

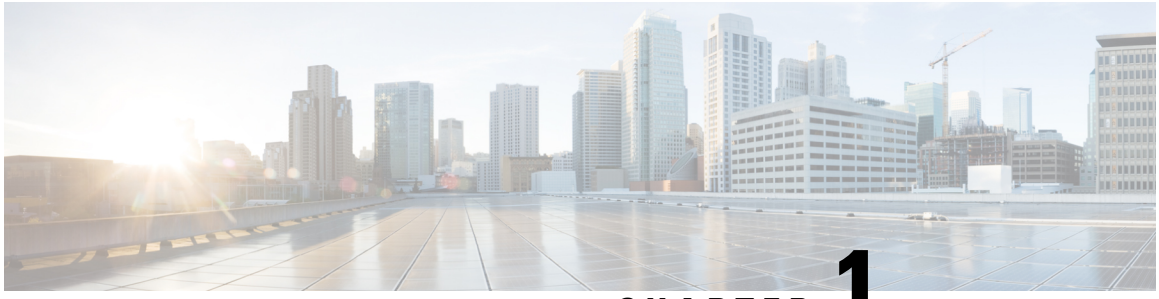
Cisco Business Dashboard Lite Quick Start Guide

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CHAPTER 1

CBD Lite Overview

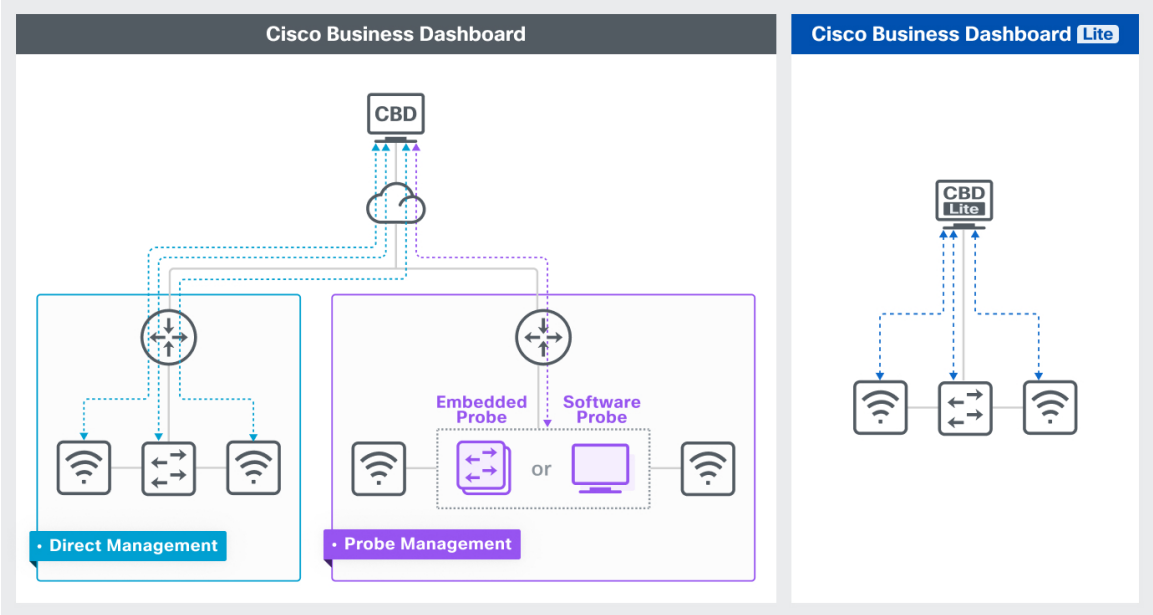
This chapter contains the following sections:

- About Cisco Business Dashboard Lite, on page 1
- Audience, on page 3
- Related Documents, on page 3

About Cisco Business Dashboard Lite

Cisco Business Dashboard Lite provides tools that help you monitor and manage the devices in your Cisco Business network. It automatically discovers your network and allows you to configure and monitor all supported devices such as switches and wireless access points. It also notifies you about the availability of firmware updates, and about any devices that are no longer under warranty or covered by a support contract.

Cisco Business Dashboard Lite is a simplified version of Cisco Business Dashboard. It retains the core features of the original product while reducing complexity and resource usage. This makes it suitable for users who need basic functionality without the additional overhead of the full product.



Feature Comparison Table

Feature	Cisco Business Dashboard Lite	Cisco Business Dashboard
Deployment options	Native Microsoft Windows installation	Virtualized environments (e.g., VMWare, VirtualBox, Hyper-V, AWS, Microsoft Azure) or to be installed directly on Ubuntu Linux.
Deployment location requirements	Same network as managed devices	Any convenient location, even when it's hosted in the cloud and the managed devices are behind Network Address Translation (NAT)
Device onboarding requirements	No configuration changes necessary for management	Requires changes to device configurations, enabling the Cisco Business Dashboard (CBD) agent, and establishing an active connection to CBD for management.
OS requirements	Microsoft Windows	Ubuntu Linux
Minimum system requirements	Any CPU/RAM specifications required by Windows, 5 GB Disk	2 vCPU, 4 GB RAM, 60 GB Disk
Supported devices	Refer to the Cisco Business Dashboard Lite – Device Support List for details	Refer to the Cisco Business Dashboard – Device Support List for details.
Maximum supported devices	100	15,000
Network discovery and inventory report	Yes	Yes
Device configuration and operation	Yes	Yes
Customizable monitoring dashboard	Yes	Yes
Device lifecycle report	Yes	Yes
Automatic firmware update notifications & One-click apply	Yes	Yes
Be alerted automatically to important events such as network devices going offline	Popup	Popup, email, open helpdesk ticket, send to collaboration space
Manage networks across multiple sites	No	Yes
Remote access to sites and devices without VPNs	No	Yes
Cisco Network Plug and Play (PnP)	No	Yes

Feature	Cisco Business Dashboard Lite	Cisco Business Dashboard
Role based access	Yes	Yes
Muti-tenant support/organizations	No	Yes
Device groups	No	Yes
API support for third-party integration	No	Yes
Integrates with popular Professional Service Automation (PSA) tools	No	Yes

Audience

This guide is primarily intended for network administrators who are responsible for Cisco Business Dashboard Lite software installation and management.

Related Documents

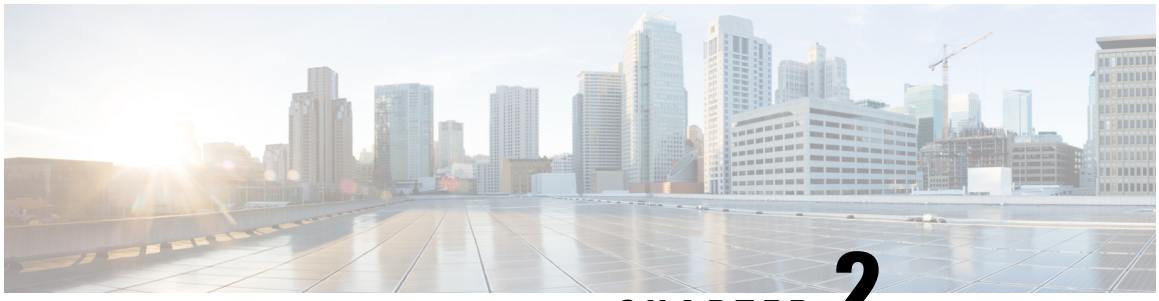
The documentation for Cisco Business Dashboard Lite is comprised of a number of separate guides. These include:

- **Quick Start Guide** —This guide provides details on performing the initial setup for Cisco Business Dashboard Lite using the most commonly selected options. Check out the Cisco Business Dashboard Lite Quick Start Guide.
- **Installation Guides**

  The following table lists all the installation guides for the Dashboard Lite software that can be deployed on different platforms. Refer the path provided in the location column for details:

Supported Platforms	Location
Microsoft Windows	Cisco Business Dashboard Lite Installation Guide for Microsoft Windows.

- **Administration Guide** —This is a reference guide that provides details about all the features and options provided by the software and how they may be configured and used. Check out the Cisco Business Dashboard Lite Administration Guide.
- **Device Support List**—This list provides details of the devices supported by Cisco Business Dashboard Lite. Check out the Cisco Business Dashboard Lite - Device Support List.



CHAPTER 2

Performing Initial Setup for the Dashboard Lite

There are a few configuration tasks that should be performed to ensure that the Dashboard Lite meets your requirements.

- Running Cisco Business Dashboard Lite Server Application, on page 5
- Launching the Cisco Business Dashboard Lite User Interface, on page 6

Running Cisco Business Dashboard Lite Server Application

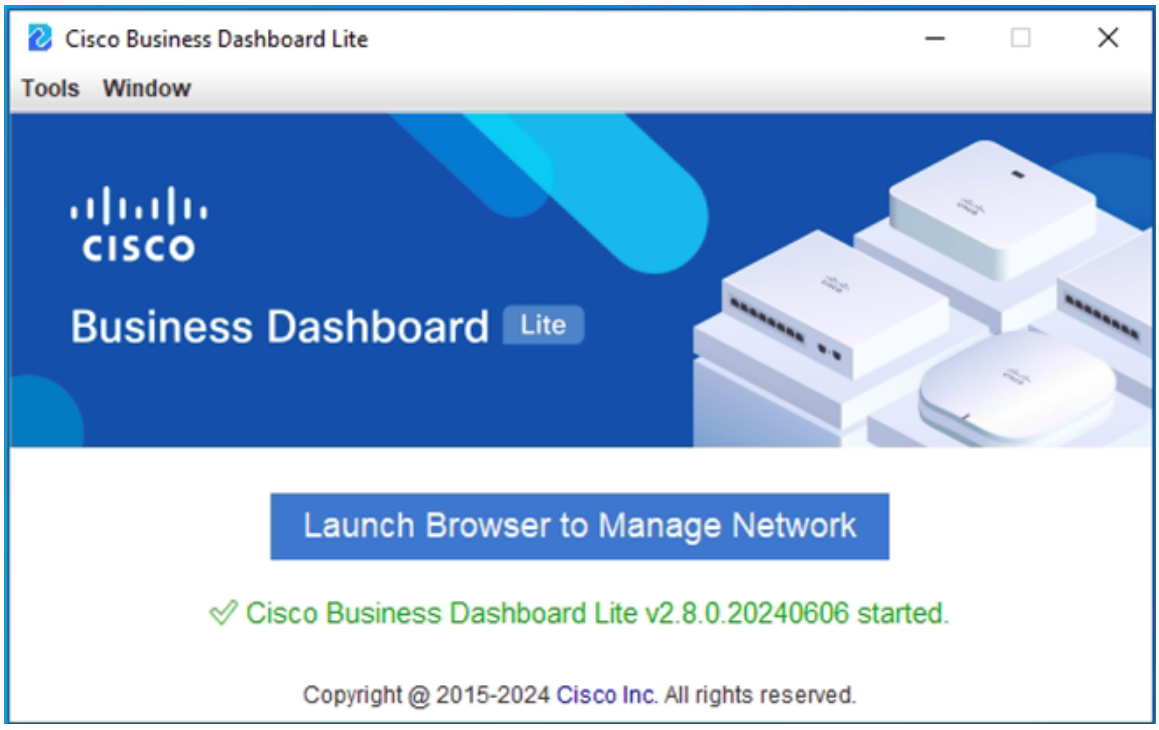
To run the Cisco Business Dashboard Lite server application, follow the steps below:

Procedure

Step 1 Download and install the latest version of Cisco Business Dashboard Lite server.

Step 2 Start the Cisco Business Dashboard Lite server application.

Step 3 Please be patient as the Cisco Business Dashboard Lite server initializes; this process may take up to several tens of seconds.



Launching the Cisco Business Dashboard Lite User Interface

Procedure

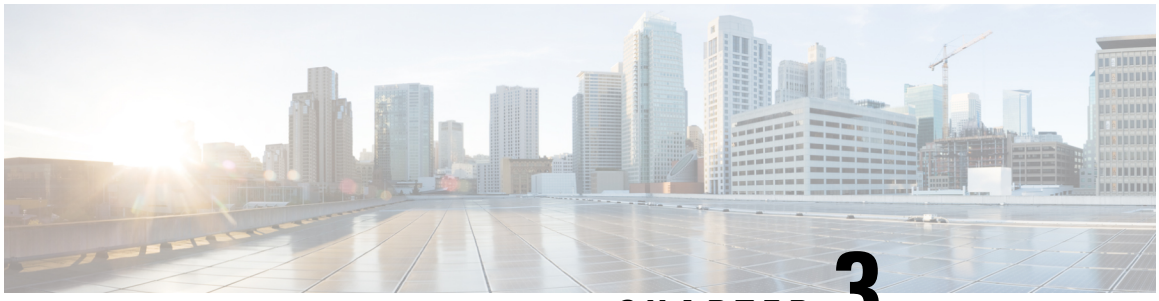
Step 1 Click **Launch Browser to Manage Network** button to open the Dashboard Lite user interface. You can also launch a web browser, navigate to https://localhost:4443. Click **Continue** if you see a security warning.

Step 2 Enter the default username: cisco and password: cisco.

Step 3 Click **Login**. You will be prompted to change the username and password for the cisco account. Ensure that the new password is at least 8 characters in length contains at least 3 different character classes.

Step 4 Click **Next**. You will be presented with information about how Cisco Business Dashboard Lite uses your data and what information is shared with Cisco. Make any changes appropriate for your organization's requirements before proceeding.

Step 5 Click **Next**. At this point you are given the option to run the System Setup Wizard which walks you through the key configuration elements that should be considered when installing a new Dashboard Lite.



CHAPTER 3

Setting Up the Network

This chapter contains the following sections:

- Setting Up the Network for Cisco Business Dashboard Lite, on page 7
- Configuring the Network, on page 9

Setting Up the Network for Cisco Business Dashboard Lite

Setting Up Device Credentials

For Cisco Business Dashboard Lite to be able to manage the network devices, you must provide suitable credentials to allow access to each device in the following steps:

Procedure

Step 1 Navigate to **Administration** > **Device Credentials**. The first table on this page lists all the devices that have been discovered that require credentials, while the second table lists all the discovered devices for which working credentials are known. The Dashboard Lite will discover the network devices and generate a topology map and inventory for the network after being provided with the working credentials.

Step 2 Enter a username and password combination in the respective fields at the top of the page. If more sets of credentials are required, then click the +(plus) icon. This allows up to three sets of each type of credential to be entered. The default credentials with the username: cisco, password: cisco is already listed here, however, if the device is not using default credentials, then correct credentials must be supplied.

Step 3 Click **Apply**. The Dashboard Lite will test each credential against each device for which a credential is required. Working credentials are saved for each device.

Discover the Network by Scanning the IP Addresses (Optional)

The Cisco Business Dashboard Lite builds an initial list of devices in the network from listening to mDNS (aka Bonjour, please check your device setting to make sure Bonjour is enabled on the Management VLAN) advertisements. The Cisco Business Dashboard Lite then connects to each device using a supported protocol and gathers additional information such as CDP & LLDP adjacency tables. This information is used to identify additional devices in the network, and the process repeats until all devices have been discovered.

Cisco Business Dashboard Lite may not always be able to discover network devices in other VLANs or subnets using only the automated discovery processes. When this occurs, it can be beneficial to have the dashboard explicitly search the IP address ranges associated with those VLANs or subnets. To search an IP address range, do the following:

1. Navigate to **Administration** > **Discovery**.
2. Specify the IP address ranges to search.
3. Click **Save**.

Based on the input, the Dashboard Lite will search the specified address ranges for devices with an active web server and attempt to connect to the device HTTPS port (443) using the credentials provided. If the dashboard is successful in accessing the device, it will be added to the inventory and will be managed in the same way as any other device in the network.

Learn About Your Network

You may use the **Inventory** to see detailed information about all the devices in your network. The **Inventory** page provides a list of all discovered devices in a tabular view. You can filter the list to restrict the devices displayed and click on individual devices to see more information about that device.

Customizing the Monitoring Dashboard

You may customize the monitoring dashboard to suit your requirements using the following steps:

Procedure

Step 1 Select **Dashboard** from the navigation at the left of the screen. The default dashboard will be displayed.

Step 2 To relocate individual widgets within the dashboard, click on the gear icon at the top right of the dashboard and select the **Edit Mode** option. Click and hold to drag each widget to the desired location. To resize a widget, click and hold on the edge or corner of the widget to resize.

Step 3 To add a new widget to the dashboard, click the gear icon at the top right of the dashboard and select to add a widget. Select the desired widget from the list. To remove a widget from the dashboard, click **remove widget ✖** icon in the top right corner of the widget when in edit mode.

Step 4 Once the dashboard is laid out correctly, click the gear icon at the top right of the dashboard and select **View Mode** to lock the changes in place.

Step 5 To change the behavior of a widget, click **edit widget configuration** icon in the top right of the widget. Use the drop-down lists to select the specific device or interface the widget should monitor.

Customizing Notification Generation

Monitoring Profiles control the data that is collected from devices and the notifications that are generated. You may customize the behavior of notifications using the following steps:

Procedure

Step 1 Navigate to **Assurance** > **Monitoring > Monitoring Profile**.

Step 2 The screen displays the different notification and reporting monitors. You can enable and disable individual monitors using the controls provided.

Step 3 The notification monitors have additional settings that can be modified by clicking the Edit icon for the monitor. The settings will vary between monitors, but include the notification types that should be generated, the severity of the notification, and the thresholds that should trigger the notification.

Configuring the Network

Updating Firmware for Devices (Optional)

The Dashboard Lite will notify you if there are firmware updates available for the devices in your network, and an **Update Firmware** icon will be displayed against the device in several areas of the user interface.

To update firmware for a single device or multiple devices, follow the steps below:

Procedure

Step 1 Click on the device in the **Inventory** to display the **Basic Info** panel.

Step 2 Open the **Action** panel and click on the **Upgrade firmware to latest** button. The Dashboard will download the necessary firmware from Cisco and apply the update to the device. The device will reboot as part of this process.

Step 3 You can view the progress of the upgrade by clicking on the **Job Center** icon in the top right of the user interface.

Creating Configuration Profiles

The Dashboard allows you to easily apply common configuration to all your network devices. You can create network configuration profiles following the steps below:

Procedure

Step 1 Navigate to any profile menu under **Provision > Network Configuration**.

Step 2 A **Time Management** profile contains settings for the time zone, daylight savings, and NTP.

Step 3 A **DNS Resolvers** profile contains settings for the domain name, and the DNS servers to use.

Step 4 A **VLAN** profile contains the details for one or more VLANs.

Step 5 An **Authentication** profile contains settings for the local user database for the devices and set authentication servers (RADIUS servers) to use when authenticating network access.

Step 6 You can enable, disable and update a profile using the controls provided. You can view the progress of the configuration by clicking on the **Job Center** icon in the top right of the user interface.

Backing Up Device Configurations

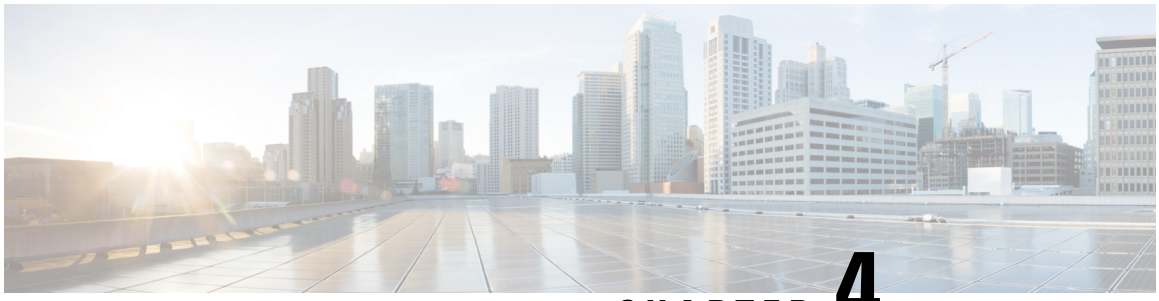
The Dashboard Lite allows you to back up the configurations of your network devices. To back up the configuration for a single device or multiple devices, follow the steps below:

Procedure

Step 1 Click on the device in the **Inventory** to display the **Basic Info** panel.

Step 2 Open the **Action** panel and click **Backup Configuration** button. Optionally, you can add a note describing this backup in the window that appears. The Dashboard Lite will copy the running configuration of the device.

Step 3 You can view the progress of the backup by clicking on the **Job Center** icon in the top right of the user interface.



CHAPTER 4

FAQs

This chapter contains the following sections:

- General FAQs, on page 11
- Discovery FAQs, on page 11
- Configuration FAQs, on page 12
- Security Consideration FAQs, on page 12

General FAQs

What languages are supported by the Cisco Business Dashboard Lite?

Cisco Business Dashboard Lite is translated into the following languages:

- Chinese
- English
- French
- German
- Japanese
- Portuguese
- Spanish

Discovery FAQs

What protocols does Cisco Business Dashboard Lite use to manage my devices?

Cisco Business Dashboard Lite uses a variety of protocols to discover and manage the network. Exactly which protocols are using for a particular device will vary between device types.

The protocols used include:

- Multicast DNS and DNS Service Discovery (aka *Bonjour*, see *RFCs 6762 & 6763*)
- Cisco Discovery Protocol (CDP)

- Link Layer Discovery Protocol (see *IEEE specification 802.1AB*)
- RESTCONF (See *https://datatracker.ietf.org/doc/draft-ietf-netconf-restconf/)*
- Proprietary web services APIs

How does Cisco Business Dashboard Lite discover my network?

The Cisco Business Dashboard Lite builds an initial list of devices in the network from listening to mDNS advertisements. The Cisco Business Dashboard Lite then connects to each device using a supported protocol and gathers additional information such as CDP & LLDP adjacency tables. This information is used to identify additional devices in the network, and the process repeats until all devices have been discovered.

Does Cisco Business Dashboard Lite do network scans?

The Cisco Business Dashboard Lite does not actively scan the broader network. You may explicitly search the IP address ranges for manageable devices. If this is done, then the dashboard will attempt to connect to webserver HTTPS ports on each IP address in the specified ranges to determine if a device is manageable.

Configuration FAQs

What happens when a new device is discovered? Will its configuration be changed?

If network configuration profiles have been enabled, then that configuration will be applied to newly discovered devices.

What happens when I disable a network configuration profile?

Configuration for the device will not change.

Security Consideration FAQs

What port ranges and protocols are required by Cisco Business Dashboard Lite?

The following table lists the protocols and ports used by Cisco Business Dashboard Lite:

Table 1: Cisco Business Dashboard Lite - Protocols and Ports

Port	Direction	Protocol	Usage
TCP 4443	Inbound	HTTPS	Secure web access to the Dashboard.
TCP 443	Outbound	HTTPS	Management of devices with secure web services enabled. Access Cisco web services for information such as software updates, support status, and end of life notices.
UDP 5353	Inbound/Outbound	mDNS	Multicast DNS service advertisements from the local network. Used for device discovery.

Port	Direction	Protocol	Usage
TCP 22	Outbound	SSH	CLI access to the device.
UDP 53	Outbound	DNS	Domain name resolution.

What Cisco servers does Cisco Business Dashboard Lite communicate with and why?

The following table lists the Cisco servers that Cisco Business Dashboard Lite communicates with, and the purpose of that conversation:

Table 2: Cisco Business Dashboard Lite - Cisco Servers

Hostname	Purpose
apix.cisco.com	Used to retrieve software update information and product lifecycle information. This server is only used if software updates or lifecycle reporting are enabled in **System > Privacy Settings**.
dl.cisco.com download-ssc.cisco.com softwarecloud.cisco.com	Used to download software update files from Cisco. These servers are only used if software updates are enabled in **System > Privacy Settings** and you execute an upgrade operation for a network device or for Cisco Business Dashboard Lite.
cloudsso.cisco.com id.cisco.com	Used to authenticate Cisco Business Dashboard Lite prior to communicating with apix.cisco.com. This server is only used if software updates or lifecycle reporting are enabled in **System > Privacy Settings**.
smb-ai.cbd-aws.com	Used by AI Assistant
*.firebaseio.com	Used to collect product improvement data. This server is only used if product improvement is enabled in **System > Privacy Settings.**

What processes are required by Cisco Business Dashboard Lite?

The following table lists the processes used by Cisco Business Dashboard Lite:

Table 3: Cisco Business Dashboard Lite - Processes

Process	Additional Details
Dashboard Essential Processes	
“<Install Directory>/jdk/bin/javaw.exe” … -jar “<Install Directory>/lib/launcher.jar”	The main Cisco Business Dashboard Lite server application
“<Install Directory>/jdk/bin/java.exe” … -jar “<Install Directory>/lib/cbdlite.jar”	Web Server

Process	Additional Details
Dashboard Essential Processes	
"<Install Directory>/mongodb/bin/mongod.exe" ……	Database services

Does Cisco Business Dashboard Lite have 'backdoor' access to my devices?

No. When Cisco Business Dashboard Lite discovers a supported device, it will attempt to access the device using credentials provided in **Administration** > **Device Credentials** page.

How secure are the credentials stored in Cisco Business Dashboard Lite?

Credentials for accessing Cisco Business Dashboard Lite are irreversibly hashed using the SHA512 algorithm. Credentials for devices are reversibly encrypted using the AES-128 algorithm.

How do I recover a lost password for the web UI?

If you have lost the password for all the admin accounts in the web UI, you can recover the password by logging on the server of the Dashboard Lite, open the Dashboard Lite Server Application, and click the **Tools > Recover Password** menu. This tool resets the password for the cisco account to the default of cisco, or, if the cisco account has been removed, it will recreate the account with the default password.