

# Dell Edge Device Manager Version R16

## Administrator's Guide



## Notes, cautions, and warnings

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

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

 | **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Introduction

Edge Device Manager (EDM) is the next generation management solution for the Dell Edge Gateway devices that offers advanced feature options such as Cloud versus On-premises private cloud deployment, manage-from-anywhere through a mobile application, enhanced security such as BIOS configuration, and port lockdown. Other features include device discovery and registration, the asset, and inventory management, the configuration management, operating system and applications deployment, real-time commands, monitoring, alerts, reporting, and troubleshooting of endpoints.

**NOTE:** Wyse Management Suite UI will be rebranded to Edge Device Manager (EDM) after a valid license has been imported.

The following information should be considered for selecting the EDM R16 public versus private cloud editions:

## Private cloud

This edition is suited for users with the following requirements:

- Small, medium, or large deployments
- Need advanced features such as delegated administration, reports, and two-factor authentication.
- Requires the convenience of monitoring and managing through mobile application.
- Requires to install and maintain software and infrastructure on-site.

## Public cloud

This edition is suited for users with the following requirements:

- Small, medium, or large deployments
- Requires the convenience and cost savings of not having a setup and maintain infrastructure and software.
- Needs advanced features such as delegated administration, reports, and two-factor authentication.
- Requires the convenience of monitoring and managing through mobile application.
- Devices can be configured to communicate with external server either directly or through a forward-proxy service.
- Needs to manage devices on non-corporate networks such as home, office, third party, partners, and so on

Topics:

- [Getting started with Edge Device Manager on public cloud](#)
- [Getting started with Edge Device Manager on private cloud](#)
- [Support matrix](#)
- [Functional areas of management console](#)
- [Configuring and managing Edge Gateway devices](#)

## Getting started with Edge Device Manager on public cloud

This section provides information about the general features that help you to get started as an administrator.

## Logging in

❗ **IMPORTANT:** You receive your credentials when you sign up for Edge Device Manager trial on [www.wysemanagementsuite.com](http://www.wysemanagementsuite.com) or when you purchase your subscription. You can purchase the Edge Device Manager subscription at the Dell sales or your local Dell partner. For more details, see [www.wysemanagementsuite.com](http://www.wysemanagementsuite.com).

To log into the management console, do the following:

- 1 Start a supported web browser on any machine with access to the internet .
- 2 To access Public Cloud (SaaS) edition of Edge Device Manager use the following links:
  - US Datacenter: [us1.wysemanagementsuite.com](http://us1.wysemanagementsuite.com)
  - EU Datacenter: [eu1.dellmobilitymanager.com](http://eu1.dellmobilitymanager.com)
- 3 Enter your user name and password.

❗ **NOTE:** The default user name and password are provided by the account representative.
- 4 Click **Sign In**.

❗ **IMPORTANT:** Dell recommends you to change your password after logging in for the first time.

## Changing your password

To change the login password, do the following:

- 1 On the upper-right corner of the management console, click **Account**, and then click **Change Password**.
- 2 Enter your current password.
- 3 Enter a new password.
- 4 Enter your new password in the **Confirm New Password** field.
- 5 Click **Change Password**.

## Logging out

To log out from the management console, click **Account**, and then click **Sign out**.

## Getting started with Edge Device Manager on private cloud

The following table lists the prerequisites to deploy Edge Device Manager on a private cloud:

**Table 1. Prerequisites**

	Edge Device Manager server		Edge Device Manager software repository
	For 10,000 or less devices	For 50,000 or less devices	
<b>Operating system</b>	Windows Server 2012 R2 or Windows Server 2016 Supported language pack—English, French, Italian, German, and Spanish		Windows Server 2012 R2 or Windows Server 2016
<b>Minimum disk space</b>	40 GB	120 GB	120 GB
<b>Minimum memory (RAM)</b>	8 GB	16 GB	16 GB



<b>Minimum CPU requirements</b>	4	4	4
<b>Network communication ports</b>	<p>The EDM installer adds Transfer Control Protocol (TCP) ports 443, 8080, and 1883 to the firewall exception list. The ports are added to access the EDM console and to send the push notifications to the thin clients.</p> <ul style="list-style-type: none"> <li>• TCP 443—HTTPS communication</li> <li>• TCP 8080—HTTP communication (optional)</li> <li>• TCP 1883—MQTT communication</li> <li>• TCP 3306—MariaDB (optional if remote)</li> <li>• TCP 27017—MongoDB (optional if remote)</li> <li>• TCP 11211—Memcache</li> </ul>		<p>The EDM repository installer adds TCP ports 443 and 8080 to the firewall exception list. The ports are added to access the operating system images and application images that are managed by EDM.</p>
<b>Supported browsers</b>	<ul style="list-style-type: none"> <li>• Microsoft Internet Explorer version 11</li> <li>• Google Chrome 58.0 and later versions</li> <li>• Mozilla Firefox 52.0 and later versions</li> <li>• Microsoft Edge browser on Windows—English only</li> </ul>		

**NOTE:**

- **WMS.exe** and **WMS\_Repo.exe** must be installed on two different servers.
- The software can be installed on a physical or a virtual machine.
- It is not necessary that the software repository and the Edge Device Manager server run on the same operating system.

For installation procedure, see [support.dell.com/manuals](http://support.dell.com/manuals).

## Support matrix

### Supported operating system

The following are the supported operating systems for Edge Gateway and Embedded PC:

Edge Gateway—3000 series

- Ubuntu Core 16
- Windows 10 IoT Enterprise 2016 LTSC

Edge Gateway—5000 series

- Ubuntu Core 16
- Windows 10 IoT Enterprise 2015 LTSC
- Windows 10 IoT Enterprise 2016 LTSC

Embedded PC

- Ubuntu Desktop 16.04
- Windows 10 IoT Enterprise 2015 LTSC
- Windows 10 IoT Enterprise 2016 LTSC
- Windows 7 Pro
- Windows 10 Pro
- Windows 7 Pro for Embedded Systems—FES7
- Windows Embedded Standard 7P
- Windows Embedded Standard 7E

### Supported operating system language pack for EDM web console



The following are supported operating system language pack:

- 1 English
- 2 French
- 3 Italian
- 4 German
- 5 Spanish
- 6 Simplified Chinese
- 7 Japanese

### Supported browsers

The following are the supported browsers:

- 1 Internet Explorer 11.0 and later
- 2 Google Chrome 62.0 and later
- 3 Firefox 56 and later

## Functional areas of management console

The Edge Device Manager console is organised into the following functional areas:

- 1 The **Dashboard** page provides information about each functional area of the system.
- 2 The **Groups & Configs** page employs a hierarchical group policy management for device configuration. Optionally, subgroups of the global group policy can be created to categorize devices according to corporate standards. For example, devices may be grouped based on job functions, device type, and so on.
- 3 The **Devices** page enables you to view and manage devices, device types, and device-specific configurations.
- 4 The **Apps & Data** page provides management of device applications, operating system images, policies, certificate files, logos, and wallpaper images.
- 5 The **Rules** page enables you to add, edit, and enable or disable rules such as auto grouping and alert notifications.
- 6 The **Jobs** page enables you to create jobs for tasks such as reboot, WOL, and application or image policy that is deployed on registered devices.
- 7 The **Events** page enables you to view and audit system events and alerts.
- 8 The **Users** page enables local users, and users imported from the Active Directory to be assigned global administrator, group administrator, and viewer roles to log in to Edge Device Manager. Users are given permissions to perform operations based on the roles assigned to them.
- 9 The **Portal Administration** page enables administrators to configure various system settings such as local repository configuration, license subscription, active directory configuration, and two-factor authentication.

## Configuring and managing Edge Gateway devices

**Configuration management**—Edge Device Manager supports a hierarchy of groups and subgroups. Groups can be created manually or automatically based on the rules defined by the system administrator. You can organize based on the functional groups, for example marketing, sales, and engineering, or based on the location hierarchy, for example, country, state, and city.

**NOTE:** System administrators can add rules to create groups. They can also assign devices to an existing group depending on the device attributes such as subnet, time zone, and location.

You can also configure the following:

- Settings or policies that apply to all devices in the tenant account which are set at the Default Policy group. These settings and policies are the global set of parameters that all groups and subgroups inherit from.
- Settings or parameters that are configured at lower-level groups take precedence over the settings that were configured at the parent or higher-level groups.
- Parameters that are specific to a particular device which can be configured from the **Device Details** page. These parameters, like lower-level groups, take precedence over the settings configured in the higher-level groups.




Configuration parameters are deployed to all devices in that group and all the subgroups, when the administrator creates and publishes the policy.

After a configuration is published and propagated to the devices, the settings are not sent again to the devices until the administrator makes a change. New devices that are registered, receive the configuration policy that is effective for the group to which it was registered. This includes the parameters inherited from the global group and intermediate level groups.

Configuration policies are published immediately, and cannot be scheduled for a later time. Few policy changes, for example, display settings may force a reboot.

**Application**—Application updates can be deployed from the **Apps & Data** tab. Applications are deployed based on the policy groups.

 **NOTE:** Advanced application policy allows you to deploy an application to the current and all subgroups based on your requirement.

Edge Device Manager supports standard and advanced application policies. A standard application policy allows you to install a single application package. Advanced application policies also support execution of pre and post installation scripts that may be needed to install a particular application.

You can configure standard and advanced application policies that can be applied automatically when a device is registered with Edge Device Manager or when a device is moved to a new group.

Deployment of application policies and operating system images to thin clients can be scheduled immediately or later based on the device time zone or any other specified time zone.

**Inventory of devices**—This option can be located by clicking the **Devices** tab. By default, this option displays a paginated list of all the devices in the system. The administrator can choose to view a subset of devices by using various filter criteria, such as groups or subgroups, device type, operating system type, status, subnet, and platform or time zone.

To navigate to the **Device Details** page for that device, click the device entry listed on this page. All the details of the device are displayed.

The **Device Details** page also displays all the configuration parameters that are applicable to that device, and also the group level at which each parameter is applied.

This page also enables the administrators to set configuration parameters that are specific to that device by enabling the **Device Exceptions** button. Parameters configured in this section override any parameters that were configured at the groups and/or global level.

**Reports**—Administrators can generate and view canned reports based on the predefined filters. To generate canned reports, click the **Reports** tab on the **Portal Administration** page

**Mobile application**—Administrator can receive alert notifications and manage devices using mobile application available for the Android devices. To download the mobile application and the quick start guide, click the **Alerts and Classification** tab on the **Portal Administration** page.

## Whats new in this release?

- Windows 10 IoT Enterprise 2016 LTSC support for the following devices:
  - Edge Gateway—5000 Series
  - Embedded PC 3000
  - Embedded PC 5000
- Updated EDM help URL—EDM help has a separate URL which is determined based on the available licenses.
- Advanced application policy
  - Ability to push multiple application packages within single policy.
  - Applies policy to the devices that matches operating system or platform filters; or operating system and platform filters.
  - Supports preinstallation, and postinstallation scripts.
  - Supports auto publish image, and application policies for new devices. The list of the group image, and application policies from the server should be obtained, when a device registers, re-registers, or changes the group.

### ① | **NOTE: This feature is available for the Windows devices.**

- Localization support for French, Italian, German, Simplified Chinese, Japanese, and Spanish in the Wyse Management Suite web console.
- On-premise installer enhancements—The on-premise installer enhancements for the following actions:
  - Option to use existing database that can be installed on a same machine or separate machine as EDM Server.
  - Option to change default ports of all the services.
  - Upgrade support from Edge Device Manager R15.
- Unified Wyse Device Agent—The Unified Wyse Device Agent is a simple and fast installer for windows devices. It is a single agent for thin clients and the IoT devices.
- Groups page enhancement—The User count is removed and if you click the number of devices, it takes you to the devices page with the selected group filter, and if you click the number of noncompliant devices, it takes you to the devices page with the selected group and noncompliance filter.
- Supports BIOS update for the Windows devices—Windows Gateway and Embedded PC BIOS can be updated from the Wyse Management Suite console.
- Performance—EDM R16 is tested with 120,000 devices.

### ① | **NOTE: Administrator must follow the document to configure this environment.**

- Operating system and agent version filters—New filters for operating system and agent versions are added. When a device is registered, the operating system and agent filter are added with the versions.
- MySQL for private cloud—EDM can be installed with MySQL by using the **Custom Installation** option.

### ① | **NOTE: The feature is tested for the version 5.6.37.**

- Heartbeat and check-in-v2—You can configure heartbeat and check-in interval in the **Portal Administration** page. The agents fetches the pending commands post heartbeat configuration. For private cloud, the heartbeat interval ranges from 5–6 hours, and for public cloud ranges from 1–6 hours and the Check-in interval ranges from 8 to 24 hours. The Heartbeat interval is not affected by the device status—offline or online.
- CA Validation for file repository—Private or public cloud of EDM allows CA validation configuration to download files from a remote repository and it is available for all license types. Without this configuration, WDM file repository should have a CA signed certificate or HTTP download must be enabled. It is not applicable for imaging jobs. CA validation affects files which are present only in the file repository only. Downloading the file from WDA server APIs such as EULA, wallpaper, and logo is not affected. A global administrator can turn the CA validation to ON/OFF for each repository from **Portal Administration > File Repository**.
- EDM console page size and filter enhancement—You can configure the size from the server for 10 to 100. It provides an option to save the filter and administrator can make it as default filter.
- Supports **Apply to devices on check-in** option—The Advanced application policies—for pro license has a drop-down **Apply to devices on check-in**, when this option is selected, you can select the maximum number of retries. The Standard application policies for a pro



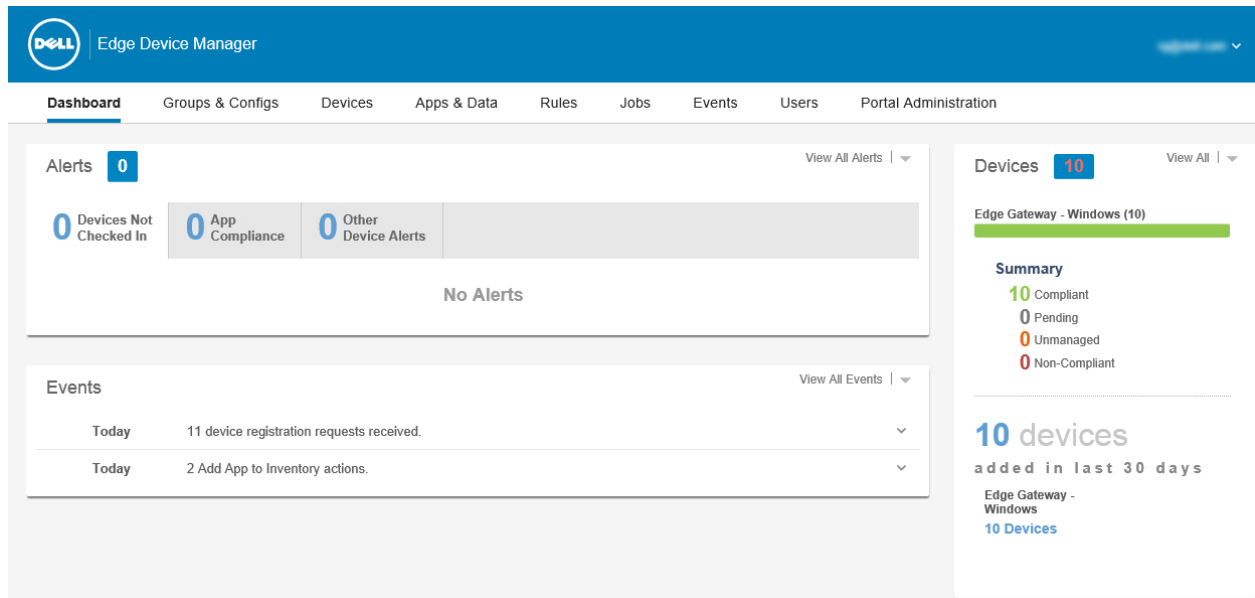
license account also have a drop-down **Apply to devices on check-in**, when this option is selected, you can select the maximum number of retries. If the policy has not been sent, and the maximum number of retries is not exceeded, the policy is sent to the client when they check-in. The policy cannot be edited, but can be deleted. The options **Apply the policy to devices on check-in** and **Apply the policy to new devices** cannot exist together.

- Batch synchronization of BIOS admin and password—EDM system administrator can set the BIOS administrator and password for multiple devices. In the **Jobs** page, **More Actions** drop-down list is added.
- EDM mobile application—The application is updated with the CA validation functionality, and can be registered on a private cloud using a self-signed certificate.



## EDM Dashboard overview

The **Dashboard** page allows you to quickly view important status information about the system and recent events that have been performed within the system. By clicking a link in the Alerts area, you can view details about that item.



**Figure 1. Dashboard**

Links on the **Dashboard** page include:

- **Alerts** This section displays the summary of all the alerts. These alerts allow you to quickly go to functional areas of the system that require your attention. This alert includes details for:
  - Devices Not Checked In
  - App Compliance
  - Other Device Alerts

① **NOTE:** By clicking **View All Alerts**, you can see the list of all the alerts in detail.

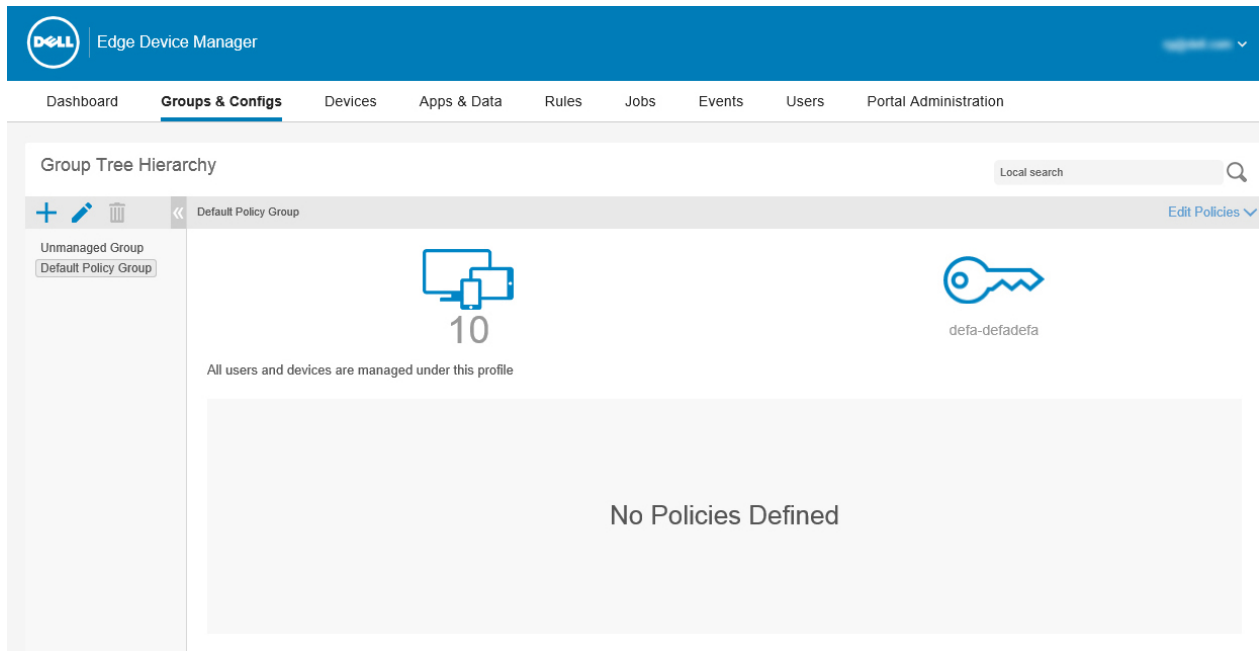
- **Events** This section displays the summary of events happened in the last few days. It also displays the date at which the event has occurred.

① **NOTE:** By clicking **View All Events**, you can see the list of all the events in detail.

- **Devices** This section displays the summary of the details of the devices. It includes the information about how many compliant, pending, unmanaged, and the non-compliant devices registered with EDM.

# Managing group and configs

The **Groups & Configs** page enables you to define policies that are required to configure your devices. You can create sub groups of the global group policy and categorize devices based on your requirements. For example, devices can be grouped based on job functions, device type, and so on.



**Figure 2. Groups & Configs**

For each group, you can define policies for the following device types:

- Edge Gateway
  - Ubuntu Core
  - Windows
- Embedded PC
  - Windows
  - Ubuntu

Devices inherit policies in the order that they are created. The settings configured in a default policy group are applied as default settings in all the policies listed in the **Default Policy Group**. In a group, all users and devices present in that group have **Default Policy Group** as their default setting.

On the **Device Details** page, you can create an exception for a device in the group to have a subset of policies that are different from the group default.

The configuration for a particular asset with details of where configurations are set—Global, Group, and the Device levels—are displayed on the page. The option to create exceptions is available on the page. The **Exception** settings are applicable only for that selected devices.

## NOTE:

- When you modify the lower-level policies, a bullet symbol is displayed next to the policy. This symbol indicates that the policy is an override to a higher-level policy. For example, System Personalization, Networking, Security, and so on.
- When you modify policies, an asterisk (\*) is displayed next to the policy. This symbol indicates that there are unsaved or unpublished changes. To review these changes before publishing them, click the **View pending changes** link.

If a policy configuration has to be prioritized between the different levels, then the lowest-level policy takes precedence.

After you configure the policy settings, thin clients are notified about the changes. Changes take effect immediately after configuring the thin clients.

The policies are enforced in the following precedence:

- Device
- Group
- Global

Topics:

- [Configuring device level policy](#)
- [Configuring group level policy](#)
- [Configuring global level policy](#)
- [Group tree hierarchy](#)
- [Unmanaged group](#)
- [Edge Gateway policy settings](#)
- [Embedded PC policy settings](#)

## Configuring device level policy

To configure a device level policy, do the following:

- 1 In the **Devices** page, click the device you want to configure.  
The **Device Details** page is displayed.
- 2 Click the **Summary** tab.
- 3 In the **Device Configuration** section, click **Create/Edit Exceptions**.

## Configuring group level policy

To configure a group level policy or multilevel group policies, do the following:

- 1 In the **Groups** page, go to a group where you want to configure the policy, and click **Edit Policies**.
- 2 From the drop-down menu, select the device type you want to configure.  
In the left pane, the policy settings of the device type are displayed.
- 3 Click a policy setting and then click **Configure this item**.
- 4 Click **Save and Publish**.

## Configuring global level policy

To configure a global level policy, do the following:

- 1 In the **Groups** page, from the **Edit Policies** drop-down menu, select a device type you want to configure.  
In the left pane, the policy settings of the respective device type are displayed.
- 2 Click the policy setting you want to configure, and then click **Configure this item**.



- 3 Click **Save and Publish**.

## Group tree hierarchy

Group tree hierarchy consists of the following options:

- Add Group
- Edit Group
- Remove Group

## Adding a group

To add a group, complete the following steps:

- 1 On the **Groups** page, in **Group Tree Hierarchy**, click the **+** icon.
- 2 On the **Add New Group(s)** dialog box, enter the group information such as **Group Name**, **Description**, and the **Parent Group** value is displayed as **Default Policy Group**.

**NOTE:** To change the name and description of a group, use **Active Directory**.

- 3 In the **Registration** tab, in **Group Token**, select the **Enabled** check box.
- 4 Enter the group token.
- 5 In the **Administration** tab, select the group administrator which is managing the group from the available group administrators displayed.
- 6 Click **Save**.

The group is added to the list of available groups on the **Groups** page.

## Editing a group

To edit a group, do the following:

- 1 On the **Groups & Configs** page, in **Group Tree Hierarchy**, click the **Edit Group** icon.
- 2 In the **Editing Default Policy Group** dialog box, edit the group information such as **Group Name** and **Description**.
- 3 In the **Registration** tab, in **Group Token**, select the **Enabled** check box.
- 4 Enter the group token.
- 5 Click **Save**.

## Removing a group

As an administrator, you can remove a group from the group hierarchy. To remove a group, do the following:

- 1 In the **Groups** page, under **Group Tree Hierarchy**, click the **Remove Group** icon.  
A warning message indicating that this action removes one or more groups from the group tree hierarchy is displayed.

**NOTE:** When you remove a group from the group hierarchy, all users and devices that belong to the deleted group are moved to a selected target group.

- 2 Click **Remove Group**.



# Unmanaged group

Devices that belong to the unmanaged group do not use licenses or receive configuration or application-based policies. To add devices to an unmanaged group, use the unmanaged group device registration key as part of auto registration or manual device registration.

To configure an unmanaged group, do the following:

- 1 Click **Edit group**.  
The **Editing Unmanaged Group** page is displayed.  
The following options are displayed on the page:
  - **Group Name**—Displays the name of the group.
  - **Description**—Displays a brief description of the group.
  - **Group Token**—Select this option to enable group token.
- 2 Click **Save**.

 **NOTE:** For a public cloud, the group token for an unmanaged group must be enabled to register devices to it. For a private cloud, the group token for an unmanaged group is automatically enabled.

## Edge Gateway policy settings

Use this section to configure the Edge Gateway policy settings for the Ubuntu Core and Windows devices.

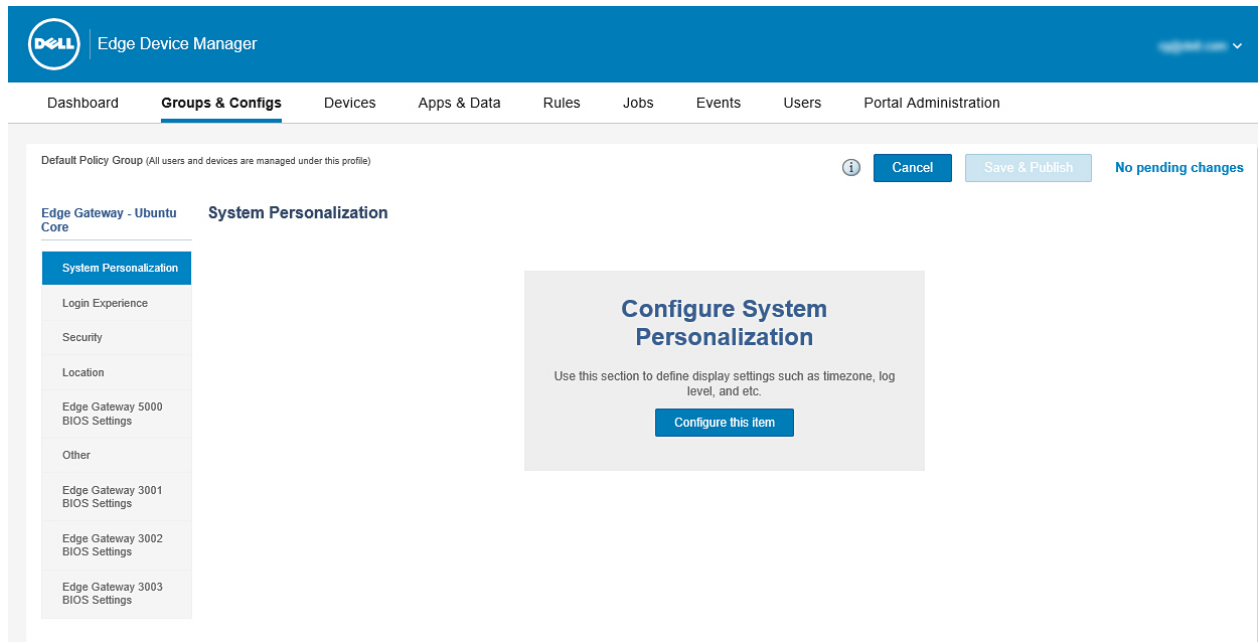
- [Configuring Ubuntu Core policy settings](#)
- [Configuring Windows policy settings](#)

## Configuring Ubuntu Core policy settings

To configure the policy settings for the Ubuntu Core device, do the following:

- 1 Select a group, and then click **Edit Policies**.
- 2 Click **Ubuntu Core**.





**Figure 3. Ubuntu Core**

3 After configuring the options, click **Save & Publish**.

The Ubuntu Core edge gateway policy settings include the following options:

- System Personalization
- Login Experience
- Security
- Location
- Edge Gateway 5000 BIOS Settings
- Other
- Edge Gateway 3001 BIOS Settings
- Edge Gateway 3002 BIOS Settings
- Edge Gateway 3003 BIOS Settings

## System personalization

Use this page to set the time zone name, log level, and device owner.

**Table 2. System personalization**


Parameter	Description
Time Zone Name	From the drop-down list, select the appropriate time zone.
Log Level	<p>From the drop-down list, select your preferred log level. The available options are:</p> <ul style="list-style-type: none"> <li>• Trace</li> <li>• Debug</li> <li>• Info</li> <li>• Error</li> <li>• Critical</li> <li>• Log Always</li> </ul>

Parameter	Description
	<ul style="list-style-type: none"> <li>Warning</li> </ul>
Owner	Specifies the device owner.

## Login experience

Use this section to define the operating system administrator password.


**Table 3. Login experience**

Parameter	Description
OS Admin Password	<p>Use this option to specify a new password for the admin user. By default, the password is set as Ubuntu.</p> <p> <b>IMPORTANT: The OS Admin Password field cannot be left blank.</b></p>

## Security

Use this section to define security settings such as port configuration, SSH, and others.

**Table 4. Security settings**

Parameter	Description
Disable SSH	<p>Select the check box to disable the SSH connection on the edge gateway device.</p> <p> <b>WARNING: If SSH is disabled, you cannot log in or connect to headless device.</b></p>
Deactivate WebDM/snapweb	<p>Select the check box to uninstall the Web Device Manager (WebDM) or snapweb. WebDM is a web-based management interface to your Ubuntu Core device that allows you to configure, and install package.</p>

## Location

Use this page to configure edge gateway device location settings such as floor, building, campus, and so on.

**Table 5. Location**

Parameter	Description
Floor	Specifies the floor where your device is located.
Building	Specifies the building where your device is located.
Campus	Specifies the campus where your device is located.
Formatted Address	Specifies the formatted address where your device is located.
Street Address Line One	Specifies the street address line one where your device is located.
Street Address Line Two	Specifies the street address line two where your device is located.
City	Specifies the city where your device is located.
Zip Code	Specifies the zip code of the city where your device is located.



Parameter	Description
Country	Specifies the country where your device is located.

## Edge Gateway 5000 BIOS settings

Use this page to define Edge Gateway 5000 BIOS settings.

**Table 6. General settings**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 7. System configuration**

Parameter	Description
Integrated NIC	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the operating system—only if it does not have an IP.</li> <li>Force Disabled—The internal LAN is disabled and not visible to the operating system—even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul> <p><b>NOTE: The EDM connectivity is lost, if you disable both integrated NIC and integrated NIC 2.</b></p>
Integrated NIC2	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the operating system—only if it does not have an IP address.</li> <li>Force Disabled—The internal LAN is disabled and not visible to the operating system even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> </ul>
SMART Reporting	Select the check box to control the reporting of hard drive errors for integrated drivers during system startup.
Serial Port 1 RS232	Select the check box to determine how the built-in serial port operates. It avoids resource conflicts between the devices by disabling or remapping the address of the port. This port is at 2D0h with IRQ 7.
Serial Port 2 RS422	Select the check box to determine how the built-in serial port operates. It avoids resource conflicts between the devices by disabling or remapping the address of the port. This port is at 3E0h with IRQ 10.
Serial Port 3 RS485	Select the check box to determine how the built-in serial port operates. It avoids resource conflicts between the devices by disabling or remapping the address of the port. This port is at 2E0h with IRQ 11.
Serial Port 4 RS485	Select the check box to determine how the built-in serial port operates. It avoids resource conflicts between the devices by disabling or remapping the address of the port. This port is at 3E8h with IRQ 10.

Parameter	Description
Enable UEFI Network Stack	Select the check box to install or make available the UEFI Networking protocols, allowing pre-operating system and early operating system networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the watchdog timer feature.
WLAN Region Code	<p>From the drop-down list, select the WLAN region code. The available options are:</p> <ul style="list-style-type: none"> <li>• Rest Of World</li> <li>• North America (FCC)</li> <li>• Europe</li> <li>• Japan</li> <li>• Australia</li> <li>• Chin and South Asia</li> <li>• Taiwan</li> <li>• Indonesia</li> </ul>

**Table 8. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select the check box to enable the device attached to this port and make available to the operating system. If USB port is disabled, operating system cannot see any device attached to this port.
Enable Top USB Port1	Select the check box to enable the device attached to this port and make available to the operating system. If USB port is disabled, operating system cannot see any device attached to this port.
Enable Top USB Port2	Select the check box to enable the device attached to this port and make available to the operating system. If USB port is disabled, operating system cannot see any device attached to this port.
Enable Bottom USB Port3	Select the check box to enable the device attached to this port and make available to the operating system. If USB port is disabled, operating system cannot see any device attached to this port.
Enable USB Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, and floppy. USB-aware operating system always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 9. Wireless settings**

Parameter	Description
Enable WWAN	Select the check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select the check box to enable Wireless Local Area Network (WLAN).
Enable Bluetooth	Select the check box to enable Bluetooth.
Enable CANBus	Select the check box to enable CANBus.



**Table 10. Security settings**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering setup when the administrator password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Reports intrusions during POST.</li> <li>• On-Silent—Enables intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select the check box to control the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update, and Linux Vendor Firmware Service (LVFS).

**Table 11. BIOS Admin Password setting**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. The successful change to this password takes effect immediately.

**Table 12. Power Management settings**

Parameter	Description
AC Recovery	From the drop-down list, select an option to specify how the system should behave when AC power restored after an AC power loss. The available options are: <ul style="list-style-type: none"> <li>• Power Off</li> <li>• Power On</li> <li>• Last Power State</li> </ul>
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal. The available options are: <ul style="list-style-type: none"> <li>• Disable</li> <li>• LAN Only</li> </ul>

**Table 13. Auto On settings**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically. The available options are: <ul style="list-style-type: none"> <li>• Disable</li> <li>• Every Day</li> <li>• Weekdays</li> </ul>

Parameter	Description
	<ul style="list-style-type: none"> <li>Select Days</li> </ul>

**Table 14. POST Behavior settings**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	<p>From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are:</p> <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	<p>From the drop-down list, select an option to create an extra preboot delay which allows you to see POST status messages. The available options are:</p> <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 15. Maintenance settings**

Parameter	Description
BIOS Recovery—from Hard Drive	Select the check box to enable you to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 16. Reboot Schedule setting**

Parameter	Description
Reboot Option	<p>Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, you can select any of the following options:</p> <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>



## Other settings

Use this page to configure auto-pilot and firmware updates. You can update the operating system, BIOS, and applications after they are available in the Canonical/Dell store. By default, the options are enabled.

**Table 17. Other settings**

Parameter	Description
Enable Firmware Auto Update	Select the check box, if you want to enable automatic update.
Enable Auto-Pilot	Select the check box, if you want to enable the auto-pilot feature.

## Edge Gateway 3001 BIOS settings

Use this page to define Edge Gateway 3001 BIOS settings.

**Table 18. General settings**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 19. System Configuration**

Parameter	Description
Integrated NIC	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"><li>• Disabled—The internal LAN is off and not visible to the OS.</li><li>• Force Disabled—The internal LAN is off and not visible to the OS even if it has an IP address.</li><li>• Enabled—The internal LAN is enabled.</li><li>• Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE), boot.</li></ul>
Enable UEFI Network Stack	Select the check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the Watchdog Timer feature.

**Table 20. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 1	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 2	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.



Parameter	Description
Enable Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 21. Wireless settings**

Parameter	Description
Enable WWAN	Select the check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select the check box to enable Wireless Local Area Network (WLAN).

**Table 22. Security**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering Setup when the Admin password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you if someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select the check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 23. BIOS Admin Password settings**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 24. Power Management settings**

Parameter	Description
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.



**Table 25. Auto On settings**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.

**Table 26. POST Behavior settings**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 27. Maintenance settings**

Parameter	Description
BIOS Recovery—from Hard Drive	Select the check box to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 28. Reboot Schedule**

Parameter	Description
Reboot Option	Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options: <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

# Edge Gateway 3002 BIOS settings

Use this page to define Edge Gateway 3002 BIOS settings.

**Table 29. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 30. System Configuration**

Parameter	Description
Integrated NIC	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"><li>• Disabled—The internal LAN is off and not visible to the OS.</li><li>• Force Disabled—The internal LAN is off and not visible to the OS even if it has an IP address.</li><li>• Enabled—The internal LAN is enabled.</li><li>• Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li></ul>
Integrated NIC 2	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"><li>• Disabled—The internal LAN is off and not visible to the OS.</li><li>• Force Disabled—The internal LAN is off and not visible to the OS even if it has an IP address.</li><li>• Enabled—The internal LAN is enabled.</li></ul>
Enable UEFI Network Stack	Select the check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the Watchdog Timer feature.

**Table 31. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 1	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 2	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.



**Table 32. Wireless**

Parameter	Description
Enable WWAN	Select the check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select the check box to enable Wireless Local Area Network (WLAN).

**Table 33. Security**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering a setup when the administrator password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you if someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select the check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 34. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 35. Power Management settings**

Parameter	Description
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.

**Table 36. Auto On settings**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.

**Table 37. POST Behavior settings**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 38. Maintenance settings**

Parameter	Description
BIOS Recovery—from Hard Drive	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 39. Reboot Schedule**

Parameter	Description
Reboot Option	Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options: <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

## Edge Gateway 3003 BIOS settings

Use this page to define Edge Gateway 3003 BIOS settings.

**Table 40. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.



**Table 41. System Configuration**

Parameter	Description
Integrated NIC	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
Integrated NIC 2	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> </ul>
Enable UEFI Network Stack	Select the check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the Watchdog Timer feature.

**Table 42. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 1	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 2	Select the check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 43. Wireless**

Parameter	Description
Enable WWAN	Select the check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select the check box to enable Wireless Local Area Network (WLAN).
Enable Bluetooth	Select the check box to enable Bluetooth.

Parameter	Description
Enable CANBus	Select the check box to enable CAN Bus.

**Table 44. Security**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering Setup when the Admin password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell your someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select the check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 45. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 46. Power Management**

Parameter	Description
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.

**Table 47. Auto On**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.

**Table 48. POST Behavior**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are:



Parameter	Description
	<ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	<p>From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are:</p> <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 49. Maintenance**

Parameter	Description
BIOS Recovery—from Hard Drive	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 50. Reboot Schedule**

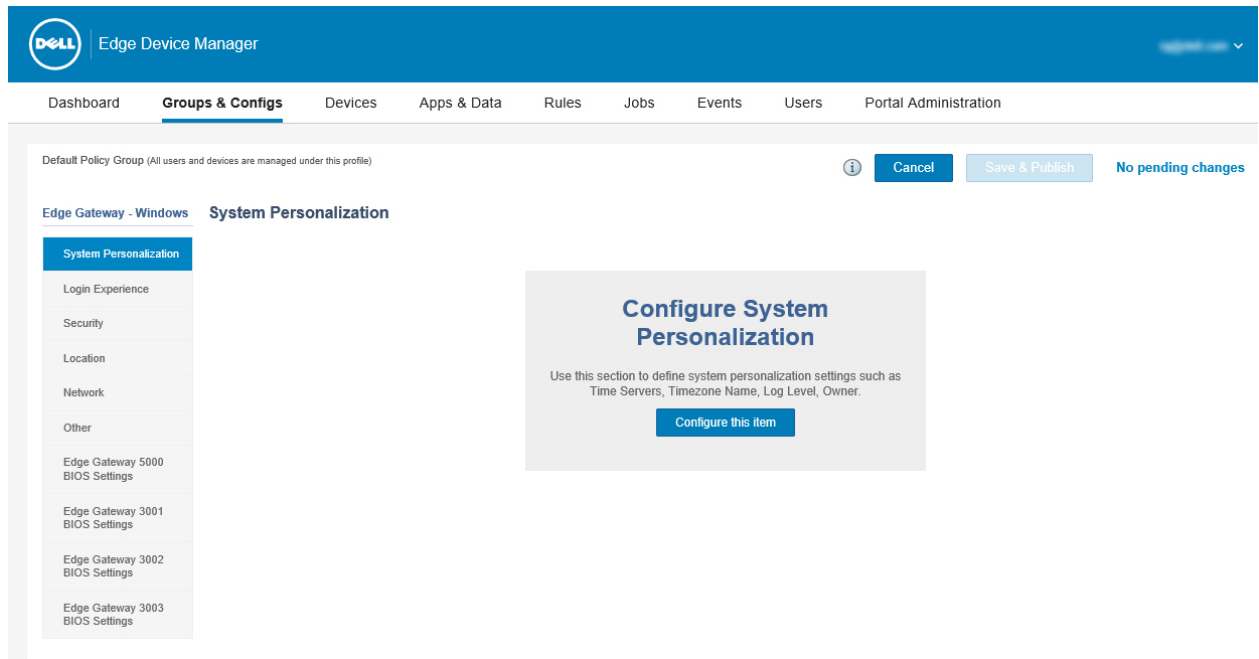
Parameter	Description
Reboot Option	<p>Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options:</p> <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

## Configuring Windows policy settings

To configure the policy settings for the Windows device, do the following:

- 1 Select a group, and then click **Edit Policies**.
- 2 Click **Windows**.





**Figure 4. Edge Gateway-Windows**

3 After configuring the options, click **Save & Publish**.

The Windows edge gateway policy settings include the following options:

- System Personalization
- Login Experience
- Security
- Location
- Other
- Edge Gateway 5000 BIOS Settings
- Edge Gateway 3001 BIOS Settings
- Edge Gateway 3002 BIOS Settings
- Edge Gateway 3003 BIOS Settings

## System personalization

Use this page to configure the Edge Gateway device settings such as time servers, time zone name, log level, and device owner.

**Table 51. System personalization**

Parameter	Description
Time Servers (NTP Servers)	Enter the time servers to synchronize local time. Use comma separated list format.
Timezone Name	Select your appropriate time zone from the available time zones in the drop-down list.
Log Level	From the drop-down list, select your preferred log level. The available options are: <ul style="list-style-type: none"> <li>• Info</li> <li>• Trace</li> </ul>

Parameter	Description
	<ul style="list-style-type: none"> <li>• Debug</li> <li>• Warning</li> <li>• Error</li> <li>• Critical</li> <li>• Log Always</li> </ul>
Owner	Specifies the owner of the Edge Gateway device.

## Login Experience

Use this section to define the OS admin credentials.

**Table 52. Login experience**

Parameter	Description
OS Admin Credentials	Allows you to specify the administrator username and password for the OS

Click **Add Item** to enter the **OS Admin Username**, and the **OS Admin Password**.

## Security

Use this section to configure security settings for the Windows devices.

**Table 53. Security**

Parameters	Description
Enable Remote Access	Select the check box to enable the remote connection on the Edge Gateway device.
Allow only remote Desktop with Network Level Authentication	Select the check box to allow the desktops with only network level authentication on the Edge Gateway device.

## Location

Use this page to configure location settings such as floor, building, campus, and so on.

**Table 54. Location**

Parameter	Description
Floor	Specifies the floor where your device is located.
Building	Specifies the Building where your device is located.
Campus	Specifies the campus where your device is located.
Formatted Address	Specifies the formatted address where your device is located.
Street Address Line One	Specifies the Street address where your device is located.
Street Address Line Two	Specifies the Street address where your device is located.
City	Specifies the city where your device is located.
Zip Code	Specifies the zip code of the city where your device is located.

Parameter	Description
Country	Specifies the country where your device is located.

## Network

Use this page to customize the network configurations for the Edge Gateway Windows devices.

**Table 55. Network**

Parameter	Description
Radio State	To change the wireless radio state, select the check box.
Windows Wireless Profiles	From the drop-down list, select your preferred windows wireless profiles. Only Windows wireless profiles uploaded to the <b>File Repository</b> are listed.

## Other settings

Use this page to specify more customizations like Windows/firmware autoupdate for Edge Gateway Windows.

**Table 56. Other settings**

Parameter	Description
Enable Windows Auto Update	Select the check box to enable the Windows automatic update feature.

## Edge Gateway 5000 BIOS settings

Use this page to define Edge Gateway 5000 BIOS settings.

**Table 57. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 58. System Configuration**

Parameter	Description
Integrated NIC	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is disabled and not visible to the OS even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
Integrated NIC 2	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is disabled and not visible to the OS even if it has an IP address.</li> </ul>



Parameter	Description
	<ul style="list-style-type: none"> <li>Enabled—The internal LAN is enabled.</li> </ul>
SMART Reporting	Select this check box to control the reporting of hard drive errors for integrated drivers during system startup.
Serial Port 1 RS232	Select this check box to determine how the built-in serial port operates. It lets you avoid resource conflicts between devices by disabling or remapping the address of the port. This port is at 2D0h with IRQ 7.
Serial Port 2 RS422	Select this check box to determine how the built-in serial port operates. It lets you avoid resource conflicts between devices by disabling or remapping the address of the port. This port is at 3E0h with IRQ 10.
Serial Port 3 RS485	Select this check box to determine how the built-in serial port operates. It lets you avoid resource conflicts between devices by disabling or remapping the address of the port. This port is at 2E0h with IRQ 11.
Serial Port 4 RS485	Select this check box to determine how the built-in serial port operates. It lets you avoid resource conflicts between devices by disabling or remapping the address of the port. This port is at 3E8h with IRQ 10.
Enable UEFI Network Stack	Select this check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select this check box to enable the Watchdog Timer feature.
WLAN Region Code	From the drop-down list, select the WLAN region code.

**Table 59. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 1	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 2	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Bottom USB Port 3	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Boot Support	Select this check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 60. Wireless**

Parameter	Description
Enable WWAN	Select this check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select this check box to enable Wireless Local Area Network (WLAN).
Enable Bluetooth	Select this check box to enable Bluetooth.
Enable CANBus	Select this check box to enable CAN Bus.

**Table 61. Security**

Parameter	Description
Admin Setup Lockout	Select this check box to prevent users from entering Setup when the Admin password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select this check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 62. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select this check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 63. Power Management**

Parameter	Description
AC Recovery	From the drop-down list, select an option to specify how the system behaves when AC power restored after an AC power loss. The available options are: <ul style="list-style-type: none"> <li>• Power Off</li> <li>• Power On</li> <li>• Last Power State</li> </ul>
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.

**Table 64. Auto On**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.

**Table 65. POST Behavior**

Parameter	Description
Numlock LED	Select this check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select this check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 66. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 67. Reboot Schedule**

Parameter	Description
Reboot Option	Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options: <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

# Edge Gateway 3001 BIOS settings

Use this page to define Edge Gateway 3001 BIOS settings such as Wake-On-LAN, Auto-On, and Admin Password.

**Table 68. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 69. System Configuration**

Parameter	Description
Integrated NIC	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"><li>• Disabled—The internal LAN is off and not visible to the OS.</li><li>• Force Disabled—The internal LAN is off and not visible to the OS even if it has an IP address.</li><li>• Enabled—The internal LAN is enabled.</li><li>• Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li></ul>
Enable UEFI Network Stack	Select this check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select this check box to enable the Watchdog Timer feature.

**Table 70. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Port 1	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Port 2	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Boot Support	Select this check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.



**Table 71. Wireless**

Parameter	Description
Enable WWAN	Select this check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select this check box to enable Wireless Local Area Network (WLAN).

**Table 72. Security**

Parameter	Description
Admin Setup Lockout	Select this check box to prevent users from entering a setup when the administrator password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select this check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 73. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select this check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 74. Power Management**

Parameter	Description
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.

**Table 75. Auto On**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.



**Table 76. POST Behavior**

Parameter	Description
Numlock LED	Select this check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select this check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 77. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 78. Reboot Schedule**

Parameter	Description
Reboot Option	Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options: <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

## Edge Gateway 3002 BIOS settings

Use this page to define Edge Gateway 3002 BIOS settings such as Wake-On-LAN, Auto-On, and Admin Password.

**Table 79. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.



**Table 80. System Configuration**

Parameter	Description
Integrated NIC	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is disabled and not visible to the OS even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
Integrated NIC2	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is disabled and not visible to the OS even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> </ul>
Enable UEFI Network Stack	Select this check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select this check box to enable the Watchdog Timer feature.

**Table 81. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Port 1	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Port 2	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Boot Support	Select this check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 82. Wireless**

Parameter	Description
Enable WWAN	Select this check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select this check box to enable Wireless Local Area Network (WLAN).

**Table 83. Security**

Parameter	Description
Admin Setup Lockout	Select this check box to prevent users from entering Setup when the Admin password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select this check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 84. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select this check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 85. Power Management**

Parameter	Description
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.

**Table 86. Auto On**

Parameter	Description
Auto On Time	From the drop-down list, set the time of day when you would like the system to turn on automatically.

**Table 87. POST Behavior**

Parameter	Description
Numlock LED	Select this check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select this check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>• Minimal</li> <li>• Thorough</li> </ul>



Parameter	Description
	<ul style="list-style-type: none"> <li>Auto</li> </ul>
Extend BIOS POST Time	<p>From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are:</p> <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 88. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 89. Reboot Schedule**

Parameter	Description
Reboot Option	<p>Some BIOS settings require system reboot. When “Reboot later” is selected, devices reboot when the current time matches the set time. From the drop-down list, you can select any of the following options:</p> <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

## Edge Gateway 3003 BIOS settings

Use this page to define Edge Gateway 3003 BIOS settings such as Wake-On-LAN, Auto-On, and Admin Password.

**Table 90. General settings**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 91. System Configuration**

Parameter	Description
Integrated NIC 1	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is disabled and not visible to the OS even if it has an IP address.</li> <li>Enabled—The internal LAN is enabled.</li> </ul>

Parameter	Description
	<ul style="list-style-type: none"> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
Integrated NIC2	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled — The internal LAN is off and not visible to the OS.</li> <li>Force Disabled — The internal LAN is disabled and not visible to the OS even if it has an IP address.</li> <li>Enabled — The internal LAN is enabled.</li> </ul>
Enable UEFI Network Stack	Select this check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select this check box to enable the Watchdog Timer feature.

**Table 92. USB Configuration**

Parameter	Description
Enable USB 3.0 Ports	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 1	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable Top USB Port 2	Select this check box to enable the device attached to this port. The device is also made available to the OS. If USB port is disabled, OS cannot see any device attached to this port.
Enable USB Boot Support	Select this check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 93. Wireless**

Parameter	Description
Enable WWAN	Select this check box to enable Wireless Wide Area Network (WWAN).
Enable WLAN	Select this check box to enable Wireless Local Area Network (WLAN).

**Table 94. Security**

Parameter	Description
Admin Setup Lockout	Select this check box to prevent users from entering Setup when the Admin password is set.
Chassis Intrusion	<p>Chassis Intrusion is a utility that the BIOS can use to tell your someone has opened the case. From the drop-down list, you can select any of the following options:</p> <ul style="list-style-type: none"> <li>Disable—Disable chassis intrusion feature.</li> </ul>



Parameter	Description
	<ul style="list-style-type: none"> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select this check-box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 95. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select this check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 96. Power Management**

Parameter	Description
Wake On LAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.

**Table 97. Auto On**

Parameter	Description
Auto On Time	From the drop-down list, set the time of day when you would like the system to turn on automatically.

**Table 98. POST Behavior**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	<p>From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are:</p> <ul style="list-style-type: none"> <li>• Minimal</li> <li>• Thorough</li> <li>• Auto</li> </ul>
Extend BIOS POST Time	<p>From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are:</p> <ul style="list-style-type: none"> <li>• 0 seconds</li> <li>• 5 seconds</li> <li>• 10 seconds</li> </ul>

**Table 99. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select the check box to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 100. Reboot Schedule**

Parameter	Description
Reboot Option	Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options: <ul style="list-style-type: none"><li>• Reboot immediately</li><li>• Reboot later</li><li>• Do not reboot.</li></ul>

## Embedded PC policy settings

This section describes about the Embedded PC policy settings for the Windows and Ubuntu devices.

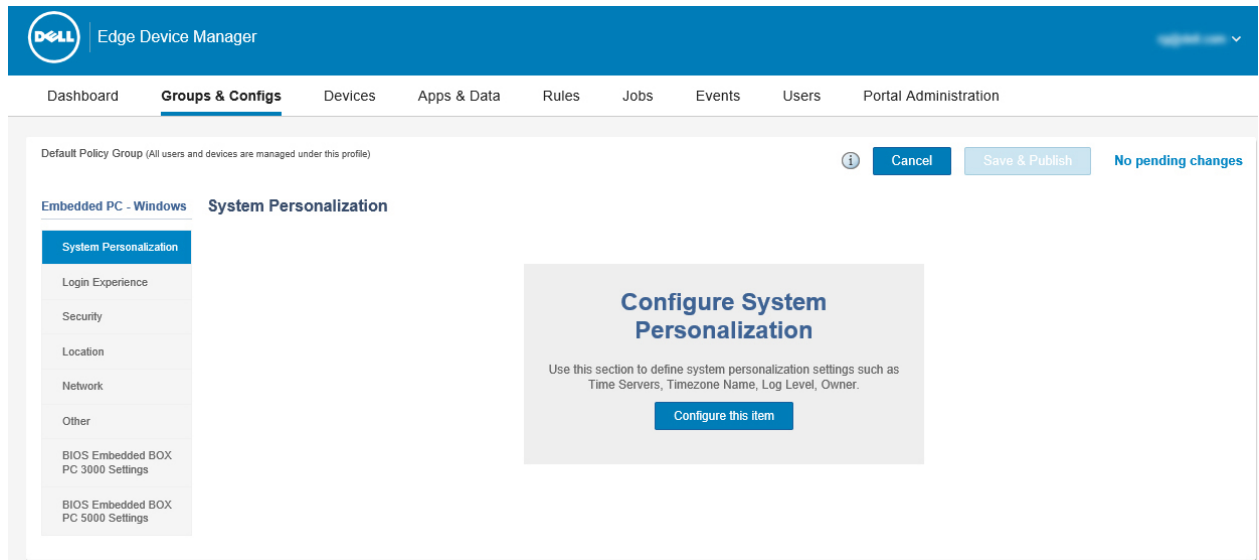
- [Configuring Embedded PC—Windows policy settings](#)
- [Configuring Embedded PC—Ubuntu policy settings](#)

## Configuring Embedded PC—Windows policy settings

To configure the policy settings for the Embedded PC—Windows device, do the following:

- 1 Select a group, and click **Edit Policies**.
- 2 Under **Embedded PC**, click **Windows**
- 3 After configuring the options, click **Save & Publish**.





**Figure 5. Embedded PC—Windows**

The Windows Embedded PC policy settings include the following options:

- System personalization
- Login experience
- Security
- Location
- Network
- Other
- BIOS
- Embedded Box PC 3000

## System Personalization

Use this page to define system personalization settings such as time servers, time zone name, log level, and owner.

**Table 101. System Personalization**

Parameter	Description
Time Servers (NTP Servers)	Enter the time servers to synchronize local time. Use comma separated list format.
Timezone Name	Select your appropriate time zone from the available time zones in the drop-down list.
Log Level	From the drop-down list, select your preferred log level. The available options are: <ul style="list-style-type: none"> <li>• Info</li> <li>• Trace</li> <li>• Debug</li> <li>• Warning</li> <li>• Error</li> <li>• Critical</li> <li>• Log Always</li> </ul>



Parameter	Description
Owner	Specifies the device owner.

## Login Experience

Use this section to define the OS admin credentials.

**Table 102. Login Experience**

Parameter	Description
OS Admin Credentials	Specifies the admin username, and password for the OS

By clicking **Add Item**, you can enter the **OS Admin Username**, and the **OS Admin Password**.

## Security

Use this section to configure security settings for the Windows devices.

**Table 103. Security**

Parameter	Description
Enable Remote Access	Select the check box to enable remote access to the system.

## Location

Use this page to configure location settings such as floor, building number, and so on.

**Table 104. Location**

Parameter	Description
Floor	Specifies the floor where your device is located.
Campus	Specifies the campus where your device is located.
Building	Specifies the building where your device is located.
Formatted Address	Specifies the formatted address where your device is located.
Street Address Line One	Specifies the street address where your device is located.
Street Address Line Two	Specifies the street address where your device is located.
City	Specifies the city where your device is located.
Zip Code	Specifies the zip code of the city where your device is located.
Country	Specifies the country where your device is located.



## Network

Use this page to customize the network configurations like radio state, and manage wireless profiles for the Embedded PC—Windows devices.

**Table 105. Network**

Parameter	Description
Radio State	Select the check box to change the wireless radio state.
Windows Wireless Profiles	From the drop-down list, select your preferred windows wireless profiles. Only Windows wireless profiles uploaded to <b>File Repository</b> are listed.

## Other

Use this page to specify more customizations like Windows/firmware auto-update for the Embedded PC—Windows devices.

**Table 106. Other settings**

Parameter	Description
Enable Windows Auto Update	Select the check box to enable the Windows automatic update feature.

## BIOS Embedded BOX PC 3000 settings

Use this section to define BIOS settings such as Wake-On-LAN, auto-on, admin password, and so on.

**Table 107. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 108. System Configuration**

Parameter	Description
COM1—COM3	Select the option from the drop-down list. This option determines how the built-in port operates. It avoids resource conflicts between devices by disabling or remapping the address of the port.
Integrated NIC	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"><li>• Disabled—The internal LAN is off and not visible to the OS.</li><li>• Force Disabled—The internal LAN is off and not visible to the OS.</li><li>• Enabled—The internal LAN is enabled.</li><li>• Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li></ul> <p><b>NOTE:</b> The device may lose connectivity with WMS, if you disable both integrated NIC and integrated NIC 2.</p>
Integrated NIC 2	From the drop-down list, select an option to control the on-board LAN controller. The available options are:

Parameter	Description
	<ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with PXE boot.</li> </ul> <p><b>NOTE:</b> The device may lose connectivity with WMS, if you disable both integrated NIC and integrated NIC 2.</p>
SMART Reporting	Select the check box to control the reporting of hard drive errors for integrated drivers during system startup.
Enable UEFI Network Stack	Select the check box to install or make available the UEFI networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the watchdog timer feature.
Audio	Select the check box to enable the integrated audio controller and clear the <b>Audio</b> check box to completely disable audio controller, including microphone.
Microphone	Select the Check box to enable the microphone.
Watchdog Timer Support	Select the check box to enable the watchdog timer feature.
WLAN Region Code	Select the WLAN region code from the drop-down list.

**Table 109. USB Configuration**

Parameter	Description
Front USB Ports	Select the check box. If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
USB 2.0 Ports	Select the check box. If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
Enable USB Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 110. Miscellaneous Devices**

Parameter	Description
Enable WWAN/Bluetooth/CANBus	Select the check box to enable WWAN, Bluetooth, and CANBus.
Enable WLAN	Select the check box to enable WLAN.

**Table 111. Security**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering the setup when the Admin password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable — Disable chassis intrusion feature.</li> <li>• Enable — Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select the check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 112. Power Management**

Parameter	Description
AC Recovery	Select the Power state from the drop-down list. This option specifies the system's behavior when AC power is restored after an AC loss.
Wake On LAN / WLAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.
Block Sleep	If enabled, it blocks the system from entering to the sleep environment. The Intel Rapid start is disabled automatically, and the OS power option is blank if it was set to sleep.
USB Wake Support	Select the check box to enable the USB devices to wake the system by standby.

**Table 113. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. Successful change to this password takes effect immediately.

**Table 114. Auto On**

Parameter	Description
Auto On Time	From the drop-down list, set the time of day when you would like the system to turn on automatically.

**Table 115. POST Behavior**

Parameter	Description
Numlock LED	Select this check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select this check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 116. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 117. Reboot Schedule**

Parameter	Description
Reboot Option	Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

## BIOS Embedded BOX PC 5000 settings

**Table 118. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.



**Table 119. System Configuration**

Parameter	Description
Serial Port 1—Serial Port 4	Select the option from the drop-down list. This option determines how the built-in serial port operates. It avoids resource conflicts between devices by disabling or remapping the address of the port.
Integrated NIC	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
Integrated NIC 2	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
SMART Reporting	Select the check box to control the reporting of hard drive errors for integrated drivers during system startup.
Enable UEFI Network Stack	Select the check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the watchdog timer feature.
Audio	Select the check box to enable the integrated audio controller and clear the Audio check box to completely disable audio controller, including microphone.
Microphone	Select the check box to enable the microphone.
WLAN Region Code	Select the WLAN Region code from the drop-down list.

**Table 120. USB Configuration**

Parameter	Description
Top Port 1– Top Port 4	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
Bottom Port 1—Bottom Port 2	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
CANBus/WWAN/Bluetooth/Bottom USB Port 3 and 4	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
Enable USB Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS

Parameter	Description
	always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 121. Security**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering setup when the Admin password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the BIOS can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select this check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 122. Video**

Parameter	Description
Video Mode	Select the video mode from the drop-down list. The platform supports video output on three of the four video connectors. Video output is always supported on Display Port1 and HDMI. This feature selects video output either on the DisplayPort2 or VGA. When DisplayPort is selected, the video output is available on DisplayPort1, DisplayPort2, and HDMI. When VGA is selected, the video output is available on DisplayPort1, HDMI, and VGA. The final video output availability is also dependent on operating system support and configuration.

**Table 123. Miscellaneous Devices**

Parameter	Description
Enable PCI Riser Module	Select the check box to enable PCI Riser Module.

**Table 124. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 125. Auto On**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.



**Table 126. Performance**

Parameter	Description
Multi Core Support	Select the core support from the drop-down list. This option specifies whether the processor has one or more cores enabled. The performance of some applications improve with the additional cores.
Hyperthread Control (if applicable)	Select the check box to enable HyperThreading in the processor.

**Table 127. POST Behavior**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 128. Power Management**

Parameter	Description
AC Recovery	Select the power state from the drop-down list. This option specifies the system's behavior when AC power is restored after an AC loss.
Wake On LAN / WLAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.
Block Sleep	If enabled, it blocks the system from entering to the sleep environment. The Intel Rapid start is disabled automatically, and the OS power option is blank if it was set to sleep.
USB Wake Support	Select the check box to enable the USB devices to wake the system by standby.



**Table 129. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 130. Wireless**

Parameter	Description
Wireless Device Enable	Select the check box to enable the internal wireless devices.

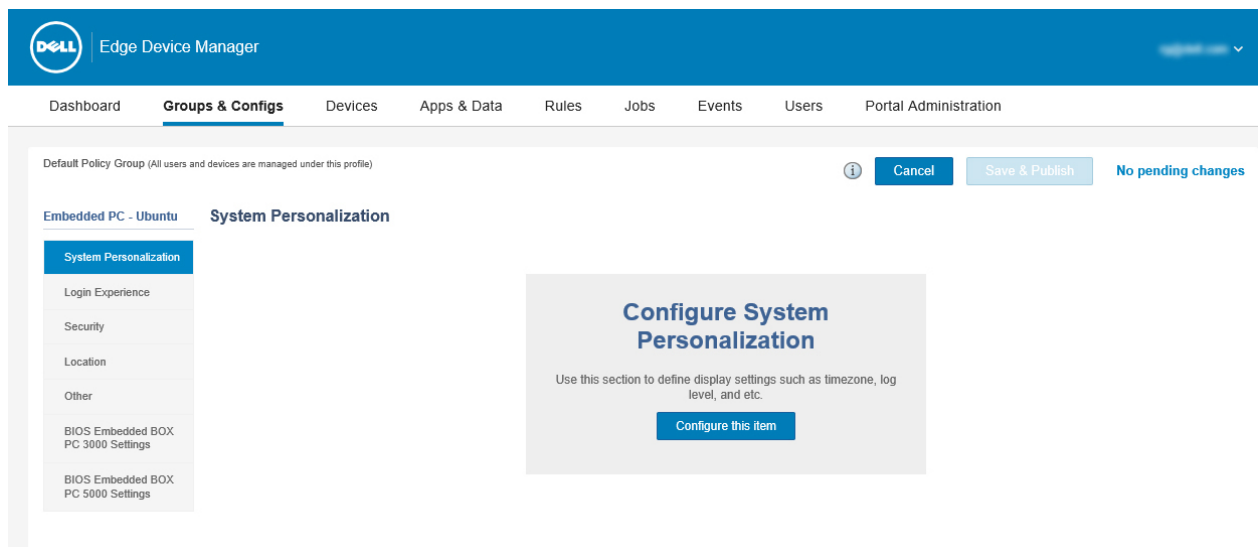
**Table 131. Reboot Schedule**

Parameter	Description
Reboot Option	<p>Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options:</p> <ul style="list-style-type: none"> <li>• Reboot immediately</li> <li>• Reboot later</li> <li>• Do not reboot.</li> </ul>

## Configuring Embedded PC—Ubuntu policy settings

To configure the policy settings for the Embedded PC—Ubuntu device, do the following:

- 1 Select a group, and click **Edit Policies**.
- 2 Under **Embedded PC**, click **Ubuntu**.
- 3 After configuring the options, click **Save & Publish**.



**Figure 6. Embedded PC—Ubuntu**

The Ubuntu Embedded PC policy settings include the following options:



- System Personalization
- Login Experience
- Security
- Location
- Other
- BIOS Embedded BOX PC 3000 Settings
- BIOS Embedded BOX PC 5000 Settings

## System Personalization

Use this page to define system personalization settings such as time zone name, log level, and owner.

**Table 132. System Personalization**

Parameter	Description
Time Zone Name	Select your appropriate time zone from the available time zones in the drop-down list.
Log Level	From the drop-down list, select your preferred log level. The available options are: <ul style="list-style-type: none"> <li>• Info</li> <li>• Trace</li> <li>• Debug</li> <li>• Warning</li> <li>• Error</li> <li>• Critical</li> <li>• Log Always</li> </ul>
Owner	Specifies the device owner.

## Login Experience

Use this section to define the OS admin credentials.

**Table 133. Login Experience settings**

Parameter	Description
OS Admin Password	Specifies the new password for the admin user.

## Security

Use this section to configure security settings for the Ubuntu devices.

**Table 134. Security**

Parameter	Description
Disable SSH	Select the check box to disable the SSH connection on the Edge Gateway device. By default, the SSH is enabled.

## Location

Use this page to configure location settings such as floor, building number, and so on.

**Table 135. Location**

Parameter	Description
Floor	Specifies the floor where your device is located.
Building	Specifies the building where your device is located.
Campus	Specifies the campus where your device is located.
Formatted Address	Specifies the formatted address where your device is located.
Street Address Line One	Specifies the Street address of line where your device is located.
Street Address Line Two	Specifies the Street address of line where your device is located.
City	Specifies the city where your device is located.
Zip Code	Specifies the zip code of the city where your device is located.
Country	Specifies the country where your device is located.

## Other

Use this page to specify more configurations such as enabling auto pilot, and so on.

**Table 136. Other setting**

Parameter	Description
Enable Firmware Auto Update	Select the check box to enable the firmware automatic update feature.

## BIOS Embedded BOX PC 3000 settings

Use this page to define BIOS settings such as Wake-On-LAN, auto-on, admin password, and so on.

**Table 137. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 138. System Configuration**

Parameter	Description
COM1—COM3	Select the option from the drop-down list to determine how the built-in port should operate. It avoids resource conflicts between devices by disabling or remapping the address of the port.
Integrated NIC	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"><li>• Disabled—The internal LAN is off and not visible to the OS.</li><li>• Force Disabled—The internal LAN is off and not visible to the OS.</li></ul>



Parameter	Description
	<ul style="list-style-type: none"> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
Integrated NIC 2	<p>From the drop-down list, select an option to control the on-board LAN controller. The available options are:</p> <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot .</li> </ul>
SMART Reporting	Select the check box to control the reporting of hard drive errors for integrated drivers during system startup.
Enable UEFI Network Stack	Select the check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the Watchdog timer feature.
Audio	Select the check box to enable the integrated audio controller, and clear the <b>Audio</b> check box to completely disable audio controller, including microphone.
Microphone	Select the check box to enable the microphone.
WLAN Region Code	Select the WLAN region code from the drop-down list.

**Table 139. USB Configuration**

Parameter	Description
Front USB Ports	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
USB 2.0 Ports	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
Enable Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices—HDD, memory key, floppy. USB-aware OS always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 140. Miscellaneous Devices**

Parameter	Description
Enable WWAN/Bluetooth/CANBus	Select the check box to enable WWAN, Bluetooth, and CANBus.
Enable WLAN	Select the check box to enable WLAN.

**Table 141. Security**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering Setup when the Admin password is set.
Chassis Intrusion	Chassis Intrusion is a utility that the bios can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options: <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select the check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 142. Power Management**

Parameter	Description
AC Recovery	Select the Power state from the drop-down list. This option specifies the system's behavior when AC power is restored after an AC loss.
Wake On LAN / WLAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.
Block Sleep	If the <b>Block Sleep</b> option is enabled, it blocks the system from entering to the sleep environment. The Intel Rapid start is disabled automatically, and the OS power option is blank if it was set to sleep.
USB Wake Support	Select the check box to enable the USB devices to wake the system by standby.

**Table 143. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 144. Auto On**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.



**Table 145. POST Behavior**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 146. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select the check box to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 147. Reboot Schedule**

Parameter	Description
Reboot Option	Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options: <ul style="list-style-type: none"> <li>Reboot immediately</li> <li>Reboot later</li> <li>Do not reboot.</li> </ul>

## BIOS Embedded BOX PC 5000 settings

**Table 148. General**

Parameter	Description
Device Notes	Enter the device notes such as property ownership tag.

**Table 149. System Configuration**

Parameter	Description
Serial Port 1—Serial Port 4	From the drop-down list, select an option to determine how the built-in serial port should operate. It avoids resource conflicts between devices by disabling or remapping the address of the port.
Integrated NIC	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled—with Preboot Execution Environment (PXE) boot.</li> </ul>
Integrated NIC 2	From the drop-down list, select an option to control the on-board LAN controller. The available options are: <ul style="list-style-type: none"> <li>Disabled—The internal LAN is off and not visible to the OS.</li> <li>Force Disabled—The internal LAN is off and not visible to the OS.</li> <li>Enabled—The internal LAN is enabled.</li> <li>Enabled w/PXE—The internal LAN is enabled (with Preboot Execution Environment (PXE) boot).</li> </ul>
SMART Reporting	Select the check box to control the reporting of hard drive errors for integrated drivers during system startup.
Enable UEFI Network Stack	Select the check box to install or make available the UEFI Networking protocols, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without switching on the PXE.
Watchdog Timer Support	Select the check box to enable the Watchdog timer feature.
Audio	Select the check box to enable the integrated audio controller, and clear the check box to completely disable audio controller, including microphone.
Microphone	Select the check box to enable the microphone.
WLAN Region Code	Select the WLAN Region code from the drop-down list.

**Table 150. USB Configuration**

Parameter	Description
Top Port 1—Top Port 4	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
Bottom Port 1—Bottom Port 2	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
CANBus/WWAN/Bluetooth/Bottom USB Port 3 and 4	If USB Port is enabled, the devices attached to this port are enabled and available for OS and if the USB Port is disabled, the OS cannot see any device attached to this port.
Enable USB Boot Support	Select the check box to allow the system to boot any type of USB Mass Storage Devices (HDD, memory key, floppy). USB-aware OS



Parameter	Description
	always sees USB Mass Storage devices irrespective of this setting, provided the port is enabled.

**Table 151. Video**

Parameter	Description
Video Mode	<p>Select the video mode from the drop-down list.</p> <p>The platform supports video output on three of the four video connectors. Video output is always supported on Display Port1 and HDMI. This feature selects video output either on the DisplayPort2 or VGA. When DisplayPort is selected, the video output is available on DisplayPort1, DisplayPort2, and HDMI. When VGA is selected, the video output is available on DisplayPort1, HDMI, and VGA. The final video output availability is also dependent on operating system support and configuration.</p>

**Table 152. Security**

Parameter	Description
Admin Setup Lockout	Select the check box to prevent users from entering setup when the Admin password is set.
Chassis Intrusion	<p>Chassis Intrusion is a utility that the BIOS can use to tell you that someone has opened the case. From the drop-down list, you can select any of the following options:</p> <ul style="list-style-type: none"> <li>• Disable—Disable chassis intrusion feature.</li> <li>• Enable—Report intrusions during POST.</li> <li>• On-Silent—Enable intrusion detection but does not display any detected intrusion.</li> </ul>
UEFI Capsule Firmware Update	Select the check box to control allowing the BIOS updates through UEFI capsule update packages by the system. Disabling this option blocks the BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).

**Table 153. Miscellaneous Devices**

Parameter	Description
Enable PCI Riser Module	Select the check box to enable PCI Riser Module.

**Table 154. BIOS Admin Password**

Parameter	Description
Enable Admin Password	Select the check box to enable BIOS administrator password. Successful changes to this password take effect immediately.

**Table 155. Auto On**

Parameter	Description
Auto On	From the drop-down list, set the time of day when you would like the system to turn on automatically.



**Table 156. Performance**

Parameter	Description
Multi Core Support	Select the core support from the drop-down list. This option specifies whether the processor has one or more cores enabled. The performance of some applications improves with the additional cores.
Hyperthread Control (if applicable)	Select the check box to enable HyperThreading in the processor.

**Table 157. POST Behavior**

Parameter	Description
Numlock LED	Select the check box to turn on the Numlock LED when the system boots.
Keyboard Errors	Select the check box to report keyboard-related errors when the system boots.
Fastboot	From the drop-down list, select an option to speed up the boot process by bypassing some compatibility steps. The available options are: <ul style="list-style-type: none"> <li>Minimal</li> <li>Thorough</li> <li>Auto</li> </ul>
Extend BIOS POST Time	From the drop-down list, select an option to create an extra preboot delay which allows the user to see POST status messages. The available options are: <ul style="list-style-type: none"> <li>0 seconds</li> <li>5 seconds</li> <li>10 seconds</li> </ul>

**Table 158. Power Management**

Parameter	Description
AC Recovery	Select the power state from the drop-down list. This option specifies the system's behavior when AC power is restored after an AC loss.
Wake On LAN / WLAN	From the drop-down list, select an option to allow the computer to power up from the off state when triggered by a special LAN signal or from the hibernate state when triggered by a special wireless LAN signal.
Block Sleep	If this option is enabled, it blocks the system from entering to the sleep environment. The Intel Rapid start is disabled automatically, and the OS power option is blank if it was set to sleep.
USB Wake Support	Check box to enable the USB devices to wake the system by standby.

**Table 159. Maintenance**

Parameter	Description
BIOS Recovery (from Hard Drive)	Select this option to enable the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key.

**Table 160. Wireless**

Parameter	Description
Wireless Device Enable	This option allows you to enable/disable the internal wireless device

**Table 161. Reboot Schedule**

Parameter	Description
Reboot Option	<p>Some BIOS settings require system reboot. When <b>Reboot later</b> is selected, devices reboot when the current time matches the set time. From the drop-down list, select any of the following options:</p> <ul style="list-style-type: none"><li>• Reboot immediately</li><li>• Reboot later</li><li>• Do not reboot</li></ul>

# Managing Devices

This section describes how to perform a routine device management task by using the management console. To locate the inventory of the devices, click the **Devices** tab. You can view a subset of the devices by using various filter criteria, such as groups or subgroups, device type, operating system type, status, subnet, platform, or time zone.

To view the **Device Details** page of a particular device, click the device entry listed on the page. All the configuration parameters of the device and the group level at which each parameter is applied are displayed on the **Device Details** page.

You can set the configuration parameter that is specific to the device. Parameters configured in this section override any parameters that were configured at the groups and/or at the global level.

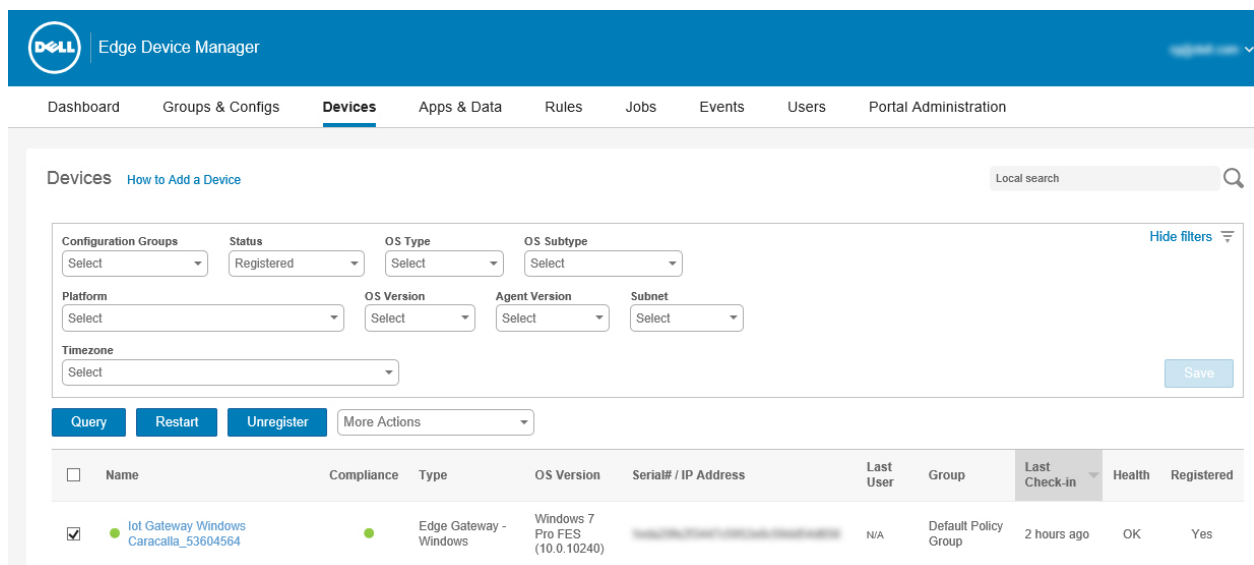


Figure 7. Devices

Topics:

- [Using filters](#)
- [Registering devices into EDM](#)
- [Registering devices by using DNS SRV record](#)
- [Registering devices by using DHCP option tags](#)
- [Registering devices by using USB driver](#)
- [File based registration of devices](#)
- [Viewing and managing device details](#)

## Using filters

You can filter the devices details based on your requirements by using the following filtering options:

- **Configuration Groups**
- **Status**



- **OS Type**
  - **OS Subtype**
  - **Platform**
  - **OS Version**
  - **Agent Version**
  - **Subnet**
  - **Timezone**
- 1 From the **Configuration Groups** drop-down list, select either the default policy group or the groups which are added by an administrator.
  - 2 From the **Status** drop-down list, select any one of the following options:
    - **Registration**
      - Registered
      - Not Registered
      - Compliant
      - Pending
      - Non-Compliant
    - **Online Status**
      - Online
      - Offline
      - Unknown
    - **Others**
      - Recently Added
  - 3 From the **OS Types** drop-down list, select any one of the following operating systems:
    - **Edge Gateway**
      - Ubuntu Core
      - Windows
    - **Embedded PC**
      - Ubuntu
      - Windows
  - 4 From the **OS Subtype** drop-down list, select a subtype for your operating system.
  - 5 From the **Platform** drop-down list, select a platform.
  - 6 From the **OS Version** drop-down list, select the operating system version.
  - 7 From the **Agent Version** drop-down list, select the agent version.
  - 8 From the **Subnet** drop-down list, select a subnet.
  - 9 From the **Timezone** drop-down list, select the time zone.

## Registering devices into EDM

Devices can be registered with EDM by following below methods:

- Register automatically by configuring the appropriate option tags on the DHCP server.
- Register automatically by configuring the appropriate DNS SRV records on the DNS server.
- USB based registration
- File based registration.

## NOTE:

- For public cloud you must register your thin clients by providing Wyse Management Suite URL and the Group Token for the group to which you want to register this device.
- For private cloud you must register your thin clients by providing Wyse Management Suite URL and optionally the Group Token for the group to which you want to register this device. Devices are registered to the Unmanaged Group if the group token is not provided.

# Registering devices by using DNS SRV record

The instructions described in this section mainly focus on DNS SRV record. The DNS record is `_tcp_pcoip-tool` in the domain that the client is configured to communicate with, and the configurations are expected to be done on the DNS server.

- 1 Navigate to **\_tcp** under your domain, right click and then select **Other new records**.
- 2 Select **Service Location (SRV)** from resource record type list.
- 3 Click **Create Record...** option.
- 4 Enter the DNS Discovery with the following tags:
  - **Wyse Management Suite Server URL**
    - DNS Record Type: DNS SRV
    - Record Name: `_WMS_MGMT_tcp.<Domain>`
    - Value Returned: WMS Server URL.  
For example, `_WMS_MGMT_tcp.WDADEV.com`
  - **Group Token**—optional for New Agent and required for Old Agent
    - DNS Record Type: DNS Text
    - Record Name: `_WMS_GROUPTOKEN.<Domain>`
    - Value Returned: Group Token as String.  
For example, `_WMS_GROUPTOKEN.WDADEV.com`
  - **CA Validation**—Optional
    - DNS Record Type: DNS Text
    - Record Name: `_WMS_CAVALIDATION.<Domain>`
    - Value Returned: TRUE or FALSE—as String. CA Validation value is TRUE by default if not mentioned.  
For example, `_WMS_CAVALIDATION.WDADEV.com`

# Registering devices by using DHCP option tags

To configure the DHCP options, do the following:

- 1 Click the **IPv4** option, and select the subnet.
  - 2 Right-click **Scope options**, and select the **Configure** option.
    - a In the **Scope option** window, select the 165 tag and then enter Wyse Management Suite FQDN along with the port number. For example, `https://<FQDN>:<PORT>`
    - b In the **Scope option** window, select the 199 tag and then enter the group token.
- NOTE:

This is optional for private cloud installations with only one tenant. If no group token is present, devices register to the unmanaged group.
- c In the **Scope option** window, select the 167 tag and set value as TRUE or FALSE for CA Validation. If not configured, the default value is TRUE.
- 3 Click **OK**.

# Registering devices by using USB driver

To register the devices by using USB driver, do the following:



- 1 Insert a USB drive into a PC or laptop with which you are logged in to EDM.
- 2 Create a folder named **config** at the root level of the USB drive.
- 3 Within the **config** folder, create another folder named **ccm-wda**.
- 4 Download the **Bootstrap** file for the group to which you want to register the Edge Gateway/Embedded PC.
- 5 Rename the file to **reg.json**, and place inside the **ccm-wda** folder on the USB drive.
- 6 Safely eject the USB drive and insert into the Edge Gateway/Embedded PC device, and then restart the device.

## File based registration of devices

For file based registration of Edge Gateway, and Embedded PCs, do the following:

- 1 Log in to EDM server.
- 2 Navigate to the **Portal admin > Edge gateway and embedded PC registration**.
- 3 Download the **Bootstrap** file for the group to which you want to register.
- 4 Copy the file into:
  - Ubuntu Core/Ubuntu Desktop Devices: **\root\config\ccm-wda\** path on your device.
  - Windows Devices: **C:\config\ccm-wda** path on your device.
- 5 Restart the device.

## Viewing and managing device details

On the **Devices** page, the following attributes are displayed:

- Device Name
- Compliance
- Device Type
- OS Version
- Serial# / IP Address
- Last User
- Group
- Last Check-in
- Health
- Registered

**NOTE:** Devices in the unmanaged group are displayed with red icon.

To manage the device details, click a device, and then click the relevant tabs on the **Device details** page.

**Table 162. Device details**

Parameter	Description
Query	Allows you to send a command to update the device information in the system.
Restart	Allows you to restart the Edge Gateway devices.
Unregister	Allows you to remove the device from system policies and management.
Change Group	Allows you to select a new group for a particular device.
Delete	Allows you to delete a device from the system. Only a device that is not currently registered can be deleted from the system.
Update Firmware	Allows you to update the firmware.
Update Firmware & Applications	You can update the firmware and application using this option.

Parameter	Description
Shutdown Now	Allows you to shut down the devices.
Schedule Device Command	Allows you to schedule the device command.
Schedule App Policy	Allows you to schedule the app policy.
Wake on LAN	If a device is turned off or in the sleep mode, and you want to activate the device, then select the device, and click the <b>Wake on LAN</b> option.
Export Devices to CSV	Allows you to export the devices to CSV.

**NOTE:** Only the unregister command and the change group assignment commands are available for devices which are in unmanaged group.



# Apps and Data

The **Apps & Data** tab describes how to perform routine device application and file inventory management tasks and to set policies using the management console

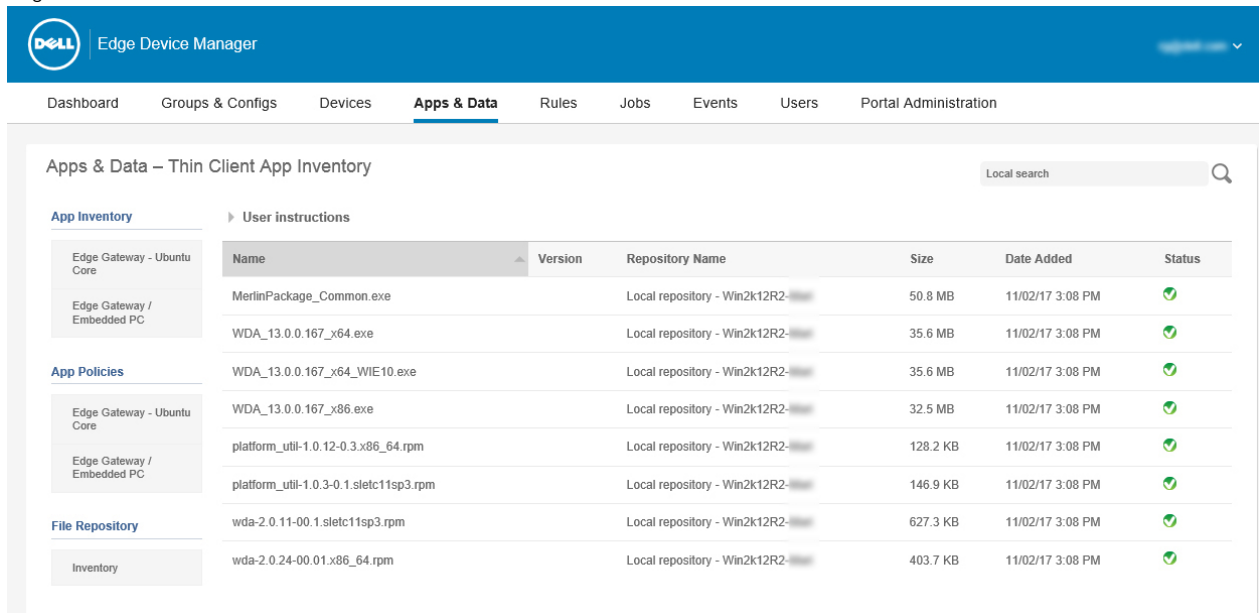


Figure 8. Apps & Data

Topics:

- [Managing Edge Gateway - Ubuntu Core inventory](#)
- [Managing Edge Gateway and Embedded PC App Inventory](#)
- [Managing Edge Gateway—Ubuntu Core App Policies](#)
- [Managing Edge Gateway and Embedded PC Policy](#)
- [Managing File Repository](#)

## Managing Edge Gateway - Ubuntu Core inventory

The **Edge Gateway - Ubuntu Core App Inventory** page allows you to quickly view and manage the application inventory for your Edge Ubuntu Core device. To manage Edge Ubuntu Core Inventory, do the following:

- 1 Click the **Apps & Data** tab on the Edge Device Manager portal.
- 2 In the left pane, go to **App Inventory > Edge Gateway - Ubuntu Core**.
- 3 To add the applications to the inventory, click **Add Apps**.
  - a Select the search type from the drop-down list.
  - b Enter the name in the **Name** field.
  - c Click **Search**.

All the available applications are listed with the details like application icon, name, price, version, architecture, release, and developer name.



- 4 Select the preferred applications, and then click **Add to Inventory**.
- 5 To return to the inventory, click **Back to Inventory**.

## Managing Edge Gateway and Embedded PC App Inventory

The **Edge Gateway / Embedded PC App Inventory** page enables you to quickly view, and manage the application inventory for your Embedded PC device. To manage the Embedded PC inventory, do the following:

- 1 To add applications to the Embedded PC inventory, follow the user instructions specified on the page.
- 2 Legacy On Premises Gateway specified on the page provides details of the path where the applications should be copied concerning the operating system.
- 3 Once applications are added to the inventory, the applications are listed on the page. The following application-related attributes are displayed:
  - Name
  - Repository Name
  - Size
  - Date Added
  - Status

## Managing Edge Gateway—Ubuntu Core App Policies

The **Edge Gateway—Ubuntu Core App Policies** page allows you to quickly view and manage the application policies for the applications on your Edge Gateway Ubuntu Core device. To manage Edge Gateway—Ubuntu Core App Policies, do the following:

- 1 Click the **Apps & Data** tab on the Edge Device Manager portal.
- 2 Under **App Policies**, click **Edge Gateway - Ubuntu Core** on the left pane.
- 3 To add a policy to the inventory, click **Add Policy**.  
The **Add Edge Gateway—Ubuntu Core App Policy** page is displayed.
- 4 Enter a **Policy Name**, **Group**, **Ubuntu Core App**, **Task**, **Config Params**, and **Apply Policy automatically**.
- 5 Click **Save**.  
The newly added policies are listed with the following attributes:
  - App Icon
  - Policy Name
  - Group
  - Ubuntu Core App
  - Task
  - Apply to New Devices.
  - Apply on check in
- 6 To edit a policy, select the policy from the list, and then click **Edit Policy**.
- 7 To delete a policy, select the policy from the list, and then click **Delete Policy**.

## Managing Edge Gateway and Embedded PC Policy

The **Edge Gateway/Embedded PC App Policies** page allows you to quickly view and manage the application policies on your Edge Gateway/Embedded PC – Windows/Ubuntu devices. To manage Edge Gateway/Embedded PC App Policies, do the following:

- 1 Click **Apps & Data** tab on the Edge Device Manager portal.
- 2 Under **App Policies**, click **Edge Gateway/Embedded PC** on the left pane.  
The Edge Gateway/Embedded PC App Policy page is displayed.
- 3 To add a policy to the inventory, click **Add Policy**.  
The **Add Standard App Policy** page is displayed



- 4 In the **Add Standard App Policy** page, do the following:
  - a Enter a **Policy Name**.
  - b From the **Group** drop-down menu, select a group.
  - c From the **Task** drop-down list, select a task.
  - d From the **OS Type** drop-down menu, select an operating system type.
  - e Enter an **Application**.
  - f If you want to deploy an image to a specific operating system or platform, select either **OS Subtype Filter** or **Platform Filter**.
  - g Enter the **Installer Parameters**.
  - h From the drop-down list, select the option for applying the policy automatically.
- 5 Click **Save**.

The newly added policies are displayed with the following details:

  - Policy Name
  - Group
  - Application
  - OS Type
  - Filters
  - Task
  - Apply to new devices.
  - Apply on check in
  - Repository Name
  - Status
- 6 To add an advanced policy to the inventory, click **Add Advanced Policy**.

The **Add Advanced App Policy** page is displayed.
- 7 In the **Add Advanced App Policy** page, do the following:
  - a Enter a **Policy Name**, **Group**, **Task**, and **OS Type**.
  - b Click **Add app**, and select one or more applications. For each application, you can select a pre and post install script under **Pre-Install**, **Post-Install**, and **Install Parameters**. If you want the system to reboot after the application is successfully installed, select **Reboot**.
  - c If you want this policy to be applied on all subgroups, select **Include All Subgroups**.
  - d If you want to deploy this policy to specific operating system or platform, select **OS Subtype Filter** or **Platform Filter**.
  - e Timeout displays a message on the client which gives you time to save your work before the installation begins. Specify the number of minutes the message dialog should be displayed on the client.
  - f To allow delay in execution of the policy, select the **Allow delay of policy execution** check box. If this option is selected, the following drop-down menus are enabled:
    - From the **Max Hours per Delay** drop-down menu, select the maximum hours (1–24 hours) you can delay the policy execution.
    - From the **Max delays** drop-down menu, select the number of times (1–3) you can delay execution of the policy.
  - g From the **Apply Policy Automatically** drop-down list, select the option for applying the policy automatically.

If you select the **Apply the policy to devices on check in** from the drop-down list, you must enter the maximum retry value in the **Max retries** field. The available values are **No retry**, **2**, and **3**.
- 8 Click **Save**.
- 9 To edit a policy, select the policy from the list, and then click **Edit Policy**.
- 10 To delete a policy, select the policy from the list, and then click **Delete Policy**.

## Managing File Repository


The file repository allows you to quickly view and manage the file repository inventory.  
To add a new file, do the following:

- 1 Click **Apps & Data** tab on the Edge Device Manager portal.
- 2 Under **File Repository**, click **Inventory** on the left pane.

The **Inventory File Repository** page is displayed.



- 3 To add a file to the inventory, click **Add File**.  
The **Add File** page is displayed.
- 4 In the **Add File** page, do the following:
  - a To select a file, click **Browse** and navigate to the location where your file is located.
  - b From the **Type** drop-down list, select any one of the following options that suits your file type:
    - Certificate
    - Wallpaper
    - Logo
    - EULA text file
    - Windows Wireless Profile
    - INI file
    - Locate
    - Printer Mappings
    - Font
  - c Enter the description for your file.
  - d Select the check box if you want to override an existing file.

 **NOTE:** The file is added to the repository when you select the check box but it is not assigned to any of the groups or devices. To assign the file, go to the respective device configuration page.
  - e Click **Upload**.
- 5 To edit a file, click **Edit File**.
- 6 To delete a file, click **Remove File**.



# Managing rules

This section describes how to add and manage the rules in the EDM console. The following filtering options are provided:

## Registering unmanaged devices

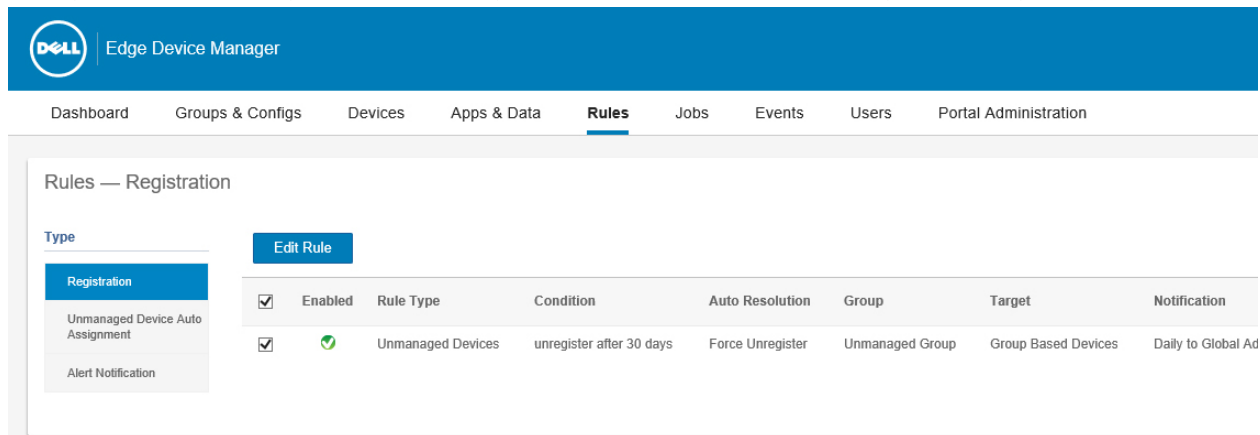
Configure the rules for unmanaged devices by using the **Registration** option.

You can select the **Notification Target** or disable the alert notification for the following:

- Group Admin
- Global Admin
- Global and Group Admin

**NOTE:** The notification frequency can be configured for every 4 hours, every 12 hours, daily, or weekly basis to the target device.

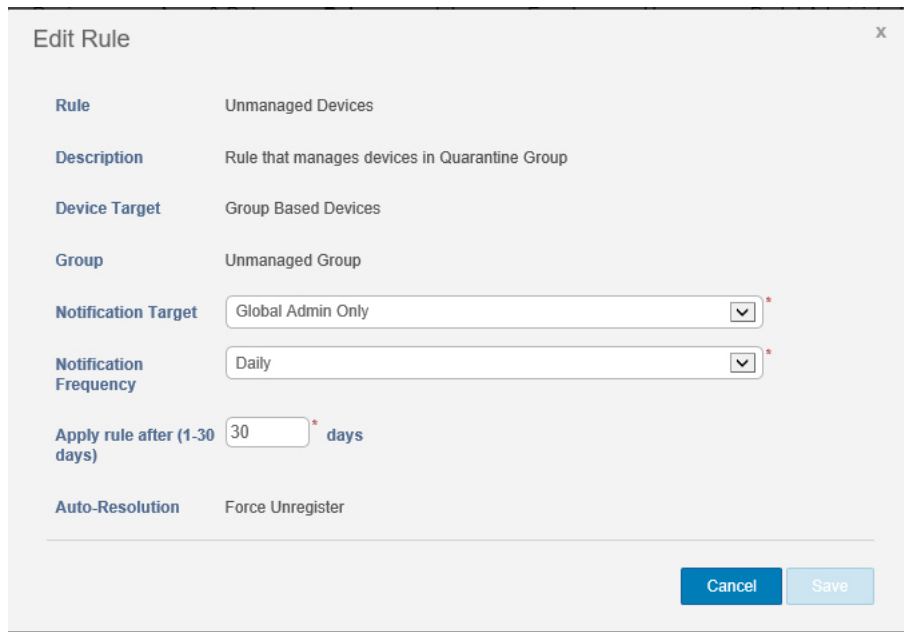
By default, registrations of unmanaged devices are unregistered after 30 days and can be configured by using the **Apply rule after** option.



**Figure 9. Registration**

To edit a rule, do the following:

- 1 Click the **Edit Rule** option.
- 2 From the drop-down list, select a target client to apply the **Notification Target** option and the time duration to apply the **Notification Frequency** option.
- 3 Enter the number of days until you want to apply the rule.



**Edit Rule**

Rule: Unmanaged Devices

Description: Rule that manages devices in Quarantine Group

Device Target: Group Based Devices

Group: Unmanaged Group

Notification Target: Global Admin Only

Notification Frequency: Daily

Apply rule after (1-30 days): 30 days

Auto-Resolution: Force Unregister

Buttons: Cancel, Save

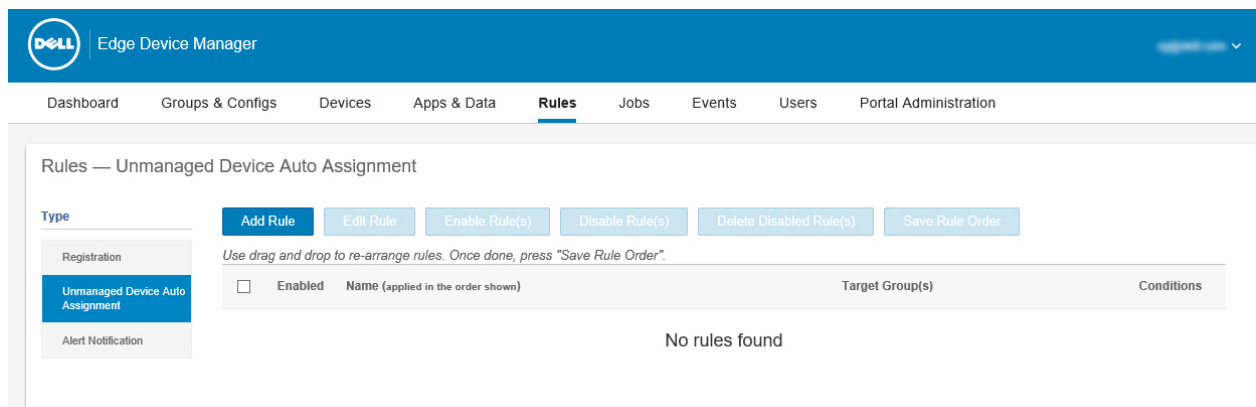
Figure 10. Edit Rule

- 4 Click **Save**.

## Creating unmanaged device auto assignment rules

To create rules for the unmanaged device auto assignment, do the following:

- 1 Click the **Rules** tab.
- 2 Select the **Unmanaged Device Auto Assignment** option.



DELL Edge Device Manager

Dashboard Groups & Configs Devices Apps & Data **Rules** Jobs Events Users Portal Administration

Rules — Unmanaged Device Auto Assignment

Type: Add Rule Edit Rule Enable Rule(s) Disable Rule(s) Delete Disabled Rule(s) Save Rule Order

Registration Unmanaged Device Auto Assignment Alert Notification

Use drag and drop to re-arrange rules. Once done, press "Save Rule Order".

Enabled	Name (applied in the order shown)	Target Group(s)	Conditions
No rules found			

Figure 11. Add Rule

- 3 Click the **Add Rules** tab.

**Figure 12. Create a rule for device auto assignment**

- 4 Enter the **Name**, and then select **Destination Group**.
- 5 Click the **Add Condition** option, and select the conditions for assigned rules.
- 6 Click **Save**.

The rule is displayed in the unmanaged group list. This rule is applied automatically, and the device is listed in the destination group.

## Editing unmanaged device auto assignment rule

- 1 Click the **Rules** tab.
- 2 Select **Unmanaged Device Auto Assignment**.
- 3 Select the rule and then click **Edit Rule**.
- 4 Click **Save**.

## Disabling and deleting rule

- 1 Click the **Rules** tab.
- 2 Select **Unmanaged Device Auto Assignment**.
- 3 Select a rule and then click **Disable Rule(s)**.
- 4 Click **Delete Disabled Rule(s)**.

## Saving rule order

If multiple rules are present, then you can change the order of a rule to be applied on the devices.

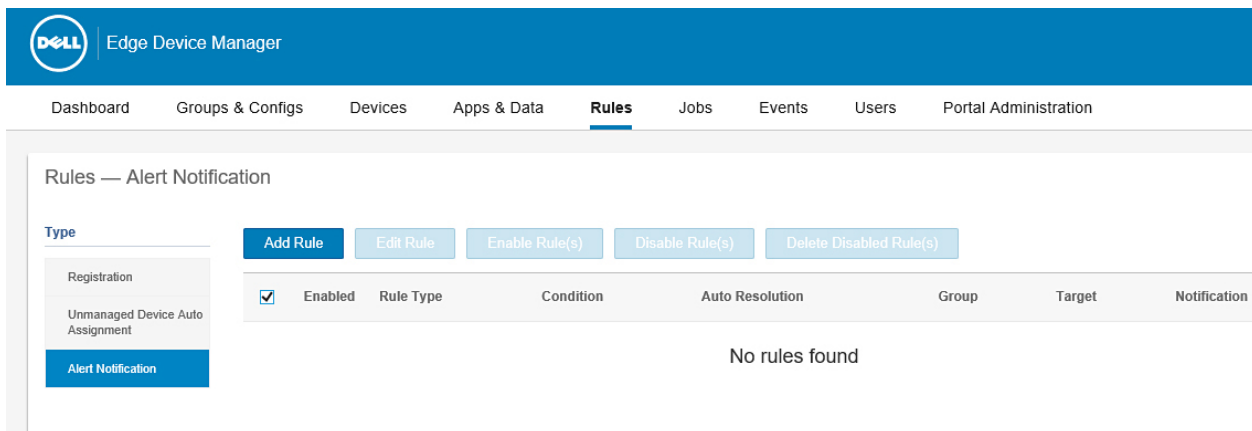
- 1 Click the **Rules** tab.
- 2 Select **Unmanaged Device Auto Assignment**.
- 3 Select the rule which you want to move and then move it to the top order.
- 4 Click **Save Rule Order**.

## Alert Notification

You can select **Notification Target** or disable the alert notification for the following:

- Group Admin
- Global Admin

**NOTE:** The notification frequency can be configured for every 4 hours, every 12 hours, daily or weekly basis to the target client.



**Figure 13. Alert Notification**

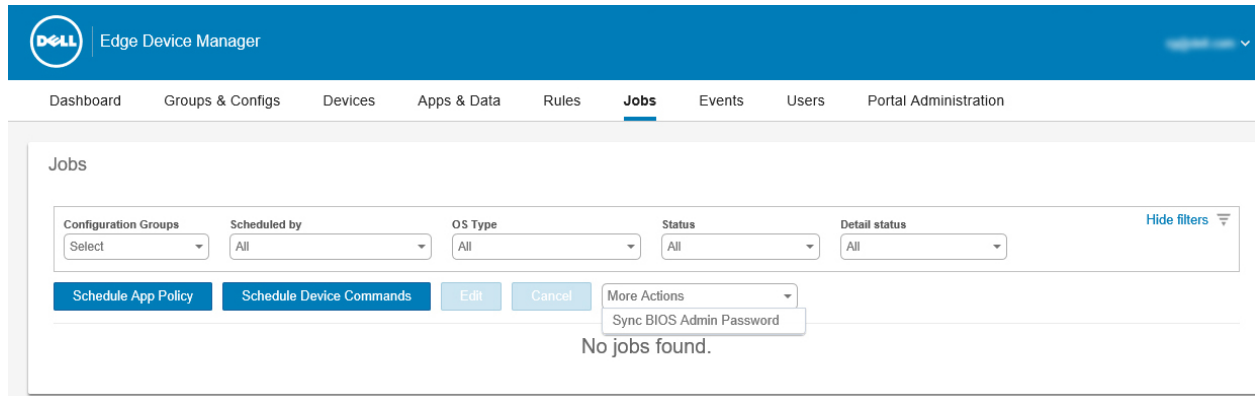
- 1 To add a rule, click the **Add Rule** option and enter the following details:
  - a From the drop-down list, select **Rule**.
  - b Enter the **Description**.
  - c From the drop-down list, select a target device to apply **Notification Target** and the time duration to apply **Notification Frequency**.

**Figure 14. Add Rule**

- 2 Click **Save**.

# Managing Jobs

This page describes how to schedule and manage jobs in the management console.



**Figure 15. Jobs**

This include the following options:

- **Configuration Groups**—From the drop-down list, select the configuration group type.
- **Scheduled by**—From the drop-down list, select your preferred option. The available options are:
  - a **Admin**
    - App Policy
    - Image Policy
    - Device Commands
  - b **System**
    - Publish Group Configuration
    - Others
- **OS Type**—From the drop-down list, select the OS type. The available OS types are:
  - Edge Gateway—Ubuntu Core
  - Edge Gateway—Windows
  - Embedded PC—Windows
  - Embedded PC—Ubuntu
- **Status**—From the drop-down list, select the status of the job. The available options are:
  - Scheduled
  - Running/In progress
  - Completed
  - Canceled
  - Failed
- **Detail Status**—From the drop-down list, select the status. The available options are:
  - a 1 or more Failed
  - b 1 or more Pending
  - c 1 or more In progress



- d 1 or more Cancelled
- e 1 or more Completed

Topics:

- [Schedule application policy](#)
- [Schedule device command job](#)
- [Editing and cancelling job](#)
- [Sync BIOS Admin Password Job](#)

## Schedule application policy

To schedule an application policy, complete the following task:

- 1 On jobs page, click the **Schedule App Policy** option.  
The **App Policy Job** screen is displayed.
- 2 From the drop-down list, select the policy.  
Image or application is not a recurring job. Each command is device specific in the entire job schedule.
- 3 Enter the job description.
- 4 From the drop-down list, select the date or time.
- 5 Enter/select the following details:
  - **Effective**—Enter the starting and ending date.
  - **Start between**—Enter the starting and ending time.
  - **On day(s)**—Select the days of the week.
- 6 To view the details of the scheduled job, click the **Preview** option.  
You are redirected to the next page.
- 7 On the next page, click the **Schedule** option to initiate the job.

## Schedule device command job

To schedule a device command job, do the following:

To schedule a device command job, complete the following task:

- 1 On the **Jobs** page, click the **Schedule Device Commands** option.  
**Device Command Job** screen is displayed.
- 2 From the drop-down list, select a command.  
Device command is a recurring job. On selected days of the week and on specific time, the commands are sent to the selected devices.
- 3 From the drop-down list, select the type of operating system.
- 4 Enter the name.
- 5 From the drop-down list, select a group name.
- 6 Enter the job description.
- 7 From the drop-down list, select the date or time.
- 8 Enter/select the following details:
  - **Effective**—Enter the starting and ending date.
  - **Start between**—Enter the starting and ending time.
  - **On day(s)**—Select the days of the week.
- 9 To view the details of the scheduled job, click the **Preview** option.  
You are redirected to the next page.
- 10 On the next page, click the **Schedule** option to initiate the job.



# Editing and cancelling job

To edit a job, do the following:

- 1 Click the **Jobs** tab.
- 2 Select a job, and then click the **Edit** option.

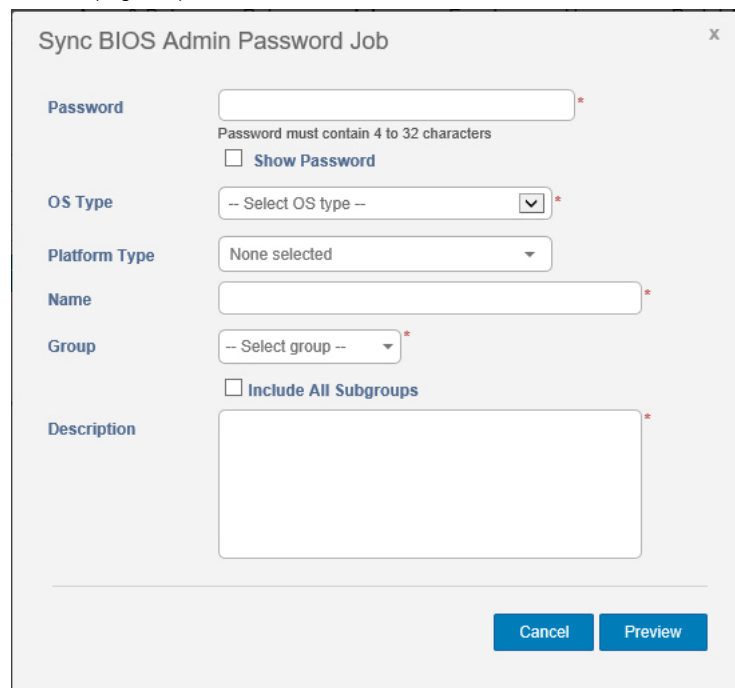
To cancel a job, do the following:

- 1 Click the **Jobs** tab.
- 2 Select a job, and then click the **Cancel** option.

## Sync BIOS Admin Password Job

To synchronize the BIOS admin password, do the following:

- 1 On the **Jobs** page, from **More Actions** drop-down list, select **Sync BIOS Admin Password**.  
The **Sync BIOS Admin Password Job** page displayed.



**Figure 16. Sync BIOS Admin Password Job**

- 2 Enter the password. The password must be a minimum of 4 and a maximum of 32 characters.
- 3 Select the **Show Password** check box to view the password.
- 4 From the **OS Type** drop-down menu, select one of the following option.
  - Edge Gateway-Ubuntu Core
  - Edge Gateway-Windows
  - Embedded PC-Windows
  - Embedded PC-Ubuntu
- 5 Enter/select the **Platform Type**.
- 6 Enter the name of the job.
- 7 From the **Group** drop-down list, select your preferred option.
- 8 Select the **Include All Subgroup** check box to include the subgroups.

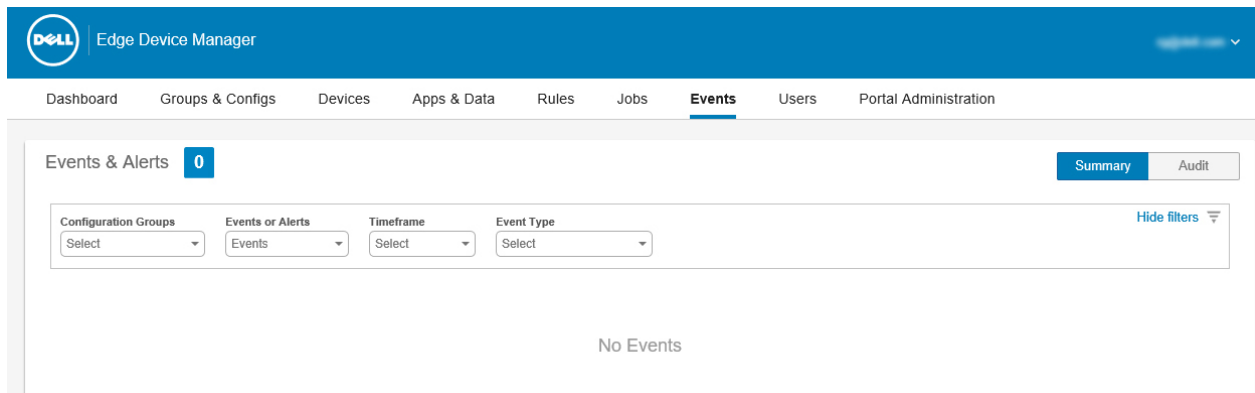
- 9 Enter the description in the provided field.
- 10 Click **Preview**.



# Events

This section describes how to display all events and alerts in the management system with the help of management console. It also provides instructions on displaying an Audit of events and alerts for system auditing purposes.

Summary of Events and Alerts is used to obtain an easy-to-read daily summary of what has happened in system. Audit page is used to format the information into a typical audit log-view, where one line is displayed for each event in the order of time.



**Figure 17. Events**

Topics:

- [Viewing a summary of events](#)
- [Viewing audit log](#)

## Viewing a summary of events

The **Events and Alerts** window allows you to display all the events and alerts that have taken place in the system. To log in to **Events and Alerts**, go to **Events > Summary**.

The following are the options that are available for which all the events can be easily distinguished:

- 1 **Configuration Groups**—To select the Configuration Group, click the drop-down menu. The following options are displayed:
  - Unmanaged Group
  - Default Policy Group
- 2 **Event**—To select the Event type, click the drop-down menu. The following options are displayed:
  - Events
  - Current Alerts
  - Alert History
- 3 **Timeframe**—This option allows you to view the events which occurred in a particular timeframe. The available options in the drop-down menu are:
  - Today
  - Yesterday
  - This Week

- Custom
- 4 **Event Type**—All the events are classified under particular groups. The available options in the drop-down menu are:
- Access
  - Registration
  - Configuration
  - Remote Commands
  - Management
  - Compliance

## Viewing audit log

The **Audit** window arranges the information into a typical audit log-view. You can view the timestamp, event type, source, and description of each event in the order of time.

- 1 Go to **Events > Audit**.

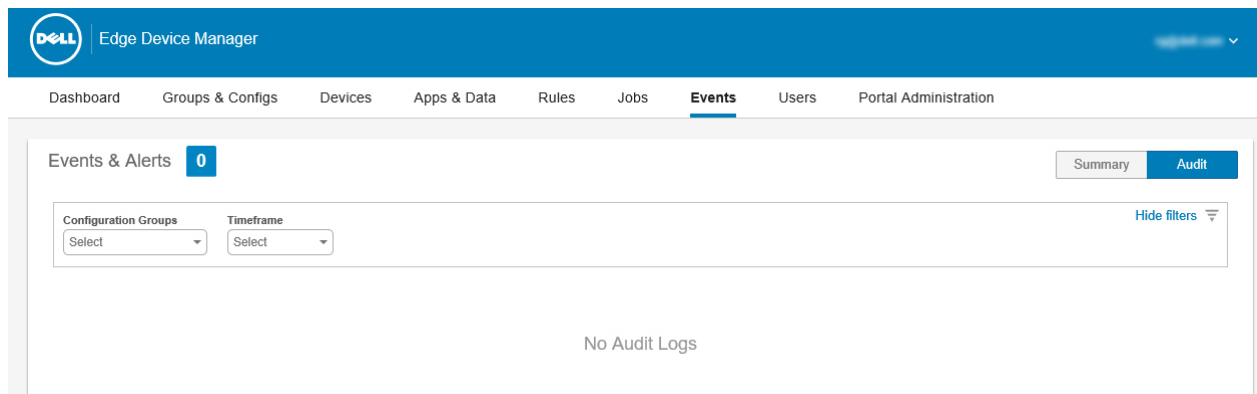


Figure 18. Audit

- 2 **Configuration Groups**—To select the Configuration Group, click the drop-down menu. The following options are displayed:
- Unmanaged Group
  - Default Policy Group
- 3 **Timeframe**—From the **Timeframe** drop-down list, select the time period to view the events that occurred during that time period.
- Today
  - Yesterday
  - This Week
  - Custom

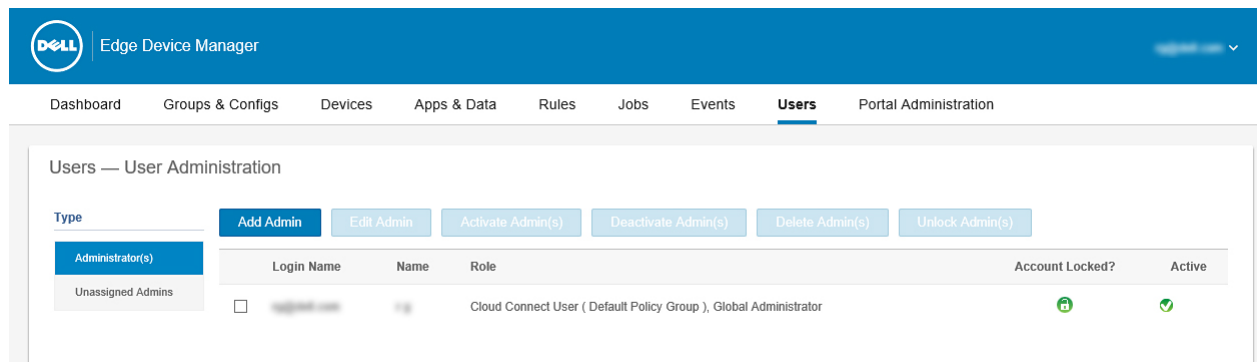
# Managing users

This section describes how to perform a routine user management task in the management console. The following are the two types of users:

- **Administrator(s)**: Edge Device Manager administrator can be assigned global administrator, group administrator, or viewer.
  - A Global Administrator has access to all EDM functions.
  - A Group Administrator has access to all assets and functions for specific groups that are assigned to them.
  - A Viewer has read-only access to all data and can be assigned permissions to trigger real-time commands, such as shutdown, and restart.

If you select administrator, you can perform any of the following actions:

- Add Admin
- Edit Admin
- Activate Admin(s)
- Deactivate Admin(s)
- Delete Admin(s)
- Unlock Admin(s)

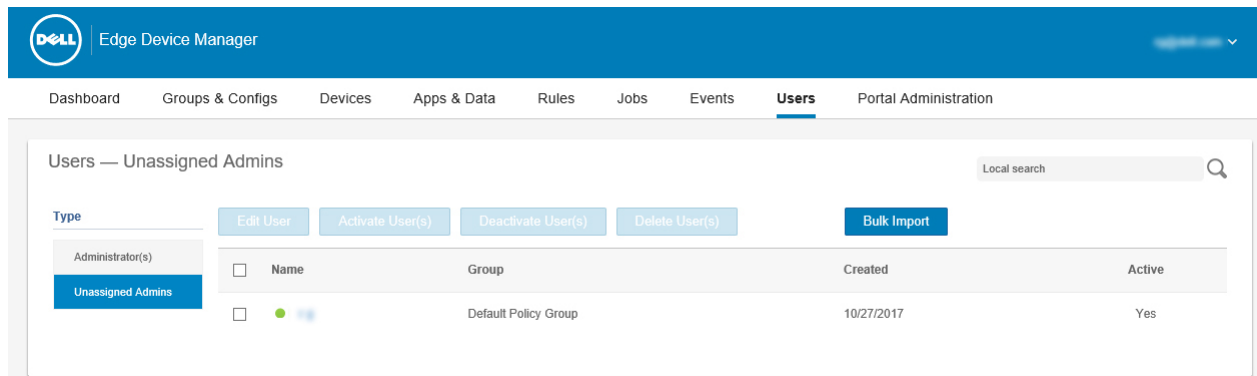


**Figure 19. Administrator(s)**

- **Unassigned Admins**—Users imported from the AD server are displayed on the **Unassigned Admins** page. You can later assign a role to these users from the portal.

For better and faster management of users, select the users of your choice based on the available filter options. If you select **Unmanaged Users**, you can perform any of the following actions:

- Edit User
- Activate User(s)
- Deactivate User(s)
- Delete User(s)



**Figure 20. Unassigned Admins**

**NOTE:** To import users from the CSV file, click **Bulk Import**.

Topics:

- [Adding new admin user](#)
- [Editing admin user](#)
- [Deactivating admin account](#)
- [Deleting admin](#)

## Adding new admin user

To add an admin user, do the following:

- 1 Go to **Users > Administrator(s)**, and then click **Add Admin**.  
The **New Admin User** page is displayed.

**Figure 21. New Admin User**

- 2 Enter your email ID and user name in the respective fields.
- 3 Select the check box to use the same user name as mentioned in the email.

- 4 Do one of the following:
  - If you click the **Personal Information** tab, enter the following details:
    - **First Name**
    - **Last Name**
    - **Title**
    - **Mobile Phone Number**
  - If you click the **Roles** tab, enter the following details:
    - 1 In the **Roles** section, select the preferred role from drop-down list. The following options are available:
      - Global Administrator
      - Group Administrator
      - Viewer
    - 2 In the **Password** section, do the following:
      - a Enter the custom password.
      - b To generate any random password, select the **Generate random password** radio button.
- 5 Click **Save**.

## Editing admin user

To edit an admin user, do the following:

- 1 Enter your email ID and user name in the respective fields.

**NOTE:** When you update the login name, you are forced to log out from the console. Log in to the console using the updated account login name.
- 2 Do one of the following:
- 3 If you click the **Personal Information** tab, enter the following details:
  - First name
  - Last name
  - Title
  - Mobile phone number
- 4 If you click the **Roles** tab, enter the following details:
  - Under the Roles section:
    - Select the preferred role from drop-down list. The following options are available:
      - Global Administrator
      - Group Administrator
      - Viewer
  - Under the Password section, you cannot update the password for portal administrator. Use the **Forgot Password** link on the portal login page to reset administrator passwords.
- 5 Click **Save**.

## Deactivating admin account

Deactivating the user account prevents you from logging in to the console, and removes your account from the registered devices list. To deactivate an admin user, do the following:

- 1 From the list, select a user and click **Deactivate Admin(s)**.  
An alert window is displayed.
- 2 Click **OK**.



# Deleting admin

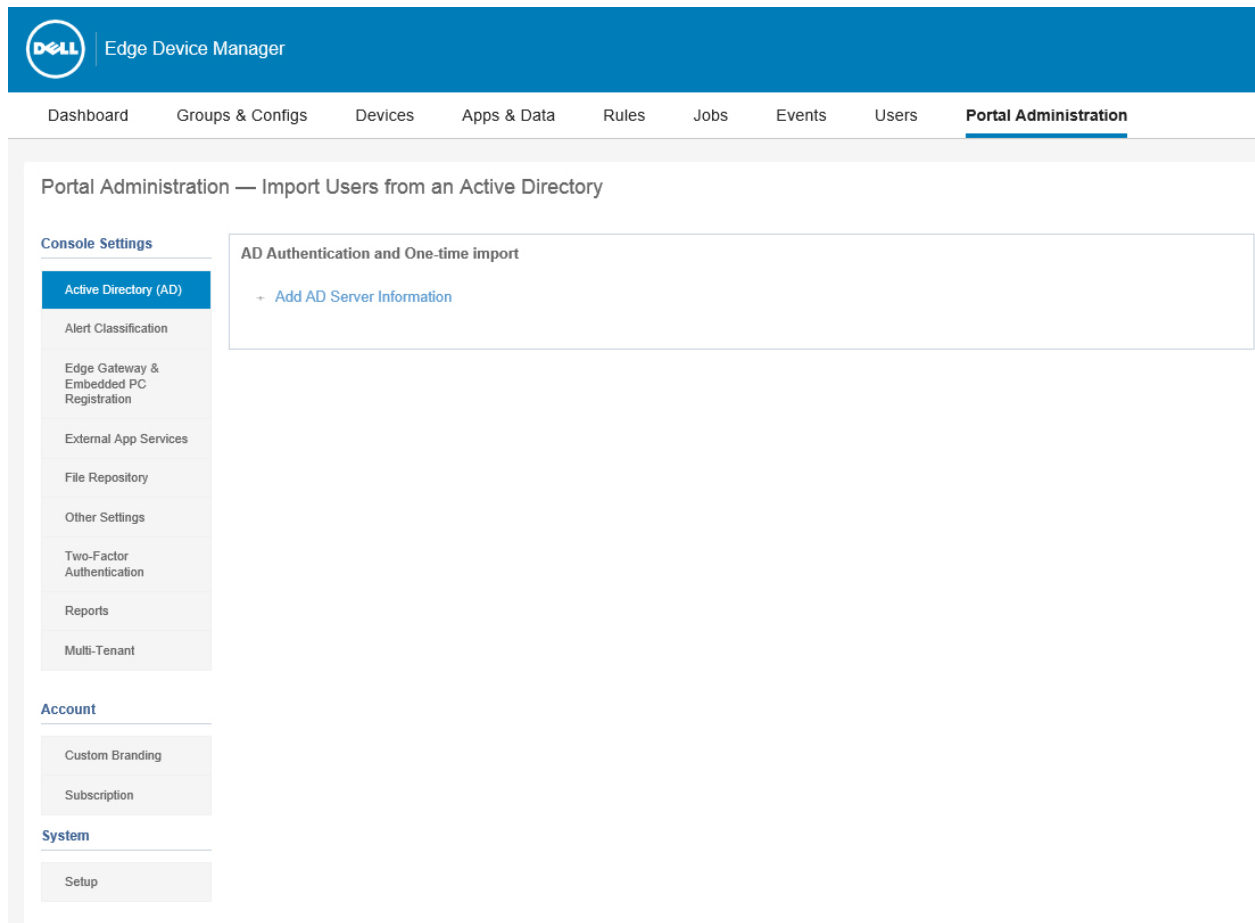
Users must be deactivated before you delete them. To delete a user, do the following:

- 1 Select the check box of a particular user or users which you want to delete.
- 2 From the **More Actions** drop-down menu, select **Delete User(s)**.
- 3 Click **Yes**.



# Portal administration

This section contains a brief overview of your system administration tasks that are required to set up and maintain your system.



**Figure 22. Portal Administration**

Topics:

- [Configuring console settings](#)
- [Configuring account settings](#)
- [System setup](#)

# Configuring console settings

This section enables you to configure settings for the Edge Device Manager console.

## Active Directory

To import Active Directory users on the EDM private cloud, do the following:

- 1 Log in to the EDM private cloud.
- 2 Navigate to **Portal Admin > Console Settings > Active Directory (AD)**.
- 3 Click the **Add AD Server Information** link.
- 4 Enter the server details such as **AD Server Name**, **Domain Name**, **Server URL**, and **Port**.
- 5 Click **Save**.
- 6 Click **Import**.
- 7 Enter the user name and password.
- 8 Click **Login**.
- 9 On the **User Group** page, click **Group name** and enter the group name.
- 10 In the **Search** field, type the group name you want to select.
- 11 Select a group.  
The selected group is moved to the right pane of the page.
- 12 Click **Next**.
- 13 Click **Import Users**.

 **NOTE:** If you provide an invalid name or do not provide a last name, or provide any email address as name, then the entries cannot be imported into EDM. These entries are skipped during the user import process.

- 14 To assign different roles or permissions, select a user and click **Edit User**.  
After you assign the roles to the active directory user, they are moved to the **Administrators** tab on the **Users** page.

Active directory users can log in to the EDM management portal by using the domain credentials. To log in to the EDM portal, do the following:

- 1 Start the EDM management portal.
- 2 On the login screen, click the **Sign in with your domain credentials** link.
- 3 Enter the domain user credentials, and click **Sign In**.

The imported Active Directory users can be activated or deactivated on the Users page by using the global administrator login. If your account is deactivated, you cannot log in to the EDM management portal.

## Configuring Active Directory Federation Services feature on public cloud

To configure Active Directory Federation Services (ADFS) on a public cloud, do the following:

- 1 Log in to the EDM private cloud.
- 2 On the **Portal Admin** page, under **Console Settings**, click **Active Directory (AD)**.  
The **Active Directory Federation Services (ADFS) Metadata Configuration** page is displayed.
- 3 Enter the EDM details to ADFS. To know the location details on the ADFS server where you must upload the Wyse Management Suite xml files, hover the mouse over the **information (i)** icon to view the **Add Relying Party Trust Wizard** page.
- 4 Set the EDM rules in ADFS. To know the custom claim rule details, hover the mouse over the **information (i)** icon.

 **NOTE:** To view the Wyse Management rules, click the **Show EDM Rules** link. You can also download the EDM rules by clicking the link provided in the EDM Rules window.

- 5 To configure the ADFS details, click **Add Configuration**, and do the following:



**NOTE:** To allow tenants to follow the ADFS configuration, upload the ADFS metadata file.

- a To upload the XML file stored on your device, click **Load XML File**.  
The file is available at <https://adfs.example.com/FederationMetadata/2007-06/FederationMetadata.xml>.
- b Enter the details of the entity ID and X.509 signing certificate in the respective boxes.
- c Enter the ADFS login URL address and the ADFS logout URL address in the respective boxes.
- d To enable tenants to configure Single Sign-On by using ADFS, select the **Enable SSO login using ADFS** check box. This feature follows the Security Assertion and Markup Language (SAML) standard specification.
- e To validate the configuration information, click **Test ADFS Login**. This enables tenants to test their setup before saving.

**NOTE:** Tenants can activate/deactivate SSO login by using ADFS.

- 6 Click **Save**.
- 7 After you save the metadata file, click **Update Configuration**.

**NOTE:**

- Tenants can log in and log out by using their AD credentials configured from their ADFS. You must ensure that the AD users are imported to the Wyse Management Suite server. On the login page, click **Sign in** and enter your domain credentials. You must provide the email address of your AD user and sign in.
- For more information about the ADFS documentation, go to [Technet.microsoft.com/en-us/windowsserver/dd448613](https://technet.microsoft.com/en-us/windowsserver/dd448613)

- 8 To set an active directory connector, select the AD connector operation mode from the list. The available options are:
  - AD Sync
  - Bulk Import
- 9 Click **Save AD Connector Settings**.

## Alert classifications

The Alert page categorizes the alerts as Critical, Warning, or Info.

**NOTE:** To receive alerts through e-mail, select the **Alert Preferences** option from the username menu displayed on the upper-right corner.

Select the preferred notification type such as, **Critical**, **Warning**, or **Info** for the following alerts:

- CPU Temperature Exceeded Threshold
- Chassis Temperature Exceeded Threshold
- Device Chassis Intrusion
- Device Health Alert
- Devices Missing Required Apps
- Device Not Checked In
- Restricted App Installed
- Watchdog Services Restarted

## Edge Gateway and Embedded PC registration

To register the Edge Gateway and Embedded PC from USB device, do the following:

- 1 Insert a USB drive into a PC or laptop with which you are logged in to EDM.
- 2 Create a folder named **config** at the root level of the USB drive.
- 3 Within the **config** folder, create another folder named **ccm-wda**.
- 4 Download the bootstrap file for the group to which you want to register the Edge Gateway/Embedded PC.
- 5 Rename the file to `reg.json` and place in to the **ccm-wda** folder on the USB drive.

- 6 Safely eject the USB drive, and insert into the Edge Gateway/Embedded PC device, then reboot.

## External app services

This section allows you to create secured Application Programming Interface (API) accounts. This service provides the ability to create special accounts.

To configure the external application service, do the following:

- 1 Log in to the EDM, and click the **Portal Administration** tab.
- 2 Select **External App Services** under **Console Settings**.
- 3 Select the **Add** tab to add an API service.  
The **Add External App Services** dialog box is displayed.
- 4 Enter the following details to add an external application service.
  - Name
  - Description
- 5 Select the **Auto Approve** check box.  
If you select the check box, approval from the global administrators is not required.
- 6 Click **Save**.

## File repository

Edge Device Manager has two types of repository:

- **Local Repository:** During EDM private cloud installation, provide the local repository path in the EDM installer. After the installation, go to **Portal Administration > File Repository** and select the local repository. Click **Edit** option to view and edit repository settings.
- **Wyse Management Suite Repository:** Log in to Wyse Management Suite public cloud, go to **Portal Administration > File Repository** and download the Wyse Management Suite repository installer. After the installation, register the Wyse Management Suite repository to Wyse Management Suite Management server by providing the required information.

To use Wyse Management Suite repository, do the following:

- 1 Download the Wyse Management Suite repository from the public cloud console.
- 2 After the installation process, start the application.
- 3 On the Wyse Management Suite Repository page, enter the credentials to register the Wyse Management Suite repository to Wyse
- 4 If you enable the **Register to Public WMS Management Portal** option, you can register the repository to Wyse Management Suite public cloud.
- 5 Click the **Sync Files** option to send the sync file command.
- 6 Click **Check In** and then click **Send Command** to send the device information command to the device.
- 7 Click the **Unregister** option to unregister the on-premises service.
- 8 Click **Edit** to edit the files.
  - a From the drop-down list of **Concurrent File Downloads** option, select the number of files.
  - b Enable or disable **Wake on LAN** option.
  - c Enable or disable **Fast File Upload and Download (HTTP)** option.
    - When HTTP is enabled, the file upload and download occurs over HTTP.
    - When HTTP is not enabled, the file upload and download occurs over HTTPS.
  - d Select the **Certificate Validation** check box to validate the file repository certificate to download the files.
  - e Add a note in the provided box.
  - f Click **Save Settings**.



## Other settings

You can use the following settings to enforce the **APNS Warnings**, **License Expiration Warnings**, and other **Self Service Legal Agreements**.

- **Dismiss License Expiration Warning on Dashboard page**—Select this check box to disable the warning for a license expiration from displaying on the **Dashboard** page.
- **Heartbeat interval**—The device sends heartbeat signal every 60 to 360 minutes.
- **Checkin interval**—The device sends full checking signal every 8 to 24 hours.
- **Not Checked In compliance alert**—Enter the number of days before a device triggers a **Not Checked In compliance** alert. The range is 1–99.

## Two-factor authentication

You must have at least two active global administrator users in the system.

Create two or more global administrators before proceeding to the task.

To enable two-factor authentication, do the following:

- 1 You must select the check box to enable the two-factor authentication.

 **NOTE:** Administrators must verify the second authentication factor using one time passcodes to log in to the management portal.

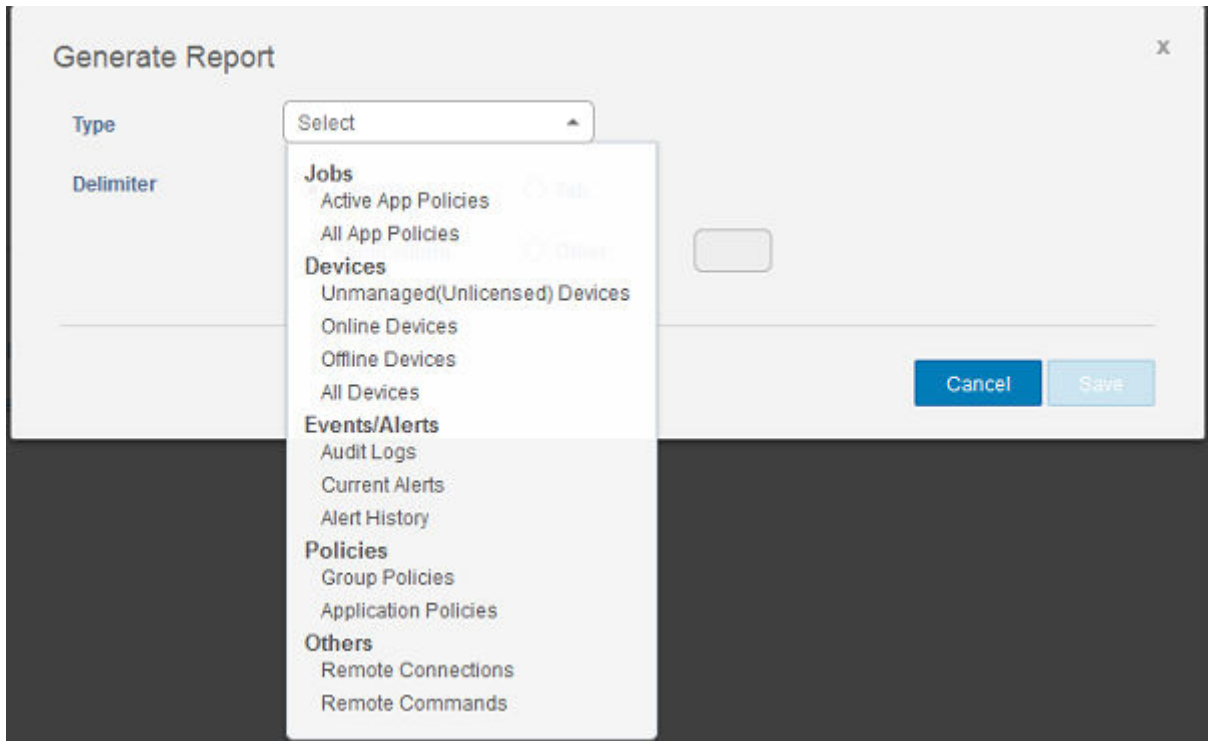
- 2 You will receive a one-time passcode to your e-mail address. Enter one-time passcode to verify.

By default, you have eight attempts to verify the one time passcode. If you fail to verify the passcode, the account will be locked. Only global administrators can unlock locked accounts.

## Generating reports

To generate reports, complete the following task:

- 1 Go to **Portal Administration > Reports**.
- 2 Click **Generate Report** option.  
The **Generate Report** window is displayed.
- 3 From the **Type** drop-down list, select the type of the report.



**Figure 23. Generate Report**

- 4 Select the delimiter.
- 5 Click **Save**.

## Multi-Tenant

This section allows you to create an additional organization. You can manage the organizations independently. Each account must have its own license key and can set up its own set of administrator accounts, policies, operating system images, application, rules, alerts, and so on. The high level operator creates these organizations.

- 1 Select the **Enable Multi-Tenant** check box.
- 2 Enter the following details:
  - User name
  - Password
  - Confirm password
  - Email
- 3 Click **Save Settings**.

## Configuring account settings

This section helps you to configure account settings for EDM console.



# Custom branding

This option allows you to add the name of your company and its logo or brand. You can upload your own header logo, favicon, add a header title, and change header colors to customize the Wyse Management Suite portal.

To access and specify custom branding:

- 1 Go to **Portal Administrator > Account > Custom Branding**.
- 2 Click **Enable Custom Branding**.
- 3 In **Header Logo**, click **Browser** and select and select the header logo image from the folder location.  
The maximum size of the header logo must be 500\*50 pixels.
- 4 Enter the title under in **Title** option.
- 5 Select the **Display title in browser window/tab** check box to view the title in the browser.
- 6 Enter the color codes for **Header background color** and **Header text color**.
- 7 Click **Browse** and select the **Favicon**.  
The favicon appears in the browser address bar next to the website URL.

 **NOTE:** You must save the images as .ico files only.

- 8 Click **Save Settings**.

# License Subscription

This section allows you to view and manage the management console license subscription and its usage.

On the Portal Admin page, you can view the Subscription option. This page also provides the following information:

- Registered Edge Gateways and Embedded PC devices
- Server information
- Import License (Private cloud)
- Export License for Private Cloud

# System setup

This section provides the information about the following:

- **Certificate Validation:** Select the check box to perform server certificate validation for all device-to-server communication.
- **Update SMTP for Email Alerts**

Enter the following details:

- SMTP server
- Send from address.
- Username
- Password
- Test address
- **Current Certificate:** It provides the information about the current certificate.

Select the following option, and enter the details:

- **PKCS-12:** Upload HTTPS PKCS-12 (.pfx, .p12). Apache intermediate certificate is needed for IIS pfx.
- **Key/Certificate Pair:** Upload HTTPS key/certificate file pair—only PEM format is supported.
- Click **Save**.



## Supported devices

- Edge gateway 5000 running Windows 10 LTSC 15
- Edge gateway 3000 running Ubuntu Core 16
- Edge gateway 3000 running Windows 10 IoT LTSC 2016
- Edge gateway 5000 running Ubuntu Core 16
- Edge gateway 5000 running Windows 10 IoT LTSC 2016
- Embedded PC 3000 running Windows 7 Pro
- Embedded PC 3000 running Windows 7 Pro for FES
- Embedded PC 3000 running Windows Embedded Standard 7P
- Embedded PC 3000 running Windows Embedded Standard 7E
- Embedded PC 3000 running Windows 10 IoT LTSC 15
- Embedded PC 3000 running Windows 10 Pro
- Embedded PC 5000 running Windows 7 Pro
- Embedded PC 5000 running Windows 7 Pro for FES
- Embedded PC 5000 running Windows Embedded Standard 7P
- Embedded PC 5000 running Windows Embedded Standard 7E
- Embedded PC 5000 running Windows 10 IoT LTSC 15
- Embedded PC 5000 running Windows 10 Pro
- Embedded PC 3000 running Ubuntu Core 16
- Embedded PC 5000 running Ubuntu Core 16



# Wireless profiles password editor

The Wireless profiles password editor is used to capture the wireless profiles and edit the passwords. The profiles are saved in an .XML file. The same .XML file can be used to configure the EDM through Cloud Client Manager.

## NOTE:

.NET Framework v4.5 must be installed to run this tool on any Windows operating system or Windows Embedded operating system.

Topics:

- [Configuring the Wireless Profiles Password Editor](#)
- [Limitations of Wireless Profiles Password Editor](#)

## Configuring the Wireless Profiles Password Editor

To configure the wireless profiles password editor, do the following:

- 1 Go to, **C:\Program files\Wyse\WDA\bin\<DWirelessProfileEditor.exe>**.
- 2 Right-click the **.exe** file, and select the **Run as administrator** option.  
The **Wireless Profiles Password Editor** window is displayed.
- 3 Click **Browse** and select the location to save the new XML profile.
- 4 Click the **Export WIFI Profiles** option.  
The current wireless profile is exported to the **Profiles** tab. The current wireless connection password is populated in the **Password** tab.
- 5 Edit the password, and click the **Change Password** option.  
Changed password is encrypted and saved to the XML profile.
- 6 On the server side of EDM console, click the **App & Data** tab.

## Limitations of Wireless Profiles Password Editor

The following are the limitations of Wireless Profiles Password Editor:

- Passwords are valid only for the following authentication types:
  - WPA2PSK
  - WPA2PSK
- Passwords do not exist for the following enterprise authentication profile types:
  - WPA
  - WPA2

## Third party licenses

The table provides the details about third party licenses for Dell Edge Device Manager R16.

**Table 163. Third party licenses**

SI No	Component name	License type
1	apache-tomcat-7.0.72	Apache License, Version 2.0
2	jdk1.8.0_112	Oracle Binary Code License
3	jre1.8.0_112	Oracle Binary Code License
4	mariadb-10.0.26-winx64	GNU GPL V2
5	mosquitto-1.3	Eclipse Public licenses- v 1.0
6	bootstrap-2.3.2	Apache License, Version 2.0
7	backbone-1.3.3	MIT
8	aopalliance-1.0.jar	Public Domain
9	aspectjweaver-1.7.2.jar	Eclipse Public licenses- v 1.0
10	bcprov-jdk16-1.46.jar	MIT
11	commons-codec-1.9.jar	Apache License, Version 2.0
12	commons-logging-1.1.1.jar	Apache License, Version 2.0
13	hamcrest-core-1.3.jar	BSD-3 Clause
14	jackson-annotations-2.2.2.jar	Apache License, Version 2.0
15	jackson-core-2.2.2.jar	Apache License, Version 2.0
16	jackson-databind-2.2.2.jar	Apache License, Version 2.0
17	log4j-1.2.17.jar	Apache License, Version 2.0
18	apache-tomcat-8.5.11	Apache License, Version 2.0
19	mosquitto-3.1	Eclipse Public licenses- v 1.0
20	Gradle Wrapper 2.14	Apache 2.0 License
21	Gradle Wrapper 3.3	Apache 2.0 License
22	HockeySDK-ios3.7.0	MIT

SI No	Component name	License type
23	Relayrides / pushy - v0.9.3	MIT
24	zlib-1.2.8	zlib license
25	yaml-cpp-0.5.1	MIT
26	wiredtiger	GNU GPL V2
27	unicode-8.0.0	unicode licensesagreement
28	snappy-1.1.2	BSD 3 Clause
29	scons-2.5.0	MIT
30	S2	Apache 2.0
31	pcre-8.38	PCRE licenses
32	mozjs-38	MPL-2.0 ,GPL-2,LGPL-2.1,BSD-2-Clause,MIT,LGPL-2+, public-domain,ICU
33	asio-asio-1-11-0	Boost Software licensesVersion 1.0
34	IntelRDFPMathLib20U1	BSD 3 Clause
35	gperftools-2.2	BSD 3 Clause
36	boost-1.56.0	Boost Software licenses- Version 1.0
37	mongo-tools	Apache 2.0
38	mongoDB 3.2.9	GNU Affero General Public License(AGPL)
39	ssleay32.dll 0.9.8g	OpenSSL License and the original SSLeay license
40	libcurl.dll 7.18.0	MIT
41	libeay32.dll 7.18.0	OpenSSL License and the original SSLeay license
42	Newtonsoft.Json.dll 6.0.3.17227	MIT
43	RestSharp.dll 104.1.0.0	Apache License Version 2.0
44	Microsoft.Win32.TaskScheduler.dll 2.3.0	MIT
45	Ionic.Zip.dll 1.9.1.8	Microsoft Public License (Ms-PL)
46	ssleay32.dll 0.9.8g	OpenSSL License and the original SSLeay license
47	libcurl.dll 7.18.0	MIT
48	libeay32.dll 7.18.0	OpenSSL License and the original SSLeay license

SI No	Component name	License type
49	Newtonsoft.Json.dll 6.0.3.17227	MIT
50	RestSharp.dll 104.1.0.0	Apache License Version 2.0
51	Microsoft.Win32.TaskScheduler.dll 2.3.0	MIT
52	Interop.NETWORKLIST.dll 1.0.0.0	Windows OS License - PIA files (Primary Interop Assemblies)
53	Interop.NetFwTypeLib.dll 1.0.0.0	Windows OS License - PIA files (Primary Interop Assemblies)
54	7zip.dll	GNU LGPL

## License Type Details

### Apache License, Version 2.0

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Version 2.0, January 2004

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#### THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk University of Cambridge Computing Service, Cambridge, England.

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js/src/asmbl/asmbl/MacroAssemblerX86\_64.h

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js/src/metrics/jint/v8/run.js

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js/src/v8/crypto.js

js/src/v8/deltablue.js

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js/src/v8/run-deltablue.js





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# Terminology

The following table lists the important terminology used in the guide:

**Table 164. Terminology**

Terminology	Definition
Private cloud	Edge Device Manager server installation, installed on premise that is private to your organization's data-center.
WDA	Wyse device agent which resides in the device and acts as an agent for communication between server and client.
Local repository	Application, and file repository that is installed by default in the Edge Device Manager server.
Remote repository	Application, and file repositories that can be optionally installed as standalone for scalability and reliability across geographies for content transfer.
Public cloud	Edge Device Manager hosted on public cloud with convenience and cost savings of not having to set up and maintain infrastructure and software.
Add-on/App	Any component or package which is not a part of the base build and provided as an optional component which can be pushed from management solution. For example, the Latest connection brokers such as VMware and Citrix.
On-premise	Edge Device Manager server installation, installed on premise that is private to your organizations data center.
Tenant	A tenant is a group of users who share common access with specific privileges to the Edge Device Manager access. It is a unique key assigned to specific customer to access the management suite.
Jobs	The scheduled packages or commands to the devices are known as jobs. These jobs are listed in the <b>Jobs</b> page.
Users	Local users and users imported from Active Directory can be assigned global administrator, group administrator, and viewer roles to log in to Edge Device Manager. Users are given permissions to perform operations based on roles assigned to them.