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Santa Clara, CA 95054

# Adding MAC Addresses to the Passport 8000 Series Chassis



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This document describes how to upgrade the media access control (MAC) addresses to a total of 4096 MAC addresses on the following Nortel Networks\* Passport\* 8000 Series Chassis:

- Passport 8010co
- Passport 8010
- Passport 8006



**Note:** This new block of 4096 MAC addresses overwrites the 1024 MAC addresses currently on the Passport 8000 chassis. (This prevents overlapping MAC addresses.)

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Your MAC address kit contains:

- an Additional MAC Addresses License
- 2 labels printed with the base MAC address of your new block of MAC Addresses
- Documentation

This document discusses the following topics:

Topic	Page number
<a href="#">Before you start</a>	next
<a href="#">Installing MAC addresses using the CLI</a>	<a href="#">3</a>
<a href="#">Installing MAC addresses using the NNCLI (Passport 8300 only)</a>	<a href="#">6</a>
<a href="#">Using the CLI to display the base MAC address</a>	<a href="#">9</a>

Topic	Page number
Using the NNCLI to display the base MAC address (Passport 8300 only)	10
Using Device Manager to display the base MAC address	12
Applying the labels	14
Hard-copy technical manuals	14
How to get help	15

## Before you start



**Note:** Reprogramming the chassis MAC address range requires a system reboot upon completion. Please schedule chassis MAC reprogramming accordingly.

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You need the following information to install the new block of MAC addresses to your 8000 chassis:

- License code
- Base MAC address of your new block of MAC addresses

You will find this information on the Additional MAC Addresses License.

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**Warning:** Each Additional MAC Addresses License allows you to upgrade one switch. If you enter the same license code on two switches, both switches will be configured with the same MAC address which will result in serious networking issues.

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## Installing MAC addresses using the CLI

You can use the Command Line Interface (CLI) to install the new block of MAC addresses. The required CLI command is in the boot monitor or run-time CLI.

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**Note:** The CLI command is a hidden command; it does not show in response to the ? command.

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To install the new block of MAC addresses to your chassis:

- 1 At the prompt, enter:

```
config bootconfig upgrade-mac-addr  
<base-mac-addr> <licensecode>
```

where

- *base-mac-addr* is the base MAC address shown on the Additional MAC Addresses License in the box labeled Base MAC Address

Enter this address in the format xx:xx:xx:xx:xx:xx

- *licensecode* is the license code shown on the Additional MAC Addresses License in the box labeled License Code

**2** The system displays the following information:

Base MAC address: <base-mac-addr>

License Code: <licensecode>

Are you sure you want to upgrade the Mac addresses (y/n)?

**3** Enter **y**.



**Warning:** You are about to reprogram your chassis EEPROM. Do NOT turn off power or press reset until the process is complete. Otherwise, the chassis may be permanently damaged!!!

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If you enter n, the system returns you to the prompt line.

**4** Once the MAC address upgrade successfully completes, the system displays the following information:

You have successfully completed reprogramming the Chassis with 4096 MAC addresses. Please write down the Chassis Serial number as displayed below in the upgrade kit sent to you for your records. Chassis serial number is: (ddddddddd)  
Please place the supplied MAC address barcode label on the right side of the

chassis. Please place the second supplied MAC address label (number only) over the existing label on the front of the chassis.

Need to reboot the switch for the upgraded MAC address kit to take effect. Do you want to reboot the switch now? (y/n)

**a** Enter **y**.

The system displays the following information:

For Dual CPU, SLAVE CPU also needs to be re-booted.



**Note:** This message appears even if the slave CPU is inactive or if you are working on a 3-slot chassis.

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**b** If you enter **n**, the system displays the following information:

It is highly recommended to reboot the switch after upgrading the MAC address kit.



**Note:** If you supply the incorrect values for the base MAC address or for the license code, the system displays the following information:  
invalid license code.

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**Note:** For new MAC addresses to take effect, you need to reboot your switch.

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## Installing MAC addresses using the NNCLI (Passport 8300 only)

You can use the NNCLI to install the new block of MAC addresses. The required NNCLI command is in the **Global Config** mode.

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**Note:** The NNCLI command is a hidden command; it does not show in response to the ? command.

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To install the new block of MAC addresses to your chassis:

1 At the prompt, enter:

```
bootconfig upgrade-mac-addr <base-mac-addr> <licensecode>
```

where

- *base-mac-addr* is the base MAC address shown on the Additional MAC Addresses License in the box labeled Base MAC Address.

Enter this address in the format xx:xx:xx:xx:xx:xx

- *licensecode* is the license code shown on the Additional MAC Addresses License in the box labeled License Code

**2** The system displays the following information:

Base MAC address: <base-mac-addr>

License Code: <licensecode>

Are you sure you want to upgrade the Mac addresses (y/n)?

**3** Enter **y**.



**Warning:** You are about to reprogram your chassis EEPROM. Do NOT turn off power or press reset until the process is complete. Otherwise, the chassis may be permanently damaged!!!

---

If you enter n, the system returns you to the prompt line.

**4** Once the MAC address upgrade successfully completes, the system displays the following information:

You have successfully completed reprogramming the Chassis with 4096 MAC addresses. Please write down the Chassis Serial number as displayed below in the upgrade kit sent to you for your records. Chassis serial number is: (ddddddddd)  
Please place the supplied MAC address barcode label on the right side of the chassis. Please place the second supplied MAC address label (number only) over the existing label on the front of the chassis.  
Need to reboot the switch for the

upgraded MAC address kit to take effect.  
Do you want to reboot the switch now?  
(y/n)

**a** Enter **y**.

The system displays the following information:

For Dual CPU, SLAVE CPU also needs to  
be re-booted.



**Note:** This message appears even if the slave CPU is  
inactive or if you are working on a 3-slot chassis.

---

**b** If you enter **n**, the system displays the following  
information:

It is highly recommended to reboot  
the switch after upgrading the MAC  
address kit.



**Note:** If you supply the incorrect values for the base  
MAC address or for the license code, the system displays  
the following information:  
invalid license code.



**Note:** For new MAC addresses to take effect, you need to  
reboot your switch.

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# Using the CLI to display the base MAC address

You display the base MAC address by issuing a CLI command in the run-time CLI:

To show the Base MAC address:

1 Enter:

```
show sys info
```

2 The system displays the following information:

Sys Info:

General Info:

```
SysDescr      Passport-8610 (3.5.00)
SysName       Passport-8010
SysUpTime     11 day(s), 22:21:20
SysContact    John Doe x57533
SysLocation:  Main Lab
```

Chassis Info:

```
Chassis       8010
Serial #      ssnm000016
HwRev         1
NumSlots      10
NumPorts      143
GlobalFilter   enable
VLANBySrcMac  disable
Ecn-Compatib  :enable
BaseMacAddr   00:80:2d:39:d0:00
MacAddrCapacity: 4096
Temperature   32 C
```

```
MgmtMacAddr    00:80:2d:39:d3:f4
System MTU     1950
clock_sync_time: 60
```

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**Note:** You can also display the base MAC address using the CLI command `show tech`.

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## Using the NNCLI to display the base MAC address (Passport 8300 only)

You display the base MAC address by issuing an NNCLI command in the **Global Config** command mode:

To show the Base MAC address:

1 Enter:

```
show sys-info
```

2 The system displays the following information:

```
Passport-8310:5(config)#show sys-info
```

```
msg-control : disable
```

```
General Info:
```

```
SysDescr      Passport-8310 (2.0.0.0)
SysName       Passport-8310
```

```
SysUpTime      16 day(s), 20:14:20
SysContact     John Doe
SysLocation:   Main Lab
Chassis Info:
Chassis        8310
Serial #       ssnm00000Q
HwRev          A
NumSlots       10
NumPorts       143
GlobalFilter   enable
VLANBySrcMac   disable
Ecn-Compatib  :enable
BaseMacAddr    00:80:2d:39:d0:00
MacAddrCapacity: 4096
Temperature    32 C
MgmtMacAddr    00:80:2d:39:d3:f4
clock_sync_time: 60
```



**Note:** You can also display the base MAC address using the NNCLI command `show tech`.

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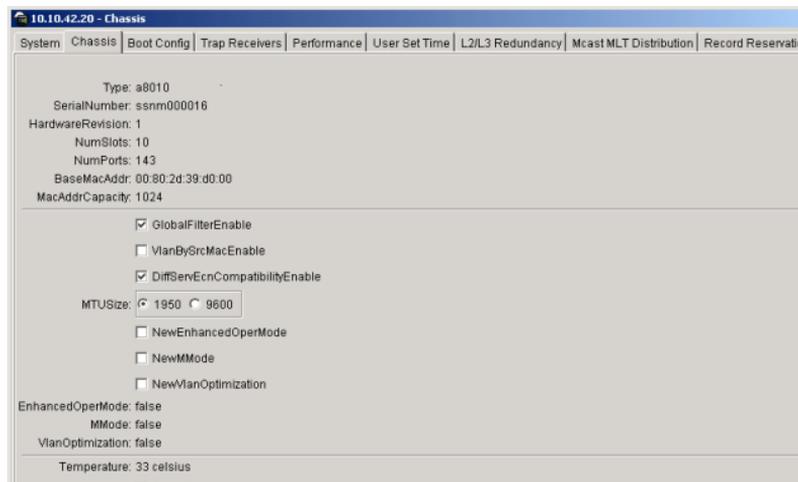
# Using Device Manager to display the base MAC address

To display the base MAC address using Device Manager:

- 1 Launch Device Manager.
- 2 Select the chassis.
- 3 Choose Edit.

The Chassis tab opens, with the System Tab displays.

- 4 Choose the Chassis tab.



Field	Description
BaseMacAddr	Displays the base MAC address information

<b>Field</b>	<b>Description</b>
MacAddrCapacity	Displays the total number of MAC addresses



**Note:** After upgrading the MAC addresses, the MacAddrCapacity shows 4096 (not the 1024 shown here).

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## Applying the labels

Please place the supplied MAC address barcode label on the right side of the chassis near the serial order number and order number labels.

Please the other supplied label (number only) on the front of the chassis over the existing label for easy reference. (Not all chassis have an existing label on the front of the chassis.)

## Hard-copy technical manuals

You can print selected technical manuals and release notes free, directly from the Internet. Go to the [www.nortelnetworks.com/documentation](http://www.nortelnetworks.com/documentation) URL. Find the product for which you need documentation. then locate the specific category and model or version for your hardware or software product. Use Adobe\* Acrobat Reader\* to open the manuals and release notes, search for the sections you need, and print them on most standard printers. Go to Adobe Systems at the [www.adobe.com](http://www.adobe.com) URL to download a free copy of the Adobe Acrobat Reader.

## How to get help

If you purchased a service contract for your Nortel Networks product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance. If you purchased a Nortel Networks service program, contact Nortel Networks Technical Support. To obtain contract information online, go to the [www.nortelnetworks.com/cgi-bin/comments/comments.cgi](http://www.nortelnetworks.com/cgi-bin/comments/comments.cgi) URL and click Technical Support. From the Technical Support page, you can open a Customer Service Request online or find the telephone number for the nearest Technical Solutions Center. If you are not connected to the Internet, you can call 1-800-4NORTEL (1-800-466-7835) to learn the telephone number for the nearest Technical Solutions Center.

