CoreBuilder® 9000
CoreBuilder 3500
Important Notice

When Upgrading CoreBuilder 9000 and CoreBuilder 3500 from Release 2.x

This important notice discusses settings to change for the following items on your CoreBuilder 9000 or CoreBuilder 3500 systems before and after you upgrade:

- Internet Group Management Protocol (IGMP) Snooping
- Distance-Vector Multicast Routing Protocol (DVMRP)
- Quality of Service (QoS)
- Bridging
- IP Open Shortest Path First (OSPF)
- IP Routing Information Protocol (RIP)
- IPX Service Advertising Protocol (SAP)
- Fiber Distributed Data Interface (FDDI)
- Web Access
- Address Resolution Protocol (ARP)
- Direct Broadcast
- Internet Control Message Protocol (ICMP)
- Simple Network Management Protocol (SNMP) Remote Monitoring (RMON)

This important notice provides procedures to verify the settings in the following scenarios:

If you have not upgraded your CoreBuilder 9000 Layer 3 Modules from Release 2.x

To upgrade your CoreBuilder 9000 Layer 3 modules from Release 2.x, complete the following steps:

1. Before you begin the upgrade, review your Release 2.x list of QoS classifiers and controls. Modify your classifiers and applied controls to reduce the number of classifiers to fewer than 50. To modify or remove a classifier, you must first remove its associated control.
2. Go to the following 3Com Web site and download Release 3.0.2 to your CoreBuilder 9000 Layer 3 interface modules:

   `http://support.3com.com/infodeli/swlib/index.htm`
3. After you have completed the download, examine the following parameters and change them as required:

Release 3.0 Command	Value Set in Release 2.x	Issue or Value After Release 3.0 Upgrade	Correct Release 3.0 Setting
qos control define	Trunk controls defined	Control index is incorrect	See Note 1.
bridge trunk define	Backplane trunk port defined	Some backplane trunk ports may not be enabled	See Note 2.
bridge trunk define	Fast Ethernet (FEN) or Gigabit Ethernet (GEN) trunk defined	Requested Flow control may be incorrect	See Note 3.
ipx interface SAPadvertising	Disabled	Enabled	See Note 4.

Note 1: *If trunked ports are defined, and QoS controls are defined for these trunked ports, they are not properly indexed after the Release 3.0.2 upgrade. You must redefine the controls.*

Note 2: *The following solution fixes the trunk port problem that occurs on the CoreBuilder 9000 chassis after you upgrade from Release 2.x to Release 3.0.2. The problem is that not all of the backplane links on a trunk are enabled after the upgrade. This problem affects all of the CoreBuilder 9000 switch fabric modules. Before you upgrade to Release 3.0.2, note which backplane ports are enabled using the* `ethernet detail` *command.*

After you upgrade, log in to the switch fabric module and reexamine the backplane port status using the `ethernet detail` *command. Also verify all backplane ports that were enabled in Release 2.x. If any ports that should be enabled show instead a requested state of* `disabled`*, use the command* `ethernet portstate enable` *to reenable the port. Use the* `ethernet detail` *command to verify that the requested state and the port state are now enabled.*

Note 3: *If Fast Ethernet (FEN) or Gigabit Ethernet (GEN) trunks are configured in Release 2.x, the requested flow control value in the displays may appear incorrectly after you upgrade to Release 3.0.2. This does not have any impact on traffic flow through the device.*

Note 4: *Before you connect a Layer 3 interface module to the network, reset the SAPadvertising parameter to its Release 2.x value.*

If you have upgraded your CoreBuilder 9000 Layer 3 Modules from Release 2.x

Note: *Loading Release 3.0.2 in this scenario has advantages only if you choose to import your Release 2.x configuration file.*

If you have already upgraded your CoreBuilder 9000 Layer 3 module from Release 2.x to Release 3.0, and you had any of the items listed in the following table set on your system at Release 2.x, they did not convert properly during the upgrade. You must manually reset each parameter as indicated in the Correct Release 3.0 Setting column. See the Notes for detailed information.

Release 3.0 Command	Value Set in Release 2.x	Issue or Value After Release 3.0 Upgrade	Correct Release 3.0 Setting
ip multicast igmp snooping	Enabled	Disabled	Reset to the Release 2.x value (See Note 5.)
ip multicast igmp query	Enabled	Disabled	Reset to the Release 2.x value
ip multicast igmp interface ttl	Enabled	Disabled	Reset to the Release 2.x value
ip multicast dvmrp mode	Enabled	Disabled	Reset to the Release 2.x value (See Note 6.)
ip multicast dvmrp interface metric	1	0	Reset to the Release 2.x value
ip multicast dvmrp tunnels define	Tunnel IP address	Tunnel does not convert	Redefine up to 8 DVMRP tunnels
qos control define	Trunk controls defined	Control index is incorrect	If trunked ports are defined, and QoS controls are defined for each port, redefine the controls.
qos control define	Ports assigned to control	Port numbers may be incorrect	Modify each QoS control to reselect the desired ports
qos classifier define	TCP/UDP source port range	Source port range is incorrect	Change the source range — start: 0 end: 65535 or a desired start – end range
bridge trunk define	Backplane trunk port defined	Some backplane trunk ports may not be enabled.	See Note 7.
bridge trunk define	Fast Ethernet (FEN) or Gigabit Ethernet (GEN) trunk defined	Requested Flow control may be incorrect	See Note 8.
bridge packetFilter create	Port Group Filter defined	No filters defined	Recreate the port group filters
bridge vlan define	NetBIOS protocol VLAN defined	VLAN protocol not listed	See Note 9.
ipx interface SAPadvertising	Disabled	Enabled	See Note 10.

Note 5: *You must make these IGMP changes regardless of whether or not you have configured IP multicasting on your Switch. If you cannot change the IGMP settings, remove the source of the multicast traffic, change the settings, and restore the source of the multicast traffic. This correction is a one-time-only change.*

Note 6*: After you (a) upgrade to Release 3.0, (b) reset your module, and (c) implement the IP Multicast IGMP changes, reset the DVMRP parameters immediately, or reconfigure the parameters to their Release 2.x settings. The DVMRP Mode, DVMRP Metric, and DVMRP Tunnels default settings are applied per IP interface for software Release 3.0. These parameters are applied to ALL IP interfaces on Release 2.x. Therefore, after you download Release 3.0, apply them only to the interfaces where you want DVMRP to be in effect.*

Note 7: *The following solution fixes the trunk port problem that occurs on the CoreBuilder 9000 chassis after you upgrade from Release 2.x to Release 3.0. This problem is that not all of the backplane links on a trunk are enabled after the upgrade and affects the CoreBuilder 9000 switch fabric modules.*

After you upgrade, log in to the switch fabric module and reexamine the backplane port status using the `ethernet detail` *command. Also verify all backplane ports that were enabled in Release 2.x. If any ports that should be enabled show instead a requested state of* `disabled`*, use the command* `ethernet portstate enable` *to reenable the port. Use the* `ethernet detail` *command to verify that the requested state and the port state are now enabled.*

Note 8: *If Fast Ethernet (FEN) or Gigabit Ethernet (GEN) trunks are configured in Release 2.x, the requested flow control value in the displays may appear incorrectly after you upgrade to Release 3.0. This does not have any impact on traffic flow through the device.*

Note 9: *The NetBEUI protocol-based VLANs were incorrectly named NetBIOS in Release 2.x. This naming has been corrected in Release 3.0. However, the* `bridge vlan detail` *command does not display the protocol type for NetBEUI VLANs that are converted from Release 2.x.*

Note 10: *Before you connect a Layer 3 interface module to the network, reset the SAPadvertising parameter to its Release 2.x value.*

If you have not upgraded your CoreBuilder 3500 from Release 2.x

To upgrade your CoreBuilder 3500 from Release 2.x, complete the following steps:

1. Before you begin the upgrade, review your Release 2.x list of QoS classifiers and controls. Modify your classifiers and applied controls, if necessary, to reduce the number of classifiers to fewer than 50. To modify or remove a classifier, you must first remove its associated control.
2. Go to the following 3Com Web site and download Release 3.0.2 to your CoreBuilder 3500:

   `http://support.3com.com/infodeli/swlib/index.htm`
3. After you have completed the download, examine the following parameters and change them as required:

Release 3.0 Command	Value Set in Release 2.x	Issue or Value After Release 3.0 Upgrade	Correct Release 3.0 Setting
qos control define	Trunk controls defined	Control index is incorrect	See Note 11.
ip ospf policy define ip rip policy define	Administrative weight = 16	Administrative weight = 0	Modify the policy to set the weight to a value of less than 16
ipx interface SAPadvertising (n/a for 3500, Release 2.0)	Disabled	Enabled	See Note 12.
snmp rmonConfiguration	transmitAndReceive	receive	Reset the value to your Release 2.x setting
analyzer add analyzer start	analyzer ports monitored ports	No values No values	Reset the value to your Release 2.x setting

Note 11: *If trunked ports are defined, and QoS controls are defined for these trunked ports, they are not properly indexed after the Release 3.0.2 upgrade. You must redefine the controls.*

Note 12: *Before you connect a CoreBuilder 3500 to the network, reset the SAPadvertising parameter to its Release 2.x value.*

If you have upgraded your CoreBuilder 3500 from Release 2.x

Note: *Loading Release 3.0.2 in this scenario has advantages only if you choose to import your Release 2.x configuration file.*

If you have already upgraded your CoreBuilder 3500 from Release 2.x to Release 3.0, and you had any of the items listed in the following table set on your system at Release 2.x, they did not convert properly during the upgrade. You must manually reset each parameter as indicated in the Correct Release 3.0 Setting column. See the Notes for detailed information.

Release 3.0 Command	Value Set in Release 2.x	Issue or Value After Release 3.0 Upgrade	Correct Release 3.0 Setting
ip multicast igmp snooping	Enabled	Disabled	Reset to the Release 2.x value (See Note 13.)
ip multicast igmp query	Enabled	Disabled	Reset to the Release 2.x value
ip multicast igmp interface ttl	Enabled	Disabled	Reset to the Release 2.x value
ip multicast dvmrp mode	Enabled	Disabled	Reset to the Release 2.x value (See Note 14.)
ip multicast dvmrp interface metric	1	0	Reset to the Release 2.x value
ip multicast dvmrp tunnels define	Tunnel IP address	Tunnel does not convert	Redefine up to 8 DVMRP tunnels
qos classifier define	>50 flow classifier filters	Device may assert	See Note 15.
qos control define	Trunk controls defined	Control index is incorrect	If trunked ports are defined, and QoS controls are defined for each port, redefine the controls.
bridge trunk define	Fast Ethernet (FEN) or Gigabit Ethernet (GEN) trunk defined	Requested Flow control may be incorrect	See Note 16.
bridge port gvrpstate	GVRP enable	VLANs become static	See Note 17.
bridge vlan define	NetBIOS protocol VLAN defined	VLAN protocol not listed	See Note 18.
ip ospf policy define ip rip policy define	Administrative weight = 16	Administrative weight = 0	Modify the policy to set the weight to a value of less than 16
ipx interface SAPadvertising (n/a for 3500, Release 2.0)	Disabled	Enabled	See Note 19.
fddi path tvxLowerBound	Any value in range	2500	Reset the value to your Release 2.x setting
fddi path tmaxLowerBound	Any value in range	165000	Reset the value to your Release 2.x setting
fddi path maxTreq	Any value in range	165000	Reset the value to your Release 2.x setting
system webAccess	Disabled	Enabled	Reset the value to your Release 2.x setting
ip interface arpProxy	Disabled	Enabled	Reset the value to your Release 2.x setting
ip interface directedBroadcast	Disabled	Enabled	Reset the value to your Release 2.x setting
ip interface icmpRedirect	Disabled	Enabled	Reset the value to your Release 2.x setting

Release 3.0 Command	Value Set in Release 2.x	Issue or Value After Release 3.0 Upgrade	Correct Release 3.0 Setting
ip interface icmpRouterDiscovery	Enabled	Disabled	Reset the value to your Release 2.x setting
ip interface icmpRouterDiscovery			Reset all to their Release 2.x settings
Preference	Any value in range	0	
MaxAdvInterval	Any value in range	600	
MinAdvInterval	Any value in range	450	
HoldTime	Any value in range	1800	
snmp rmonConfiguration	transmitAndReceive	Receive	Reset the value to your Release 2.x setting
analyzer add	analyzer ports	No values	Reset the value to your Release 2.x setting
analyzer start	monitored ports	No values	Reset the value to your Release 2.x setting

Note 13: *You must make these IGMP changes regardless of whether or not you have configured IP multicasting on your Switch. If you cannot change the IGMP settings, remove the source of the multicast traffic, change the settings, and restore the source of the multicast traffic. This correction is a one-time-only change.*

Note 14*: After you (a) upgrade to Release 3.0, (b) reset your module, and (c) implement the IP Multicast IGMP changes, reset the DVMRP parameters immediately or reconfigure the parameters to their original Release 2.x settings. The DVMRP Mode, DVMRP Metric, and DVMRP Tunnels default settings are applied per IP interface. These parameters are applied to ALL IP interfaces on Release 2.x. Therefore, after you download Release 3.0, apply them only to the interfaces where you want DVMRP to be in effect.*

Note 15: *Only the first 50 QoS classifiers will convert, creating two classifiers each in the Release 3.0 QoS format. If you attempt to remove a control connected to one of the classifers that were not converted, the module will assert. To resolve this problem, restore you device to the Release 2.x software, perform an NVDataRestore, and download Release 3.0.2 code.*

Note 16: *If FEN or GEN trunks are configured in Release 2.x, the requested flow control value in the menus may appear incorrectly after you upgrade to Release 3.0. This does not have any impact on traffic flow through the device.*

Note 17: *After you upgrade to Release 3.0, GVRP VLANs convert to static VLANs if the GVRP traffic is running during the upgrade. You cannot remove static VLANs via the* `bridge vlan remove` *command while GVRP traffic is running and GVRP is enabled. Remove the VLANs by removing the source of GVRP traffic or by disabling GVRP on the device.*

Note 18: *The NetBEUI protocol-based VLANs were incorrectly named NetBIOS in Release 2.x. This naming has been corrected in Release 3.0. However, the* `bridge vlan detail` *command does not display the protocol type for NetBEUI VLANs that are converted from Release 2.x.*

Note 19: *Before you connect a CoreBuilder 3500 to the network, reset the SAPadvertising parameter to its Release 2.x value.*

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