

**Prerequisites**

- HP NA 7.2+
- HP GbE2c Ethernet Blade Switch (version 1.0 or later)
- HP GbE2c Layer 2/3 Ethernet Blade Switch (version 1.1 or later)

**Installation**

1. Install HP NA
2. Place the *HP-GbE2c.rdp* device driver file on the HP NA system. You may have a driver extension directory already configured where other drivers are located,
3. Login to HP NA
4. Click **Admin > Administrative Settings > Server**
5. In the “Driver extension directory” text box, enter the directory where the RDP file was placed from step 2 (Ref: Figure 1)

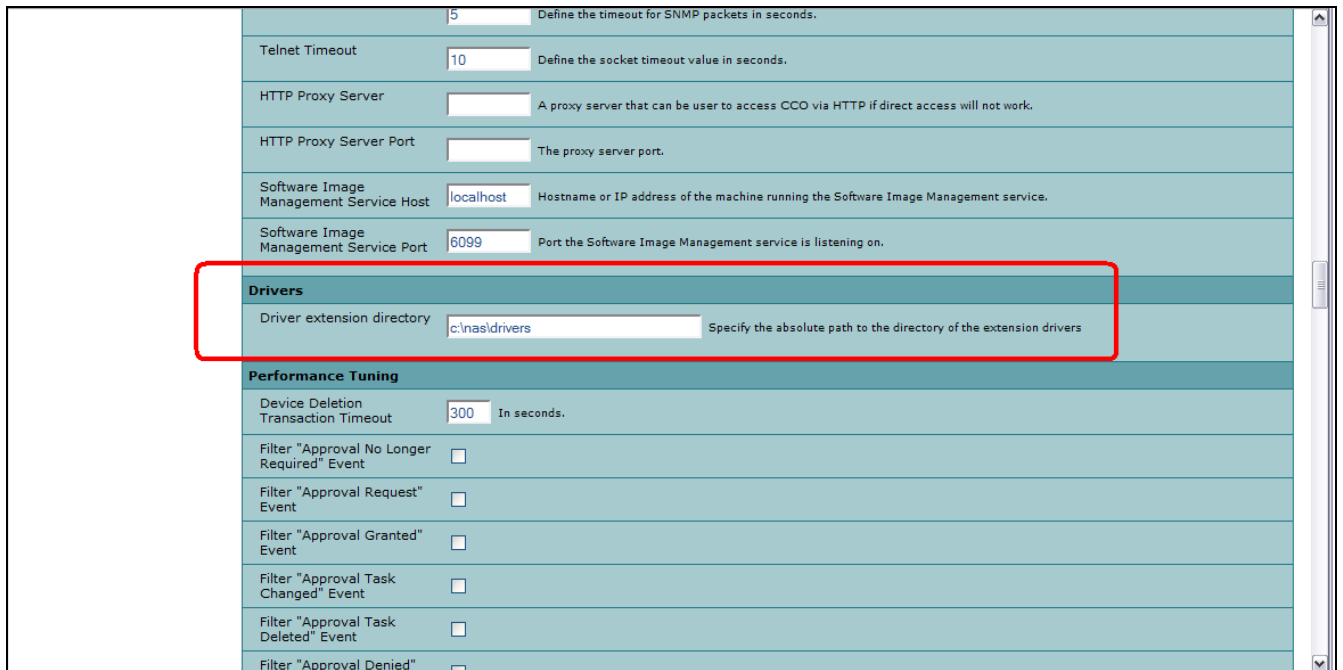


Figure 1 Admin > Administrative Settings > Server Page showing Drivers section

6. Click “Save” button located at the bottom of the page
7. Click **Admin > Drivers**
8. Click Reload Drivers link to load the newly added driver (Ref: Figure 2). If the driver is loaded successfully, it is listed as “HP GbE2c Ethernet Blade Switch for HP c-Class BladeSystem”.  
**Note:** It has been observed at times that HP NA doesn’t load the drivers immediately. You may

have to click Reload Drivers couple of times to achieve this.

The screenshot displays the HP Network Automation interface. The top navigation bar includes 'Support', 'Docs', 'HP Live Network', and 'Logout'. The main navigation menu has 'Devices', 'Tasks', 'Policies', 'Reports', and 'Admin'. The current page is 'Admin > Drivers'. On the left, there is a 'Search' section with a text input for 'IP or Hostname' and a 'Connect' button. Below that is the 'My Workspace' section with links for 'Current Device Group', 'Inventory', 'My Favorites', and 'My Settings'. The main content area shows a table of drivers. The table has the following columns: Description, Internal Name, Build Number, Author, Certified, and In Use. The table lists various drivers, including 3Com switches, Adtran routers, Alcatel switches, APC Master Switch, ArrisCadant CMTS, Foundry routers, Funkwerk Artem, and HP ProCurve switches. A red box highlights the 'Reload Drivers' button in the top right corner. Another red box highlights the row for 'HP GbE2c Ethernet Blade Switch for HP c-Class BladeSystem'.

Description	Internal Name	Build Number	Author	Certified	In Use
3Com 5500E1 24 port switch, OS Version 3.x	3Com5500	4516-042208		✓	
3Com SuperStack 3 switches, OS version 3.x, 6.x	3ComSuperStackIII	4516-042208		✓	
3Com SuperStack II switches, OS version 2.x	3ComSuperStackII	4516-042208		✓	
Adtran Atlas routers, Models 550 and 890, OS version C.08.x	Atlas	4516-042208		✓	
Adtran NetVanta routers, OS version 07.x, 14.x	NetVanta	4516-042208		✓	
Alcatel 7450 and 7750 series switches, OS version 5.0	Alcatel7450	4516-042208		✓	
Alcatel OmniSwitch Switch, 6000 Series, OS version 5.3.x.x.x	OmniSwitch6K	4516-042208		✓	
APC Master Switch, 7900 Series, OS version 2.2.x	APCMasterSwitch	4516-042208		✓	
Arris Cadant CMTS, C4, CMTS_V04.02	ArrisCadant	4516-042208		✓	
Foundry routers and switches, Software version 07.1.x	Foundry	4516-042208		✓	
Funkwerk Artem W3002T, OS version 6.05	Funkwerk	4516-042208		✓	
HP GbE2c Ethernet Blade Switch for HP c-Class BladeSystem	HP-GbE2c	2008-2509-1	BLADE Network Technologies	✓	
HP ProCurve switches 2610, 3500, 5406, 5412, 8212 series. OS versions 11.x, 12.x	HPProcurve3500	2008-2509-1		✓	
HP ProCurve switches 3400, OS version 8.x	HPProcurve3400	4516-042208		✓	

Figure 2 Admin > Drivers page

## Usage

1. To discover the device click **Devices > New Device** to launch New Device page.
2. Fill in the following information (Ref: Figure 3)
  - a. IP Address of the switch
  - b. Select “Auto Discover Driver” option for “Device Driver”
  - c. Select “Use device-specific password information” under “Password Information” and fill-in the User Name, Password, Confirm Password, SNMP Read-Only Community String and SNMP Read/Write Community String information (the rest of the fields can be blank).
  - d. Click “Save Device” button to discover the switch. Here, HP NA assigns the appropriate driver based on sysObjectID.

Or...  
Search For

IP Address (or DNS name)  Enter either an IP Address or a DNS Hostname.

Hostname  Either IP Address or Host Name is required.

Belongs to Groups  Device will be a member of selected groups. Dynamic groups are not listed since you cannot manually change the membership for a dynamic group.

Change Detection and Polling  Enabled  Polling Only  Disabled

Management Status  Active  Inactive

Device Driver  Auto Discover Driver  Specify Driver

Comments

**Password Information**

Use network-wide password rules

Use this password rule first

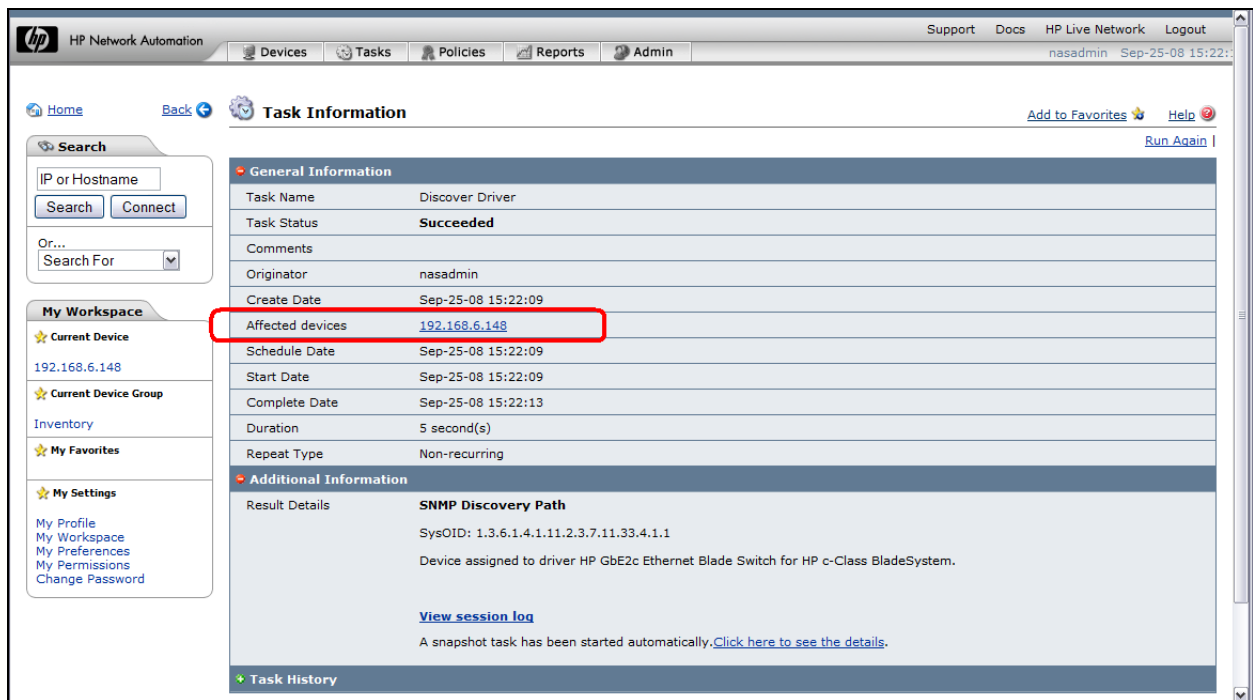
Use device-specific password information

Username

Password

Figure 3 Devices > New Device page

3. If "Save Device" succeeds, HP NA discovers the device and shows the device specific information in "Task Information" page (Ref: Figure 4).



*Figure 4 Task Information page*

4. To view the device information, click the device IP address link shown in "Task Information" page under "Affected devices" (Ref: Figure 5) or you can search the IP address through "Search" panel shown in the left side of the page.
5. For checking other device specific details, it is required to take the snap shot of the device first. Click **Edit & Provision > Take Snapshot** to take the snap shot (Ref: Figure 5).

HP Network Automation Support Docs HP Live Network Logout  
nasadmin Sep-25-08 15:27:23

Devices Tasks Policies Reports Admin

Home Back **192.168.6.148** Add to Favorites Help

Search

IP or Hostname

Or...

Search For

My Workspace

- Current Device
- 192.168.6.148
- Current Device Group
- Inventory
- My Favorites
- My Settings
- My Profile
- My Workspace
- My Preferences
- My Permissions
- Change Password

Hostname [192.168.6.148](#)

Device IP [192.168.6.148](#)

Last Snapshot Attempt Sep-25-08 09:57:12

Last Snapshot Result Task run [Watch Device](#)

View **Edit & Provision** Connect

**Device Details**

Device Description:

FQDN:

Comments

Vendor: HP

Model: HP GbE2c Ethernet Blade Switch for HP c-Class BladeSystem

Software Version: 4.0.1

Driver Name: HP GbE2c Ethernet Blade Switch for HP c-Class BladeSystem

Device Type: Switch

Serial Number: MY36012345

Asset Tag:

System Memory:

Location:

Device Origin: Manually added by bntadmin (Create Date: Apr-13-09 09:45:06)

Last Successful Snapshot: Sep-25-08 09:57:12

Last Configuration Change: Sep-25-08 09:48:17 (nasadmin)

Last Access Attempt: Sep-25-08 09:57:14

Last Access Success: Sep-25-08 09:57:14

Change Detection and [Inventory](#) Enabled

Figure 5 Device Details page

6. In the resulting “**New Task**” page (Ref: Figure 6), press “Save Task” button to start the task (this page can also be used to set various options). Taking snapshot usually takes few minutes to complete. When it is running the “Task Status” label displays the message “**Running**” with a progress bar.

Upon successful completion of taking snapshot, the “Task Information” page shows addition details with Task Status set to “Succeeded” (Ref: Figure 7).

Home Back **New Task - Take Snapshot** Add to Favorites Help

Search  
IP or Hostname  
Search Connect  
Or...  
Search For

My Workspace  
Current Device  
192.168.6.148  
Current Device Group  
Inventory  
My Favorites  
My Settings  
My Profile  
My Workspace  
My Preferences  
My Permissions  
Change Password

Notes:  
\* Required fields

Save Task Cancel Task

Task Name Take Snapshot

\*Applies to  
 Single Device 192.168.6.148 (Host Name or IP Address) [Select current device](#)  
 Single Group Select device group  
 Multiple Devices/Groups  
 CSV File Browse...  
[Task CSV Template](#)

Start Date  
 Start As Soon As Possible  
 Start At 2008-09-25 16:00

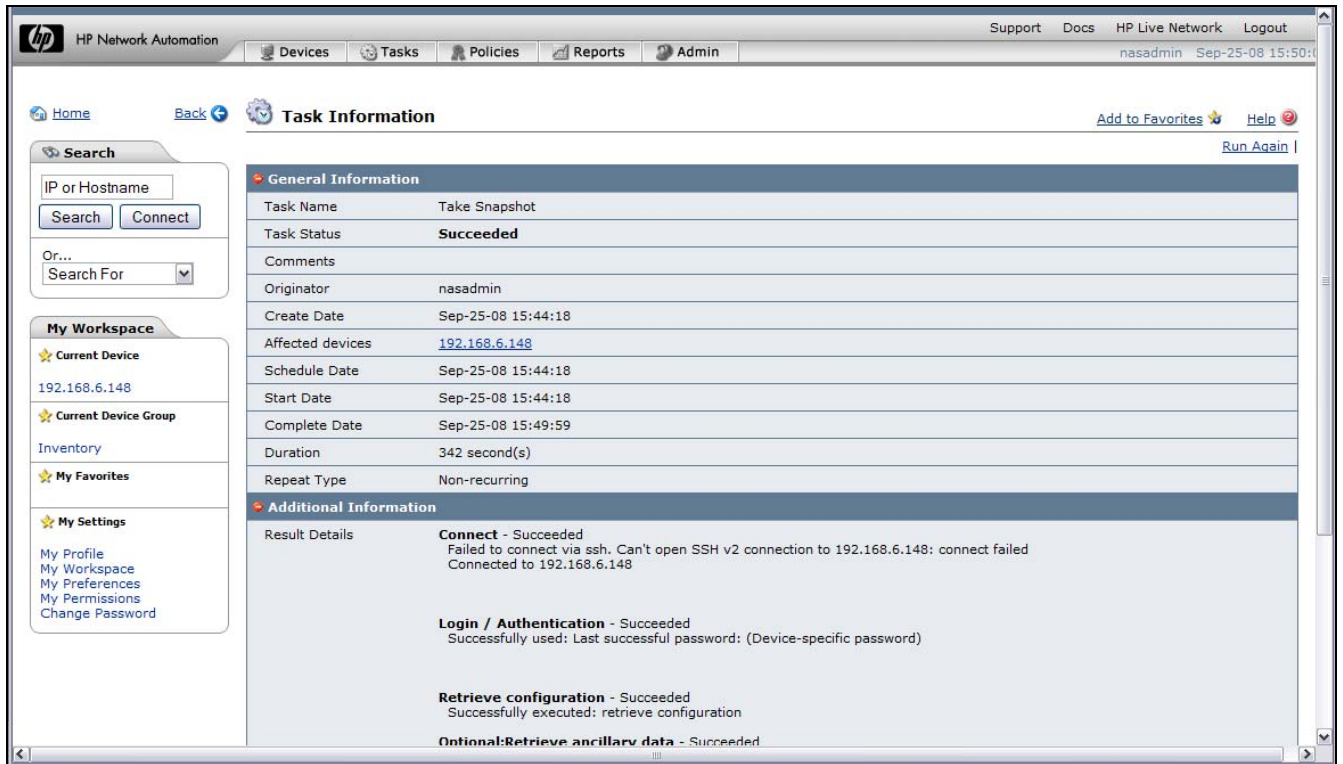
Comments

Task Options  
 Store complete device session log  
May store large amounts of data, recommended only for device troubleshooting.  
 Make snapshot a checkpoint  
Configuration will be stored regardless of whether there is a change.  
 Retrieve binary configuration (if supported)

\*Estimated Duration 60 Minutes

Scheduling Options

Figure 6 New Task > Take Snapshot page



*Figure 7 Task Information page showing the details after successfully gathering the snapshot*

7. To view the other details, click the device IP address link of “Affected devices” label, which brings up the device details page (Ref: Figure 5).

## HP NA features of the HP GbE2c driver at a glance

	Feature	CLI	SNMP	TFTP/CLI
X	<b>Driver Discovery</b>	n/a	X	n/a
X	<b>General Access</b> (CLI protocols: telnet, ssh1, ssh2, console)	X		X
X	<b>Configuration Snapshot</b> (Startup configuration captured: yes)	X		X
X	<b>Device information parsing</b>	X		X
X	<b>Enhanced Layer2 Basic IP information parsing</b>	X		X
X	<b>Configuration Deployment</b> (Destinations: to running, to startup with reboot)			X
X	<b>Routing Table</b>	X		
X	<b>OSPF Neighbors</b>	X		
X	<b>Interfaces</b>	X		
	<b>Modules and Inventory</b>			
	<b>Flash Storage Space</b>			
	<b>File System</b>			
	<b>Uptime</b>			
	<b>ICMP Test</b>			
X	<b>Topology Parsing</b>	X		
	<b>Duplex Mismatch Parsing</b>			
X	<b>Software Center</b>	X		
X	<b>Password Management</b> (Can modify: admin/oper/user password, read-only community strings, read/write community strings)	X		
X	<b>Syslog Configuration and Change Detection</b>	X		
X	<b>Custom Scripts and Diagnostics</b> (Bulk deploy available).	X		
X	<b>ACL Management</b>	X		
	<b>Configlet Parsing</b>			

**Note:** The following access methods are not supported:

TFTP, TFTP/SNMP, FTP, FTP/CLI, FTP/SNMP, SCP, SCP/CLI, SCP/SNMP