

**D**-Link

2019 | Business Class Networking

# **NUCLIAS CLOUD** DBS Series User Manual





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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **D-Link Corporate**

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#### CE Mark Warning

This equipment is compliant with Class A of CISPR 32. In a residential environment, this equipment may cause radio interference.

#### VCCI Warning

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此為甲類資訊技術設備,於居住環境中使用時,可能會造成射頻擾動,在此種情況下,使用者會被要求採取某些適當的對策。

#### Safety Compliance

**Warning: Class 1 Laser Product:** When using a fiber optic media expansion module, never look at the transmit laser while it is powered on. In addition, never look directly at the fiber TX port and fiber cable ends when they are powered on.

Avertissement: Produit Laser de Classe 1: Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port TX (Tramsmission) à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

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# 1.Introduction

The manual is organized according the menu layout of the Nuclias Portal interface.

## 1.1 Audience

This reference manual is intended for network administrators and other IT professionals responsible for managing network devices using the Nuclias Portal. This manual is written in a way that assumes that you already have a basic knowledge of modern networking principles.

## **1.2 Other Documentation**

The documents below are a further source of information with regards to configuring and troubleshooting Nuclias Portal. All the documents are available on either the D-Link or Nuclias website. Other documents related to Nuclias Portal are:

Nuclias Switch User Manual

## **1.3 Conventions**

Convention	Description
Boldface Font	Indicates a button, a toolbar icon, menu, or menu item. For
	example: Open the File menu and choose Cancel. Used for
	emphasis. May also indicate system messages or prompts
	appearing on screen. For example: You have mail. Bold font
	is also used to represent file names, program names, and
	commands. For example: Use the <b>Copy</b> command.
Initial capital letter	Indicates a window name. Names of keys on the keyboard
	have initial capitals. For example: Click Enter.
Menu Name > Menu	Indicates the menu structure. Device > Port > Port
Option	Properties means the Port Properties menu option under
	the <b>Port</b> menu option that is located under <b>Device</b> .

Table 1-1

## 1.4 Notes, Notices, and Cautions

Below are examples of the three types of indicators used in this manual. When making changes to Nuclias Portal using the information in this document, you should pay special attention to these indicators. Each example below provides an explanatory remark regarding each type of indicator.



**NOTE:** A note indicates important information that helps you make better use of your device.



**NOTICE:** A notice indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



**CAUTION:** A caution indicates a potential for property damage, personal injury, or death.

## **2 Product Introduction**

D-Link Nuclias is a cloud-hosted platform that removes the cost and complexity involved with owning and maintaining your own wireless infrastructure.

D-Link Nuclias Portal platform is accessed via web browser, but can also be managed through the iPad app. The Nuclias Portal is divided into organizations, allowing devices to be grouped in Site Tags and Sites based on their physical location. Profiles are used to configure devices as a group. Users may also be given access to the Nuclias Portal based on their roles and privileges, allowing access only to parts of the platform that are required.

The Nuclias Portal simplifies the management of your wireless and wired network, reducing the need for dedicated support staff, and allowing large numbers of devices to be managed from a single interface. Devices can be pre-registered, allowing them to be installed on site without requiring dedicated IT personnel. This reduces installation costs and simplifies network management, making the Nuclias Cloud an ideal solution for both wired and wireless network.

## 2.1 Terms and Concepts

The following section provides a brief introduction and description of the terms and concepts used in this product.

**Service Provider (SP)**: A Service Provider is an instance that sells the D-Link Nuclias service to customers and is responsible for providing user accounts (through invitation), and provision devices and licenses to subscribed organizations. A Service Provider can also assist in configuring an organization on request. Structurally, an SP operates at the highest level, one level higher than an MSP.

**Managed Service Provider (MSP)**: A Managed Service Provider (MSP) or Systems Integrator (SI) is an instance that sells the Nuclias service to client organizations. A Managed Service Provider can provision multiple organizations and can manage all organizations under it. A MSP cannot manage another MSP or its affiliated organizations. Structurally, an MSP operates one level higher than an organization.

**Organization (Org.)**: An organization is a business entity that subscribes to the D-Link Nuclias Cloud through a SP or MSP to provide wireless access to its branches. An organization may manage itself or can request the Service Provider or MSP to manage the organization. An organization cannot manage other organizations on the same level. Within the Nuclias structure, 2 organizations are considered clients. Examples of organizations include, branch offices, restaurants, medium-sized offices.

**Site Tag**: A Site Tag is a label for structurally organizing and visualizing an organization. Site Tags act as branches, with each Site Tag being able to carry one or more Sites. For example, an organization with activities in multiple geographical areas can use Site Tags to easily identify and manage regional branches.

**Site**: A Site is a label representing a physical location. Sites are used to group devices together for easier management. Sites can also be associated with a Site Tag, in which case the Site will branch of from the Site Tag. Examples of Sites include cities, branch offices, and work floors, depending on the size and scope of the organization.

**Profile**: Profiles are a set of general configuration settings that can be applied to all devices associated with the Profile so all devices are configured identically as a group. Profiles can be set up to cater to specific purposes and can be applied across different Sites and Site Tags. Examples of Profiles include customer Wi-Fi with limited access, a secure office network, and public Wi-Fi with captive portal login.

**Privileges**: Privileges determines to what extent the user can actively manage, ranging from full access to viewing only. Some elements of the Portal interface may be locked depending on the selected privilege. Refer to the overview below for a list of all available privileges.

Admin	An administrator has full access to all elements of the Portal
	interface and has full management capabilities.
Editor	An editor shares similar rights as an administrator, but cannot add
	or delete devices, users, or organizations.
Monitor	A monitor is limited to read-only access to configurations and
	analysis, and cannot configure or edit devices, users, or
	organizations.
Viewer	A viewer is restricted to read-only access to analysis only and
	cannot configure or edit devices, users, or organizations. This is
	primarily for on-site managers who only require organization
	statistics.

## **3 Getting Started with Nuclias**

This section is designed to provide new users with instructions on how to get started with the D-Link Nuclias Cloud. This covers the basic requirements for using Nuclias, including how to create an account and adding a new device using the provided Default Profile template that sets up a Wi-Fi network with recommended settings.

## 3.1 Creating an Account

Access to the D-Link Nuclias Cloud can be obtained by signing up for a free Nuclias account.

1. Go to www.nuclias.com and click Login.



2. Click Create Account.

< nuclias	
Email	
Password	Ø
Stay logged in	
Log in	
Forgot Password	Create Account

3. Select a server region and customer service country and click **Next**.

Server Region	Select which server region to store your data on.
Country	Select a country for local support. If your country is not
	listed, choose the country closest to your area.

4. Fill out the required information:

Email	Enter your email address. This is also your user name
	to log into the Nuclias Portal interface.
Full Name	Enter your full name

Password	Enter your account password.
Confirm Password	Confirm your password.
Organization Name	Enter your organization name. This will automatically
	create an organization with this name.
Region	Select a region. This will automatically create a Site
	using this region.
Timezone	Select a time zone.
Address	Enter your address.

#### 3. Click Create Account.

4. You will receive an email containing a verification link. Once verified, you can now log into the Nuclias Portal interface using your account email address and password.

## 3.2 Logging In To Nuclias

- 1. In a web browser, go to login.nuclias.com.
- 2. Enter your registration email address and password.
- 3. Click Log In.

## 3.3 Adding a Device

In order to be able to manage the network, devices need be added to the organization and assigned to Sites. There are multiple ways of adding devices to an organization.

## 3.3.1 Adding a Single Device

With all the configuration settings done, devices can be added to the organization. Devices are linked to a Site and a Profile to automatically retrieve their configuration settings.

- 1. Navigate to the **Configure > Access Point > Profiles** page.
- 2. Click Add device.

Configu	ure /	Access point / Profiles			
Cre	ate p	rofile Delete profile	Add device	Bulk import	]
	#	Profile			Model name
	1	Local Profile			DBA-1210P
	2	Global Profile			DBA-1510P

3. Fill out the required information.

Device UID	Enter the device's Unique Identifier (UID) found on the
	label printed on the device.
	The UID may be listed in the format XXXX-XXXX-
	XXXX or XXXXXXXXXXXXXX. When entering the UID,
	do not include dashes.
Device name	Enter a name for the device.
Site	Select a Site to link this device to.
Profile	Select a Profile for this device. The device will use the
	settings configured in that profile.
License Key	[Optional] Enter the device license key.
	Note: Every new device will be issued a one year free
	license key. Once expired, an additional license must
	be purchased to continue using the device.

3. Click Save when you are done.

# 3.3.2 Bulk Adding Devices to Inventory

Devices can be bulk imported and added to Inventory to be assigned to a Site later.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. Click Bulk import.

Settings / Invent	ory			
Add device	Bulk import	Delete		
Status	Device name		Model	UID

3. [Optional] Download the reference sample template.

Bulk import	×
Upload a CSV-formatted file with device UID you wish to add to inventory or map to profile and site to register device(s).	the
Browse	
You can download sample template file here Inventory	
You can download sample template file here - Register devices	
Cancel Uploa	d

- 4. Click Browse.
- 5. Locate the CSV-formatted file containing the UIDs of the devices.

Note: To add devices to the inventory, use the following format:

[UID]

6. Click Upload.

### 3.3.3 Bulk Assigning Devices to Sites

Devices can be bulk imported and immediately registered to a Site.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. Click Bulk import.



3. [Optional] Download the reference sample template.

Bulk import	×
Upload a CSV-formatted file with device UID you wish to add to invent profile and site to register device(s).	tory or map to the
	Browse
You can download sample template file here - Inventory You can download sample template file here Register devices	
Cancel	Upload

- 4. Click Browse.
- Locate the CSV-formatted file containing the UIDs of the devices.
   Note: To directly register devices to a Site, use the following format: [UID][Device Name][Profile Name][Site][License Key]
- 6. Click Upload.

### 3.3.4 Adding a Device from QR Code

Devices can be imported and immediately registered to a Site by scanning the QR code on the back or bottom of the device.

## 3.4 Managing With Nuclias

With the everything now set up, you can now start expanding and managing your network using Nuclias. There are several ways you can manage your network, refer to the following overview for more information.

- To view the real-time status of the network and at-a-glance information, refer to the **Dashboard** section.
- To monitor the organization and device activity, refer to the **Monitor** section.
- To visually structure organizations and manage devices using maps and floor plans, refer to the Map and **Floor Plans** sections.
- To create, edit, and manage Profiles for device group configuration, refer to the **Profiles** section.
- To manage devices and perform device-specific configurations, refer to the **Devices** section.
- To create, edit, and manage organizations, Site Tags, and Sites, refer to the **Organization Management** section.
- To create, edit, and manage user accounts, refer to the **Account** Management section.

## **4** Accessing the Nuclias Portal

## 4.1 Logging in to Nuclias

- 1. In a web browser, go to login.nuclias.com.
- 2. Enter your registration email address and password.
- 3. Click Log In.

## 4.2 Logging Out of Nuclias

- 1. Click the user name in the top-right corner.
- 2. Click Logout.

**Note**: Clicking **Logout** will immediately send the user back to the login page and will not prompt for confirmation.



by D-Link	as Global 🔻	All	•	Α		Alert	🔇 Nuclias User 🝷 🛞 English 🝷
DASHBOARD MONITOR	CONFIGURE	REPORTS	SETTINGS HELP	В			
OVERVIEW						DEVICES	l this page Overview 🔻
					Ð		Ð
		<ul> <li>Online</li> </ul>	Offline	<ul> <li>Dormant</li> </ul>	Total		
	& Overall	0	0	1	1		<ul> <li>Access point</li> <li>0</li> </ul>
Offline	Access point	0	0	0	0	O Access Point	• Switch 1 Total 1
	🔜 Switch	o	0	1	1		
CONNECTED CLIENTS							
							Last 24 hours 👻 🖸
	4						
Total connected cli	ients 0	15:00	18:00 21:0	0.00	00.00	06:00 09:00	12:00 15:00
		POF		<b>C</b>	03:00		16.00
POEUTILIZATION	Utilization 90%	POE	TOTAL POWER	C	0.3:00		Last 24 hours 🔹 🖓
POEUTILIZATION	Utilization 90%	• POE	TOTAL POWER	<b>C</b>	03:00		Last 24 hours - O
POEUTILIZATION	Utilization 90% Below utilization	• POE		C	03:00		Last 24 hours 🔹 🖓
	Utilization 90%  Below utilization  Above utilization  Total Pos devices	• • • • • • • • • • • • • • • • •		C	03.00		Last 24 hours 🔹 🧿
POE UTILIZATION Below	Utilization 90% Below utilization Above utilization Total PoE devices			C	03:00		Last 24 hours • Q
POE UTILIZATION Below	Utilization 90% • Below utilization • Above utilization Total PoE devices			C	03.00		Last 24 hours 🔻 🧿
POE UTILIZATION Below	Utilization 90% e Below utilization e Above utilization Total PoE devices	POE     41     41     0     31     0     21     11     0	TOTAL POWER	C 19.00 21:00 Total: 0 W	03.00 23.00 01:00   Current consumption	03.00 05.00 07.00 : OW   Max consumption (Past 24	Last 24 hours         •         <
POE UTILIZATION Below TOP INFORMATION	Utilization 90% Below utilization Above utilization Total POE devices	POE     41     4     0     21     1     0     1	TOTAL POWER	C 19.00 21.00 Total: 0 W	23.00 01:00	03.00 05.00 07.00 c O W   Max consumption (Past 24	Last 24 hours         •         <
POE UTILIZATION	Utilization 90% Below utilization Above utilization Total POE devices Last 24 hours	PDE 41 1 0 3 3 0 21 11 0 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL POWER	C 21.00 Total: 0 W	23.00 01.00   Current consumption	03.00 05.00 07.00 : 0 W   Max consumption (Past 24	Last 24 hours         •         <
OF UTILIZATION         OB O	Utilization 90% Below utilization Above utilization Total POE devices Last 24 hours /19/2019 15.32 - 04/20/20	POE 41 1 0 2 1 0 21 11 0 11 11	TOTAL POWER	C C 19.00 21.00 Total: 0 W Last 2 06/19/2019 15.3	23.00 01:00 Current consumption 4 hours • 0 2-06/20/2019 13:32	03.00 05.00 07.00 : OW   Max consumption (Past 24	Last 24 hours         •         <

## **5 Interface Overview**

Section	Item	Description
Α	Global Toolbar	Provides access to the organization and site selection
		menu as well as alerts, user account, and language menu.
В	Management	Provides access to the various device management,
	Toolbar	report, and inventory sections.
С	Workspace	The interactive workspace to manage and configure
		through the Nuclias Portal. Information and options
		displayed in the workspace depend on the currently active
		management section.

## 5.1 Global Toolbar

## 5.1.1 Site Menu

The Site menu is used to select a Site or Site Tag within the selected organization, and may only contain selected sites, depending on the privilege of the account that you have logged in with. Site Tags and Sites are an easy way of grouping devices within an organization and allow for multiple devices to be configured more easily. For most configuration options, it is necessary to select a Site to manage. Site Tags are marked by a tag icon, while Sites are marked by a single pin icon.

	clias Global 👻	All	🖉 Alert 🛛 🏈 Nuclias User 👻 🌐 English 👻			
DASHBOARD MONITO	R CONFIGURE	Q. Search				
		S Europe	Email this page Access point •			
OVERVIEW		Susa 🖓				
		🟷 Washington State	Access point   All APs  Last 24 hours			
0	<ul><li>Online</li><li>Offline</li></ul>	O         Nuclias Global           O         Berlin           O         Washington State branch				
Offline	<ul> <li>Dormant</li> <li>Total</li> </ul>	0 5MB 0 0MB 16:00 18:00 20:00 22:00	00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00			

#### 5.1.1.1 Selecting a Site

By selecting a specific Site, users can view network activity, client information, and at-a-glances for the selected Site. Certain management features are also handled on the Site-level.

1. From the Global Toolbar, click the Site menu.

	uclias Global 👻	All	🖉 Alet 🔇 Nuclias User 👻 🛞 English 💌
DASHBOARD MONIT	OR CONFIGURE	Q. Search	
		C> Europe	Email this page Access point
OVERVIEW		S USA	
		🏷 Washington State	Access point   All APs  Last 24 hours
0	<ul><li>Online</li><li>Offline</li></ul>	Image: Nuclias Global       Image: Berlin       Image: Washington State branch	
Offline	<ul> <li>Dormant</li> <li>Total</li> </ul>	0 5MB 0 0MB 16:00 18:00 2	20:00 22:00 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00

- 2. [**Optional**] Click a Site Tag to only show Sites associated with that Site Tag or click **All** to show all Sites.
- 3. Click the Site name.

**Note**: Only information for that Site will be shown in the dashboard and management sections.

## 5.1.2 Account Menu

The account menu contains the User Profile and Logout options and can be reached by clicking the user name you have logged in with.

	The function Contract. • Al •	3) Nuclias User •	inglish 🝷
DASHBOARD	MONITOR CONFIGURE REPORTS SETTINGS HELP	(R) User Profile	
		Di Log out	•
OVERVIEW	USAGE OVERVIEW		



#### 5.1.2.1 Editing a User Profile

The User Profile page is used to view the current user's profile and access privilege information. It can also be used to change the user's password and profile image.

< nuclias	Nuclias Global	All	÷	( Alert   ( R) Nuclias User +   🛞 Englis	sh 💌
DASHBOARD	MONITOR CONFIGURE R	EPORTS SETTING	GS HELP		
User Profile					
MY PROFILE				Email this page	unt
Name	Nuclias User				
E-mail					
Current password		۲			
New Password		۲			
Confirm password		۲	You may upload a png, jpeg, jpg image of up to 1MB in size.		
ACCESS PRIVILEGE	I				
Access level	Organization				
Role	Admin				
Site	Nuclias Global Organization		$\odot$		
				Cancel Save	

1. From the Global Toolbar, click the Account menu.

	Nuclias G	ilobal 🔻	All		•			Alert 🔇 N	luclias User 🔺 🌐 English 👻
DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP			⊗ U ເ∋ La	og out
OVERVIEW				USAGE OVERVI	EW				
			Ð			Access point	•	All APs 👻	Last 24 hours 🔹 🗘

- 2. Select User Profile.
- 3. Edit the user profile using one of the following actions:
  - a. Change user name
    - i. Click the user name in the Name field.
    - ii. Enter a new name and press Enter or click outside of the field.
  - b. Change password
    - i. Enter your current password in the Current Password field.
    - ii. Enter a new password in the New Password field.
    - iii. Enter the new password again in the Confirm Password field.

#### c. Edit profile image

- i. Click on the green **pencil icon** in the bottom-right corner of the profile image.
- **ii.** In the Upload Image window click **Browse** and navigate to the image you want to use.
- iii. Click Save.
- d. Email user information
  - **i.** Click the **Email this page** button to send your user information to your registered email address.
- 4. Click Save.

#### 5.1.2.2 Sending A User Profile Snapshot by

#### Email

1. From the Global Toolbar, click the Account menu.

	Nuclias Global 🔹 All	-	Alert Nuclias User
DASHBOARD	MONITOR CONFIGURE REPORTS	SETTINGS HELP	(8) User Profile
			Email sone program · · · · · · · · · · · · · · · · · · ·
OVERVIEW		USAGE OVERVIEW	
	Ð		Access point   All APs  Last 24 hours

- 2. Select User Profile.
- 3. Click Email this page.

**Note**: This will immediately send a snapshot of the user profile page to the email address registered to this user account.

	Nuclias Global - All	*	🖉 Alert 🛛 🄇 Nuclias User 👻 🗐 English 👻
DASHBOARD	MONITOR CONFIGURE REPORTS	SETTINGS HELP	
User Profile			
MY PROFILE			Email this page
Name	Nuclias User		
E-mail	documentation@dlinkcorp.com		
Current password	8-64 ACSII Characters		
New Password	8-64 ACSII Characters		
Confirm password	8-64 ACSII Characters	You may upload a png, jpeg, jpg image of up to 1MB in size.	

#### 5.1.2.3 Deleting a User Account

1. From the Global Toolbar, click the Account menu.

	Nuclias Global -	-	Alert Nuclias User • 🛞 English •
DASHBOARD	MONITOR CONFIGURE REPORTS	SETTINGS HELP	<ul> <li>Ø User Profile</li> <li>Diagout</li> <li>Email surveyage</li> <li>Email surveyage</li> </ul>
OVERVIEW		USAGE OVERVIEW	
	Ð		Access point 🔹 All APs 🔹 Last 24 hours 👻 🔂

- 2. Select User Profile.
- 3. Click Delete Account.

	III Nuclias Global - All	Ŧ	Alert Alert Nuclias User 👻 🌐 English 👻
DASHBOARD	MONITOR CONFIGURE REPO	RTS SETTINGS HELP	
User Profile			
MY PROFILE			Email this page
Name	Nuclias User		
E-mail	documentation@dlinkcorp.com		
Current password	8-64 ACSII Characters		
New Password	8-64 ACSII Characters	•	
	8-64 ACSII Characterr	You may upload a png. ipgg. ipg	

4. Enter your account password and click Save.

**Note**: Deleting an account will remove all data associated with this user. This is permanent and cannot be undone.

## 5.1.3 Language Menu

#### 5.1.3.1 Changing the Portal Language

The language menu allows users to change the display language of the Portal interface.

	Nuclias Global 👻	All		Aret ( (R) Nuclea User •	English •	
DASHBOARD	MONITOR CONFIGURE	REPORTS	SETTINGS	HELP	English	
OVERVIEW				USAGE OVERVIEW	ss point 🔹	

- 1. From the dashboard, click the display language in the top-right.
- 2. Select a language from the drop-down menu.

**Note**: Selecting another language will immediately change the portal display language into the selected language. Currently only English is supported.

## 5.2 Management Toolbar

From the Management toolbar, users can access the various management features of the Nuclias Cloud platform, including Profiles and device management, device and network reports, account management, and the device and license inventory.

Dashboard	The Dashboard offers users a real time overview of the status
	of the network including device and user activity and
	performance.
	Refer to the Dashboard section on page 17 for more
	information.
Monitor	The Monitor section grants access to detailed device, client,
	and event logs as well as the interactive map and floor plan
	tools.
	Refer to the Monitor section on page 21 for more
	Refer to the <b>Monitor section on page 21</b> for more information.
Configure	Refer to the Monitor section on page 21 for moreinformation.The Configure section grants access to the main configuration
Configure	Refer to the Monitor section on page 21 for more information.The Configure section grants access to the main configuration section including Profiles and individual device settings.
Configure	Refer to the Monitor section on page 21 for more information.The Configure section grants access to the main configuration section including Profiles and individual device settings.Refer to the Configure section on page 39 for more
Configure	Refer to the Monitor section on page 21 for more information. The Configure section grants access to the main configuration section including Profiles and individual device settings. Refer to the Configure section on page 39 for more information.
Configure Reports	Refer to the Monitor section on page 21 for more information. The Configure section grants access to the main configuration section including Profiles and individual device settings. Refer to the Configure section on page 39 for more information. The Reports section grants access to detailed reports for

	Refer to the Reports section on page 74 for more
	information.
Settings	The Settings section grants access to organization and user
	management, the device and license inventory, and firmware
	management.
	Refer to the Settings section on page 79 for more
	information.
Help	The Help section offers users a platform to submit support
	tickets and provide feedback.
	Refer to the Help section on page 98 for more information.

## 6 Dashboard

The Dashboard page is the default window that is displayed after logging into the Nuclias Portal interface. It can also be reached by clicking the **Dashboard** tab in the tool bar, and. It provides an overview of the devices, connected clients, and device activity for the selected organization. It is also possible to email a dashboard report, access the map and organization view from this window by clicking the corresponding icons in the top right of the page.

## 6.1 Customizing the Overview

- 1. Navigate to the Dashboard page
- 2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show network and device information for the selected Site. Select **All** to show network, client, and device information for all Sites.

C nuclias Jobal    Washington Sta.				🖉 Alert 🔊 Nuclias User 👻 🛞 English 👻									
DASHBOARD	MONITOR CONFIGUR	REPORT	SETTINGS	HELP									
									Em:	ail this page	A	cess point	•
OVERVIEW			USAGE OVERVIEV	/									
		Ð				Acces	s point	•	UI APs	-	Last 24 h	ours 🔻	Ð
			20MB										
	<ul> <li>Online</li> </ul>	0	15MB										
0	Offline	0	10MB										
Offline	Dormant	0	5MB										
	Total	0	0MB										

 In the Usage Overview section, select Switch or SSID, the Switch(s) and SSID(s), and the time frame from the drop-down menus.

	uclias Global 🛛 👻	All	Alert Vuclias User	• English •
DASHBOARD MONIT	or configure	REPORTS	s settings help	
			Email this page	cess point 🔹
OVERVIEW			USAGE OVERVIEW	
		0	Access point    All APs   Last 24 h	ours • 🕂
			20MB	
	<ul> <li>Online</li> </ul>	0	15MB	
0	<ul> <li>Offline</li> </ul>	0	10MB 08:00	
Offline	Dormant	0	5MB Usage: 0MB	
	Total	0	OMB	
			15:00 17:00 19:00 21:00 23:00 01:00 03:00 05:00 07:00 09:00 11:00	13:00 15:00

4. In the **Connected Clients** section, select a time frame from the drop-down menu.

								Last 24 hours	• 0
	20								
	15								
し立しの	10							11:00	
	5						c	lients: 0	
Total connected clients									
	15:00	18:00	21:00	00:00	03:00	06:00	09:00	12:00	15:00

5. In the **Top Information section**, click the filter selection in the top-right.

Top devices         Last 24 hours         Q           03/25/2019 03:24 PM - 03/26/2019 03:24 PM         03/25/2019 03:24 PM	Top SSIDs         Last 24 hours         Q           03/25/2019 03:24 PM         03/26/2019 03:24 PM	Top clients         Q           03/25/201903:24 PM - 03/26/201903:24 PM				
No data	No data	No data				

- 6. Check the information parameters to display the corresponding top information in the overview window.
- 7. In the **Top Information** section, select a time frame from the drop-down menu for each enabled section.

Top devices	Top SSIDs	Top clients
03/25/2019 03:24 PM - 03/26/2019 03:24 PM	03/25/2019 03:24 PM - 03/26/2019 03:24 PM	03/25/2019 03:24 PM - 03/26/2019 03:24 PM
No data	No data	No data

# 6.2 Sending A Dashboard Snapshot by Email

Users can create and send a snapshot of the dashboard window by email.

- 1. Navigate to the **Dashboard** page.
- Select a dashboard viewing mode from the drop-down menu in the top-right of the screen.
   Note: The information and subsequent sections on the dashboard vary depending on the currently selected viewing mode.

	as Global 🔻	All	•			Alert	🔇 Nuclias User 🔹 📵 English 👻
DASHBOARD MONITOR	CONFIGURE	REPORTS SETT	TINGS HELP				
OVERVIEW						DEVICES	his page Overview   Overview
					Ð		Access point
		<ul> <li>Online</li> </ul>	<ul> <li>Offline</li> </ul>	<ul> <li>Dormant</li> </ul>	Total		Switch
	& Overall	0	0	1	1		Ac     Ac
Offling	Access point	0	0	0	0	0 Access Deint	<ul> <li>Sv</li> </ul>
Unine	🔜 Switch	0	0	1	1	Access Form	Total 1

3. In the **Usage Overview** section, select Switch or SSID, the Switch(s) and SSID(s), and the time frame from the drop-down menus.

by D-Link				
DASHBOARD MONITO	OR CONFIGURE	REPORT	'S SETTINGS HELP	
			Email this page Access point	•
OVERVIEW			USAGE OVERVIEW	
		0	Access point   All APs  Last 24 hours	Ð
			20//8	
	<ul> <li>Online</li> </ul>	0	15MB	
0	<ul> <li>Offline</li> </ul>	0	10MB 08:00	
Offline	Dormant	0	5MB Usage: 0MB	
	Total	0		

4. In the **Connected Clients** section, select a time frame from the drop-down menu.

					Last 24 hours	• ) 0
	20					
	15					
一一百一〇	10				11:00	
	5			c	Clients: 0	
Total connected clients	)					
	0					

5. In the **Top Information section**, click the filter selection in the top-right.

Top devices         Last 24 hours         O           03/25/2019 03:24 PM - 03/26/2019 03:24 PM         03/25/2019 03:24 PM         O	Top SSIDs         Last 24 hours         O           03/25/2019/03:24 PM - 03/26/2019/03:24 PM         03/25/2019/03:24 PM         03/25/2019/03:24 PM	Top clients         Last 24 hours         Q           03/23/2019/03:24 PM - 03/26/2019/03:24 PM         03/26/2019/03:24 PM
No data	No data	No data

- 6. Check the information parameters to display the corresponding top information in the overview window.
- 7. In the **Top Information** section, select a time frame from the drop-down menu for each

Top devices	Top SSIDs	Top clients
03/25/2019 03:24 PM - 03/26/2019 03:24 PM	03/25/2019 03:24 PM - 03/26/2019 03:24 PM	03/25/2019 03:24 PM - 03/26/2019 03:24 PM
No data	No data	No data

enabled section.

- 8. Click **Email this page** in the top-right.
- In the Email report window, enter the email address of the recipient(s).
   Note: Up to 10 recipients can be added, separated by ",".
- 10. Click Send email.

# 7 Monitor

From the Monitor tab, users can view detailed device monitoring reports and access the map and floor plan windows.

Switch	The Switch section provides detailed logs for switch devices,
	connected clients, and events.
	Refer to the Switch section for more information.
Мар	The Map section provides users with an interactive map that
	offers a geographical overview of the organization's Sites.
	Refer to the Map section on page 31 for more information.
Floor Plans	The Floor Plans section allows users to create, edit, manage,
	and delete floor plans.
	Refer to the Floor Plans section on page 34 for more
	information.

## 7.1 Switch

## 7.1.1 Devices

From the Devices window, users can consult a detailed log of events occurring on the network. Users can also filter events using specific event filter parameters, including event type and time period.

## 7.1.1.1 Customizing the Device Monitor Overview

- 1. Navigate to the **Monitor > Switch > Device** page.
- 2. Select a time frame from the drop-down menu.

< nuclia	Nuclias G	ilobal 🔻 All		•		(	🙆 Alert 🛛 🄇 Nuclias User 👻 🛞 English 👻
DASHBOARD	) MONITOR	CONFIGURE REPORTS	SETTINGS	HELP			
Monitor / Switch	/ Device				Timefram	E Last 24 hours	Q Search_ 🔹 🛄 🗸 💆
# Status	Device name	MAC address	Public IP	Local IP	Model name	Connectivity	Configuration status
1 •	Test switch	00:AD:24:24:1E:50			DBS-2000-52MP		Up to date
							Previous 1 Next 10 -

3. Click the filter parameter icon.

	Nuclias	Slobal 👻 All		•			🙆 Alert 🔇 Nuclias User 👻 🛞 English 🔹
DASHBOARE	) MONITOR	CONFIGURE REPORTS	SETTINGS	HELP			
Monitor / Switch	/ Device				Timeframe:	Last 24 hours	• Q search • 🗰• 💆
# Status	Device name	MAC address	Public IP	Local IP	Model name	Connectivity	Configuration status
1 0	Test switch	00:AD:24:24:1E:50			DBS-2000-52MP		Up to date
							Previous 1 Next 10 -

Click the checkbox next to the parameters to display them in the overview.
 Note: All checked parameters will automatically appear.

## 7.1.1.2 Downloading Device Monitoring

#### Logs

- 1. Navigate to the **Monitor > Switch > Device** page.
- 2. From the device list, click the **Download** icon in the top-right.

< nuc	Nuclias	Global • All		•			Alert   🔇 Nuclias User 👻 🌐 English 🔹
DASHBO	ARD MONITOR	CONFIGURE REPORTS	SETTINGS	HELP			
Monitor / Sv	itch / Device				Timeframe:	Last 24 hours	• Q search • III •
# Statu	Bevice name	MAC address	Public IP	Local IP	Model name	Connectivity	Configuration status
1 0	Test switch	00:AD:24:24:1E:50			DBS-2000-52MP		Up to date
							Previous 1 Next 10 -

### 7.1.1.3 Changing the Device Site and

#### Profile

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Basic** tab in the top-right of the screen.
- 3. In the Site and Profile section, select a Site from the drop-down menu.
- 4. In the Site and Profile section, select a Profile from the drop-down menu.
- 5. Click Apply.

## 7.1.1.4 Changing the Device Connection Type to DHCP

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Basic** tab in the top-right of the screen.
- 3. In the IP Connection section, select a **DHCP** as the Type.

Note: Changing the connection type may disrupt the connection to the Nuclias Cloud.

- 4. When prompted to confirm, click Yes.
- Select a VLAN ID from the drop-down menu to assign the switch to a VLAN.
   Note: VLAN and Voice VLAN settings can be configured on the Profile Basic Settings page. Refer to the Configuring Basic Switch Profile Settings section on page 50 for more information.
- 6. Click Apply.

# 7.1.1.5 Changing the Device Connection to Static IP

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Basic** tab in the top-right of the screen.
- In the IP Connection section, select a Static IP as the Type.
   Note: Changing the connection type may disrupt the connection to the Nuclias Cloud.
- 4. When prompted to confirm, click Yes.
- 5. Specify the following information:

Local IP	Enter a valid IP address.
VLAN	[Optional] Check to enable VLAN functionality. This
	segments traffic on the SSID.
Subnet Mask	Enter a subnet mask.
Gateway	Enter a default gateway address.
DNS server#1	Enter a primary Domain Name System (DNS) server
	address.
DNS server#2	[Optional] Enter a secondary Domain Name System
	(DNS) server address.
DNS server#3	[Optional] Enter a tertiary Domain Name System
	(DNS) server address.

6. Click Apply.

# 7.1.1.6 Viewing and Customizing the Switch Performance Summary

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Summary** tab in the top-right of the screen.

- 3. In the Connectivity and CPU Utilization sections, select a time frame from the drop-down menu to show data for the specified time frame. Click the refresh icon to renew the data.
- 4. [**Optional**] Click on a port on the interactive switch diagram to view port-specific information.

Monitor / Switch / <u>Dev</u>	ices / DBS-2000-	10MP						• D	BS-2000-10MP 🔻
				BASIC	SUMMARY	PORTS	POWER	TOOLS	LICENSE
OVERVIEW									Configure ports on the switch
1Gbps 📒 10/100	Mpbs 📕 Dise	connected 🔲 Disab	ed 📒 Error	∳ PoE M	Mirror 🕇 Uplink				

5. **[Optional]** Click **Configure ports on the switch** to go to the switch port configuration window. Refer to the **Switch Ports section on page 67** for more information.

DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP				
Monitor / Switch / De	evices / DBS-2000	10MP						• •	BS-2000-10MP -
				BASIC	SUMMARY	PORTS	POWER	TOOLS	LICENSE
OVERVIEW									Configure ports on the swite
1Gbps 10/10	00 Mpbs 🔳 Dis	connected 📄 Disal	bled 📒 Error	∳ PoE M	Mirror 🕇 Uplink				

## 7.1.1.7 Viewing and Customizing the

#### **Switch Port Status Overview**

- 1. Navigate to the **Monitor > Switch > Device** page and select a device from the list.
- 2. Select the **Ports** tab in the top-right of the screen.
- 3. Click on a port on the interactive switch diagram to view specific information for that port.
- 4. Select a time frame from the drop-down menu to show data for the specified time frame. Click the refresh icon to renew the data.
- 5. In the Current Configuration section, click **Edit** to configure the selected port's settings. Specify the following information:

Port name	Enter	а	name	for	the	port.	lf	multiple	ports	are
-----------	-------	---	------	-----	-----	-------	----	----------	-------	-----

	selected, this name will be applied to all ports.						
Port state	Choose to enable or disable the port.						
RSTP	Choose to enable or disable Rapid Spanning Tree						
	Protocol (RSTP). RSTP prevents data loops by						
	issuing frequent BPDU packets to monitor link status.						
	<b>Note</b> : RSTP cannot be used in conjunction with LBD.						
STP guard	If RSTP is enabled, choose the guard type.						
	<b>Disabled</b> : Do not use root guard enhancement.						
	Root guard: Root guard enhancement allows						
	administrators to define the position of the root bridge						
	port in the network.						
LBD	Choose to enable or disable Loopback Detection						
	(LBD). The Loopback Detection function is used to						
	detect the loop created by a specific port while						
	Spanning Tree Protocol (STP) is not enabled in the						
	network, especially when the down links are hubs or						
	unmanaged switches. The Switch will automatically						
	shut down the port and sends a log to the						
	administrator.						
	<b>Note</b> : LBD cannot be used in conjunction with RSTP.						
Туре	Choose the function type of the port.						
	Trunk: Sends and receives tagged data from different						
	VLANs.						
	Access: Only sends and receives untagged data from						
	the VLAN the port belongs to.						
Native VLAN	Enter the ID of the native VLAN the port belongs to.						
Allowed VLANs	Enter the IDs of the VLANs that can route traffic						
	through this port. Enter <b>All</b> to allow all traffic from all						
	VLANs to pass through this port.						
Tags	Enter a descriptive tag for the port. Multiple tags can						
	be entered. If multiple ports are selected, any tags will						
	be applied to all ports.						
Link (RJ45)							
, , ,	Choose the maximum link speed of the port. Select						
	Choose the maximum link speed of the port. Select <b>Auto</b> to allow the port to auto-negotiate port speed						
	Choose the maximum link speed of the port. Select <b>Auto</b> to allow the port to auto-negotiate port speed with the partner port or device.						

	(PoE) functionality on this port.
	Note: The PoE setting will only apply to ports that
	support Power over Ethernet.
Port Schedule	Choose a port schedule. Port schedules are
	configured separately. Refer to the Creating a Switch
	Port Schedule section on page 47.

- 6. Click Apply.
- 7. In the Cable Test window of the Troubleshooting section, click **Test** to perform a cable test on this port. This will scan the physical connection to the port for any problems.
- 8. In the Cycle Port window of the Troubleshooting section, click **Test** to perform a port cycle test on this port. This will disable and re-enable the port.
- 9. In the Overview Packets section, select a time frame from the drop-down menu to display data for the selected time period.

## 7.1.1.8 Viewing and Customizing The

#### **Switch Power Consumption Overview**

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Power** tab in the top-right of the screen.
- Select a time frame from the drop-down menu to show data for the specified time frame. Click the refresh icon to renew the data.

DASHBOARD N	IONITOR CONFIGUR	E REPORTS	SETTINGS	HELP				
Monitor / Switch / <u>Devices</u>	/ DBS-2000-10MP						[	DBS-2000-10MP
			BASIC	SUMMARY	PORTS	POWER	TOOLS	LICENSE
4 W								Last 24 hours
4 W								
2 W								

# **7.1.1.9 Performing a Device Ping Test**

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Tools** tab in the top-right of the screen.
- 3. In the IP address/FQDA field in the Ping section, enter a valid IP address or FQDA.
- 4. Click Ping.

#### 7.1.1.10 Performing a MAC Forwarding

#### **Table Test**

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the Tools tab in the top-right of the screen.
- 3. In the MAC Forwarding Table section, click Run.

#### 7.1.1.11 Performing a Cable Test

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Tools** tab in the top-right of the screen.
- In the Cable Test section, enter the port numbers to run the cable test on.
   Note: The scan will only be performed on ports with a physical connection.
- 4. Click Test.

#### 7.1.1.12 Performing a Port Cycle Test

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the Tools tab in the top-right of the screen.
- 3. In the Cycle Port section, enter the port numbers to run the cable test on.
- 4. Click Test.

#### 7.1.1.13 Performing a Blink LED Test

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the **Tools** tab in the top-right of the screen.
- 3. In the Others section, click Start.

Note: The Start button will change to Stop once the test begins.

4. Click Stop to end the test.

#### 7.1.1.14 Manually Rebooting a Device
- 1. Navigate to the **Monitor > Switch > Device** page and select a device from the list.
- 2. Select the **Tools** tab in the top-right of the screen.
- 3. In the Others section, click Reboot.

#### 7.1.1.15 Adding a License Key to a Device

- 1. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 2. Select the License tab in the top-right of the screen.
- 3. In the License Table section, click **Add License**.
- 4. Enter a valid license key.
- 5. Click Save.

DASHBOARD	MONE	OR CONFIGURE	REPORTS	SETTINGS	HELP							
Monitor / Switch	Devices / Ter	er-DBS2000									Tester-DBS2000	•
						BASIC	SUMMARY	PORTS	POWER	TOOLS	LICENSE	1
	ORMATION											
License status		nactive										
License start da	ite											
License expirat	lon date											
L												
LICENSE TABLE												
# Status	Кеу											Action
1	BBGFTBEM	XNPLJ6Q3U2F										DELETE
Add license												

# 7.1.1.16 Deleting a License Key From a Device

- 6. Navigate to the Monitor > Switch > Device page and select a device from the list.
- 7. Select the **License** tab in the top-right of the screen.
- 8. In the License Table section, from the license key list, click **Delete** under the Actions column of the license key you wish to delete.
- 9. When prompted to confirm, click Yes.

**Note**: Deleting a license key from a device will move it back to the license management inventory until it is reassigned to another device.

DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP							
Monitor / Switch /	Devices / Tester-D85	2000									Tester-DBS2000	•
						BASIC	SUMMARY	PORTS	POWER	TOOLS	LICENSE	
LICENSEINF	ORMATION											
License status	Inactive											
License start dar	e											
License expiration	on date											
LICENSE TABLE												
# Status												Action
1	BBGFTBEMNXNPL	6Q3U2F										1 DELETE
Add license												

## 7.1.2 Clients

From the Clients window, users can consult a detailed overview of all currently registered devices with additional information including status, clients, and general settings.

## 7.1.2.1 Customizing the Client Monitor

#### Overview

- 1. Navigate to the **Monitor > Switch > Clients** page.
- 2. Select a time frame from the drop-down menu.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS SETTINGS	HELP						
Monitor / Switch /	Clients					Timefra	me: Last 24 hours	• ٩	Search	• III• ¥
# Status	Client name	MAC address	IPv4 address	Connected to	Port	VLAN	Last seen	Last Seen	LLDP	Manufacturer
0 clients dating back	to 03/31/2019									Previous Next 10 -

3. Click the parameter filter icon.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS SETTING	S HELP						
Monitor / Switch / C	lients					Timefra	me: Last 24 hours	• Q	Search	• III• ±
# Status	Client name	MAC address	IPv4 address	Connected to	Port	VLAN	Last seen	Last Seen	LLDP	Manufacturer
0 clients dating back t	o 03/31/2019								ſ	Previous Next 10 -

Click the checkbox next to the parameters to display them in the overview.
 Note: All checked parameters will automatically appear.

## 7.1.2.2 Downloading Client Monitoring Logs

- 1. Navigate to the Monitor > Switch > Clients page.
- 2. From the device list, click the **Download** icon in the top-right.

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DASHBOARD	MONITOR	CONFIGURE F	REPORTS SETTINGS	5 HELP						
Monitor / Switch /	Clients					Timefrar	me: Last 24 hours	• Q:	Search	• • •
# Status	Client name	MAC address	IPv4 address	Connected to	Port	VLAN	Last seen	Last Seen	LLDP	Manufacturer
0 clients dating back	to 03/31/2019									Previous Next 10 -

## 7.1.3 Event Logs

From the Events Logs window, users can consult a detailed log of events occurring on the network. Users can define event filter parameters, including event type and time period.

### 7.1.3.1 Filtering Event Log Parameters

- 1. Navigate to the **Monitor > Switch > Event Logs** page.
- In the Start Date field, click the calendar icon to select a date and enter a time of day to define the event log starting time.
- 3. In the End date field, click the calendar icon to select a date and enter a time of day to define the event log ending time.
- 4. Click the Severity drop-down menu and select the severity levels to display.
- 5. Click the Event type drop-down menu and select the event types to display.
- Click the Device drop-down menu and select a device who's events logs you wish to filter.
   Note: Select All to show event logs for all devices.
- 7. Click Filter to display all events matching the defined parameters.
- 8. [Optional] Click Reset filters to reset all currently set parameters.

### 7.1.3.2 Downloading Event Logs

- 1. Navigate to the **Monitor > Switch > Event Logs** page.
- 2. From the event log list, click **Download** icon in the center.

	Global •	•		Alert 🔇 Nuclias User 🔹 🌘	English 👻
DASHBOARD MONITOR	CONFIGURE REPORTS	SETTINGS HELP			
Monitor / Switch / Event log					
Start date Jan 31,2019	11:09 AM	End date Apr 01,2019	11:09 AM		
Severity All	•	Event type All	✓ Device	All	•
		Reset filters Filter	L Download		
# Time	Switch S	everity Event typ	e Ev	ent Description	
		There is no matched item			
				Previous Nex	d 10 🕶

## 7.2 Map

From the Map window, users can consult a geographical overview of the organization's Sites in the form of an interactive world map.

Note: Sites must be linked to a valid address in order to show up on the map.

## 7.2.1 Navigating the Map

From the interactive map, users can view a geographical representation of the Site's physical location as well as view basic information and the current status of the Site.

- 1. Navigate to the **Monitor > Map** page.
- 2. Click **Map** or **Satellite** in the top-left corner of the map to switch between the street map and satellite image map.



3. Click the expand icon in the top-right corner of the map to toggle full-screen mode.



Note: Click the expand icon again to return to windowed mode.

- 4. Click and drag the left-mouse button to move around on the map.
- Click the + and buttons in the bottom-right corner of the map to zoom in and out on the map. Alternatively, hold Ctrl and scroll the mouse wheel up and down to zoom in and out.



6. Drag and drop the Pegman icon anywhere on the map to open the street view of that location.

Note: When in street view, click the return arrow to return to the map view.



## 7.2.2 Navigating Sites on the Map Using the Site List

From the interactive map, users can view a geographical representation of the Site's physical location as well as view basic information and the current status of the Site.

- 1. Navigate to the **Monitor > Map** page.
- 2. Click **Site List** on the left-hand side of the map.



- 3. In the Site List, click the organization name to expand the list of Sites under the organization.
- 4. [Optional] Click the search field and enter the Site name.
- 5. From the expanded Site list, click the Site name. The map will automatically navigate to the Site's location on the map.



- 6. Hover the cursor over the Site icon to view basic information.
- 7. [**Optional**] Click the Site name in the Site window to open the Dashboard view for that Site.

## 7.3 Floor Plans

Floor plans offer an easy way to visually represent the location of each device within the organization. Floor plans are managed per Site, and each Site can have multiple floor plans.

## 7.3.1 Adding a Floor Plan

Users can create floor plans to have a visual overview of device placement.

Note: Floor plans are created for individual Sites within the organization.

- 1. Navigate to the **Monitor > Floor plans** page.
- 2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show floor plans created for the selected Site. Select **All** to show all floor plans for all Sites.

	Nuclias Global 🔻	🖉 Alert 📄 Nuclias User 👻 🛞 English 🔻		
DASHBOARD	MONITOR CONFIGURE	REPORTS SETTINGS HELP		
Monitor / Floor Plan				Add floor plan
Floor plan name		Site	AP	Actions
test test		Washington State branch	0	١
test		Washington State branch	0	1
			Previou	s 1 Next 10 -

3. From the floor plan list, click **Add Floor Plan**.

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DASHBOARD	MONITOR C	ONFIGURE	REPORTS	SETTINGS	HELP			
Monitor / Floor Plan								Add Floor Plan
Floor plan name						Site	AP	Actions
new floor						Nuclias Global Organization	0	1
								Previous 1 Next 10 -

- 4. Select the Site to associate this floor plan with.
- 5. Click OK.

## 7.3.1 Editing Floor Plan

Users can add and remove device icons to floor plans for a visual overview of the device placement, edit the floor plan name, and upload a custom floor plan image.

#### 7.3.1.1 Adding Devices to a Floor Plan

Devices can be dragged onto the floor plan to create a visual representation of the placement of the devices within the organization.

1. Navigate to the **Monitor > Floor Plan** page.

2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show floor plans created for the selected Site. Select **All** to show all floor plans for all Sites.

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DASHBOARD MONITO	DR CONFIGURE REPORTS SETTINGS HELP	
Monitor / Floor Plan		Add floor plan
, Floor plan name	Site	AP Actions
test test	Washington State branch	o 🛍
test	Washington State branch	o 🛍
		Previous 1 Next 10 -

- 3. From the floor plan list click on the floor plan name.
- 4. Click and drag a device from the **Unplaced Devices** list onto the floor plan to place it on the floor plan.
- 5. Click Save.

## 7.3.1.2 Removing Devices from a Floor Plan

- 1. Navigate to the **Monitor > Floor Plan** page.
- 2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show floor plans created for the selected Site. Select **All** to show all floor plans for all Sites.

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DASHBOARD MONITOR	R CONFIGURE REPORTS SETTINGS HELP	
Monitor / Floor Plan		Add floor plan
Floor plan name	Site	AP Actions
test test	Washington State branch	o 🛍
test	Washington State branch	o 🛍
		Previous 1 Next 10 -

- 3. From the floor plan list, click on the floor plan name.
- 4. Click the **X** icon next to the device in the **AP** list that you wish to remove.

**Note**: Devices removed from the floor plan will automatically be moved to the **Unplaced Devices** list.

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DASHBOARD MONITOR	CONFIGURE REPORTS SETTINGS	HELP	
Monitor / Floor plans / Edit			
	Floor plan name : Berlin Floor Plan		Remove image Upload image
Unplaced devices	-		•
AP	- ELECT. (E)		
Test device		$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1
	Test device		
			1
	(E)		
	(E) OFFICE OFFICE (E)		

5. Click Save.

#### 7.3.1.3 Editing a Floor Plan Name

- 1. Navigate to the **Monitor > Floor Plan** page.
- 2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show floor plans created for the selected Site. Select **All** to show all floor plans for all Sites.

	Nuclias Global 👻	💇 Washington Sta 🔹	🖉 Alert 🛛 🎉 Nuclias User	English •
DASHBOARD	MONITOR CONFIGURE	REPORTS SETTINGS HELP		
Monitor / Floor Plan				Add floor plan
Floor plan name		Site	AP	Actions
test test		Washington State branch	0	Ŵ
test		Washington State branch	0	1
			Previous	Next 10 -

- 3. From the floor plan list, click on the floor plan name.
- 4. Click the floor plan name in the Floor Plan Name field.



- 5. Enter a new name and press Enter or click outside of the field
- 6. Click Save.

#### 7.3.1.4 Adding a Custom Floor Plan Image

- 1. Navigate to the Monitor > Floor Plan page.
- 2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show floor plans created for the selected Site. Select **All** to show all floor plans for all Sites.

	Nuclias Global • Washington Sta.	🙆 Alert 🛛 🔊 Nuclias User 👻 📵 English
DASHBOARD	Monitor configure reports settings Help	
Monitor / Floor Plan		Add floor pla
Floor plan name	Site	AP Actio
test test	Washington State branch	۰ ۵
test	Washington State branch	o 🋍
test	Washington State branch	0 Previous 1 Next

- 3. From the floor plan list, click on the floor plan name.
- 4. On the floor plan page, click **Upload image**.
- 5. In the Upload Image window click **Browse** and navigate to the floor plan image you want to use.
- 6. Click Upload.
- 7. Click Save.

## 7.3.1.5 Removing a Custom Floor Plan

#### Image

1. Navigate to the **Monitor > Floor plans** page.

2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show floor plans created for the selected Site. Select **All** to show all floor plans for all Sites.

	Nuclias Global • 🕅 💇 Washington Sta_	🖉 Alert 🛛 🔊 Nuclias User 👻 🚳 English
DASHBOARD MONIT	TOR CONFIGURE REPORTS SETTINGS HELP	
Monitor / Floor Plan		Add floor pla
Floor plan name	Site	AP Actio
test test	Washington State branch	٥ 🛍
test	Washington State branch	٥ ش
		Previous 1 Next 10

- 3. From the floor plan list, click on the floor plan name.
- 4. On the floor plan page, click **Remove image**.
- 5. When prompted to confirm, click **Delete**.

Note: Deleting a custom image will restore the default floor plan image.

6. Click Save.

### 7.3.2 Deleting a Floor Plan

- 1. Navigate to the **Monitor > Floor plans** page.
- 2. Select a Site from the Site menu.

**Note**: Selecting a Site will only show floor plans created for the selected Site. Select **All** to show all floor plans for all Sites.

	Nacias Global • 🕅 🖉 Washington Sta.	🙆 Alert 🛛 🌊 Nuclias User 👻 🍘 English 👻
DASHBOARD	MONITOR CONFIGURE REPORTS SETTINGS HELP	
Monitor / Floor Plan		Add floor plan
Floor plan name	Site	AP Actions
test test	Washington State branch	o 🛍
test	Washington State branch	0 🛍
		Previous 1 Next 10 -

3. From the floor plan list, click the trash can icon under the Actions column of the floor plan you wish to delete.



4. When prompted to confirm, click Yes.

## 8 Configure – Switch

From the Configure section, users can manage Profiles and devices for organizations. Because Profiles and Devices are managed on the organization level and are not shared between organizations, users must select a specific organization from the organization drop-down menu. The following sections provides more detailed information about Profile and Device management respectively.

Profiles	From the Profiles section, users can create new and edit
	existing profiles, add a single device or bulk import a group of
	devices, and apply profile configuration settings to device
	groups.
	Refer to the Profiles section on page 39 for more
	information.
Devices	From the Devices section, users can add a single device, or
	bulk import a group of devices, and configure individual
	devices.
	Refer to the Devices section on page 61 for more
	information.
Switch Ports	From the Switch Ports section, users can configure features
	on a single port or a group of selected ports.
	Refer to the Switch Ports section on page 67 for more
	information.

## 8.1 Profiles

## 8.1.1 Creating a Profile

Profiles are a set of general configuration settings that can be swiftly and easily applied to all devices associated with the Profile so all devices are configured identically as a group. Within each profile, users can configure switch port functionality, port activity schedules, and advanced features including VLAN, Quality of Service, and access control functions.

**Note**: Profiles are created for individual organizations. In order to configure Profiles, select the organization from the drop-down menu at the top of the page.

1. Navigate to the **Configure > Switch > Profiles** page.

- 2. Click Create Profile.
- Enter a name for the Profile and choose the device model.
   Note: The Profile can only be used for the selected device model type.
- 4. **[Optional]** Select **Clone from exist profile** and choose a Profile from the drop-down menu to clone an existing Profile.
- 5. Click Create Profile.

#### 8.1.2 Deleting a Profile

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Delete** under the Actions column of the Profile you wish to delete.
- 3. When prompted to confirm, click Yes.

#### 8.1.3 Deleting Multiple Profiles

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. Click the checkbox next to the Profiles you wish to delete.
- 3. Click Delete profile.

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DA	SHBOARD MC	ONITOR CONFIGURE REF	ORTS SETTINGS F	HELP	
Configu	ure / Switch / Profiles				
Crea	ate profile Delete	profile Add device Bulk import			Q Search
	# Profile	Model series	Devices	Sites	Actions
	1 Test 2	DBS-2000	Q	Q	🖸 PORTS 🗟 PORT SCHEDULES 🛞 SETTINGS 🖓 PUSH CONFIGURATION 📋 DELETE
	2 test	DBS-2000	Q	٥	🖸 PORTS 🗟 PORT SCHEDULES 🕲 SETTINGS 🗘 PUSH CONFIGURATION 🗎 DELETE
		DB5 2000	1	1	D PORTS TO PORT SCHEDULES OF SETTINGS OF PUSH CONFIGURATION IN DELETE

4. When prompted to confirm, click Yes.

## 8.1.4 Configuring Switch Port Settings

From the Ports window, users can configure basic and advanced settings for individual ports or groups of ports. Switch ports are categorized into group ports, with each group referring to the number of ports on the physical switch model. For example, port group 10 configures port settings for 10-port switches. The port settings configured in the profile will only apply to the ports of the corresponding switch type. For example, any port configurations for port group 10 will only apply to corresponding ports on 10-port switch using this profile.

## 8.1.4.1 Customizing the Profile Port Configuration Overview

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- Select a port group from the drop-down menu. This will only display ports for the selected port group profile. For example, selecting port group 28 will only show ports 1 to 28 of the profile used for 28-port switches. Select **All** to show all port groups.

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DASHBOARD MONITO	R CONFIGUI	re repo	RTS SETTINGS	HELP							
Configure / Switch / Profiles / DBS	-2000 / PORTS										
			PORT	S		PORT SCHED	ULES			SETTINGS	
Edit Aggregate S	plit Mirror	Unmirror	Tag 👻 90 switch po	orts		Ports grou	ıp: All		• •	Search	•
# Ports group / port	Ports group	Port #	Link Type	VLAN	Allowed VLANs	Port state	PoE	RSTP	LBD	Port schedules	Access policies
1 <u>10 ports/1</u>	10 ports	1	Auto Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled

4. Click the filter parameter icon.

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DASHBOARD MON	NITOR CONFIGU	JRE REPORTS	SETTINGS	HELP						
Configure / Switch / Profiles /	DBS-2000 / PORTS									
	4		PORTS	•		PORT SCHEDULES			SETTINGS	5
Edit Aggregate	1 Split Mirror	Unmirror Tag	90 switch por	rts		PORT SCHEDULES Ports group: All		• Q	SETTINGS	5 •
PUSH CONFIGURATION     Edit Aggregate     # Ports group / po	Split Mirror rt Ports group	Unmirror Tag Port# Link	PORTS 90 switch por C Type	rts VLAN	Allowed VLANs	PORT SCHEDULES Ports group: All Port state PoE	RSTP	• Q LBD	SETTINGS Search Port schedules	Access policies

5. Click the checkbox next to the parameters to display them in the overview. **Note**: All checked parameters will automatically appear.

#### 8.1.4.2 Configuring Profile Port Settings

#### For One or More Switch Ports

Switch port configuration allows administrators to configure extensive port functionality including port availability, port speed, redundancy, VLAN, PoE, and port activity schedules for an individual port or for a group of ports.

1. Navigate to the **Configure > Switch > Profiles** page.

- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the ports you wish to edit.
- 4. Click Edit.
- 5. Specify the following information:

**Note**: At the top of the edit port window is a list of all selected ports. The changes made will apply to all selected ports.

Port name	Enter a name for the port. If multiple ports are
	selected, this name will be applied to all ports.
Port state	Choose to enable or disable the port.
RSTP	Choose to enable or disable Rapid Spanning Tree
	Protocol (RSTP). RSTP prevents data loops by
	issuing frequent BPDU packets to monitor link status.
	<b>Note</b> : RSTP cannot be used in conjunction with LBD.
STP guard	If RSTP is enabled, choose the guard type.
	<b>Disabled</b> : Do not use root guard enhancement.
	Root guard: Root guard enhancement allows
	administrators to define the position of the root bridge
	port in the network.
LBD	Choose to enable or disable Loopback Detection
	(LBD). The Loopback Detection function is used to
	detect the loop created by a specific port while
	Spanning Tree Protocol (STP) is not enabled in the
	network, especially when the down links are hubs or
	unmanaged switches. The Switch will automatically
	shut down the port and sends a log to the
	administrator.
	<b>Note</b> : LBD cannot be used in conjunction with RSTP.
Туре	Choose the function type of the port.
	Trunk: Sends and receives tagged data from different
	VLANs.
	Access: Only sends and receives untagged data from
	the VLAN the port belongs to.
Native VLAN	Enter the ID of the native VLAN the port belongs to.
Allowed VLANs	Enter the IDs of the VLANs that can route traffic

	through this port. Enter All to allow all traffic from all
	VLANs to pass through this port.
Tags	Enter a descriptive tag for the port. Multiple tags can
	be entered. If multiple ports are selected, any tags will
	be applied to all ports.
Link (RJ45)	Choose the maximum link speed of the port. Select
	Auto to allow the port to auto-negotiate port speed
	with the partner port or device.
PoE	Choose to enable or disable Power over Ethernet
	(PoE) functionality on this port.
	Note: The PoE setting will only apply to ports that
	support Power over Ethernet.
Port Schedule	Choose a port schedule. Port schedules are
	separately configured. Refer to the Creating a Switch
	Port Schedule section on page 47.

- 6. Click Save.
- 7. Click Push Configuration.

## 8.1.4.3 Aggregating Multiple Switch Profile Ports

Port aggregation allows users to link multiple physical ports together as one logical link to increase port bandwidth and redundancy in the event of a single physical link failure. Ports can be aggregated using either LACP or static link.

**Note**: Port aggregation is not supported if the port type is set to "Access". To configure the port type, refer to the **Configuring Port Settings for One or More Switch Ports section on page 41** for more information.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the ports you wish to link together.
- 4. Click Aggregate.
- 5. In the Link Aggregation Setting window, select the aggregation type.

**Note**: Static link requires manual configuration of the ports in the aggregation group. Link Aggregation Control Protocol (LACP) dynamically queries to listening ports to join the aggregation group.

LACP	LACP (Link Aggregation Control Protocol) allows the
	group.
Static	Static link aggregation.

#### 6. Click Aggregate.

**Note**: Aggregated ports can be identified by the combined port number in the Port # column of the port overview.

DASHB	OARD MONITO	R CONFIGU	RE REPO	ORTS SET	TINGS	HELP							
Configure /	Switch / Profiles / Test	2 / PORTS											
GD PUS	H CONFIGURATION				PORTS			PORT SCHEL	DULES			SETTINGS	
				Tag 💌 8	9 switch por	ts		Ports gro	up: All		• Q	Search	• •
#	Ports group / port	Ports group	Port #	Link	Туре	VLAN	Allowed VLANs	Port state	PoE	RSTP	LBD	Port schedules	Access Policie
1	<u>10 ports / 3</u>	10 ports	3	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
2	10 ports / 4	10 ports	4	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
3	10 ports / 5	10 ports	5	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled
4	10 ports / 6	10 ports	6	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
5	10 ports / 7	10 ports	7	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled
6	10 ports / 8	10 ports	8	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
7	<u>10 ports / 9</u>	10 ports	9	1Gbps (auto)	Trunk	Native 1	All	Enabled	Disabled	Disabled	Disabled	-	Disabled
8	10 ports / 10	10 ports	10	1Gbps (auto)	Trunk	Native 1	All	Enabled	Disabled	Disabled	Disabled	-	Disabled
9	10 ports / 1.2	10 ports	1, 2	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
10	28 ports / 1	28 ports	1	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled

7. Click Push Configuration.

#### 8.1.4.4 Splitting Aggregated Switch Ports

Linked port groups can be split into their respective individual ports. Splitting port groups will undo all aggregation settings applied to the affected ports.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the aggregated port(s) you wish to split.
- 4. Click Split.

Note: This will immediately split the selected aggregated ports.

5. Click Push Configuration.

## 8.1.4.5 Mirroring Port Traffic to Another

### **Switch Profile Port**

Port Mirroring is a method of monitoring network traffic that forwards a copy of each incoming and/or outgoing packet from one port of the switch to another port, where the packet can be studied. This enables network managers to better monitor network performance.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the port(s) you wish to mirror.
- 4. Click **Mirror**.
- 5. Specify the following information:

Source ports	Select the data to mirror from the drop-down menu for
	each selected port.
	Both: Mirror both incoming and outgoing.
	<b>Rx</b> : Mirror only data received on the port.
	<b>Tx</b> : Mirror only data transmitted by the port.
Destination port	Enter the port number of the destination port.
	Note: The port number should be in numerical format,
	for example <b>28</b> .

- 6. Click Create port mirror.
- 7. Click Push Configuration.

#### 8.1.4.6 Undoing Port Traffic Mirroring

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the mirrored port(s) you wish to unmirror.
- 4. Click Unmirror.

Note: This will immediately undo the selected mirrored ports.

5. Click Push Configuration.

## 8.1.4.7 Adding a Tag to One or More Switch Profile Ports

User can add descriptive tag to ports to identify and filter different ports or groups of ports. Tags are purely informational and do not affect the functionality of the port.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the port(s) you wish to add a tag to.
- 4. Click Tag.
- 5. In the Add field, enter the tag content. Multiple tags can be entered.

Note: If this is a new tag, click Add option to make this a reusable tag.

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DASHBOARD MONITOR C	CONFIGURE REPORTS	SETTINGS HELP					
Configure / Switch / Profiles / Test 2 / PORTS	s	DONTO				CETTINGS	
		PORTS	PORT SCHEDULES			SETTINGS	
Edit Aggregate Split	Mirror Unmirror Tag •	90 switch ports	Ports group: A		• Q	Search	•
# Ports group / port Ports	group Port# Add		PoE	RSTP	LBD	Port schedules	Access Policies
✓ 1 <u>10 ports / 1</u> 10 ports / 1	rts 1 office	x local x tag	Add Enab	ed Disabled	Disabled	-	Disabled
✓ 2 <u>10 ports / 2</u> 10 ports	rts 2 No	result match" "tag" " Add option" "tag" "	Enab	ed Disabled	Disabled		Disabled
✓ 3 <u>10 ports/3</u> 10 port	rts 3 Auto	ITUIK NAUVEL AI	Enableo Enab	ed Disabled	Disabled		Disabled
✓ 4 <u>10 ports/4</u> 10 ports/4	rts 4 Auto	Trunk Native 1 All	Enabled Enab	ed Disabled	Disabled		Disabled

6. Click Add.

Note: Any tags associated to a port will be shown in the Tags column.

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DASHBOARD	MONITO	R CONFI	GURE	REPORTS	SETTINGS I	HELP							
Configure / Switch / I	Profiles / Test	2 / PORTS											
PUSH CONFIG	URATION				PORTS			PORT	SCHEDULES		5	ETTINGS	
Edit Aggre		plit Mirro	or Unmi	rror Tag	▼ 90 switch ports			Po	orts group:	All	Q Search_	-	
Ports group	Port#	Link	Туре	VLAN	Allowed VLANs	Port state	PoE	RSTP	LBD	Port schedules	Access Policies	Mirror	Tags
10 ports	1	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled		office.local
10 ports	2	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled		office.local
10 ports	3	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled	-	office.local
10 ports	4	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled	-	office.local
10 ports	5	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled	-	

## 8.1.4.8 Removing a Tag From One or More Switch Ports

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the tagged port(s) you wish to remove the tag(s) from.
- 4. Click Tag.
- 5. In the Delete field, enter the tag name. Alternatively, click the input field to bring up a list with all the associated tags.
- 6. Click Remove.

## 8.1.5 Configuring Switch Profile Port Schedules

#### 8.1.5.1 Creating a Switch Port Schedule

Users can create customized schedules to configure port activity for each day of the week. Schedules are applied to individual ports. To apply schedules to ports, refer to the **Configuring Port Settings for One or More Ports** section on page **41**.

- 1. Navigate to the Configure > Switch > Profiles page.
- 2. From the Profile list, click **Port Schedules** under the Actions column of the Profile you wish to edit.
- 3. Click Add port schedule.

<pre></pre>		(	Alert 🔇 Nuclias User 👻 🚳 English 🔹
DASHBOARD MONITOR CONFIGURE	REPORTS SETTINGS HELP		
Configure / Switch / Profiles / Test 2 / PORT SCHEDULES			
	PORTS	PORT SCHEDULES	SETTINGS
Add port schedule			
# Port schedule name			Actions
	Cancel	Save	

- 4. Enter a name for the schedule.
- 5. [**Optional**] Select a predefined schedule template from the drop-down menu.
- [Optional] Click the 24 HOURS or AM/PM button in the top-right to change the time display format.
- 7. In the Availability column, select the schedule behavior for each day of the week:

On	The port will be active during the defined time period.
Off	The port will be disabled during the defined time
	period.

8. In the From and To column, select a schedule starting and ending time from the dropdown menu. Alternatively, drag the left and right sliders in the Time display column to define the port activity period.

Name :					
emplates : C	ustom schedule	-		24 HOURS	AM/PM
ay of week	Availability	From	То	Time display	
unday	● On 🔵 Off	04:00	• 10:30		2
londay	● On 🔵 Off	08:00	<ul> <li>✓</li> <li>24:00</li> </ul>	<ul> <li>✓ 0400</li> <li>✓ 0400</li> <li>✓ 12:00</li> <li>12:00</li> <li>12:00</li> </ul>	2/
Jesday	● On 🔵 Off	00:00	<ul> <li>✓</li> <li>12:00</li> </ul>	✓ 0000 0400 0500 1200 1200 2000	2
/ednesday	On Off	00:00	<ul> <li> <ul> <li>■ 12:00</li> </ul> </li> </ul>	▼ 0000 0400 0800 1200 1200 2000	2
hursday	● On 🔵 Off	00:00	<ul><li>✓</li><li>24:00</li></ul>	<ul> <li>↓ 0     </li> </li></li></li></li></li></li></li></li></li></li></li></ul>	2
iday	● On 🔵 Off	07:30	<ul> <li>✓</li> <li>24:00</li> </ul>	✓ 0400 0400 12:00 12:00 2000	2
aturday	● On 🔵 Off	07:30	• 24:00	• 0000 0400 0800 1200 1200 2000	2

- 9. In the add port schedule window, click **Save**.
- 10. [Optional] Repeat steps 3 to 9 to create additional schedules.
- 11. Click Save.

### 8.1.5.2 Editing a Switch Port Schedule

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Port Schedules** under the Actions column of the Profile you wish to edit.
- 3. From the port schedule list, click **Edit** under the Actions column of the port schedule you wish to edit.

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DASHBOARD MONITOR CONFIGURE REPOR	RTS SETTINGS HELP		
Configure / Switch / Profiles / Test 2 / PORT SCHEDULES	PORTS	PORT SCHEDULES	SETTINGS
Add port schedule			
# Port schedule name			Actions
1 Weekdays Schedule			C EDIT 🛍 DELETE
	Cancel	Save	

- 4. **[Optional]** Select a predefined schedule template from the drop-down menu.
- 5. [**Optional**] Click the **24 HOURS** or **AM/PM** button in the top-right to change the time display format.
- 6. In the Availability column, select the schedule behavior for each day of the week:

On	The port will be active during the defined time period.
Off	The port will be disabled during the defined time
	period.

7. In the From and To column, select a schedule starting and ending time from the dropdown menu. Alternatively, drag the left and right sliders in the Time display column to define the port activity period.

Add port sche	edule			
Name : Cu	stom schedule	•		24 HOURS AM/PM
Day of week	Availability	From	То	Time display
Sunday	● On 🔵 Off	04:00	<ul> <li>✓ 10:30</li> </ul>	
Monday	● On ○ Off	08:00	• 24:00	• 0x000 0400 0500 1200 2000 2400
Tuesday	● On ◯ Off	00:00	<ul> <li>✓</li> <li>12:00</li> </ul>	- 0000 0400 0600 1200 1200 2200 2400
Wednesday	● On ○ Off	00:00	<ul> <li>✓</li> <li>12:00</li> </ul>	<ul> <li>0000</li> <li>0400</li> <li>0600</li> <li>1200</li> <li>1200</li> <li>2000</li> <li>2400</li> </ul>
Thursday	● On ○ Off	00:00	• 24:00	
Friday	● On 🔵 Off	07:30	<ul> <li>✓</li> <li>24:00</li> </ul>	■ 0000 0400 0600 1200 1600 2000 2400
Saturday	● On ○ Off	07:30	• 24:00	■ 0000 0400 0800 1200 1600 2000 2400
				Cancel Save

- 8. Click Save.
- 9. Click Push Configuration.

#### 8.1.5.3 Deleting a Switch Port Schedule

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Port Schedules** under the Actions column of the Profile you wish to edit.
- 3. From the port schedule list, click **Delete** under the Actions column of the port schedule you wish to delete.

< nuclias Image: Nuclias Global	All		Alert 🔇 Nuclias User 🔹 🛞 English
DASHBOARD MONITOR CONFIGURE R	EPORTS SETTINGS HELP		
Configure / Switch / Profiles / Test 2 / PORT SCHEDULES			
$\langle _{ij} \rangle$ push configuration	PORTS	PORT SCHEDULES	SETTINGS
Add port schedule			
# Port schedule name			Actions
1 Weekdays Schedule			🖉 EDIT 🕅 DELETE
	Canad	6	

4. When prompted to confirm, click Yes.

## 8.1.6 Configuring Basic Switch Profile Settings

## 8.1.6.1 Configuring Management VLAN Membership

The management VLAN is the primary VLAN to connect to the cloud to configure and manage the network. By default, management VLAN 1 is the default for all switch ports.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the **Basic** tab.
- 4. In the VLAN Configuration section, select a VLAN ID from the drop-down menu or directly enter an ID into the VLAN ID field.

**Note**: Changing the management VLAN ID requires the management port(s) to be assigned to the new management VLAN ID.

- 5. Click Save.
- 6. Click Push Configuration.

## 8.1.6.2 Configuring Spanning Tree Protocol (STP) Functionality

Rapid Spanning Tree Protocol (RSTP) is an availability and redundancy feature that prevents redundant backup links between switches and prevents switch loops from forming by shutting down the port causing the loop. If RSTP is enabled under profile settings, this profile's device will be enabled. Users can enable/disable RSTP of individual ports under the **Switch Ports** page, or at **Configure > Profile > Ports**. **Note**: RSTP must be manually enabled under BOTH Switch Settings of a profile and Switch Ports.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the **Basic** tab.
- 4. In the STP Configuration section, select Enable next to RSTP.
- 5. Click Add to add a STP bridge priority.
- 6. In the Set the bridge priority for switches window, specify the following information:

Switch	Enter the name of the switch or click the field and
	select an available switch from the drop-down menu.
Bridge Priority	Select a priority value from the drop-down menu.
	Lower values are more likely to act as the root, while
	higher values are more likely to act as edges.

- 7. [Optional] Click Add to add additional bridge priorities.
- 8. Click Add.
- 9. [Optional] To delete a bridge priority, check the checkbox next to the switch and click **Delete**.
- 10. Click Save.
- 11. Click **Push Configuration**.

#### 8.1.6.3 Configuring Internet Group

## **Management Protocol (IGMP) Snooping**

#### Functionality

Internet Group Management Protocol (IGMP) Snooping allows administrators to configure switches to subscribe to and receive multicast traffic. If a switch is not added to the IGMP list, it will not receive multicast traffic by default.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the **Basic** tab.
- In the IGMP Snooping Configuration section, click Add to add a switch to the IGMP snooping list.
- 5. In the Set multicast settings for switches window, specify the following information:

Switch	Enter the name of the switch or click the field and
	select an available switch from the drop-down menu.
IGMP Snooping	Select an IGMP policy.
	Enable: The switch will subscribe to and receive
	multicast traffic.
	<b>Disable</b> : The switch will not receive multicast traffic.

- 6. [Optional] Click Add to add switches to the IGMP list.
- 7. Click Add.
- 8. **[Optional]** To delete a switch from the list, check the checkbox next to the switch and click **Delete**.
- 9. Click Save.
- 10. Click Push Configuration.

### 8.1.6.4 Configuring DHCP Server

#### Screening

DCHP screening allows administrators to whitelist DHCP servers to prevent unauthorized DHCP servers and devices from gaining access to the network.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the **Basic** tab.
- 4. In the DHCP Server Screening Configuration section, select Enable next to DHCP

Server Screening.

- 5. In the Allowed DHCP server field, enter the IP address of the DHCP server to whitelist. **Note**: Currently, only one DHCP server can be whitelisted.
- 6. Click Save.
- 7. Click Push Configuration.

## 8.1.6.5 Configuring Voice VLAN

#### Functionality

The voice traffic from IP phone can be assigned to a dedicated VLAN (via Voice VLAN ID setting) and given traffic priority (via Voice VLAN CoS setting).

**Note**: Voice VLAN priority settings overrule any priority settings configured in the Quality of Service section.

**Note**: Voice VLAN is not supported if the port type is set to "Trunk". To configure the port type, refer to the **Configuring Port Settings for One or More Switch Ports section on page 41** for more information.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the **Basic** tab.
- 4. In the Voice VLAN Configuration section, select **Enable** next to Voice VLAN.
- 5. In the Voice VLAN ID field, enter an ID between 2 and 4094.
- Select a Voice VLAN Class of Service (CoS) level from the drop-down menu.
   Note: The CoS level reflects the priority level of Voice VLAN traffic. A higher value means a high priority, whereas a lower value means a low priority.
- [Optional] Click Add to add a Voice VLAN OUI.
   Note: An Organizationally Unique Identifier (OUI) is used to add additional manufacturers to the voice VLAN identification list.
- 8. In the Add OUIs for switches window, specify the following information:

OUI Address	This field will contain which MAC address range the
	OUI mask will begin with.

Mask	With the same concept of subnet mask, OUI Mask
	uses "F" as match, while "0" as any.
Description	Add a description for the OUI.

OUI Address	Mask	Description	Actions
00:01:E3:00:00:00	FF:FF:FF:00:00:00	Siemens	
00:03:6B:00:00:00	FF:FF:FF:00:00:00	Cisco	
00:09:6E:00:00:00	FF:FF:FF:00:00:00	Avaya	
00:0F:E2:00:00:00	FF:FF:FF:00:00:00	Huawei&3COM	
00:60:B9:00:00:00	FF:FF:FF:00:00:00	NEC&Philips	
00:D0:1E:00:00:00	FF:FF:FF:00:00:00         Pingtel           FF:FF:FF:00:00:00         Veritel		
00:E0:75:00:00:00			
00:E0:BB:00:00:00	FF:FF:FF:00:00:00	3COM	
		Note: The above figure represents the d	efault OUI

9. [Optional] Click Add to add additional OUIs.

- 10. Click Add.
- 11. [**Optional**] To delete an OUI, check the checkbox next to the OUI and click **Delete**. **Note**: Default OUIs cannot be deleted.
- 12. Click Save.
- 13. Click Push Configuration.

#### 8.1.6.6 Configuring Jumbo Frame

Enabling Jumbo Frame allows the port to switch frames larger than the standard Ethernet 1518 byte frame. Utilizing Jumbo Frames, packets of up to 9,000 bytes, can maximize server-to-server performance.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the Basic tab.
- 4. In the Jumbo Frame Configuration section, select **Enable** next to Jumbo Frame.
- 5. Click Save.
- 6. Click Push Configuration.

## 8.1.6.7 Configuring Quality of Service

#### Settings

QoS is an implementation of the IEEE 802.1p standard that allows network administrators to

reserve bandwidth for important functions that require a larger bandwidth or that might have a higher priority, such as VoIP (voice-over Internet Protocol), web browsing applications, file server applications or video conferencing. By reserving more bandwidth for critical traffic, less critical traffic is deprioritized to ensure that critical data is transmitted smoothly.

The Quality of Service windows displays the status of Quality of Service priority levels of each port, a higher priority means the traffic from this port will be first handled by the switch. For packets that are untagged, the switch will assign the priority depending on your configuration.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the **Basic** tab.
- 4. In the Quality of Service section, click Edit.
- 5. In the DSCP to Class-of-Service Queue Mapping window, select a Class of Service (CoS) value between 0 to 7 for each DSCP value. A higher value means a higher priority while a lower value means a lower priority. Traffic from ports with high CoS values are processed first.

DSCP vaule	Cos Queue Value	Name	
0	0	Default	] ^
1	0	Default	
2	1	Default	
3	2	Default	
4	3	Default	
5	- 4	Default	
6	6	Default	
7	7	Default	
8	1 •	Default	
9	1 -	Default	
10	1 .	Default	
11	1 -	Default	Ι.

- 6. Click Save.
- 7. Click Save.
- 8. Click Push Configuration.

## 8.1.7 Configuring Switch Profile IPv4 ACL Settings

## 8.1.7.1 Creating IPv4 Access Control

#### **Policy Rules**

IPv4 Access Control Lists (ACL) allow administrators to configure a set of criteria for permitting or denying traffic coming from and to the switch based on IP address.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the IPV4 ACL tab.
- 4. In the User Defined IPv4 Rules section, click Add.
- 5. In the Add IPv4 rules window, specify the following information:

Policy	Select an access policy.						
	Permit: Traffic with matching parameters will be						
	forwarded.						
	<b>Deny</b> : Traffic with matching parameters will be denied.						
Protocol	Select a protocol from the drop-down menu.						
	<b>Any</b> : The rule applies to any protocol traffic.						
	UDP: The rule only applies to traffic with a User						
	Datagram Protocol (UDP) header.						
	TCP: The rule only applies to traffic with a						
	Transmission Control Protocol (TCP) header.						
Source	Enter the source IP address. If the source address is						
	configured as <b>Any</b> , all source traffic will be evaluated						
	according to the conditions of the rule.						
Src port	Specify the source port number between <b>0</b> and <b>65535</b> .						
	If the source port is configured as <b>Any</b> , all source ports						
	will be evaluated according to the conditions of the						
	rule.						

Destination	Enter the destination IP address. If the destination					
	address is configured as <b>Any</b> , all destination traffic will					
	be evaluated according to the conditions of the rule.					
Dst port	Specify the destination port number between <b>0</b> and					
	65535.					
	If the source port is configured as <b>Any</b> , all source ports					
	will be evaluated according to the conditions of the					
	rule.					
Comment	Enter a description for the rule.					

- 6. [Optional] Click Add to add additional rules.
- 7. Click Add.
- 8. Click Save.
- 9. Click **Push Configuration**.

## 8.1.7.2 Editing IPv4 Access Control Policy

#### **Rules**

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the IPV4 ACL tab.
- 4. In the policy rules list, click Edit in the Actions column of the rule you wish to edit.
- 5. Specify the following information:

Policy	Select an access policy.						
	Enable: Traffic with matching parameters will be						
	forwarded.						
	<b>Deny</b> : Traffic with matching parameters will be denied.						
Protocol	Select a protocol from the drop-down menu.						
	<b>Any</b> : The rule applies to any protocol traffic.						
	UDP: The rule only applies to traffic with a User						
	Datagram Protocol (UDP) header.						
	TCP: The rule only applies to traffic with a						
	Transmission Control Protocol (TCP) header.						
Source	Enter the source IP address. If the source address is						
	configured as Any, all source traffic will be evaluated						
	according to the conditions of the rule.						

Src port	Specify the source port number between <b>0</b> and <b>65535</b> .
	If the source port is configured as <b>Any</b> , all source ports
	will be evaluated according to the conditions of the
	rule.
Destination	Enter the destination IP address. If the destination
	address is configured as Any, all destination traffic will
	be evaluated according to the conditions of the rule.
Dst port	Specify the destination port number between <b>0</b> and
	65535.
	If the source port is configured as <b>Any</b> , all source ports
	will be evaluated according to the conditions of the
	rule.
VLAN	Specify a VLAN to which the rule will apply.
Comment	Enter a description for the rule.

- 6. Click Save.
- 7. Click Push Configuration.

## 8.1.7.3 Deleting IPv4 Access Control Policy Rules

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the IPV4 ACL tab.
- 4. In the policy rules list, click the checkbox next to the rule(s) you wish to delete.
- 5. Click Delete.

_	Add	Delete	J							
		Policy	Protocol	Source	Src port	Destination	Dst port	VLAN	Comment	Actions
	1	Deny	тср	Any	Any	Any	Any	Any	Test Rule 1	🖉 EDIT 🏛 DELETE 💠 MOVE
	2	Permit	UDP	Any	Any	Any	Any	Any	Test Rule 2	🖉 EDIT 🏛 DELETE 🛟 MOVE
		Permit	Any	Any	Any	Any	Any	Any	Default Rule	

6. When prompted to confirm, click **Yes**.

## 8.1.7.4 Moving IPv4 Access Control Policy Rules

If an IPv4 Access Control List contains multiple rules other than the default rule, rules can be moved around. Moving rules will affect their priority. In the event of a conflict between two rules, the rule listed as #1 will override the rule(s) below it.

Note: The index means priority. The lower the index the higher the priority.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the **IPV4 ACL** tab.
- 4. In the policy rules list, click and drag the **Move** icon of the rule you wish to move. Dragging it below another rule will lower its priority, dragging above another rule increases its priority over that rule.

DASHBOARD MONITOR	CONFIGURE	REPORTS SETTI	NGS HELP				
PUSH CONFIGURATION	100 7 SETTINGS		PORTS		PORT SCHEDULE	S	SETTINGS
BASIC IPV4 ACL	ACCESS POLICIES						
NUCLIAS SERVICE RULES	t connectivity with Nuclias, If	P address specified for ser r for all IPv4 traffic to and	vice rules are added to the from the listed IP address.	e User defined IPv4 ACL n	ules by Nuclias n	nanagement IP address 3.121.70	.106
NUCLIAS SERVICE RULES	t connectivity with Nuclias, II es consist of an explicit allov	P address specified for ser	vice rules are added to the	: User defined IPv4 ACL ru	Nuclias n 1 2 3 4	nanagement IP address 3.121.70 3.121.83 54.93.18 3.121.11	1106 1129 0.99 1.39
NUCLIAS SERVICE RULES In order to ensure managemen default configuration. These ru	t connectivity with Nuclias, II	Paddress specified for set	vice rules are added to thi from the listed IP address	: User defined IPv4 ACL ru	Nuclias n 1 2 3 4	nanagement IP address 3.121.70 3.121.63 54.93.18 3.121.11	106 129 0.99 139
NUCLIAS SERVICE RULES In order to ensure managemen default configuration. These ro USER DEFINED IPV4 RULES Add Delete	t connectivity with Nuclias, II es consist of an explicit allov	Paddress specified for see	vice rules are added to th from the listed IP address	User defined IPv4 ACL ru	Nuclias n 1 2 3 4	nanagement IP address 3.121.70 3.121.83 5.493.18 3.121.11	1106 1129 0.99 1.39

- 5. Click Save.
- 6. Click Push Configuration.

## 8.1.8 Configuring Access Policies

#### 8.1.8.1 Creating an Access Policy

Administrators can configure one or more remote RADIUS servers for port-based or MACbased authorization and authentication. This ensures that only users with matching credentials have access to the network. Administrators can also configure a Guest VLAN to grant internet access to visitors, while preventing them from accessing the network.

1. Navigate to the **Configure > Switch > Profiles** page.

- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the Access Policies tab.
- 4. Enter a name for the policy.
- 5. In the RADIUS servers field, click **Add** to add a new RADIUS server.
- 6. In the Add RADIUS servers window, specify the following information:

Host	Enter the IP address of the RADIUS server.
Port	Enter a port for the RADIUS server. The range is
	between <b>1</b> and <b>65535</b> .
Кеу	Enter a shared secret.

- 7. [Optional] Click Add to add additional RADIUS servers.
- 8. Click Save.
- 9. Select an access policy type:

802.1x port-based	This	method	requires	only	one	user	to	be
	authe	nticated p	er port by	a remo	ote RA	DIUS s	serve	er to
	allow the remaining users on the same port to access							
	the ne	etwork.						
802.1x MAC-based	Using	this meth	nod, the Sv	vitch w	ill auto	omatica	lly le	earn
	up to	a maximu	ım of 448 M	MAC a	ddress	ses by	port	and
	set t	nem in a	i list. Eac	h MAG	C add	lress r	nust	be
	authe	nticated b	y the Swit	ch usir	ng a re	emote I	RAD	IUS
	serve	r before b	eing allowe	ed acce	ess to	the Ne	tworl	٢.

- 10. [Optional] Select a VLAN ID from the drop-down menu.
- 11. Click Save.
- 12. Click Push Configuration.

### 8.1.8.2 Configure a Guest VLAN

Administrators can configure one or more Guest VLAN to grant internet access to visitors, while preventing them from accessing the network.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Settings** under the Actions column of the Profile you wish to edit.
- 3. Click the Access Policies tab.
- 4. Select a Guest VLAN from the list.

- 5. Click Save.
- 6. Click **Push Configuration**.

BASIC IPV4.	ACL ACCESS POLICIES			
Policy name	Test			
RADIUS servers	Add Delete			
	🗖 # Host	Port	Secret	Actions 🔶
	1 10.90.91.91	356	••••••	🖉 EDIT 🗊 DELETE 🛟 MOVE 🗸
Access policy type	002.1x port-based •			
Guest VLAN	Disable . Qmember por	s belonging to this guest VLAN in the profile ports.		
Switch ports	© ports using this pr O-Guest VLAN	s belonging to this guest VLAN currently.		
			Cancel Save	

## 8.1.9 Pushing Configuration Changes

The Push Configuration function allows users to quickly apply Profile configuration changes to all devices using this Profile.

**Note**: Changes made to a Profile's ports, port schedule or settings, will be pushed to all associated devices after the user selects **Push Configuration**.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- From the Profile list, click **Push Configuration** under the Actions column of the Profile you wish to update the configuration settings of.

Note: A result window will appear providing a summary of the update status.

3. In the Push Configuration Result window, click the **X** icon in the top-right to close the window.

## 8.2 Devices

From the Devices page, users can add a single device, or bulk import a group of devices, and configure individual devices. This page also provides a detailed overview of all currently registered devices with additional information including status, clients, and general settings.

## 8.2.1 Filtering Device Information

- 1. Navigate to the **Monitor > Switch > Devices** page.
- 2. [Optional] Select a time frame from the drop-down menu.
- 3. Click the filter selection in the top-right.

by D-Li	uk								
DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP				
Configure / Switch	/ Devices								
Add device	Bulk import Del	ete Tag 👻 1	switches				Time frame : Last 24 hours	• Q Search	• • • •
🔲 # Statu	s Device name	MAC address	Public IP	Local IP	Model name	Connectivity	Power delivered	Power budget 1	ags Configuration status
1 0	DBS-2000-10	MP 0C:B6:D2:AA:1	.6:40		DBS-2000-10MP		0 W	130 W	Up to date

4. Check the information parameters to display the corresponding device information in the overview window. Check **All** to show all device information parameters.

## 8.2.2 Adding a Single Device

- 1. Navigate to the **Configure > Switch > Devices** page.
- 2. Click Add device.

<pre>     All      Definit     Proclass     Inuclias Global.     All          All</pre>							
DASHBOARD MONITOR	CONFIGURE REPORTS	SETTINGS	HELP				
Configure / Switch / Devices							
Add device Bulk import Delete	Tag + 1 switches			Time frame :	Last 24 hours	• Q Sear	rch • III • 1
# Status Device name	MAC address Public IP	Local IP	Model name	Connectivity Pov	ver delivered	Power budget	Tags Configuration status
# Status Device name     DBS-2000-10MP	MAC address Public IP 0C:B6:D2:AA:16:40	Local IP	Model name DBS-2000-10MP	Connectivity Pov	ver delivered	Power budget	Tags Configuration status Up to date

3. Fill out the required information.

Device UID	Enter the device's Unique Identifier (UID) found on the
	label printed on the device.
	The UID may be listed in the format XXXX-XXXX-
	XXXX or XXXXXXXXXXXXXX. When entering the UID,
	do not include dashes.
Device name	Enter a name for the device.
Site	Select a Site to link this device to.
Profile	Select a Profile for this device. The device will use the
	settings configured in that profile.
License Key	Enter the device license key.
	Note: Every new device will be issued a one-year free
	license key. Once expired, an additional license must
	be purchased to continue using the device.

4. Click Save.

# 8.2.3 Bulk Adding Multiple Devices to the Inventory

Bulk adding new devices to the Inventory stores the devices in a warehouse where they are kept inactive until they are manually assigned to a Site and Profile by the user at a later point.

- 1. Navigate to the **Configure > Switch > Devices** page.
- 2. Click Bulk import.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP				
Configure / Switch	/ Devices								
Add device	Bulk import Del	ete Tag 👻 1	switches				Time frame : Last 24 hours	► Q Search	• III• ¥
🔲 # Statu	is Device name	MAC address	Public IP	Local IP	Model name	Connectivity	Power delivered	Power budget Ta	gs Configuration status
1 0	DBS-2000-10	MP 0C:B6:D2:AA:1	6:40		DBS-2000-10MP		ow	130 W	Up to date

3. [Optional] Download the reference sample template.

Bulk import	×
Upload a CSV-formatted file with device UID you wish to add to inventory or map to the profile and site	to register device(s).
	Browse
You can download sample template file here Inventory	
You can download sample template file here - Register devices	
Cancel	Upload

- 4. Click Browse.
- Locate the CSV-formatted file containing the UIDs of the devices.
   Note: To add devices to the inventory, use the following format:
   [UID]
- 6. Click Upload.

## 8.2.4 Bulk Adding and Registering Multiple Devices to a Site

When bulk adding a new device, assigning a Site and Profile to the devices during the device registration process allows them to be used immediately.
- 1. Navigate to the **Configure > Switch > Devices** page.
- 2. Click Bulk import.

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DASHBOARD MONITOR C	CONFIGURE REPORTS	SETTINGS	HELP								
Configure / Switch / Devices											
Add device Bulk import Delete	Tag 👻 1 switches			Time	frame : Last 24 hours	• Q Searc	h • Ⅲ• 坐				
# Status Device name	MAC address Public IP	Local IP	Model name	Connectivity	Power delivered	Power budget	Tags Configuration status				
1 • <u>DBS-2000-10MP</u>	0C:B6:D2:AA:16:40		DBS-2000-10MP		0 W	130 W	Up to date				

3. [Optional] Download the reference sample template.

Bulk import	×
Upload a CSV-formatted file with device UID you wish to add to inventory or map to the profile an	d site to register device(s).
	Browse
You can download sample template file <b>here</b> - Inventory You can download sample template file <mark>here</mark> Register devices	
C	ancel Upload

- 4. Click Browse.
- 5. Locate the CSV-formatted file containing the UIDs of the devices.

Note: To directly register devices to a Site, use the following format:

[UID][Device Name][Profile Name][Site][License Key]

6. Click Upload.

# 8.2.5 Adding a Tag to One or More Devices

Users can add descriptive tag to devices to identify and filter different devices or groups of devices. Tags are purely informational and do not affect the functionality of the device.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the devices list, check the box next to the tagged device(s) you wish to add a tag to.
- 3. Click Tag.
- 4. In the Add field, enter the tag content. Multiple tags can be entered.

Note: If this is a new tag, click Add option to make this a reusable tag.

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Configure /	Switch / Profiles / Test 2	/ PORTS									
CID PUSH	H CONFIGURATION			PORTS	PORT SCH	EDULES			SETTINGS		
Edit	Aggregate Sp	it Mirror		Tag • 90 switch ports	Ports g	oup: All		• Q	Search	•	
	Ports group / port	Ports group	Port#	Add		PoE	RSTP	LBD	Port schedules	Access Policies	
✓ 1	10 ports / 1	10 ports	1	office x local x tag	Add	Enabled	Disabled	Disabled		Disabled	
2	10 ports / 2	10 ports	2	No result match" "tag" "		Enabled	Disabled	Disabled		Disabled	
✓ 3	10 ports / 3	10 ports	3	Auto ITUIK Native I A	n Enabled	Enabled	Disabled	Disabled		Disabled	
☑ 4	<u>10 ports / 4</u>	10 ports	4	Auto Trunk Native 1 A	II Enabled	Enabled	Disabled	Disabled		Disabled	

5. Click Add Tag.

Note: Any tags associated to a device will be shown in the Tags column.

# 8.2.6 Removing a Tag From One or More Devices

- 1. Navigate to the **Configure > Switch > Devices** page.
- 2. From the devices list, check the box next to the tagged device(s) you wish to remove the tag(s) from.
- 3. Click Tag.
- 4. In the Delete field, enter the tag name. Alternatively, click the input field to bring up a list with all the associated tags.
- 5. Click Remove.

#### 8.2.7 Editing a Device

- 1. Navigate to the **Configure > Switch > Device** page.
- 2. From the device list, click the device name.
- 3. In the Device Information section, click the device name in the Name field. You will be navigated to Monitor > Switch >Device page when you select a device from this list. Please refer to <u>Monitor > Switch > Devices</u> for a comprehensive guide on how to edit and monitor your switch.

#### 8.2.8 Deleting a Device

Assigned devices can be unassigned and sent back to the device inventory so they can be reassigned at a later point.

- 1. Navigate to the **Configure > Switch > Devices** page.
- 2. From the device list, click the checkbox next to the device you wish to delete.
- 3. Click Delete.
- 4. When prompted to confirm, click Yes.

**Note**: Deleted devices are automatically moved to the inventory until they are reassigned by the user.

#### 8.2.9 Deleting Multiple Devices

Assigned devices can be unassigned and sent back to the device inventory so they can be reassigned at a later point.

- 1. Navigate to the **Configure > Switch > Devices** page.
- 2. From the device list, click the checkbox next to the devices you wish to delete.
- 3. Click Delete.
- 4. When prompted to confirm, click Yes.

**Note**: Deleted devices are automatically moved to the inventory until they are reassigned by the user.

#### 8.2.10 Download the Device List

The device list can be exported in a CSV-formatted file and download to the local device.

- 1. Navigate to the **Configure > Switch > Devices** page.
- 2. From the device list, click the **Download** icon in the top-right.

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DASHBOARD	MONITOR	CONFIGURE R	EPORTS	SETTINGS	HELP					
Configure / Switch / D	evices									
Add device Bul	k import Delete	Tag 👻 1 swi	tches				Time frame : Last 24 hours	• Q s	arch	•
🔲 # Status	Device name	MAC address	Public IP	Local IP	Model name	Connectivity	Power delivered	Power budget	Tags	Configuration status
1 0	DBS-2000-10MP	0C:B6:D2:AA:16:40	)		DB5-2000-10MP		0 W	130 W	test	Up to date
4										

# 8.3 Switch Ports

From the Switch Ports section, users can configure individual ports or groups of ports for physical switches. Any settings configured in this window are applied to the physical switch directly and override any overlapping or conflicting settings in the Profile applied to the switch. Local switch configurations may be useful in cases where one switch in a group of switches requires specialized settings that are not configured in the associated Profile to accommodate a specific application.

# 8.3.1 Customizing the Switch Ports Configuration Overview

- 1. Navigate to the Configure > Switch > Switch Ports page.
- Select a port group from the port groups drop-down menu. This will only display ports for the select port group profile. For example, selecting port group 28 will only show ports 1 to 28 of 28-port switches added to the organization. Select **All** to show all port groups.

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DASHBOARD	MONITOR CON	FIGURE REPORTS	SETTINGS HELP			
Configure / Switch / Sv	itch Ports			Ports group :		-
		irror Unmirror Tag	<ul> <li>10 switch ports</li> </ul>	Time frame :	Last 24 hours 🔹 🔍 S	earch 🔹 🛄 🔻
# Switch/	Port Po	rt#Link 🕐	Type VLAN	Allowed VLANs Status 🕐	PoE RSTP LE	3D Port schedule Access
1 <u>DBS-200</u>	-10MP/1 1	Auto / Link down	Access 1	-	Enabled Disabled D	isabled Disable

 If the organization has multiple switches of the same port group, for example multiple DBS-2000-10MP switches, select a specific switch from the drop-down menu to only show the ports of that switch.

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DASHBOARD N	IONITOR CONFIG	JRE REPORTS	SETTINGS HELP							
Configure / Switch / Switc	h Ports				Ports group :	All	- (	All		-
		Unmirror Tag 🔻	10 switch ports		Time frame :	.ast 24 hours	•	Q Search	•	III •
# Switch/Por	t Port#	Link 📀	Type VLAN	Allowed VLANs	Status 🕐	PoE	RSTP	LBD	Port schedule	Acces
D 4 DRS 2000 4	NAD/4 4	Auto / Link down	Access 1			Enabled	Disabled	Disphled		Disable

- 4. Select a time frame from the time frame drop-down menu.
- 5. Click the filter parameter icon.

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DASHBOARD MONITOR	R CONFIGURE	REPORTS	SETTINGS H	HELP							
Configure / Switch / Profiles / DBS-	2000 / PORTS										
			PORTS		PORT SCHEDULES			SETTINGS	5		
CP PUSH CONFIGURATION		nirror Tag 👻	PORTS 90 switch ports		PORT SCHEDULES Ports group: All		• Q	Search	s • III •		
Edit     Aggregate     Sp       #     Ports group / port	lit Mirror Unm Ports group Port	nirror Tag <del>~</del> t <i>#</i> Link	PORTS 90 switch ports Type V	VLAN Allowed VLA	PORT SCHEDULES Ports group: All ANs Port state PoE	RSTP	• Q LBD	SETTINGS Search Port schedules	Access policies		

Click the checkbox next to the parameters to display them in the overview.
 Note: All checked parameters will automatically appear.

# 8.3.2 Configuring Local Port Settings for One or More Switch Ports

Switch port configuration allows administrators to configure extensive port functionality including port availability, port speed, RSTP, VLAN, PoE, and port activity schedules for an individual port or for a group of ports.

**Note**: These local settings will override any conflicting Profile settings associated with the device.

- 1. Navigate to the **Configure > Switch > Switch Ports** page.
- 2. From the port list, check the box next to the ports you wish to edit.
- 3. Click Edit.
- 4. Specify the following information:

**Note**: At the top of the edit port window is a list of all selected ports. The changes made will apply to all selected ports.

Port name	Enter a name for the port. If multiple ports are
	selected, this name will be applied to all ports.
Port state	Choose to enable or disable the port.
RSTP	Choose to enable or disable Rapid Spanning Tree
	Protocol (RSTP). RSTP prevents data loops caused
	by issuing frequent BPDU packets to monitor link
	status.
	<b>Note</b> : RSTP cannot be used in conjunction with LBD.
	Note: User must enable Profile/Settings/STP
	Configuration for this port to enable RSTP
STP guard	If RSTP is enabled, choose the guard type.

	<b>Disabled</b> : Do not use root guard enhancement.
	Root guard: Root guard enhancement allows
	administrators to define the position of the root bridge
	port in the network.
LBD	Choose to enable or disable Loopback Detection
	(LBD). The Loopback Detection function is used to
	detect the loop created by a specific port while
	Spanning Tree Protocol (STP) is not enabled in the
	network, especially when the down links are hubs or
	unmanaged switches. The Switch will automatically
	shut down the port and sends a log to the
	administrator.
	<b>Note</b> : LBD cannot be used in conjunction with RSTP.
Туре	Choose the function type of the port.
	Trunk: Sends and receives tagged data from different
	VLANs.
	Access: Only sends and receives untagged data from
	the VLAN the port belongs to.
Native VLAN	Enter the ID of the native VLAN the port belongs to.
Allowed VLANs	Enter the IDs of the VLANs that can route traffic
	through this port. Enter <b>All</b> to allow all traffic from all
	VLANs to pass through this port.
Tags	Enter a descriptive tag for the port. Multiple tags can
	be entered. If multiple ports are selected, any tags will
	be applied to all ports.
Link (RJ45)	Choose the maximum link speed of the port. Select
	Auto to allow the port to auto-negotiate port speed
	with the partner port or device.
Link (SFP)	Choose the maximum link speed of the port. Select
	Auto to allow the port to auto-negotiate port speed
	with the partner port or device.
PoE	Choose to enable or disable Power over Ethernet
	(PoE) functionality on this port.
	Note: The PoE setting will only apply to ports that
	support Power over Ethernet.
Port Schedule	Choose a port schedule. Port schedules are

separately configured. Refer to the Creating a Switch
Port Schedule section on page 47.

5. Click Save.

#### 8.3.3 Aggregating Switch Ports

Port aggregation allows users to link multiple physical ports together as one logical link to increase port bandwidth and redundancy in the event of a single physical link failure. Ports can be aggregated using either LACP or static link.

**Note**: Aggregated ports must maintain the same settings, otherwise users will not be permitted to aggregate multiple ports in one group.

**Note**: Port aggregation is not supported if the port type is set to "Access". To configure the port type, refer to the **Configuring Local Port Settings for One or More Switch Ports section on page 68** for more information.

**Note**: These local settings will override any conflicting Profile settings associated with the device.

- 1. Navigate to the **Configure > Switch > Profiles** page.
- 2. From the Profile list, click **Ports** under the Actions column of the Profile you wish to edit.
- 3. From the port list, check the box next to the ports you wish to link together.
- 4. Click Aggregate.
- 5. In the Link Aggregation Setting window, select the aggregation type.

**Note**: Static link requires manual configuration of the ports in the aggregation group. Link Aggregation Control Protocol (LACP) dynamically queries to listening ports to join the aggregation group.

LACP	LACP (Link Aggregation Control Protocol) allows the
	switch to automatically detect links in a port trunk
	group.
Static	Static link aggregation.

#### 6. Click Aggregate.

**Note**: Aggregated ports can be identified by the combined port number in the Port # column of the port overview.

DAS	IBOARD MONIT	OR CONFIGU	RE REPO	ORTS SET	TINGS	HELP							
Configure	: / Switch / Profiles / Tes	at 2 / PORTS			PORTS			PORT SCHEE	DULES			SETTINGS	
				Tag 💌 8	9 switch por	ts		Ports gro	up: All		• Q	Search	•
	Ports group / port	Ports group	Port #	Link	Туре	VLAN	Allowed VLANs	Port state	PoE	RSTP	LBD	Port schedules	Access Policie
1	<u>10 ports / 3</u>	10 ports	3	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled
. 2	<u>10.ports/4</u>	10 ports	4	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
	10 ports / 5	10 ports	5	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled
4	<u>10.ports/6</u>	10 ports	6	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
	10 ports / 7	10 ports	7	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled
	10.ports/8	10 ports	8	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
0 7	<u>10 ports / 9</u>	10 ports	9	1Gbps (auto)	Trunk	Native 1	All	Enabled	Disabled	Disabled	Disabled		Disabled
	10 ports / 10	10 ports	10	1Gbps (auto)	Trunk	Native 1	All	Enabled	Disabled	Disabled	Disabled	-	Disabled
. s	10 ports / 1.2	10 ports	1, 2	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled
	0 28 ports / 1	28 ports	1	Auto	Trunk	Native 1	الم	Enabled	Enabled	Disabled	Disabled		Disabled

7. Click Push Configuration.

# 8.3.4 Splitting Aggregated Switch Ports

Linked port groups can be split into their respective individual ports. Splitting port groups will undo all aggregation settings applied to the affected ports.

**Note**: These local settings will override any conflicting Profile settings associated with the device.

- 1. Navigate to the **Configure > Switch > Switch Ports** page.
- 2. From the port list, check the box next to the aggregated port(s) you wish to split.
- 3. Click Split.

Note: This will immediately split the selected aggregated ports.

# 8.3.5 Mirroring Port Traffic to Another Switch Port

Port Mirroring is a method of monitoring network traffic that forwards a copy of each incoming and/or outgoing packet from one port of the switch to another port, where the packet can be studied. This enables network managers to better monitor network performance.

**Note**: These local settings will override any conflicting Profile settings associated with the device.

- 1. Navigate to the Configure > Switch > Switch Ports page.
- 2. From the port list, check the box next to the port(s) you wish to mirror.
- 3. Click Mirror.
- 4. Specify the following information:

Source ports	Select the data to mirror from the drop-down menu for
	each selected port.
	Both: Mirror both incoming and outgoing.
	<b>Rx</b> : Mirror only data received on the port.
	<b>Tx</b> : Mirror only data transmitted by the port.
Destination port	Enter the destination port number.
	Note: The port number should be in numerical format,
	for example <b>28</b> .

5. Click Create port mirror.

#### 8.3.6 Undoing Port Traffic Mirroring

- 1. Navigate to the Configure > Switch > Switch Ports page.
- 2. From the port list, check the box next to the mirrored port(s) you wish to unmirror.
- 3. Click Unmirror.

Note: This will immediately undo the selected mirrored ports.

4. Click Push Configuration.

# 8.3.7 Adding a Tag to One or More Switch Ports

User can add descriptive tag to ports to identify and filter different ports or groups of ports. Tags are purely informational and do not affect the functionality of the port.

**Note**: These local settings will override any conflicting Profile settings associated with the device.

- 1. Navigate to the Configure > Switch > Switch Ports page.
- 2. From the port list, check the box next to the port(s) you wish to add a tag to.
- 3. Click Tag.
- 4. In the Add field, enter the tag content. Multiple tags can be entered.

Note: if this is a new tag, click Add option to make this a reusable tag.

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DASHB	OARD MONITOR	CONFIGUI	e Repoi	RTS SETTINGS HELP						
Configure /	Switch / Profiles / Test 2	/ PORTS								
Cat PUSE	H CONFIGURATION			PORTS	PORT SCHEDUL	ES			SETTINGS	
Edit	Aggregate Sp	lit Mirror		Tag • 90 switch ports	Ports group:	All		• Q	Search	•
	Ports group / port	Ports group	Port#	Add		PoE F	RSTP	LBD	Port schedules	Access Policies
✓ 1	10 ports / 1	10 ports	1	office X local X tag	Add	Enabled [	Disabled	Disabled		Disabled
2	<u>10 ports / 2</u>	10 ports	2	No result match" "tag" "		Enabled [	Disabled	Disabled		Disabled
✓ 3	10 ports / 3	10 ports	3	Auto Indik Native 1 All	Enabled	Enabled (	Disabled	Disabled		Disabled
✔ 4	<u>10 ports / 4</u>	10 ports	4	Auto Trunk Native 1 All	Enabled	Enabled [	Disabled	Disabled	-	Disabled

5. Click Add.

Note: Any tags associated to a port will be shown in the Tags column.

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DASHBOARD	MONITO	OR CONF	IGURE	REPORTS	SETTINGS	HELP							
Configure / Switch / Profiles / Test 2 / PORTS													
	SURATION				PORTS			PORT	SCHEDULE	5	:	SETTINGS	
Edit Agg		Split Min	ror Unmi	rror Tag	▼ 90 switch ports			Po	orts group:	All	• Q. Search	-	
Ports group	Port #	Link	Туре	VLAN	Allowed VLANs	Port state	PoE	RSTP	LBD	Port schedules	Access Policies	Mirror	Tags
10 ports	1	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled	-	office.local
10 ports	2	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled		Disabled	-	office.local
10 ports	3	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled	-	office.local
10 ports	4	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled		office.local
10 ports	5	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled		
10 ports	6	Auto	Trunk	Native 1	All	Enabled	Enabled	Disabled	Disabled	-	Disabled	-	

# 8.3.8 Removing a Tag from One or More Switch Ports

- 1. Navigate to the **Configure > Switch > Switch Ports** page.
- 2. From the port list, check the box next to the tagged port(s) you wish to remove the tag(s) from.
- 3. Click Tag.
- 4. In the Delete field, enter the tag name. Alternatively, click the input field to bring up a list with all the associated tags.
- 5. Click Remove.

# 9 Reports

From the Reports section, users can view and generate detailed reports for changes on the platformsuch as switch activity, network alerts, and license reports.

The following sections provide more detailed information about the different types of reports.

Change Log	From the Change Log section, users can consult a detailed
	log of changes occurring on the network.
	Refer to the Change Log section on page 74 for more
	information.
Switch	From the switch section, users can view detailed reports about
	switch activity on the managed network.
	Refer to the Switch section on page 75 for more information
Alerts	From the Alerts section, users can view a detailed log of all
	alerts occurring on the network.
	Refer to the Alerts section on page 77 for more information.
Licenses	From the Licenses section, users can consult a list of detailed
	information about licenses assigned to the selected
	organization.
	Refer to the Licenses section on page 79 for more
	information.

# 9.1 Change Log

From the Change Log window, users can consult a detailed log of changes to user accounts, profiles, SSIDs, and sites.

### 9.1.1 Searching for Change Events

- 1. Navigate to the **Reports > Change Log** page.
- 2. [Optional] Select a time frame from the drop-down menu.
- 3. From the change event list, click the **Search** field.
- Enter the change event name.
   Note: All events matching the value entered in the search field will automatically appear.
- [Optional] Click the filter drop-down menu and enter the following information: Note: Multiple filters can be populated to narrow down the search result.

Account Enter the Account name that the event is	s linked to.
--	--------------

Site	Enter the name of the Site the event is linked to.
Profile	Enter the name of the Profile the event is linked to.
SSID	Enter the name of the SSID the event is linked to.
Device	Enter the name of the Device the event is linked to.

#### 9.1.2 Downloading Change Logs

- 1. Navigate to the **Reports > Change Log** page.
- 2. From the change log list, click the **Download** icon in the top-right.

	Nuclias Global	All		Ŧ				Ale	rt 🔇 Nuclias User 👻 🛞 English 👻
DASHBOARD N	NONITOR CONFIGURE	REPORTS	SETTIN	IGS H	IELP				
Report / Change log								Time frame: Last 24 hours	▼ Q Search ▼ 👱
Time(UTC)	Account	Site	Profile	Page	SSID	Device	Label	Old value	New value
02/12/2019 02:00 PM	documentation@dlinkcorp.com						Login succes	sful	
02/12/2019 09:55 AM	documentation@dlinkcorp.com						Login succes	sful	
2 changes dating back to 0	2/11/2019								Previous 1 Next 10 -

#### 9.2 Switch

#### 9.2.1 Filtering the Switch Logs

- 1. Navigate to the **Reports > Switch** page.
- 2. [Optional] Select a time frame from the drop-down menu.
- 3. Check the profiles to filter switch logs for from the Device report drop-down menu.
- Check the devices to filter switch logs for from the Device drop-down menu.
   Note: Only devices using the profile selected in the previous step will be shown.
- 5. Check the profiles to filter switch rankings for from the Ranking report drop-down menu.
- 6. Select the maximum number of entries to display from the Show top results drop-down menu.
- Check the type of switch logs to show from the Customize report drop-down menu. Select All to show all report types.
- 8. Click Preview.

#### 9.2.2 Sending Switch Logs by Email

- 1. Navigate to the **Reports > Switch** page.
- 2. [Optional] Select a time frame from the drop-down menu.
- 3. Check the profiles to filter switch logs for from the Device report drop-down menu.
- Check the devices to filter switch logs for from the Device drop-down menu.
   Note: Only devices using the profile selected in the previous step will be shown.

- 5. Check the profiles to filter switch rankings for from the Ranking report drop-down menu.
- 6. Select the maximum number of entries to display from the Show Top Results drop-down menu.
- Check the type of switch logs to show from the Customize Report drop-down menu. Select All to show all report types.
- 8. **[Optional]** Click Preview to see a preview version of the switch log with the selected parameters.
- 9. Click Send email.

#### 9.2.3 Download Archived Switch Logs

Monthly switch logs are automatically archived in the system and can be downloaded for reference.

- 1. Navigate to the **Reports > Switch** page.
- 2. From the change log list, click **Archive** in the top-right.
- 3. Select a time frame from the drop-down menu.
- 4. Click Download.

#### 9.2.4 Download Switch Logs

- 1. Navigate to the **Reports > Switch** page.
- 2. [**Optional**] Select a time frame from the drop-down menu.
- 3. Check the profiles to filter switch logs for from the Device report drop-down menu.
- Check the devices to filter switch logs for from the Device drop-down menu.
   Note: Only devices using the profile selected in the previous step will be shown.
- 5. Check the profiles to filter switch rankings for from the Ranking report drop-down menu.
- 6. Select the maximum number of entries to display from the Show Top results drop-down menu.
- Check the type of switch logs to show from the Customize report drop-down menu. Select All to show all report types.
- 8. **[Optional]** Click Preview to see a preview version of the switch log with the selected parameters.
- 9. Click Download.

# 9.3 Alerts

From the Alerts window, users can view a detailed log of all alerts occurring on the network. Alerts are divided into two types: processed and not processed alerts. Unprocessed alerts are events that have occurred on the network which are pending action by the managing user. Processed alerts are event alerts that have been acknowledged and handled by the managing user.

The type of alerts shown in the alert log can be configured in the Alert Settings. Refer to the **Alert Settings section on page 96** for more information.

# 9.3.1 Acknowledging Unprocessed Alerts

Unprocessed alerts shown in the alert log can be flagged as acknowledged to keep track of which alerts have been reviewed and handled by the user.

**Note**: Alerts are managed per user. Multiple users with the required editing rights within the same organizations will see the same alerts. If one user acknowledges or deletes alerts, they will no longer appear for this user, but will still be visible for the other users until they acknowledge or delete these alerts on their respective user accounts.

- 1. Navigate to the **Reports > Alerts** page.
- 2. Click the **Not Processed** tab in the top-right of the screen.
- 3. From the alerts list, click the checkbox next to the alert(s) you wish to acknowledge.
- 4. Click Acknowledge.

Note: Acknowledged alerts will be automatically moved to the Processed tab.

#### 9.3.2 Deleting Unprocessed Alerts

Unprocessed alerts shown in the alert log can be deleted from the log.

**Note**: Alerts are managed per user. Multiple users with the required editing rights within the same organizations will see the same alerts. If one user acknowledges or deletes alerts, they will no longer appear for this user, but will still be visible for the other users until they acknowledge or delete these alerts on their respective user accounts.

- 1. Navigate to the **Reports > Alerts** page.
- 2. Click the **Not Processed** tab in the top-right of the screen.

- 3. From the alerts list, click the checkbox next to the alert(s) you wish to delete.
- 4. Click Delete.
- 5. When prompted to confirm, click Yes.

Note: Deleted alerts will be permanently deleted, this action cannot be undone.

#### 9.3.3 Deleting Processed Alerts

Unprocessed alerts shown in the alert log can be deleted from the log.

**Note**: Alerts are managed per user. Multiple users with the required editing rights within the same organizations will see the same alerts. If one user acknowledges or deletes alerts, they will no longer appear for this user, but will still be visible for the other users until they acknowledge or delete these alerts on their respective user accounts.

- 1. Navigate to the **Reports > Alerts** page.
- 2. Click the **Processed** tab in the top-right of the screen.
- 3. From the alerts list, click the checkbox next to the alert(s) you wish to delete.
- 4. Click Delete.
- When prompted to confirm, click Yes.
   Note: Deleted alerts will be permanently deleted, this action cannot be undone.

#### 9.3.4 Searching for Alerts

- 1. Navigate to the **Reports > Alerts** page.
- 2. Click the Not Processed or Processed tab to the filter the shown alerts.
- 3. [Optional] Select a time frame from the drop-down menu.
- 4. From the alert list, click the Search field.
- 5. Enter the alert name.

Note: All alerts matching the value entered in the search field will automatically appear.

6. [**Optional**] Click the filter drop-down menu and enter the following information:

**Note:** Multiple filters can be populated to narrow down the search result.

Device type	Select the device type from the drop-down menu to
	filter alerts for.
Device name	Enter the name of the device that triggered the alert.
Severity	Select an alert severity level from the drop-down
	menu.

# 9.4 Licenses

#### 9.4.1 Filtering the License Logs

- 1. Navigate to the **Reports > Licenses** page.
- 2. Click the filter selection in the top-right.

	Nuclias Global	All		Ć	Alert   🔇 Nuclias User 👻 🛞 English 🔹
DASHBOARD	MONITOR CONFIGURE F	REPORTS SETTINGS HELP			
Report / Licenses					
Model no.	Device UID	Serial number	Profile	Device name	Reg. status
DBA-1510P	ZT3JUN9U95CF	S3DX1HA000002	Local Profile	Test device	Pre-Registered
					Previous 1 Next 10 -

3. Check the information parameters to display the corresponding license information in the overview window. Check **All** to show all license information parameters.

# 9.4.2 Downloading License Logs

- 1. Navigate to the **Reports > Licenses** page.
- 2. From the license log list, click the **Download** icon in the top-right.

< nuclias	Nuclias Global 👻	All			Alert 🔇 Nuclias User 🔹 🌐 English 👻
DASHBOARD	MONITOR CONFIGURE	REPORTS SETTINGS HELP			
Report / Licenses					
Model no.	Device UID	Serial number	Profile	Device name	Reg. status
DBA-1510P	ZT3JUN9U95CF	S3DX1HA000002	Local Profile	Test device	Pre-Registered
					Previous 1 Next 10 -

# 10 Settings

Account Management	From the Account Management section, users can view a full
	overview that includes detailed information of all managed
	user accounts, invite new users, and edit existing users.
	Refer to the Account Management section on page 80 for
	more information.
Organization	From the Organization Management section, users can create
Management	and edit Sites and Site Tags, as well as invite users to the
	organization.
	Refer to the Organization Management section on page 83
	for more information.
License Management	From the License Management section, users can consult
	more detailed information of all licenses assigned to the

	organization including status, activation and expiration dates,
	and how much time is currently left on a license.
	Refer to the License Management section on page 86 for
	more information.
Inventory	From the Inventory section, users can consult comprehensive
	information about all devices currently assigned to the
	selected organization, including status, hardware information,
	and which Site (Tag) it is associated with. New devices can
	also be added from this window.
	Refer to the Inventory section on page 88 for more
	information.
Firmware	From the Firmware section, users can set device upgrade
	schedules, or manually upgrade a device's firmware.
	Refer to the Firmware section on page 93 for more
	information.
Alert Settings	From the Alert Settings section, users can choose the type of
	network events that will trigger alert notifications.
	Refer to the Alert Settings section on page 96 for more
	information.
Add Device	From the Add Device section, users can quickly add a new
	device to the organization.
	Refer to the Add Device section on page 97 for more
	information.

#### **10.1 Account Management**

From the Account Management window users can consult an overview of all managed user accounts. It provides additional information about users, including the organization, Site Tag, and Site(s) the user is assigned to, and the user status.

**Note**: Access to user accounts depends on the account type and privilege level of the managing user.

#### 10.1.1 Inviting a New User

- 1. Navigate to the Settings > Account Management page.
- 2. Click Invite User.

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DASHBOARD	MONITOR CONF	IGURE REPORTS	SETTINGS	HELP				
Setting / Account manag	jement							
Invite user Dele								۹. ۲
🔲 # Name	Email		Access level		Access privilege	Org/Site	Status	Last access time
1 1			Organization(Nucl	ias Global)	Admin	3	Verified	12/21/2018 09:34
2		·	Organization(Nucl	ias Global)	Admin	3	Verified	12/18/2018 11:25
3			Organization(Nucl	ias Global)	Admin	3	Verified	12/19/2018 16:23
								Previous 1 Next 10 -

3. Specify the following information:

User name	Enter the user's name.
Access Level	Select the access level of the user. This determines
	what information the user can view. Based on the
	selected access level, select the organization from the
	drop-down menu.
Email address	Enter the user's email address. This is also the user
	name to log into the Nuclias Portal interface.
Managed Site	This determines which Sites of which the organization
	can be viewed by the user. Selecting All sites will
	allow the user to see all Sites under the selected
	organization.
Role	Select a role for the user. Roles determine the degree
	of editing and viewing privileges of the user.
	Admin: Full editing and full viewing rights.
	Editor: Partial editing and full viewing rights.
	Monitor: Limited editing and partial viewing rights.
	Viewer: Limited viewing rights.

4. Click Save change.

### 10.1.2 Editing an Existing User

#### 10.1.2.1 Editing a User Name

- 1. Navigate to the **Settings > Account Management** page.
- 2. From the user account list, click the user you wish to edit.
- 3. In the Edit User window, edit the following information:

Name	Enter a user name

4. Click Save change.

#### 10.1.2.2 Editing a User's Access Privilege

- 1. Navigate to the **Settings > Account Management** page.
- 2. From the user account list, click the user you wish to edit.
- 3. In the Edit User window, edit the following information:

Managed Site	Based on the selected Site tag, select a Site. This
	determines which Sites of the organization can be
	viewed by the user. Selecting <b>All</b> will allow the user to
	see all Sites under the selected organization.
Role	Select a role for the user. Roles determine the degree
	of editing and viewing privileges of the user.
	Admin: Full editing and full viewing rights.
	Editor: Partial editing and full viewing rights.
	Monitor: Limited editing and partial viewing rights.
	Viewer: Limited viewing rights.

4. Click Save change.

#### 10.1.3 Searching for a User

- 1. Navigate to the **Configure > Account Management**.
- 2. From the user list, click the **Search** field.
- 3. Enter the user name.

**Note**: All user names matching the value entered in the search field will automatically appear.

4. [Optional] Click the filter drop-down menu and enter the following information:

Note: Multiple filters can be populated to narrow down the search result.

Name         Enter the user name.	
Email	Enter the user's email address.
Role	Enter the role assigned to the user.

#### 10.1.4 Deleting a User

Users can be deleted from an organization, permanently removing their ability to view and edit the organization.

**Note**: The ability to delete a user is dependent on the role and privilege level of the managing user.

- 1. Navigate to the Settings > Account Management page.
- 2. From the user account list, click the checkbox next to the user account(s) you wish to delete.
- 3. Click Delete.

Invite user D	elete					۹ -
🗌 # Name	Email	Access level	Access privilege	Org/Site	Status	Last access time
1		Organization(Nuclias Global)	Admin	3	Verified	12/21/2018 09:34
✓ 2		Organization(Nuclias Global)	Admin	3	Verified	12/18/2018 11:25
✓ 3 €*****		Organization(Nuclias Global)	Admin	3	Verified	12/19/2018 16:23

4. When prompted to confirm, enter your user password.

**Note**: This is the password of the managing user and not the password of the user to be deleted.

5. click Yes.

**Note**: The deleted user will receive a notification email to confirm the account was deleted.

# **10.2 Organization Management**

From the Organization Management window, users can view more information about all organizations linked to the user account including organization type, device status and amount. Users can also create Site and Site Tags, and invite new users.

#### 10.2.1 Creating a New Organization

Organization creation is only available for Managed Services Providers (MSP)-level users. Normal user accounts cannot create additional organizations.

# 10.2.2 Adding A Site to an Organization

Sites are an easy way for organizations to geographically group devices together. Sites are

informational and do not impact the configuration settings of devices that are listed under it. Creating additional Sites allows users to further subdivide and structure the organization and network.

- 1. Navigate to the Settings > Organization Management page.
- 2. From the organization list, click **Create Site** under the Actions column.
- 3. Specify the following information:

Site Name	Enter a name for the Site
Site tag	[Optional] Select a Site Tag from the drop-down
	menu. This will place the Site under the selected Site
	Tag in the organization structure.
Country and local	Select a country and time zone from the respective
time zone	drop-menu.
Address	Enter a valid address. This is required for the Site to
	properly show on the Map overview.
NTP server 1	Enter an NTP server address.
NTP server 2	[Optional] Enter a secondary NTP server address.
Name	[Optional] Enter the name of the Site's contact
	person.
Phone	[Optional] Enter the contact number of the Site's
	contact person.
Email address	[Optional] Enter the email address of the Site's
	contact person.

4. Click Save.

# 10.2.3 Adding A Site Tag to an Organization

- 1. Navigate to the **Settings > Organization Management** page.
- 2. From the organization list, click **Create Site Tag** under the Actions column.
- 3. Specify the following information:

Site Name	Enter a name for the Site	
Parent Tag	Select a Parent Tag from the drop-down menu. This	
	will place this Site Tag under the selected Parent Tag	
	in the organization's structure.	

4. Click Save.

#### 10.2.4 Invite Users to an Organization

Additional users can be invited to the organization through the organization management window.

**Note**: The ability to invite users depends on the account role and privilege level of the managing user.

- 1. Navigate to the Settings > Organization Management page.
- 2. From the organization list, click **Invite User** under the Actions column.
- 3. Specify the following information:

User name	Enter the user's name.
Access Level	Select the access level of the user. This determines
	what information the user can view. Based on the
	selected access level, select the organization from the
	drop-down menu.
Email address	Enter the user's email address. This is also the user
	name to log into the Nuclias Portal interface.
Site Tag	Select a Site tag. This determines which Site tags of
	the organization can be viewed by the user. Selecting
	None will allow the user to see all Site tags under the
	selected organization.
Site	Based on the selected Site tag, select a Site. This
	determines which Sites of the organization can be
	viewed by the user. Selecting <b>All</b> will allow the user to
	see all Sites under the selected organization.
Role	Select a role for the user. Roles determine the degree
	of editing and viewing privileges of the user.
	Admin: Full editing and full viewing rights.
	Editor: Partial editing and full viewing rights.
	Monitor: Limited editing and partial viewing rights.
	Viewer: Limited viewing rights.

4. Click Save change.

#### 10.2.5 Searching for an Organization

Organization deletion is only available for Managed Services Providers (MSP)-level users. Normal user accounts cannot delete additional organizations.

#### 10.2.6 Deleting an Organization

Organization deletion is only available for Managed Services Providers (MSP)-level users. Normal user accounts cannot delete additional organizations.

### **10.3 License Management**

The License Management window provides more detailed information for all licenses assigned to the selected organization including status, activation and expiration dates, and how much time is currently left on a license.

#### 10.3.1 Adding a License Key

A single licenses key can be added to the organization so they can be manually assigned to a device at a later point.

- 1. Navigate to the Settings > License Management page.
- 2. Click Add Licenses.
- 3. In the License Key window, enter the required information:

License Key Enter a valid license key.

4. Click Add.

#### **10.3.2 Bulk Adding Multiple Licenses**

Multiple licenses keys can be bulk added to the organization so they can be manually assigned to a device at a later point.

- 1. Navigate to the Configure > License Management.
- 2. Click Bulk Import.
- 3. [Optional] Download the reference sample template.

Bulk import	×
Upload a CSV-formatted file with license you wish to add to organizati	on.
Browse	
You can download sample template file here	
Cancel Upload	

- 4. Click Browse.
- Locate the CSV-formatted file containing the license keys using the following format:.
   [License key]
- 6. Click Upload.

#### **10.3.3 Searching for a License Key**

- 1. Navigate to the Configure > License Management page.
- 2. From the license key list, click the Search field.
- 3. Enter the license key number.

**Note**: All license keys matching the value entered in the search field will automatically appear.

 [Optional] Click the filter drop-down menu and enter the following information: Note: Multiple filters can be populated to narrow down the search result.

Status	Enter the current status of the license. The available
	statuses are <b>Inactive</b> and <b>Active</b> .
License Key	Enter the license key serial number.
Term	Enter the license term. The available terms are <b>1 Year</b>
	and <b>3 Years</b> .
Claimed at	Enter the date and time the license was added to the
	organization in the format <b>mm/dd/yyyy 00:00 AM/PM</b> .
Organization	Enter the name of the organization the license key is
	linked to.
Device UID	Enter the UID of the device the license is linked to.
Model Name	Enter the model name of the device the license is
	linked to.

MAC Address	Enter the MAC address of the device the license is		
	linked to.		
Start Date	Enter the license start date in the format <b>mm/dd/yyyy</b> .		
Expiration Date	Enter the license expiration date in the format		
	mm/dd/yyyy.		
Time Remaining	Enter the time remaining on the license in the format		
	mm/dd/yyyy.		

#### **10.3.4 Viewing the License History**

- 1. Navigate to the Settings > License Management page.
- 2. From the license key list, click License History in the top-right.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP				
Settings / License man Add license Bi	agement Ilk import							License History Q. Se	arch
# Status	License key	Term	Claimed at	Organization	Device UID	Model name	MAC address	Start date Expiration date	Time remaining
									Previous Next 10 -

#### 10.3.5 Downloading License Key List

- 1. Navigate to the Settings > License Management page.
- 2. From the license key list, click the Download icon in the top-right.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP						
Settings / License n	anagement Bulk import							License History Q Search. •			
# Status	License key	Term	Claimed at	Organization	Device UID	Model name	MAC address	Start date Expiration date Time remaining			
								Previous Next 10 -			

### **10.4 Inventory**

From the Inventory windows, users can consult comprehensive information about all devices currently assigned to the selected organization, including status, hardware information, and which Site and Profile it is associated with. The inventory is divided into three sections: **Used** (assigned], **Unused** (unassigned devices), and **Both** (all devices).

Note: The displayed devices are based on the selected organization and Site.

# 10.4.1 Adding and Registering a Single Device to a Site

When adding a new device, assigning a Site and Profile to a device during the device registration process allows it to be used immediately.

- 1. Navigate to the **Settings > Inventory** page.
- 2. Click Add device.
- 3. Specify the following information:

Device UID	Enter the device's Unique Identifier (UID) found on the
	label printed on the device.
	The UID may be listed in the format XXXX-XXXX-
	XXXX or XXXXXXXXXXXXXX. When entering the UID,
	do not include dashes.
Device Name	Enter a name for the device.

#### 4. Under Register device, select Enable.

5. Specify the following information:

Site	Select a Site to link this device to.
Profile	Select a Profile for this device. The device will use the
	settings configured in that profile.
License Key	[Optional] Enter the device license key.
	Note: Every new device will be issued a one-year free
	license key. Once expired, an additional license must
	be purchased to continue using the device.

#### 6. Click Save.

# 10.4.2 Adding a Single Device to the Inventory

Adding a new device to the Inventory stores the device in a warehouse where it is kept inactive until it is manually assigned to a Site and Profile by the user at a later point.

1. Navigate to the **Settings > Inventory** page.

2. Click Add device.

	as Global 👻	All	🖉 Alert 🛛 🄇 Nuclias User 👻 🔀 English 👻					
DASHBOARD MONITOR	CONFIGURE	REPORTS	SETTINGS HELP					
Settings / Inventory					USE	D	UNUSED	BOTH
Add device Bulk import								Q Search
Status Device name	Model	UID	Serial number	Organization	Site	Profile	License status	Activation date
Test Device	DBA-1510P	ZT3JUN9U95CF	S3DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License	
								Previous 1 Next 10 -

3. Specify the following information:

Device UID	Enter the device's Unique Identifier (UID) found on the
	label printed on the device.
	The UID may be listed in the format XXXX-XXXX-
	XXXX or XXXXXXXXXXXXXX. When entering the UID,
	do not include dashes.
Device Name	Enter a name for the device.

- 4. Under the Register Device option, select **Disable**.
- 5. Click Save.

# 10.4.3 Bulk Adding Multiple Devices to the Inventory

Bulk adding new devices to the Inventory stores the devices in a warehouse where they are kept inactive until they are manually assigned to a Site and Profile by the user at a later point.

- 1. Navigate to the **Settings > Inventory** page.
- 2. Click Bulk import.

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DASHBOA	RD MONITOR	CONFIGURE	REPORTS	SETTINGS HELP					
Settings / Inver	ntory					USE	D	UNUSED	BOTH
Add device	Bulk import								Q Search
Status	Device name	Model	UID	Serial number	Organization	Site	Profile	License status	Activation date
•	Test Device	DBA-1510P	ZT3JUN9U95CF	\$3DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License	
									Previous 1 Next 10 -

3. [Optional] Download the reference sample template.

Bulk import	×
Upload a CSV-formatted file with device UID you wish to add to inventory or map to profile and site to register device(s).	the
Browse	
You can download sample template file here Inventory	
You can download sample template file here - Register devices	
Cancel Upload	d

- 4. Click Browse.
- Locate the CSV-formatted file containing the UIDs of the devices.
   Note: To add devices to the inventory, use the following format:
   [UID]
- 6. Click Upload.

# 10.4.4 Bulk Adding and Registering Multiple Devices to a Site

When bulk adding a new device, assigning a Site and Profile to the devices during the device registration process allows them to be used immediately.

- 1. Navigate to the **Settings > Inventory** page.
- 2. Click Bulk import.

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DASHBOAR	D MONITOR	CONFIGURE	REPORTS	SETTINGS HELP					
Settings / Invent	tory					USE		UNUSED	BOTH
Add device	Bulk import								Q Search
Status	Device name	Model		Serial number	Organization		Profile	License status	Activation date
•	Test Device	DBA-1510P	ZT3JUN9U95CF	\$3DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License	
									Previous 1 Next 10 -

3. [Optional] Download the reference sample template.



- 4. Click Browse.
- Locate the CSV-formatted file containing the UIDs of the devices.
   Note: To directly register devices to a Site, use the following format: [UID][Device Name][Profile Name][Site][License Key]
- 6. Click Upload.

# 10.4.5 Deleting a Device from the Inventory

Deleting a device from the inventory completely removes the device from the organization it was linked to, allowing it to be reassigned to a different organization.

- 1. Navigate to the **Settings > Inventory** page.
- 2. Click the tab of the inventory list to filter shown devices.

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DAS	SHBOARI	D MONITOR	CONFIGURE	REPORTS	SETTINGS HELP							
Settings	/ Invento	огу					USE	D	UNUSED	вотн		
Add	device	Bulk import D								Q Search		
	Status	Device name	Model	UID	Serial number	Organization	Site	Profile	License status	Activation date		
		Test Device	DBA-1510P	ZT3JUN9U95CF	53DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License			
	0	<u>Test Device</u>	DBA-1510P	ZT3JUN9U95CF	53DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License	Previous 1 Next		

- 3. From the device list, click the checkbox next to the device(s) you wish to delete.
- 4. Click Delete.
- 5. When prompted to confirm, click Yes.

#### **10.4.6 Searching for a Device**

- 1. Navigate to the **Configure > Inventory** page.
- 2. Click the tab of the inventory list to filter shown devices.

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DASHBOA	ARD MONITOR	CONFIGURE	REPORTS	SETTINGS HELP							
Settings / Inve	ntory					USE		UNUSED	вотн		
Add device	Bulk import D								Q Search		
Statu:	s Device name	Model	UID	Serial number	Organization	Site	Profile	License status	Activation date		
•	Test Device	DBA-1510P	ZT3JUN9U95CF	53DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License			
									Previous 1 Next 10 -		

- 3. From the device list, click the **Search** field.
- 4. Enter the device name.

Note: All devices matching the value entered in the search field will automatically appear.

#### **10.4.7 Exporting the Inventory List**

- 1. Navigate to the **Settings > Inventory** page.
- 2. Click the tab of the inventory list you wish to export.

Note: Each tab exports a separate inventory list for the respective tab.

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DASHBOAR	D MONITOR	CONFIGURE	REPORTS	SETTINGS HELP							
Settings / Invent	tory					USE		UNUSED	вотн		
Add device	Bulk import De								Q Search		
Status	Device name	Model	UID	Serial number	Organization	Site	Profile	License status	Activation date		
•	Test Device	DBA-1510P	ZT3JUN9U95CF	\$3DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License			
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3. From the device list, click the **Download** icon in the top-right.

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DASHBOARD MONITOR	CONFIGURE	REPORTS	SETTINGS HELP					
Settings / Inventory					USE	D	UNUSED	BOTH
Add device Bulk import								Q Search
Status Device name	Model	UID	Serial number	Organization	Site	Profile	License status	Activation date
Test Device	DBA-1510P	ZT3JUN9U95CF	53DX1HA000002	Nuclias Global	Nuclias Global	Local Profile	No License	
								Previous 1 Next 10 -

### 10.5 Firmware

From the Firmware window, users can view basic firmware information, and set up a firmware upgrade schedule. Firmware upgrades are managed at the Site level and configured per device type, which means that all devices of the same type that are linked to that Site will use the same firmware upgrading policy.

# 10.5.1 Setting an Automatic Upgrade Window

Automatic upgrade windows provide an easy way of regularly maintaining device firmware by setting a fixed weekly time and date to automatically scan for new firmware and upgrade devices if a new firmware version is available.

- 1. Navigate to the **Settings > Firmware** page.
- 2. Select a Site from the Site menu in the top of the screen.



3. Select a day of a week and time of day from the drop-down menu.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP	
Settings / Firmware	Wednesday	▼ 1:00 AM	•			

4. Click the tab of the device you wish to configure firmware upgrades for.

Note: Upgrade windows need to be configured separately for each device type.

DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP		
Settings / Firmwar	e						
Upgrade window	Wednesday	▼ 1:00 AM	•				

- 5. Select Follow upgrade window.
- 6. Click Save.

# 10.5.2 Setting a Custom Device Upgrade Time

Users can define a specific time and date to scan for firmware updates which overrides the automatic upgrade schedule.

- 1. Navigate to the **Settings > Firmware** page.
- 2. Select a Site from the Site menu in the top of the screen.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP	

3. Select a day of a week and time of day from the drop-down menu.



4. Click the tab of the device you wish to configure firmware upgrades for.

Note: Upgrade windows need to be configured separately for each device type.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP	
Settings / Firmware	Wednesday	• 1:00 AM	•			
ACCESS POINT	UPGRADE	DBA-1510P		DBA-2820P		

- 5. Select Reschedule the upgrade to.
- 6. Click the date field to choose a date and select a time from the drop-down menu.
- 7. Click Save.

# 10.5.3 Performing a Manual Firmware Upgrade

Devices can be manually upgraded by performing an on-the-spot firmware upgrade check.

- 1. Navigate to the **Settings > Firmware** page.
- 2. Select a Site from the Site menu in the top of the screen.

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3. Select a day of a week and time of day from the drop-down menu.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP	
Settings / Firmware	Wednesday	• 1:00 AM	•			

4. Click the tab of the device you wish to configure firmware upgrades for.

Note: Upgrade windows need to be configured separately for each device type.

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DASHBOARD	MONITOR	CONFIGURE	REPORTS	SETTINGS	HELP			
Settings / Firmware								
Upgrade window	Wednesday	▼ 1:00 AM	•					

- 5. Select Perform the upgrade now.
- 6. Click Upgrade now.
- 7. When prompted to confirm, click **Yes**.

## **10.6 Alert Settings**

#### **10.6.1 Configuring Alert Notifications**

Users can customize what type of network events will trigger alert notifications. Events are divided into general and device-specific events.

- 1. Navigate to the **Settings > Alert Settings** page.
- 2. In the General section, select the event types to receive alert notifications for:

Firmware upgraded	Sends an alert notification when a device firmware has
	successfully upgraded.
Firmware upgrade	Sends an alert notification when a device firmware
failed	upgrade failed.
Device added to	Sends an alert notification when a device has been
profile	assigned to a Profile.
Device removed	Sends an alert notification when a device has been
from profile	unassigned from a Profile.
Device connected to	Sends an alert notification when a device has
Nuclias	successfully connected to the Nuclias server.
Configuration	Sends an alert notification when a configuration
pushed to devices	update has been successfully pushed to affected
	devices.
Configuration failed	Sends an alert notification when a configuration
to push to device	update failed to be pushed to affected devices.

3. In the Access Point section, select a time (in minutes) from the drop-down menu, and check the respective checkbox to receive notifications by email or through the app

whenever the device goes offline for longer than the selected time period.

- 4. In the Switch section, select a time (in minutes) from the drop-down menu, and check the respective checkbox to receive notifications by email or through the app whenever the device goes offline for longer than the selected time period.
- 5. Select **Any port** or a specific from the drop-down menu, select a time (in minutes) from the drop-down menu, and check the respective checkbox to receive notifications by email or through the app whenever the selected port(s) are down for longer than the selected time period..
- 6. Click Save.

#### 10.7 Add Device

1. Navigate to the **Settings > Add device** page.

Note: The add device window will automatically appear.

2. Specify the following information:

Device UID	Enter the device's Unique Identifier (UID) found on the
	label printed on the device.
	The UID may be listed in the format XXXX-XXXX-
	XXXX or XXXXXXXXXXXXXX. When entering the UID,
	do not include dashes.
Device name	Enter a name for the device.
Site	Select a Site to link this device to.
Profile	Select a Profile for this device. The device will use the
	settings configured in that profile.
License Key	[Optional] Enter the device license key.
	Note: Every new device will be issued a one year free
	license key. Once expired, an additional license must
	be purchased to continue using the device.

3. Click Save.

# 11 Help

# 11.1 Contact Us

From the Contact Us window, users can submit a support ticket for various issues with devices or the platform as well as provide feedback so we may continue to improve the quality of our platform.

#### **11.1.1 Contacting Nuclias Support**

- 1. Navigate to the Help > Contact Us page.
- 2. Specify the following information:

Name	Click to enter a sender name. The recipient will see this name. By default, this is the user name.
E-mail	Enter an email address. Responses to submitted tickets will be received on this email address. By default, this is the user account email.
Phone	[ <b>Optional</b> ] Enter a contact number.
Issue category	Select a category type from the drop-down menu.
Problem device	If Installation, Device Problem, or License Issue is selected as the category, enter the UID of the affected device. [ <b>Optional</b> ] Click <b>Add</b> to enter additional device UIDs.
Description	Enter a description of the issue or feedback.

- 3. **[Optional]** Drag and drop an image file of up to 2 mb in size. Alternatively, click **Browse** and navigate to the image file.
- 4. Click Submit.