

Chapter 18

Display Basic Chassis Information

This chapter describes how to obtain basic system information, including a list of all Flexible PIC Concentrators (FPCs) and Physical Interface Cards (PICs) installed in the router chassis, the hardware version level, and the serial number. (See Table 40.)

Table 40: Checklist for Displaying Basic Chassis Information

Display Basic Chassis Information Task	Command or Action
Display Basic Chassis Information on page 228	show chassis hardware <detail>

Display Basic Chassis Information

Purpose Before you return a router component to Juniper Networks, you must contact the Juniper Networks Technical Assistance Center (JTAC) with the serial number of the failed component and failure information. JTAC will then grant a Return Materials Authorization (RMA).

Action To display a list of the serial numbers of components installed in the router chassis, use the following JUNOS command-line interface (CLI) operational mode command:

```
user@host> show chassis hardware <detail>
```

Sample Output user@host> show chassis hardware

Hardware inventory:

Item	Version	Part number	Serial number	Description
Chassis			25708	M20
Backplane	REV 03	710-002334	BB9738	
Power Supply A	REV 06	740-001465	005234	AC
Power Supply B	REV 06	740-001465	005237	AC
Display	REV 04	710-001519	BA4681	
Routing Engine 0	REV 06	740-003239	1000224893	RE-2.0
Routing Engine 1	REV 06	740-003239	9000022146	RE-2.0
SSB slot 0	REV 02	710-001951	AZ8112	Internet Processor II
SSB slot 1	N/A	N/A	N/A	backup
FPC 0	REV 03	710-003308	BD8455	E-FPC
PIC 0	REV 08	750-002303	AZ5310	4x F/E, 100 BASE-TX
PIC 1	REV 07	750-004745	BC9368	2x CT3-NxDSO
FPC 1	REV 03	710-003308	BB9032	E-FPC
PIC 0	REV 03	750-002914	BC0131	2x OC-3 ATM, MM

```
user@host> show chassis hardware
```

Hardware inventory:

Item	Version	Part number	Serial number	Description
Chassis			00159	M40
Backplane	REV 08	710-000073	AA2125	
Power Supply B	Rev A1	740-000235	000289	DC
Maxicab	REV 08	710-000229	CA4516	
Minicab	REV 04	710-001739	CA4610	
Display	REV 07	710-000150	AA5145	
Routing Engine	REV 07	740-005022	P10865702236	RE-3.0
SCB	REV 03	710-007684	CA3900	Internet Processor II
FPC 1	REV 01	710-001292	AL7435	
PIC 0	REV 03	750-000617	AA3530	1x OC-48 SONET, SMIR
FPC 2	REV 09	710-000175	AA4740	
PIC 0	REV 03	750-000617	AA4557	1x OC-48 SONET, SMIR
FPC 3	REV 01	710-001292	AB4775	
PIC 0	REV 03	750-000612	AA1771	2x OC-3 ATM, MM
PIC 1	REV 03	750-002977	AV3457	2x OC-3 ATM, MM
FPC 5	REV 01	710-001292	AC5118	
PIC 1	REV 03	750-003628	AS8882	1x G/E, 1000 BASE-LH

```

user@host> show chassis hardware detail
Hardware inventory:
Item                Version  Part number  Serial number  Description
Chassis              25708      M20
Backplane            REV 03    710-002334   BB9738
Power Supply A       REV 06    740-001465   005234        AC
Power Supply B       REV 06    740-001465   005237        AC
Display              REV 04    710-001519   BA4681
Routing Engine 0     REV 06    740-003239   1000224893    RE-2.0
Routing Engine 0     58000007348d9a01 RE-2.0
Routing Engine 1     REV 06    740-003239   9000022146    RE-2.0
Routing Engine 1     d800000734745701 RE-2.0
SSB slot 0           REV 02    710-001951   AZ8112        Internet Processor II
  SSRAM bank 0       REV 02    710-001385   242525        2 Mbytes
  SSRAM bank 1       REV 02    710-001385   242741        2 Mbytes
  SSRAM bank 2       REV 02    710-001385   242886        2 Mbytes
  SSRAM bank 3       REV 02    710-001385   242482        2 Mbytes
SSB slot 1           N/A      N/A          N/A          backup
FPC 0                REV 03    710-003308   BD8455        E-FPC
  SSRAM              REV 02    710-001385   241669        2 Mbytes
  SDRAM bank 0       REV 01    710-000099   0003409       64 Mbytes
  SDRAM bank 1       REV 01    710-000099   0003408       64 Mbytes
  PIC 0              REV 08    750-002303   AZ5310        4x F/E, 100 BASE-TX
  PIC 1              REV 07    750-004745   BC9368        2x CT3-NxDS0
FPC 1                REV 03    710-003308   BB9032        E-FPC
  SSRAM              REV 01    710-001385   V00818        2 Mbytes
  SDRAM bank 0       REV 01    710-000099   0003803       64 Mbytes
  SDRAM bank 1       REV 01    710-000099   0003847       64 Mbytes
  PIC 0              REV 03    750-002914   BC0131        2x OC-3 ATM, MM

```

What It Means The sample output is for an M20 and an M40 router. It shows a list of all FPCs and PICs installed in the router chassis, including the hardware version level and serial number.

The **detail** option displays detailed information about hardware, including memory, hardware version level, serial number, and additional information about memory.

If the Routing Engine is identified by a 10- and 16-digit serial number, both numbers are displayed in the output for the **detail** option, and are especially important when processing an RMA for such a Routing Engine. In addition, when you request an RMA for the M40 router, include the **maxicab** serial number.

Table 41 provides a description of all the output fields for the `show chassis hardware` command.

Table 41: Output fields for the `show chassis hardware` command

Output field	Description
Item	(For M-series routers) Chassis component. Information is displayed about the backplane; power supplies; Routing Engine; maxicab (the connection between the Routing Engine and the backplane, for the M40 router only); System Control Board (SCB), System and Switch Board (SSB), Switching and Forwarding Module (SFM), or Forwarding Engine Board (FEB); Miscellaneous Control Subsystem (MCS) and PFE clock generator (PCG) (for the M160 router only); and each FPC and PIC. (For T-series platforms) Chassis component. Information is displayed about the backplane, power supplies, midplane, Control Board (CB), Connector Interface Panel (CIP), FPC, Front Panel Module (FPM) (craft interface), Power Entry Module (PEM), PIC, SONET Clock Generator (SCG), Small Form-factor Pluggable (SFP) modules, Switch Interface Board (SIB), and Switch Processor Mezzanine Board (SPMB).
Version	Revision level of the chassis component.
Part number	Part number of the chassis component.
Serial number	Serial number of the chassis component. For all RMAs, the chassis serial number must be provided to JTAC. If the RMA is for the chassis itself, you must obtain the backplane or midplane serial number as well.
Description	Brief description of the hardware item.



NOTE: When you request an RMA, you must also include output from the `show chassis environment` command, the `show version` command, and the troubleshooting output used to identify the failure.