

Applying a System Software Patch to the EN-2000 Operating Software

Under rare circumstances, the EN-2000 router might experience an event or condition that needs immediate resolution. In such a case, a software patch for the EN-2000 will be available from your EN-2000 distributor for quick download and application. This document provides quick steps for applying a patch to the EN-2000's operating software.

Note: A patch resolves a specific concern. It does not replace standard software upgrades.

After you have downloaded the patch from your EN-2000 distributor, perform the following steps:

14 On a management terminal (for example, a PC), open a web browser. In the browser's address field, type the EN-2000's IP address. (For example, type http://192.168.10.1 for the local LAN port. For an EN-2000 router at a remote site, type the required prefix https:// and the static IP address for the EN-2000's WAN port or cellular wireless port.) Then press the console's Enter key (Figure G-1).

Figure G-1. Browser Address Field

♦ The browser displays the EN-2000 Log-In Screen (Figure G-2).

Figure G-2. EN-2000 Log-In Screen

Please enter your username and password.

Username]		
Password]		
]		
Login Reset			

15 Type the user name and password.

Note: For the EN-2000[™], the default user name is admin. In addition:

- Devices shipped before July 09, 2018, use the default password encore!1.
- Devices shipped from the factory on or after July 09, 2018, use a randomly generated default password. That password is contained in information on a sticker on the bottom of the router's chassis. Retain that sticker; you will need that default password if the router must be reset. (For details, see the document *Password Policy for EN[™] Routers*.)

Encore Networks, Inc., advises users to change a router's password upon first configuration of the router.

After log-in, the Status Overview Screen is displayed (Figure G-3). This screen provides a summary of the EN-2000's operation and its ports.

EN2000 LTE Router Phone/MTN#: Changes: 0 Device Mode: Cell Failover Cell Signal: -125dBm encoreinetworks Operation Status: Online using WAN | Auto Refresh: on Status **Realtime Graphs** Overview Status Uptime: 20h 30m 26s System **Device Name** EN2000 **Device Model** EN 2000 Firmware Version 17322 03 12 Local Time Tue Mar 31 13:08:17 2015 **Cellular Information** Cell Signal -125 dBm TMFT 359692051021120 SIM ID APN ne01.V7WSTATIC Network Network Status Uptime: 0h 0m 0s CELL MAC-Address: 94:B9:B4:18:BF:21 Protocol: dhcp ۶ RX: 61.26 KB (1178 Pkts.) eth2 TX: 9.65 MB (24565 Pkts.) Uptime: 20h 29m 10s MAC-Address: 00:A0:EB:03:00:55 LAN Protocol: static (چ 🧶) 🧐 RX: 90.35 MB (125815 Pkts.) br-lan TX: 143.25 MB (141481 Pkts.) IPv4: 192.168.10.1/24 Uptime: 20h 29m 5s MAC-Address: 00:A0:EB:03:00:56 WAN Protocol: dhcp RX: 140.27 MB (144459 Pkts.) eth1 TX: 89.42 MB (118133 Pkts.) IPv4: 192.168.1.204/24 **DHCP Leases** Leasetime remaining Hostname IPv4-Address MAC-Address HP-p6-2016 192.168.10.198 38:60:77:82:55:1a 10h 9m 48s

Figure G-3. Status Overview Screen

- 16 On the EN-2000 management screen, select the **System** tab; then select the **Backup/Restore** tab.
 - The Flash Operations Screen is displayed (Figure G-4).

Figure G-4.	Flash	Operations	Screen
		000.00000	00.00

atus System Network Logout Quickstart vstem Administration Services SNMP Backup / Restore Reboot ash operations Eackup / Restore Reboot tions Backup / Restore Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware initial state, click "Perform reset" (only possible with squashfs images). Download backup: Image: Generate archive Reset to defaults: Image: Generate archive Reset to defaults: Image: Generate archive To restore configuration files, you can upload a previously generated backup archive here. Image: Generate archive Image: Generate archive Flash new firmware image Image: Generate archive Image: Generate archive Image: Generate archive	EN2000 LTE Router Phone/MTN#: CH Device Mode: Cell Failover Cell Signal: -125dBm Operation Status: Online using WAN	or <mark>e n</mark> etworks
Administration Services SNMP Backup / Restore Reboot ash operations	K Logout Quickstart	is System Network
tions Backup / Restore Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware initial state, click "Perform reset" (only possible with squashfs images). Download backup: Reset to defaults: Reset to defaults: Perform reset To restore configuration files, you can upload a previously generated backup archive here. Restore backup: Browse Upload archive Flash new firmware image	Services SNMP Backup / Restore Reboot	em Administration Services
Backup / Restore Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware initial state, click "Perform reset" (only possible with squashfs images). Download backup: Image: Center archive Reset to defaults: Image: Center archive To restore configuration files, you can upload a previously generated backup archive here. Restore backup: Image: Center archive Flash new firmware image		ns
Download backup: Image: Generate archive Reset to defaults: Image: Perform reset To restore configuration files, you can upload a previously generated backup archive here. Restore backup: Image: Image	download a tar archive of the current configuration files. To reset the firmware to its reset" (only possible with squashfs images).	ackup / Restore ck "Generate archive" to downloa tial state, click "Perform reset" (o
Reset to defaults: Image: Perform reset To restore configuration files, you can upload a previously generated backup archive here. Restore backup: Image: Image Flash new firmware image	Generate archive	Download backup:
To restore configuration files, you can upload a previously generated backup archive here. Restore backup: Browse Flash new firmware image	Perform reset	Reset to defaults:
Restore backup: Dupload archive	s, you can upload a previously generated backup archive here.	restore configuration files, you ca
Flash new firmware image	Browse Dyload archive	Restore backup:
Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to ret current configuration (requires a compatible firmware image).	mage atible image here to replace the running firmware. Check "Keep settings" to retain th ires a compatible firmware image).	lash new firmware image load a sysupgrade-compatible im rrent configuration (requires a co
Keep settings:		(eep settings:
Image: Browse Browse	Browce Elash image	mage:

Note: We will use this screen to apply the software patch.¹

- 17 On the Flash Operations Screen, in the row for **Restore Backup**, select the **Browse** button.
 - A window opens so that you can select the directory and file.
- 18 Browse to the directory and select the patch file to upload—for example, en2k_patch1.tar.gz. (The file must have the extension "tar.gz.")
 - The names of the selected path and file are displayed in the **Restore** Backup field.
- **19** Then select the **Upload Archive** button.

Note: During the upload, the EN-2000's management system might display information similar to the message in Figure G-5.

^{1.} This screen can also be used for the following actions:

[•] To save a back-up of the EN-2000's current configuration,

[·] To restore a previous configuration to the EN-2000,

[•] To reset the EN-2000 to its default configuration,

or

[•] To load new operating system software into the EN-2000.

For information on those procedures, see *Software Management* in the document *EN-2000 System Administration*.

Figure G-5. Message during Upload



- After the upload, the management system displays the Log-In Screen (recall Figure G-2).
- 20 On the Log-In Screen, type the user name and password. Then select the button to Log In.

Note: For the EN-2000[™], the default user name is **admin**. In addition:

- Devices shipped before July 09, 2018, use the default password encore!1.
- Devices shipped from the factory on or after July 09, 2018, use a randomly generated default password. That password is contained in information on a sticker on the bottom of the router's chassis. Retain that sticker; you will need that default password if the router must be reset. (For details, see the document *Password Policy for EN™ Routers*.)

Encore Networks, Inc., advises users to change a router's password upon first configuration of the router.

The EN-2000 software management system opens. The Status Overview screen is displayed. (You can also reach this screen by selecting the Status tab, then the Overview tab.) This screen shows the firmware version (Figure G-6, partial display of the screen). If a patch has been applied, the patch is also indicated.

ncor <mark>e•n</mark> etworks	EN 2000 Phone/MTN#: Device Mode: Cell Failover Auto Refresh: on
Status System Network	Logout Quickstart
Overview Routes System I	Log Realtime Graphs EnCloud
Status	
Status System Device Name	EN2000
System Device Name Device Model	EN2000 EN 2000
System Device Name Device Model Firmware Version	EN2000 EN 2000 17322 05 00
System Device Name Device Model Firmware Version Build	EN2000 EN 2000 17322 05 00 247auto5w
System Device Name Device Model Firmware Version Build Local Time	EN2000 EN 2000 17322 05 00 247auto5w Thu Feb 15 17:57:05 2018

Figure G-6. Firmware Version Listed on Status Overview Screen

- **21** To see detailed firmware information, select the **Network**, **Failover**, and **Advanced** tabs.
 - The Troubleshooting Screen is displayed (Figure G-7, partial display of the screen). The detailed firmware information is listed as the top line.

Figure G-7. Troubleshooting Screen	
EN2000 LTE Router Phone/MTN#: Device Mode: Cell Failover Cell Signal: -125dBm Operation Status: Online using WAN Auto Refresh: on	Changes: 0
Status System Network Logout Quickstart	
Interfaces Hostnames Static Routes Failover Firewall Diagnostics QoS VPN VRRP	DMNR
Overview Interfaces Members Policies Rules Advanced	
Troubleshooting	
Software versions : 17322 03 12 (117p1) Firewall default output policy (must be ACCEPT) : ACCEPT	
Output of "ip route show" :	
default via 192.168.1.1 dev eth1 proto static metric 10 192.168.1.0/24 dev eth1 proto static scope link metric 10 192.168.10.0/24 dev br-lan proto kernel scope link src 192.168.10.1	
Output of "ip rule show":	
0: from all lookup local 1001: from all fwmark 0x100/0xff00 lookup 1001 1016: from all fwmark 0x1000/0xff00 lookup 1016	

The firmware version detail might read as something similar to the following:

• 17322 03 12 (117p1)

Note: The suffix "p1," shown above, indicates that patch #1 has been applied.