Nortel Media Gateway 7480/15000 Technology Fundamentals</i>
Q01292679	7.2: NN10600-550 - "Replacing a CP in a two-CP node" procedure has incorrections	NN10600-550 <i>Nortel Multiservice Switch 7400/15000/20000 Common Configuration Procedures</i>
Q01301290	PCR7.2:NN10600-550: ISN07: GNTS: PVG FP Replacement Procedure Requires Update	NN10600-550 <i>Nortel Multiservice Switch 7400/15000/20000 Common Configuration Procedures</i>
Q01313194	7.2GA: NN10600-440, MCS not showing MD status	NN10600-440 <i>Nortel Multiservice Switch 7400 Operations: Frame Relay Managed Cut Through Switching</i>
Q01298176	NN10600-271: Kapsch: routing protocol (ospf, rip) support on OamEnet	NN10600-271 <i>Nortel Multiservice Switch 7400/15000/20000 Network Management Connectivity</i> NN10600-550 <i>Nortel Multiservice Switch 7400/15000/20000 Common Configuration Procedures</i>

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Customer CR updates (continued)

CR number	Request title	Documents updated
Q01286996	BT-SPAIN/MSS7K/VR: attributes dscpRoutingSource and dscpGeneralSource	NN10600-800 <i>Nortel Multiservice Switch 7400/15000/20000 IP Technology Fundamentals</i> NN10600-801 <i>Nortel Multiservice Switch 7400/15000/20000 IP Configuration Management</i>
Q01310012	NTP modification needed for command "Lock Shelf card /n"	NN10600-050 <i>Nortel Multiservice Switch 7400/15000/20000 Command Reference</i>

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Other updates and changes

Multiservice Switch documentation is frequently updated with other changes that are not specific to a feature or customer CR. To determine the other changes made in a particular document, read its section called "What's new".



Documentation media available

This section describes the current delivery methods for Multiservice Switch documentation.

Navigation

- [Internet \(page 22\)](#)
- [Intranet \(page 22\)](#)
- [Helmsman-based CD-ROM \(page 22\)](#)

Internet

Over the Internet, you can use Helmsman Express on the Nortel web site to view, do a suite-wide search, or download documents in PDF format.

To register for access to Multiservice Switch documents on Helmsman Express, contact your Nortel account representative.

Intranet

You can install the Multiservice Switch documents on a server in your own intranet to provide access to the documentation using the Helmsman software. Install the documents and Helmsman from the [Helmsman-based CD-ROM \(page 22\)](#).

Helmsman-based CD-ROM

The Helmsman-based CD-ROM contains the current release of Multiservice Switch documentation in PDF format, viewable with the Helmsman software. The CD-ROM includes the Helmsman software as well as installation software for the PC, Unix (Sun and HP) and Macintosh platforms. Helmsman provides suite-wide search capabilities.

Installation instructions are provided on the CD-ROM.

Your Nortel account representative needs to place an order for you to receive the CD-ROMs. Depending on which Performance Pack support package you have, you receive either one copy or up to five copies of the Helmsman-based CD-ROM.

Nortel Multiservice Switch 7400/15000/20000

What's New

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