

Backup and Restore Procedure

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Each abbreviation, unless widely used, is spelled out in full when first used.

Document Revision Record

LTRT	Description
39621	Initial document release for Version 7.2.
39622	Updates for including backup and restore procedure for both data and voice enabled devices and with USB devices.

Documentation Feedback

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1 Introduction

This document describes the procedures for backing up and restoring your device's configuration settings.

It is important to back up your configuration on a regular basis in case you need to restore configuration if, for example, any of the following scenarios occurs:

- Your device has a hardware fault that requires it to be replaced entirely.
- A hardware component on the device is faulty (e.g., CPU).
- Firmware upgrade failure
- Undesired configuration upgrade or failure.

**Note:**

- It is your responsibility to save the backup configuration files after every configuration change made on the device.
- It is your responsibility to back up your existing configuration and firmware files to a safe location on your network before upgrading the device.

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2 Backing up Configuration

You can save a copy of the device's current configuration settings as a file on a local PC server. This can be used as a backup file for your configuration. The saved file includes only parameters that were modified and parameters with other than default values.

You can also save (create) the current configuration as a configuration file on the device's flash memory and send it to a user-defined URL of a remote server (TFTP or HTTP/S) or to a USB device. The configuration settings in the file are based only on CLI commands. For more information, refer to the *CLI Reference Manual*.

This chapter describes how to backup the configuration through one of the following device management interfaces:

- Web interface (see Section 2.1 on page 9)
- CLI (see Section 2.2 on page 10)



Note: Make sure you have a backup copy of all auxiliary files (e.g., CPT and Dial Plan files) before you upload them to the device.

2.1 Backing up Configuration through Web Interface

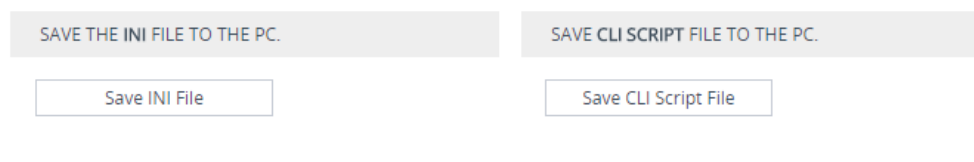
The Web interface allows you to back up the device's configuration as an ini file or a CLI-based file (CLI script) in a folder on the PC client running the Web interface.

➤ **To back up the configuration:**

1. Open the Configuration File page:
 - **Toolbar:** From the **Actions** drop-down menu, choose **Configuration File**.
 - **Navigation tree:** **Setup** menu > **Administration** tab > **Maintenance** folder > **Configuration File**.

Figure 2-1: Backing up Configuration through Web Interface

Configuration File



2. Click one of the following buttons:
 - **Save INI File:** saves the configuration as an ini file.
 - **Save CLI Script File:** saves the configuration as a CLI-based file.

2.2 Backing up Configuration through CLI

The CLI allows you to back up the device's configuration as a CLI-based file (CLI command settings). You can back up the CLI-based file to any of the following locations:

- Remote server (HTTP, HTTPS or TFTP)
- USB stick



Note: The USB stick is only applicable to devices that provide USB support.

The procedures below describes how to back up the devices configuration using CLI on a data-enabled and voice-enabled device.

2.2.1 Backing Up Configuration on a Data-enabled Device

This section describes how to back up the devices configuration on a data-enabled device.

➤ **To back up the configuration using CLI on a data-enabled device:**

1. Establish a CLI serial connection with the device (e.g., Telnet).
2. Log in to the CLI.

```
Username: Admin
Password: < Password >
```

3. Access the Enable mode.

```
> enable
Password: < Enable mode password >
```

4. Enter the following command:

```
# copy cli-script to { < URL > | usb:///< File Name > }
source data interface <interface type> <interface id>
```

2.2.2 Backing Up Configuration on a Voice-enabled Device

This section describes how to back up the devices configuration on a voice-enabled device.

➤ **To back up the configuration using CLI on a voice-enabled device:**

1. Establish a CLI serial connection with the device (e.g., Telnet).
2. Log in to the CLI.

```
Username: Admin
Password: < Password >
```

3. Access the Enable mode.

```
> enable
Password: < Enable mode password >
```

4. Enter the following command:

```
# copy cli-script to { < URL > | usb:///< File Name > }
```

Arguments	Description
URL	When copying to a URL, the destination URL can be one of the following: <ul style="list-style-type: none"> • HTTP • HTTPS • TFTP
usb:///< File Name>	Backs up the configuration to the USB stick connected to the device.
source	Specifies the source CPU to copy from (default data).
interface	Specifies the source interface to bind to.
source-address	Specifies the source address.

	Interface Type	Interface ID
gigabitethernet	GigabitEthernet interface slot and port (VLAN ID is optional)	[SLOT/PORT.VLANID]
cellular	Cellular interface ID	0/0
Gr-e	Tunnel GRE ID	[1-255]
ipip	Tunnel IPIP ID	[1-255]
l2tp	L2TP ID	[0-99]
pppoe	PPPoE interface ID	[1-3]
pptp	PPTP ID	[0-99]
vlan	Vlan ID	[1-3999]
loopback	Loopback ID	[1-5]
bvi	Bridge interface	[1-255]

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3 Restoring Configuration

You can restore the configuration through one of the following device management interfaces:

- Web interface (see Section 0on page 13)
- CLI (see Section 3.2on page 14)



Warning:

- When restoring an ini file, the device resets for the settings to take effect.
- When loading an *ini* file using the Configuration File page, parameters not included in the *ini* file are reset to default settings.

3.1 Restoring Configuration through Web Interface

The Web interface allows you to restore the device's configuration as an ini file or a CLI-based file (CLI script) from the folder on the PC client running the Web interface, by uploading an ini file or CLI-based file.



Warning: When restoring an ini file using the Configuration File page, parameters excluded from the ini file return to **default settings**. If you want to keep the device's current configuration settings and apply the settings specified in the ini file, load the file through the Auxiliary Files page.

➤ **To restore the configuration file:**

1. Open the Configuration File page:
 - **Toolbar:** From the **Actions** drop-down menu, choose **Configuration File**.
 - **Navigation tree:** **Setup** menu > **Administration** tab > **Maintenance** folder > **Configuration File**.

Figure 3-1: Loading INI File using Configuration File Page

LOAD THE INI FILE TO THE DEVICE.	LOAD CLI SCRIPT FILE TO THE DEVICE.
<input type="button" value="Choose File"/> No file chosen <input style="margin-left: 100px;" type="button" value="Load INI File"/>	<input type="button" value="Choose File"/> No fil...hosen <input style="margin-left: 100px;" type="button" value="Load CLI Script File"/>

The device will perform a reset after loading the INI file.

2. Click one of the following buttons:
 - **Load INI File:** restores the configuration from the ini file.
 - **Load CLI Script File:** restores the configuration from the CLI-based file.

3.2 Restoring Configuration through CLI

The CLI allows you to restore the device's configuration as a CLI-based file (CLI command settings). You can restore the CLI-based file from any of the following locations:

- Remote server (HTTP, HTTPS or TFTP)
- USB stick



Note: The USB stick is only applicable to devices that provide USB support.

The procedures below describe how to restore the devices configuration using CLI on a data-enabled and voice-enabled device.

3.2.1 Restoring Configuration on a Data-enabled Device

This section describes how to restore the devices configuration on a data-enabled device.

➤ **To restore the configuration using CLI on a data-enabled device:**

1. Establish a CLI serial connection with the device (e.g., Telnet).
2. Log in to the CLI.

```
Username: Admin
Password: < Password >
```

3. Access the Enable mode.

```
> enable
Password: < Enable mode password >
```

4. Enter the following command:

```
# copy cli-script from { < URL > | usb:///< File Name >
}source data interface <interface type> <interface id>
```

3.2.2 Restoring Configuration on a Voice-enabled Device

This section describes how to restore the devices configuration on a voice-enabled device.

➤ **To restore the configuration using CLI on a voice-enabled device:**

1. Establish a CLI serial connection with the device (e.g., Telnet).
2. Log in to the CLI.

```
Username: Admin
Password: < Password >
```

3. Access the Enable mode.

```
> enable
Password: < Enable mode password >
```

4. Enter the following command:

```
# copy cli-script from { < URL > | usb:///< File Name > }
```

Arguments	Description
URL	When copying to a URL, the destination URL can be one of the following: <ul style="list-style-type: none"> • HTTP • HTTPS • TFTP
usb:///< File Name>	Backs up the configuration to the USB stick connected to the device.
source	Specifies the source CPU to copy from (default data).
interface	Specifies the source interface to bind to.
source-address	Specifies the source address.

	Interface Type	Interface ID
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ipip	Tunnel IPIP ID	[1-255]
l2tp	L2TP ID	[0-99]
pppoe	PPPoE interface ID	[1-3]
pptp	PPTP ID	[0-99]
vlan	Vlan ID	[1-3999]
loopback	Loopback ID	[1-5]
bvi	Bridge interface	[1-255]

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