

# System Administration in the EN-4000

The EN-4000 is the newest member of Encore Networks' family of routers. It provides wireless and cabled connections to a local area network (LAN) and to peripheral devices and remote devices.

The screens in this document are used only by system administrators and network administrators. The screens are shown here only for reference.

Figure 12-1. System Screen to Schedule Tasks

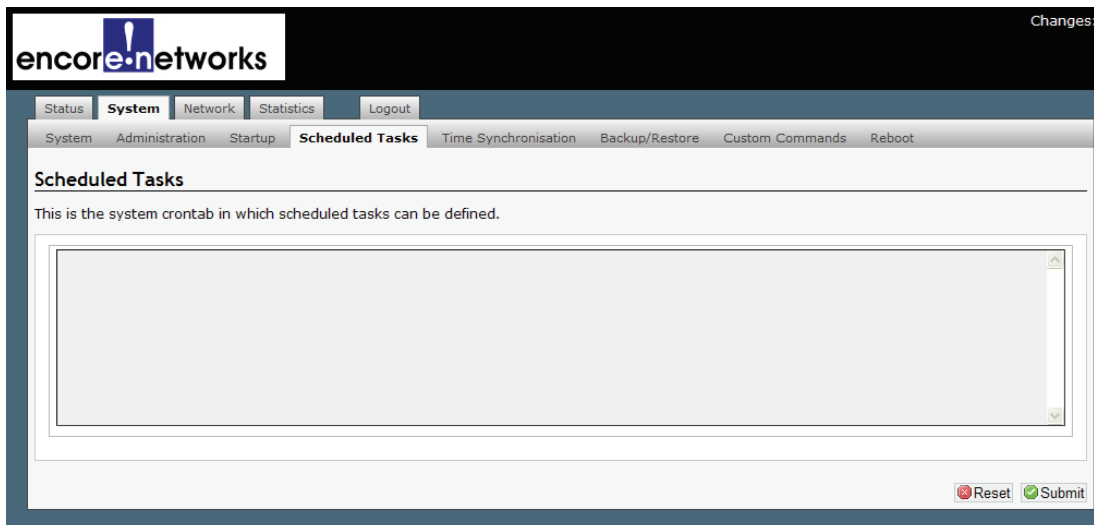


Figure 12-2. System Custom Commands Dashboard Screen

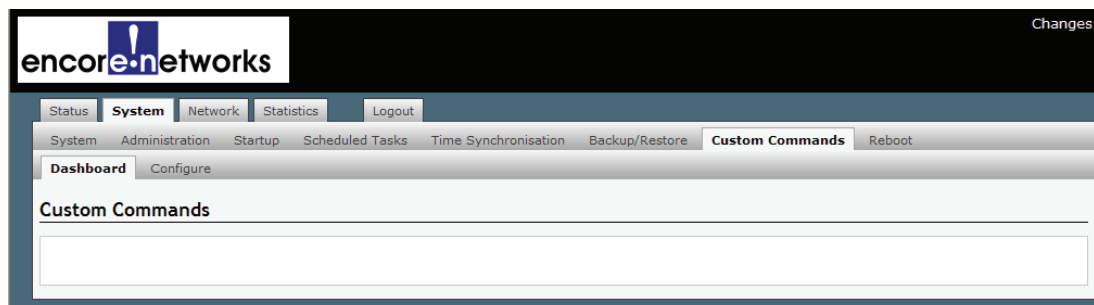


Figure 12-3. System Custom Commands Configuration Screen

The screenshot shows the 'Custom Commands' configuration page. At the top, there is a navigation bar with tabs for Status, System, Network, Statistics, and Logout. Below this is a secondary navigation bar with tabs for System, Administration, Startup, Scheduled Tasks, Time Synchronisation, Backup/Restore, Custom Commands, and Reboot. The main content area is titled 'Custom Commands' and includes a sub-header 'Configure'. A descriptive paragraph states: 'This page allows you to configure custom shell commands which can be easily invoked from the web interface.' Below this is a table with four columns: 'Description', 'Command', 'Custom arguments', and 'Public access'. The table is currently empty, with a note below it stating 'This section contains no values yet'. An 'Add' button is located at the bottom left of the table area. At the bottom right of the page, there are three buttons: 'Reset', 'Save', and 'Save & Apply'.

Figure 12-4. System Administration

The screenshot shows the 'System Administration' page. The navigation bar is similar to the previous page, but the 'Administration' tab is selected. The main content area is titled 'Router Password' and includes a sub-header 'Changes the administrator password for accessing the device'. Below this are two password input fields: 'Password' and 'Confirmation', each with a toggle icon for visibility. The next section is 'SSH Access', with a sub-header 'Dropbear offers SSH network shell access and an integrated SCP server'. Below this is a 'Dropbear Instance' configuration section. It includes a 'Delete' button, a list of interfaces (lan, wan, unspecified) with radio buttons, and a checked option 'Listen only on the given interface or, if unspecified, on all'. There are also fields for 'Port' (set to 22) and a checked option 'Specifies the listening port of this Dropbear instance'. Below these are three checked options: 'Allow SSH password authentication', 'Allow the root user to login with password', and 'Allow remote hosts to connect to local SSH forwarded ports'. An 'Add' button is at the bottom left of this section. The final section is 'SSH-Keys', with a sub-header 'Here you can paste public SSH-Keys (one per line) for SSH public-key authentication.' and a large text area for pasting keys. At the bottom right, there are three buttons: 'Reset', 'Save', and 'Save & Apply'.

Figure 12-5. System Start-Up Screen

The screenshot shows the 'System Start-Up Screen' in the Encore Networks web interface. At the top, there is a navigation bar with tabs for 'System', 'Network', 'Statistics', and 'Logout'. Below this is a sub-menu with 'System', 'Administration', 'Startup', 'Scheduled Tasks', 'Time Synchronisation', 'Backup/Restore', 'Custom Commands', and 'Reboot'. The 'Startup' tab is selected.

The main section is titled 'Initscripts'. It contains a warning: 'Warning: If you disable essential init scripts like "network", your device might become inaccessible!'. Below the warning is a table of installed init scripts.

Start priority	Initscript	Enable/Disable	Start	Restart	Stop
2	smtptd	Disabled	Start	Restart	Stop
5	luci_fixtime	Enabled	Start	Restart	Stop
10	boot	Enabled	Start	Restart	Stop
11	procd	Enabled	Start	Restart	Stop
20	network	Enabled	Start	Restart	Stop
39	usb	Enabled	Start	Restart	Stop
45	firewall	Enabled	Start	Restart	Stop
50	cron	Enabled	Start	Restart	Stop
50	dropbear	Enabled	Start	Restart	Stop
50	qos	Enabled	Start	Restart	Stop
50	snmpd	Enabled	Start	Restart	Stop
50	telnet	Enabled	Start	Restart	Stop
50	tftpd-hpa	Enabled	Start	Restart	Stop
50	uhttpd	Enabled	Start	Restart	Stop
50	vrrpd	Enabled	Start	Restart	Stop
59	luci_dhcp_migrate	Enabled	Start	Restart	Stop
60	dnsmasq	Enabled	Start	Restart	Stop
60	samba	Enabled	Start	Restart	Stop
79	luci_statistics	Enabled	Start	Restart	Stop
80	collectd	Enabled	Start	Restart	Stop
95	done	Enabled	Start	Restart	Stop
96	led	Enabled	Start	Restart	Stop
97	watchdog	Enabled	Start	Restart	Stop
98	sysntpd	Enabled	Start	Restart	Stop
99	multiwan	Enabled	Start	Restart	Stop
99	mwan3	Enabled	Start	Restart	Stop
99	qmi-start	Enabled	Start	Restart	Stop
99	sysctl	Enabled	Start	Restart	Stop

Below the table is the 'Local Startup' section. It contains a text area for entering commands to be executed at the end of the boot process. The current content of the text area is:

```
# Put your custom commands here that should be executed once
# the system init finished. By default this file does nothing.
endefaultsd -y -u /dev/ttyUSB2 -i wwan0 0 0x26 w
exit 0
```

At the bottom right of the page, there are 'Reset' and 'Submit' buttons.

Figure 12-6. System Back-Up Actions

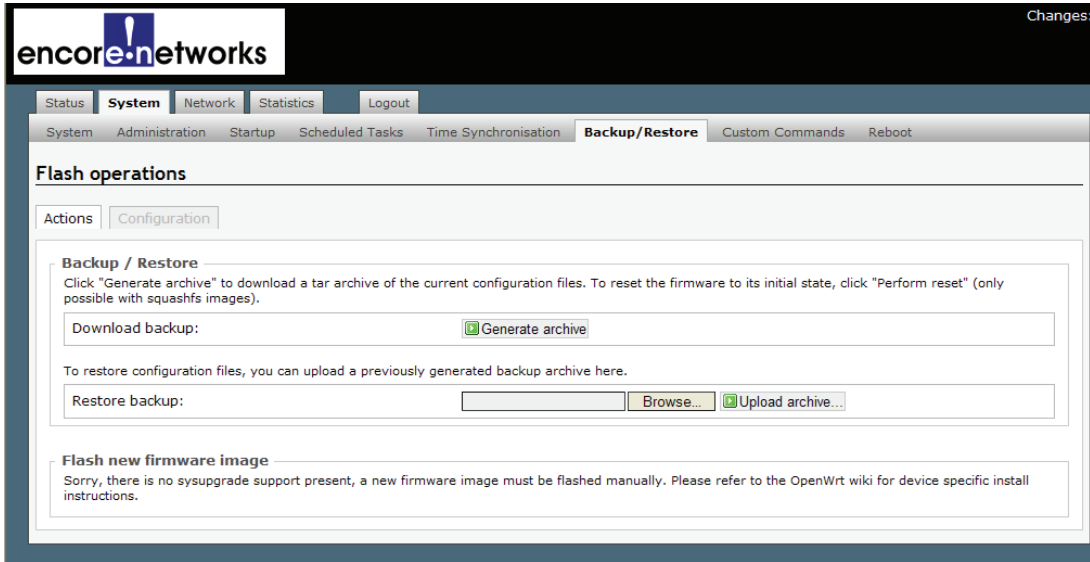


Figure 12-7. System Back-Up Configuration

