

Windows Rugged Platform

VMware Workspace ONE UEM 1907



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Contents

1	Introduction to the Windows Rugged Platform	5
	Windows Rugged Requirements	5
2	Product Provisioning	6
3	Windows Rugged Enrollment	7
	Enroll Windows Rugged Devices Through Web Enrollment	7
	Unenroll Windows Rugged Devices	8
	AirWatch Cab Creator for Windows Rugged	8
	Create a Custom CAB	9
4	Windows Rugged Profiles	12
	Create a Passcode Profile (Windows Rugged)	14
	Create a Restrictions Profile (Windows Rugged)	14
	Dynamic Wi-Fi Profiles (Windows Rugged)	15
	Configure a Wi-Fi Profile (Windows Rugged)	16
	Configure a Motorola Fusion Wi-Fi Profile (Windows Rugged)	17
	Exchange ActiveSync Profiles (Windows Rugged)	20
	Configure an Exchange ActiveSync Profile (Windows Rugged)	21
	Credentials Profile (Windows Rugged)	22
	Create a Credentials Profile (Windows Rugged)	22
	Launcher Profile (Windows Rugged)	23
	Create a Launcher Profile (Windows Rugged)	23
	Update the Launcher Profile from the Windows Rugged Device	26
	Configure Shared Device Launcher Profiles (Windows Rugged)	27
	Create a VPN Profile (Windows Rugged)	28
	Create a Time Sync Profile (Windows Rugged)	29
	Create a Shortcut Profile (Windows Rugged)	30
	Create a Time Zone Profile (Windows Rugged)	30
	Create a Custom Attribute Payload	31
	Create a Proxy Profile (Windows Rugged)	32
	Create a GPRS Profile (Windows Rugged)	32
5	Compliance Policies	34
6	Configure the Workspace ONE Intelligent Hub for Windows Rugged	35
	Windows Rugged Device Logging with the Workspace ONE Intelligent Hub	38
	Configure Log Files	39

7	Custom Attributes	40
	Create Custom Attributes	40
	Custom Attributes Importing	41
	Custom Attributes, WinRugg	42
	Create an XML Provisioning File	44
8	Windows Rugged Device Management	46
	Device Dashboard	46
	Device List View	47
	Device Details Page, WinRugg	48
	Advanced Remote Management	52
9	Lookup Values	53

Introduction to the Windows Rugged Platform

1

Workspace ONE UEM provides you with a robust set of mobility management solutions for enrolling, securing, configuring, and managing your Windows Rugged deployment. Through the UEM console, you have several tools and features for managing the entire lifecycle of corporate and employee-owned devices.

Windows Mobile and Windows CE devices and their operating systems are proven performers in rugged environments like warehouses, courier services, and healthcare facilities. These devices represent most mobile devices in these environments and can perform many functions such as sales, inventory, scanners, and more. With the Workspace ONE UEM solution, you can manage these devices and integrate them with your other mobile platforms, which give you a central location for mobile device management.

This chapter includes the following topics:

- [Windows Rugged Requirements](#)

Windows Rugged Requirements

Before reading this guide, gather and prepare the requirements Workspace ONE UEM requires for Windows Rugged devices.

Platforms Supported

- Windows CE 5, 6, and 7.
- Windows Mobile 5.x.
- Windows Mobile 6.1.
- Windows Mobile 6.5 (Professional and Standard).
- Windows Embedded 6.5.

Agents and Versions Supported

Workspace ONE UEM recommends using the version 5.X.X of the Workspace ONE Intelligent Hub for Windows Rugged. Workspace ONE UEM no longer supports bug reports, code changes, or new enhancements for previous versions of the Workspace ONE Intelligent Hub for Windows Rugged.

Product Provisioning

Product provisioning in Workspace ONE UEM powered by AirWatch enables you to create products containing profiles, applications, files/actions, and event actions for Windows Rugged devices. These products follow a set of rules, schedules, and dependencies as guidelines for ensuring your devices remain up-to-date with the content they need.

Product provisioning also encompasses the use of relay servers. These servers are FTP(S) servers designed to work as a go-between for devices and the UEM console. Create these servers for each store or warehouse to store product content for distribution to your devices.

For details, see the **Product Provisioning Documentation**, found on docs.vmware.com.

Windows Rugged Enrollment

Enroll Windows Rugged devices into Workspace ONE UEM to access internal content and features using Web enrollment. Web enrollment directs the user to an enrollment URL to complete enrollment and download the Workspace ONE Intelligent Hub for your devices.

Device enrollment is required for all Windows Rugged devices you want managed by Workspace ONE UEM.

If you use the Product Provisioning functionality, you can enroll your Windows Rugged devices through additional enrollment methods. These additional methods, including sideload staging, require product provisioning.

This chapter includes the following topics:

- [Enroll Windows Rugged Devices Through Web Enrollment](#)
- [Unenroll Windows Rugged Devices](#)
- [AirWatch Cab Creator for Windows Rugged](#)

Enroll Windows Rugged Devices Through Web Enrollment

Simplify device enrollment with Web Enrollment instead of downloading the Workspace ONE Intelligent Hub manually. Send end users to a URL to enroll their devices into Workspace ONE UEM.

Procedure

- 1 Go to the enrollment URL using the native browser on the device.
- 2 Enter the applicable Workspace ONE UEM solution information in the **Group ID**, **Username**, and **Password** text boxes.
- 3 Optionally, select the **Device Ownership** type (**Employee Owned**, **Corporate-Dedicated**, or **Corporate-Shared**) and select **Enroll**.
- 4 Accept the **Terms of Use** if this option is configured.
- 5 Select **Accept** to download the Workspace ONE Intelligent Hub to the device.
- 6 Select **Continue** to complete the enrollment.

Unenroll Windows Rugged Devices

When the time comes to unenroll a device from Workspace ONE UEM, ensure that you select the best method for your situation. Unenroll devices using enterprise wipe from the UEM console or remove the Workspace ONE Intelligent Hub from the Windows Rugged device.

Enterprise wipe enables you to clear corporate data, applications, and profiles from a device without removing personal data. This action enables you to unenroll an employee-owned device without clearing the personal data.

Procedure

- 1 Navigate to **Devices > List View** and select the Windows Rugged device you want to unenroll.
- 2 From the Device Detail page, select the **More** option.
- 3 Select the **Enterprise Wipe** option under **Management**.
- 4 Enter your Admin PIN to confirm the Enterprise Wipe.

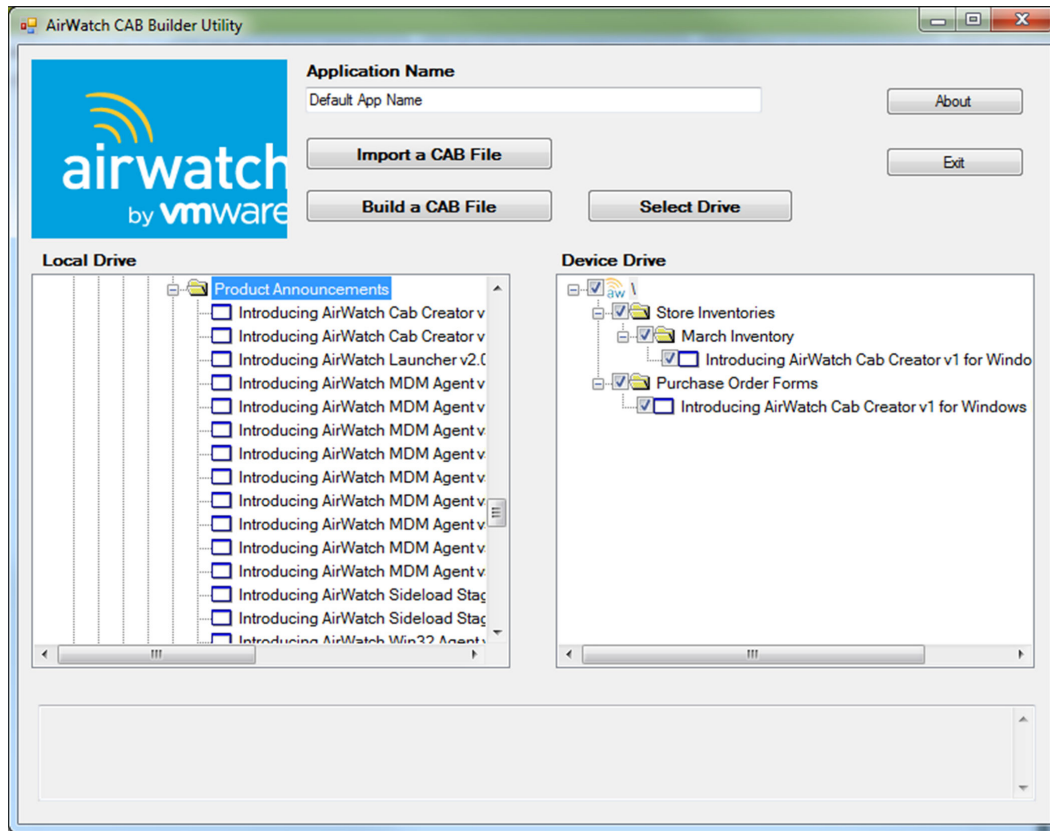
The device undergoes an enterprise wipe to remove corporate data and unenroll the device from Workspace ONE UEM.

AirWatch Cab Creator for Windows Rugged

The AirWatch Cab Creator for Windows Rugged allows you to create custom CAB files for use on Windows Rugged devices. These custom CAB files consist of any files or applications you add from your computer.

Simplify the install process combining all the files and applications you want on your Windows Rugged device into a custom CAB file. You can import CAB files into your own custom CAB file.

This feature allows you to create one custom CAB file that contains all the CAB files you must install on a device. You can also use the AirWatch Cab Creator to edit any existing CAB file on your PC. The AirWatch Cab Creator also supports importing files that you can then convert to CAB file upon saving.



Create a Custom CAB

Simplify installation of files onto your Windows Rugged devices by creating custom CAB files using the AirWatch Cab Creator for Windows Rugged. These custom CABS can contain your business files or the files necessary to upgrade your Windows Rugged devices.

Prerequisites

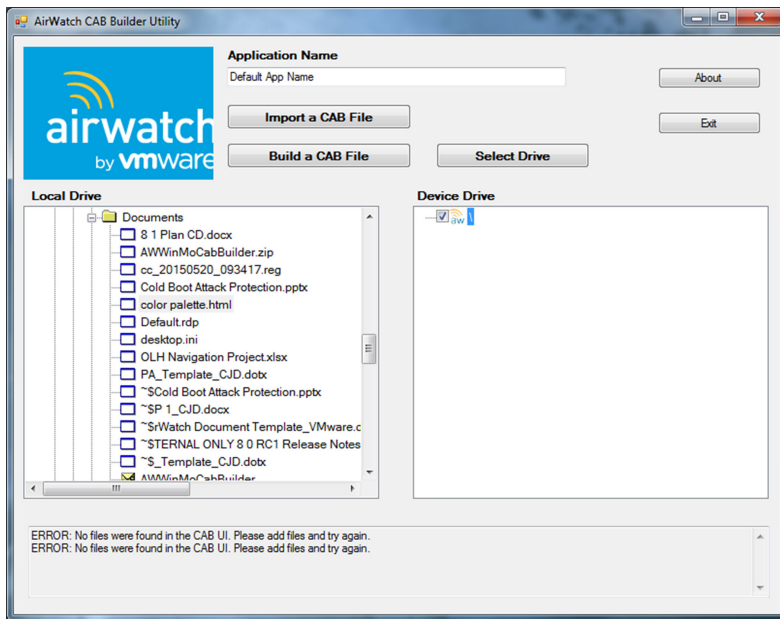
To use the AirWatch Cab Creator for Windows Rugged, you must meet the following requirements:

- A Windows device running Windows 7+
- .NET Framework 4.5

Procedure

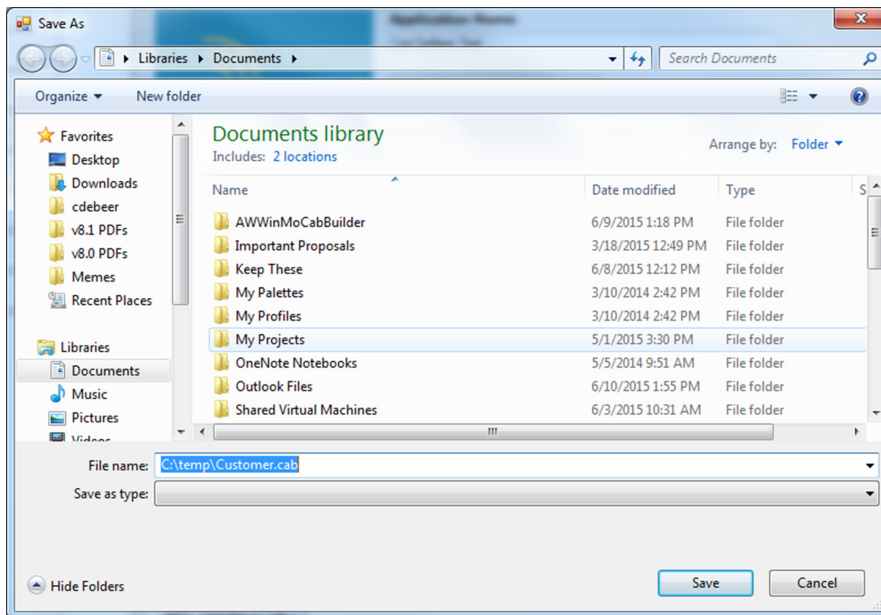
- 1 Download the "AirWatch Cab Creator" for Windows Rugged from the [MyWorkspaceONE portal](#).
- 2 Unzip the file to your preferred directory.

- 3 Double-click CabBuilder.exe to start the app.



- 4 Navigate to a file on your **Local Drive** you want to add to the custom CAB file. You can select a different drive by selecting **Select Drive**.
- 5 Enter an **Application Name**. This text box is the name of the CAB file after installation. Remember the name for use in Uninstall Manifest items.
- 6 Select the file and drag it to the **Device Drive** pane.
To create a folder on the device drive, right-click the root drive and select **Add Folder**.
- 7 Repeat Step 5 for each file or application you want to add to the custom CAB file.
- 8 (Optional) Add an existing CAB file to your custom CAB file by selecting **Import a CAB File**.

- 9 Select **Build a CAB File** to save the CAB file and select a name for the file.



- 10 Select **Save** to create a custom CAB file.

Windows Rugged Profiles

Profiles are the primary means to manage devices. Configure profiles so your Windows Rugged devices remain secure and configured to your settings.

Overview

You can think of profiles as the settings and rules that, when combined with compliance policies, help you enforce corporate rules and procedures. They contain the settings, configurations, and restrictions that you want to enforce on devices.

The individual settings you configure, such as the settings for Wi-Fi, VPN, and passcodes, are called payloads. Consider associating only one payload per profile. Create multiple profiles for the different settings you want to establish.

Device Access

Some device profiles configure the settings for accessing a Windows Phone device. Use these profiles to ensure that access to a device is limited only to authorized users.

Some examples of device access profiles include:

- Secure a device with a Passcode profile. For more information, see [Create a Passcode Profile \(Windows Rugged\)](#).
- Configure the device launcher and layout. For more information, see [Launcher Profile \(Windows Rugged\)](#).

Device Security

Ensure that your Windows Phone devices remain secure through device profiles. These profiles configure the native Windows security features or configure corporate security settings on a device through Workspace ONE UEM.

Some examples of device security profiles include:

- Use a Wi-Fi profile to connect enrolled devices to your corporate Wi-Fi without sending the network credentials to users. For more information, see [Dynamic Wi-Fi Profiles \(Windows Rugged\)](#).
- Ensure access to internal resources for your devices with the VPN profile. For more information, see [Create a VPN Profile \(Windows Rugged\)](#).

Device Configuration

Configure the various settings of your Windows Phone devices with the configuration profiles. These profiles configure the device settings to meet your business needs.

Some examples of device configuration profiles include:

- Set up an Exchange account on a device with an Exchange ActiveSync profile. For more information, see [Configure an Exchange ActiveSync Profile \(Windows Rugged\)](#).
- Configure the device time zone. For more information, see [Create a Time Zone Profile \(Windows Rugged\)](#).

Profiles and Product Provisioning

If you plan on using these profiles for product provisioning, see the **Product Provisioning for Windows Rugged Documentation** in docs.vmware.com.

This chapter includes the following topics:

- [Create a Passcode Profile \(Windows Rugged\)](#)
- [Create a Restrictions Profile \(Windows Rugged\)](#)
- [Dynamic Wi-Fi Profiles \(Windows Rugged\)](#)
- [Configure a Wi-Fi Profile \(Windows Rugged\)](#)
- [Configure a Motorola Fusion Wi-Fi Profile \(Windows Rugged\)](#)
- [Exchange ActiveSync Profiles \(Windows Rugged\)](#)
- [Credentials Profile \(Windows Rugged\)](#)
- [Launcher Profile \(Windows Rugged\)](#)
- [Create a VPN Profile \(Windows Rugged\)](#)
- [Create a Time Sync Profile \(Windows Rugged\)](#)
- [Create a Shortcut Profile \(Windows Rugged\)](#)
- [Create a Time Zone Profile \(Windows Rugged\)](#)
- [Create a Custom Attribute Payload](#)
- [Create a Proxy Profile \(Windows Rugged\)](#)
- [Create a GPRS Profile \(Windows Rugged\)](#)

Create a Passcode Profile (Windows Rugged)

Deploy a Passcode payload to require users to protect their devices with passcodes each time they return from an idle state. This action ensures that all sensitive corporate information on managed devices remains protected.

Important Passcode payloads apply only to Windows Rugged devices and not Windows CE devices.

Procedure

- 1 Navigate to **Devices > Profiles > List View > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Passcode** profile.
- 5 Configure the Passcode settings:

Settings	Descriptions
Maximum Passcode Age	Requires users to renew passcodes at selected intervals.
Passcode	Sets a specific passcode for the device.
Maximum Passcode Length	Sets the maximum number of characters for your passcode.
Minimum Passcode Length	Sets the minimum number of characters for your passcode.
Minimum Number of Upper Case Letter	Sets the minimum number of upper case letters a passcode must contain.
Minimum Number of Lower Case Letter	Sets the minimum number of lower case letters a passcode must contain.
Minimum Number of Numerical Digits	Sets the minimum number of numerical digits a passcode must contain.
Grace period for device lock	Specifies a period of inactivity before locking a device.
Maximum Number of Failed Attempts	Sets a limit on failed passcode attempts before wiping a device.

- 6 Select **Save & Publish** to push the profile to devices.

Create a Restrictions Profile (Windows Rugged)

Deploy a Restrictions payload to restrict the options end users have on devices. Restrictions allow you to ensure that your device is secure by controlling what an end user can use to save and store data.

Important You can use a Restriction payload only on Windows Rugged devices and not on Windows CE devices.

Procedure

- 1 Navigate to **Devices > Profiles > List View > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.

- 3 Configure the profile's **General** settings.
- 4 Select the **Restrictions** profile.
- 5 Configure the Restriction settings.

Settings	Descriptions
Allow Camera	Enable to allow access to the camera application.
Allow External Storage	Enable to allow use of external storage memory.
Remove Encryption on External Storage	Enable to allow the removal of encryption on external storage.
Enable On-Device Encryption	Enable to allow encryption on the device.
Allow Bluetooth	Enable to allow the use of Bluetooth.

- 6 Select **Save & Publish** when you are finished to push the profile to devices.

Dynamic Wi-Fi Profiles (Windows Rugged)

Using custom attributes, you can create dynamic Wi-Fi profiles that allow you to configure device Wi-Fi settings across smart groups and OGs without creating multiple profiles. The custom attributes can use device-side values or override device values with a specific value.

This feature works best when managing many different Wi-Fi networks across your mobile fleet. When updating the access credentials for all your Wi-Fi networks, import a batch of custom attributes (using the .csv batch import process). Using the Device Custom Attribute Values template, you can upload specific values to individual devices. This process allows you to update the credentials across your mobile fleet quickly without having to create hundreds of different Wi-Fi profiles.

Dynamic Wi-Fi profiles allow you to specify certain text boxes in the profile as a dynamic value. For example, the **Service Set Identifier** can be set to a dynamic value so devices can use their own value as opposed to one service set identifier per profile. If you have devices in one OG that use different Wi-Fi credentials, use dynamic Wi-Fi profiles to create one profile that configures the different settings required.

To use a custom attribute in your Wi-Fi Profile, enable the check box next to a text box. Enabling the text box allows you to select the custom attribute, enter a default value, and set the default value to override device values for the attribute.

For more information on custom attributes and instructions for creating them, see [Chapter 7 Custom Attributes](#).

Configure a Wi-Fi Profile (Windows Rugged)

Create a Wi-Fi profile to connect devices to hidden, encrypted, or password-protected corporate networks. Wi-Fi profiles are useful for end users who need access to multiple networks or for configuring devices to connect automatically to the appropriate wireless network.

Important Zero Wireless Config is not available for Windows CE devices except Psion CE devices. You can provision Wi-Fi profiles using Zero Wireless Config to Psion CE devices only but not any other Windows CE devices.

Procedure

- 1 Navigate to **Devices > Profiles > List View > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Wi-Fi** profile.
- 5 Configure the Wi-Fi settings:

Settings	Descriptions
Network Adapter Type	Select the adapter type. <ul style="list-style-type: none"> ■ Standard Microsoft (Zero Wireless Config). ■ Motorola Fusion – For more information, see Configure a Motorola Fusion Wi-Fi Profile (Windows Rugged). ■ Honeywell DeviceScope – Network Adapter Type for Honeywell devices.
Service Set Identifier	Enter an identifier that is associated with the name (SSID) of the desired Wi-Fi network.
Wi-Fi Meta Network	Select whether you are connecting through a proxy with Work or connecting directly to the Internet .
RFBand	Honeywell Network Adapter Type only.
IP Addressing Mode	Select the type of IP Addressing mode used.
Operating Mode	Select the type of operating mode used.
Security Type	Select your Wi-Fi security type. The type selected determines which additional text boxes display.
Authentication Type	Select the Authentication type to be used with enterprise applications.
Encryption	Select the encryption type for traffic over the Wi-Fi connection.
Pre Shared Key	Enter the Pre Shared Key for your Wi-Fi. Displays when Security type is set to WPA Personal or WPA2 Personal .
Domain Name	Enter the Domain name for your certificates. Displays when Security type is set to WPA Enterprise or WPA2 Enterprise .
Username	Enter the user name for the domain. Displays when Security type is set to WPA Enterprise or WPA2 Enterprise .

Settings	Descriptions
Password	Enter the password used for the domain. Displays when Security type is set to WPA Enterprise or WPA2 Enterprise .
Identity Certificate	Select the certificate used to identify the end user to the server.
Server Certificate	Select the certificate used to identify the server to the end user.

- 6 Select **Save & Publish** to push the profile to devices.

Configure a Motorola Fusion Wi-Fi Profile (Windows Rugged)

The Windows Rugged Wi-Fi profile allows you to specify the network adapter to support the Motorola Fusion type of network adapter. These settings allow you to control when and how often the device connects to Wi-Fi.

The settings differ based on the Motorola adapter type selected.

Note The settings that follow are based on the specific Motorola adapter type selected.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Wi-Fi** profile and click the **Configure** button.
- 5 Configure the Wi-Fi settings.

Settings	Descriptions
Network Adapter Type	Set to Motorola Fusion. For other adapter types, see Configure a Wi-Fi Profile (Windows Rugged) .
Motorola Adapter Type	These options change the text boxes available. Text boxes that are tied to a specific Motorola adapter type are noted. Scroll down to view the settings specific to the WLAN of your choice, WLANFusionPublic, WLANFusion3xPublic, and WLANFusionX2Public.
Set Fusion Options	Set to Yes to list extra network options.
Enable 80211d	Set to Change to enable 802.11d wireless specification for operation in extra regulatory domains.
Change Regulatory Country Code	Set to Change to select the Country Code for the device.
Set RFBand	Set to Change to specify the RF Band for the device.
Enable Auto Time Config	Set to Change to enable automatic time configuration.
Set FAPI Access Password	Set to Change to select a FAPI access code.
Set FAPI Access Code	Enter the FAPI Access Code you want for the device.

Settings	Descriptions
Set Profile Configuration	Set to Yes to set the profile settings.
Service Set Identifier	Identifies the wireless network to be connected. This text box includes an option to set its value dynamically with custom attributes. You can also use lookup values.
Profile Country Code	Enter the country code to use with the profile.
Wi-Fi Meta Network	Select whether you are connecting through a proxy with Work or connecting directly to the Internet .
IP Addressing Mode	Select to use DHCP or Static IP Addressing. If you select Static , enter the settings for your static IP address.
Disable all other Profiles	Set to Yes to disable all other Wi-Fi profiles on the device.
Operating Mode	Select the operating mode.
Transmit Power Level	Select the transmit power level.
Power Level	Select the balance of power use.
Security Type	Select the encryption type for the network connection.
Authentication Type	<p>Select an authentication type to be used with enterprise applications. Additional text boxes display depending on the type selected.</p> <p>The FAST authentication types (EAP-FAST-MSCHAPV2, EAP-FAST-TLS, and EAP-FAST-GTC) add the following additional text boxes:</p> <ul style="list-style-type: none"> ■ Auto PAC Refreshing ■ Auto PAC Provisioning ■ PACFile Name ■ PACFile Password ■ Use GTC Token
Encryption	Select the encryption type used for the Wi-Fi connection.
Pre Shared Key	Enter the Pre Shared Key used for the Wi-Fi Connection.
Change CCKM Setting	Enable to change the CCKM Mode.
Domain Name	Enter the domain name used in authentication.
Username	Enter the user name used for authentication.
Password	Enter the password used for authentication.
Identity Certificate	Set to Other and enter the certificate name used for authentication.
Server Certificate	Set to Other and enter the certificate name used for authentication.
Set Fusion Options	Set to Yes to list extra network options.
Enable 80211d	Set to Change to enable 802.11d wireless specification for operation in additional regulatory domains.
Change Regulatory Country Code	Set to Change to choose the Country Code for the device.
Set RFBand	Set to Change to specify the RF Band for the device.
Enable Auto Time Config	Set to Change to enable automatic time configuration.
Set FAPI Access Password	Set to Change to choose a FAPI access code.
Set FAPI Access Code	Enter the FAPI Access Code for the device.

Settings	Descriptions
Set WLAN Management Mode	Set to Change to configure the WLAN Management Mode settings.
WLAN Management Mode	Select either the Wireless Zero Config or Fusion Management State modes.
Set Profile Configuration	Set to Yes to set the profile settings.
Handle Error By	Choose to Ignore Error or Stop On Error .
Set Current Management Mode Option	Set to Change to configure the management mode.
Apply Profile Regardless of Device's Current Management Mode Configuration	Enable to apply the Wi-Fi profile regardless of current management mode.
Service Set Identifier	Enter the identification of the wireless network the device connects with.
Profile Country Code	Enter the country code to use with the profile.
Wi-Fi Meta Network	Select whether you are connecting through a proxy with Work or connecting directly to the Internet .
IP Addressing Mode	Select to use DHCP or Static IP Addressing. If you select Static , enter the settings for your static IP address.
Disable all other Profiles	Set to Yes to disable all other Wi-Fi profiles on the device.
Operating Mode	Select the operating mode. Transmit Power Level: Select the transmit power level. Adhoc Channel: Select the Ad Hoc channel the devices use. Encryption: Select the encryption type for the Wi-Fi network. Pre Share Key: Enter the Pre Shared Key used for the network.
Transmit Power Level	Select the transmit power level.
Power Level	Select the balance of power use.
Security Type	Select the encryption type for the network connection.
Pre Shared Key	Enter the Pre Shared Key used for the Wi-Fi Connection.
Change CCKM Setting	Enable to change the CCKM Mode.
Domain Name	Enter the domain name used in authentication.
Username	Enter the user name used for authentication.
Password	Enter the password used for authentication.
Identity Certificate	Set to Other and enter the certificate name used for authentication.
Server Certificate	Set to Other and enter the certificate name used for authentication.
Enable 80211d	Set to Change to enable 802.11d wireless specification for operation in additional regulatory domains.
Set RFBand	Set to Change to specify the RF Band for the device.
Enable Auto Time Config	Set to Change to enable automatic time configuration.
Set FAPI Access Password	Set to Change to select an FAPI access code.
Enable IPv6	Set to Change to enable IPv6 settings.
Set WLAN Management Mode	Set to Change to configure the WLAN Management Mode settings.

Settings	Descriptions
WLAN Management Mode	Select either the Wireless Zero Config or Fusion Management State modes.
Enable FIPS Mode	Set to Change to enable FIPS mode.
Change PreAuth	Enable PreAuth to allow access points to authorize devices before they officially switchover to the new access point.
Reset Fusion Options	Set to Reset to reset the device's Fusion options when pushing this profile to the device.
Reset Fusion Data Store	Set to Reset to reset the Fusion data store on a device.
Set Profile Configuration	Set to Yes to set the profile settings.
Handle Error By	Select to Ignore Error or Stop On Error .
Service Set Identifier	Enter the identification of the wireless network the device connects with.
Profile Country Code	Enter the country code to use with the profile.
Wi-Fi Meta Network	Select whether you are connecting through a proxy with Work or connecting directly to the Internet .
IP Addressing Mode	Select to use DHCP or Static IP Addressing. If you choose Static , enter the settings for your static IP address.
Disable all other Profiles	Set to Yes to disable all other Wi-Fi profiles on the device.
Operating Mode	Select the operating mode. <ul style="list-style-type: none"> ■ Transmit Power Level: Choose the transmit power level. ■ Adhoc Channel: Select the Ad Hoc channel the devices use. ■ Encryption: Select the encryption type for the Wi-Fi network. ■ Pre Share Key: Enter the Pre Shared Key used for the network.
Transmit Power Level	Select the transmit power level.
Power Level	Select the balance of power use.
Security Type	Select the encryption type for the network connection.
Pre Shared Key	Enter the Pre Shared Key used for the Wi-Fi Connection.
Change CCKM Setting	Enable to change the CCKM Mode.
Domain Name	Enter the domain name used in authentication.
Username	Enter the user name used for authentication.
Password	Enter the password used for authentication.

- 6 After setting the Motorola adapter type specific settings, select **Save & Publish** to push the profiles to devices.

Exchange ActiveSync Profiles (Windows Rugged)

The Exchange ActiveSync profiles enable you to configure your Windows Rugged devices to access your Exchange ActiveSync server for email and calendar use.

Strongly consider only using certificates signed by a trusted third-party certificate authority (CA). Mistakes in your certificates expose your otherwise secure connections to potential man-in-the-middle attacks. Such attacks degrade the confidentiality and integrity of data transmitted between product components, and might allow attackers to intercept or alter data in transit.

The Exchange ActiveSync profile supports the native mail client for Windows Desktop. The configuration changes based on which mail client you use.

Important You can use an EAS payload only on Windows Mobile devices and not on Windows CE devices.

Configure an Exchange ActiveSync Profile (Windows Rugged)

Create an Exchange ActiveSync profile to give Windows Phone devices access to your Exchange ActiveSync server for email and calendar use.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Exchange ActiveSync** profile and click the **Configure** button.
- 5 Configure the Exchange ActiveSync settings.

Settings	Descriptions
Domain	Enter the domain for the Exchange account. You can use lookup values to create dynamic profiles.
Exchange ActiveSync Host	Enter the hostname or IP address for the Exchange ActiveSync server.
User	Enter the user name for the Exchange account. You can use lookup values to create dynamic profiles.
Use SSL	Enable to send all communications through the Secure Socket Layer.
Max Body Truncation	Select the maximum amount an email body is truncated in bytes.
Past Days of Calendar to Sync	Enter the number of days of Calendar events to download when the account syncs for the first time on the device.
Past Days of Mail to Sync	Enter the number of days of emails to download when the account syncs for the first time on the device.
Max HTML Truncation	Select the level of truncation for HTML emails.
Max Email Truncation	Select the maximum amount an email is truncated in bytes.
Max Email File Attachment Size (MB)	Select the max size (in MB) that a file can be when attached.
Allow Sync When Roaming	Enable to allow the email client to sync when the device is roaming.
Allow Calendar Sync	Enable to allow the syncing of calendars.
Allow Contacts Sync	Enable to allow the syncing of contacts.

Settings	Descriptions
Allow Tasks	Enable to allow the syncing of tasks.
Allows Text Messages	Enable to allow the syncing of text messages.
Allow Email Sync	Allow the syncing of email. Disabling this setting removes access to email through Exchange Active Sync.
Sunday	Enable to allow schedule of syncing on Sundays
Monday	Enable to allow schedule of syncing on Mondays.
Tuesday	Enable to allow schedule of syncing on Tuesdays.
Wednesday	Enable to allow schedule of syncing on Wednesdays.
Thursday	Enable to allow schedule of syncing on Thursdays.
Friday	Enable to allow schedule of syncing on Fridays.
Saturday	Enable to allow schedule of syncing on Saturdays.
Peak Start Time	Select the start time of the peak time period.
Peak End Time	Select the end time of the peak time period.
Sync Schedule Peak	Select what level of syncing happens during the peak time period.
Sync Schedule Off Peak	Select what level of syncing happens outside the peak time period.

- 6 Select **Save & Publish** to push the profile to devices.

Credentials Profile (Windows Rugged)

A Credentials profile allows you to push Root, Intermediate, and Client certificates to support any Public Key Infrastructure (PKI) and certificate authentication use case. The profile pushes configured credentials to the proper credentials store on the Windows Rugged device.

Even with strong passcodes and other restrictions, your infrastructure remains vulnerable to brute force, dictionary attacks, and employee error. For greater security, you can implement digital certificates to protect corporate assets. To use certificates in this way, you must first configure a Credentials payload with a certificate authority, and then configure your Wi-Fi and VPN payloads. Each of these payloads has settings for associating the certificate authority defined in the Credentials payload.

Create a Credentials Profile (Windows Rugged)

A Credentials profile pushes certificates to devices for use in authentication. With Workspace ONE UEM, you can configure credentials for intermediate, trusted root, trusted publisher, and trusted people certificate stores.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.

- 4 Select the **Credentials** profile and click the **Configure** button.
- 5 Configure the Credentials settings.

Settings	Description
Credential Source	Use the drop-down menu to select either Upload or Defined Certificate Authority .
Credential Name	Enter a name for the credentials certificate. Displays if the Credential Source is Upload .
Certificate	Select Upload , navigate to the desired credential certificate file, and select Save . Displays if the Credential Source is Upload .
Certificate Authority	Use the drop-down menu to select a predefined certificate authority. Displays if the Credential Source is Define Certificate Authority .
Certificate Template	Use the drop-down menu to select a predefined certificate template specific to the selected certificate authority. Displays if the Credential Source is Define Certificate Authority .
Store Location	Use the drop-down menu to select to save the certificate on the specific user account level or on the Computer Store for all users of a computer.
Certificate Store	Select the certificate store folder location from the drop-down menu. <ul style="list-style-type: none"> ■ Trusted Root Certification Authorities ■ Trusted Publishers ■ Untrusted Certificates ■ Trusted People

- 6 Select **Save & Publish** to push the profile to devices.

Launcher Profile (Windows Rugged)

The Workspace ONE UEM App Launcher restricts user access to a list of allowed applications and native features on the device. Use the App Launcher to control the apps available to end users and the layout of the device home screen.

The Launcher profile enables you to customize the look and layout of the Windows Rugged device home screen. You can configure the launcher profile to start when the device starts to limit end-user access to the entire device. To limit end-user access to the correct apps on a shared device, you can set the launcher profile to display based on the user group of the end user. This functionality allows you to tailor the launcher to the role of the end user using a shared device.

Customize the launcher to display different settings and apps based on the layout you want. To manage the device, the launcher profile includes different tools for admins to troubleshoot the device.

Create a Launcher Profile (Windows Rugged)

Configure the Workspace ONE UEM App Launcher profile to customize the layout and apps of a Windows Rugged device using the App Launcher. This customization allows you to control end-user access to the device settings and applications based on the roles of the user.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Launcher** profile and click the **Configure** button.
- 5 Enter a **Title** for the launcher profile. You can use the supported Workspace ONE UEM Lookup Values. Select (i) for a list of all Workspace ONE UEM supported Lookup Values.
- 6 Define an **Administrative Passcode** for setting configurations on the device
- 7 Define the **User Category** of the end user if Shared Devices are enabled in the Windows Rugged Hub Settings page. The user category ties end users to specific Launcher profiles allowing you to tailor Launcher layout and configuration to individual end users. Consider creating user groups based on the end user's role.
- 8 Configure the remaining options:

Settings	Descriptions
Application Name	Specifies the application name that displays in the Workspace ONE UEM App Launcher.
File Path to Exe	Defines the file path of the application and includes the executable file.
Arguments	Enter any command-line arguments to run the application.
Hide	Masks the application on the device.
Start Up Options	Select the condition that triggers the launcher starting.
Delayed Launch	Select the time (in seconds) that the launcher is delayed from starting following device boot. This setting requires Start Up Options to be set to Delayed Start .
Console Application	Defines the application as not having a user interface or as a background process.
Tools Menu	Lists applications on the Tools menu for the App Launcher.
Background Application	Select if the application requires no user interaction and you want it to run in the background.
Disable App Close	Removes the close button from the application preventing the user from closing the app. Select this option only for dedicated use applications.
Enable Home Button	Allows you to minimize a whitelisted application and return to the main App Launcher page while keeping the current session active for that app. If you want to return to the minimized app, select the icon on the App Launcher screen.
Application Icon Path	Defines the path to the location of the application icon that resides on the device. If the desired icon does not reside on the device, then you can upload an image.
Upload Icon	Allows you to upload an image (icon) that can be associated to an application by entering the path in the Application Icon Path text box.
View Time	Displays the time for application processes.

Settings	Descriptions
Disable Active Sync	Disables the use of the Exchange ActiveSync protocol for application transactions.
Disable Keyboard	Disables the use of the device keyboard to perform application processes.
View IP Address	Displays the device's IP address within application processes.
Enable Native Taskbar	Uses the default taskbar for that device instead of the custom launcher taskbar. *When selected, these settings are disabled except for View Time , Disable Active Sync , Disable Keyboard , and View IP Address . These exceptions exist because the native taskbar only displays the icons/settings that are available to that device.
View Connection Status	Displays the connection status of the device.
Show Message Notification	Displays a message indicator for unviewed messages from a third-party application.
Display Organization Group	Displays the Organization Group of the signed-in user.
View Wi-Fi Signal	Displays the strength of the Wi-Fi signal.
View Cell Signal	Displays the strength of the cell signal.
View Battery Icon	Displays the amount of power remaining in the battery.
View Volume	Displays the level the volume is set to on the device.
Display Missed Call Notification	Displays a notification when an incoming call was not answered/missed.
Display SMS/Text Notification	Displays a notification when the device received a text message.
Tools	The following settings allow the user to customize and manage the contents of the Tools Menu on the Launcher. You can select any combination of the following options to make those options available to the user on the Tools Menu. A second option is to whitelist the application under the Allowed Application section by selecting the Tools Menu option next to that application. A third option is to configure apps directly on a device, provided the configure option is enabled.
Restart AW Hub	Allows the user to restart the AirWatch Service on the device.
Restart AWCM	Allows the user to restart the AWCM Service on the device.
Start AW Diagnostics	Allows the user to open and access the AirWatch Diagnostics utility.
Start App Manager	Allows the user to open and access the Application Manager utility. The Launcher is capable of multiple profile support . Profiles that are active and meet the assignment criteria for that device. Multiple profile support requires Workspace ONE Intelligent Hub version 4.0.0.13 or higher.
Configure	Allows the user to configure all areas of the Launcher directly on the device, including Allowed Applications , Settings , and Tools Menu .

Settings	Descriptions
Select Launcher View/Layout Style	<p>Select the format for the view/layout.</p> <ul style="list-style-type: none"> ■ Grid – Traditional grid layout of applications. ■ List – List of applications with a small thumbnail of the app icon. ■ Plain List – List of applications with no thumbnail of app icon. ■ None – No preset view/layout. End users can select the view/layout they want. If you select a view/layout other than None, end users cannot change the view/layout.
Enable Wallpaper	<p>Enable to set a wallpaper for the Launcher. You must select a Landscape and Portrait mode image.</p> <hr/> <p>Important Wallpapers cannot exceed 640x480 or be more than 20 KB. Images larger than 20 KB cannot display.</p>

9 Select **Save & Publish**.

Update the Launcher Profile from the Windows Rugged Device

You might need to change the applications included in the Workspace ONE UEM App Launcher. This action requires admin credentials to perform.

Procedure

- 1 Open the Workspace ONE UEM App Launcher application on the device.
- 2 Enter the Admin passcode in the **Password** text box and select **Accept**.
- 3 Select the option to **Import**, **Export**, or **Add** applications from and to the list.
- 4 Select **Add** to add an application and complete the following options on the **Add Application** screen:
 - a **Application Location** – Defines the file path of the application or select the **Browse** option.
 - b **Application Name** – Defines the name of the application to display in the Workspace ONE UEM App Launcher.
 - c **Arguments** – Defines command-line arguments to run the application.
 - d **Launch On Start** – Starts the application when the Workspace ONE UEM App Launcher is started.
 - e **Hide from User** – Masks the application in the user interface.
 - f **Console Application** – Defines the application as not having a user interface or as a background process.
- 5 Select **Save**.

Example



Configure Shared Device Launcher Profiles (Windows Rugged)

Workspace ONE UEM allows you to configure Launcher profiles to support multiple end users sharing a single device. Use this feature to customize the Launcher for individual users and their different applications to meet their individual roles.

Prerequisites

Important You must enroll the device into the Parent organization group for the Launcher profiles for various User Categories to push to the device.

Procedure

- 1 Navigate to **Groups & Settings > All Settings > Devices & Users > Windows > Windows Rugged > Hub Settings**.
- 2 Navigate to **Accounts > Users > User Settings > Categories > Add** and enter the Name and Description.

Consider creating the User Categories based on the various roles end users have that require different applications on the device. For example, basic users require different applications than a shift supervisor or manager. To accommodate this requirement, create different User Categories for the basic user, shift supervisor, and manager.

- 3 Select **Enable Shared Device Mode**.
- 4 Navigate to **Accounts > Users > List View** and **Add** new user or **Edit** an existing one.
- 5 Enable **Show Advanced User Details** and select the applicable **Category** based on the role of the user.
- 6 Create and configure a Launcher Profile. Select the applicable **User Category** based on the role of the user for this specific Launcher profile.
- 7 Configure a Launcher profiles for each end-user role. For more information, see [Create a Launcher Profile \(Windows Rugged\)](#)
- 8 End users must enter their credentials and their group ID. To remove the need to enter the group ID, navigate to **Settings > All Settings > Devices & Users > General > Shared Device** and set the **Group Assignment Mode** to **Fixed Organization Group**.

Create a VPN Profile (Windows Rugged)

Create a VPN Profile to deploy corporate VPN settings directly to managed devices. This profile enables end users to access corporate infrastructure remotely and securely.

Important You can use a VPN profile only on Windows Rugged devices, but not on Windows CE devices.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **VPN** profile and click the **Configure** button.
- 5 Configure the VPN settings.

Settings	Descriptions
Connection Type	<p>Defines the connection for the VPN.</p> <p>Both of these types rely on the encryption protocol to be passed within the tunnel because they do not inherently have their own encryption methods.</p> <ul style="list-style-type: none"> ■ PPTP – Point-to-Point Tunneling Protocol. ■ IPSec/L2TP – Layer 2 Tunneling Protocol.
Connection Name	Enter the connection name.
Server	Enter the hostname or IP address of the VPN server.
Username	<p>Enter the user name for the VPN.</p> <p>You can use lookup values to use the device-specific value.</p>
Domain	<p>Enter the domain for the VPN.</p> <p>You can use lookup values to use the device-specific value.</p>

Settings	Descriptions
Authentication	<p>Defines the authentication for the VPN.</p> <ul style="list-style-type: none"> ■ Certificate – Use this option to deploy certificate-based authentication for your VPN connections. <p>You must select this option if you select the Connection Type IPSec/L2TP</p> <ul style="list-style-type: none"> ■ Pre Shared Key – Use the PSK option when you have a shared secret that device users use to access the VPN. <p>This authentication type often uses symmetric key algorithms for security.</p>
Shared Secret	<p>Enter the shared secret for the connection.</p> <p>Displays when Authentication is set to Pre Shared Key.</p>

- 6 Select **Save & Publish** to push the profile to devices.

Create a Time Sync Profile (Windows Rugged)

Deploy Time Sync payloads to synchronize the system time on Windows Rugged devices with time servers to ensure that the device fleet runs on the same clock. This profile is useful for global networks with devices in numerous time zones.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Time Sync** profile and click the **Configure** button.
- 5 Configure the Time Sync settings:

Settings	Descriptions
Time Sync Method	<p>Select the preferred method of time sync.</p> <ul style="list-style-type: none"> ■ Time Server – Select to use a Network Time Protocol server with which to sync devices such as pool.ntp.org. ■ HTTP – Select to enter a URL. This URL can be any URL. For example, you can use www.google.com. ■ SNTP – Select to enter a Simple Network Time Protocol such as time.nist.gov. ■ Console – Select to sync the device with the UEM console.
Primary Time Server	Enter the URL of the time server with which the device syncs.
Port	Enter the port the device uses to sync with the secondary server.
Secondary Server	<p>Enter an optional secondary server the device can use if the primary is unavailable.</p> <p>Displays when Time Server is selected as the Time Sync Method.</p>
Port	<p>Enter the port the device uses to sync.</p> <p>Displays when Time Server is selected as the Time Sync Method.</p>
Sync Time Every	Enter the number of minutes, hours, or days.

- 6 Select **Save & Publish**.

Create a Shortcut Profile (Windows Rugged)

Create a Shortcut profile to push custom icons associated with URLs. These icons provide your end users with the shortcuts to websites they need.

You can add as many icons as needed to a shortcut payload. Upload the icon image file into the Workspace ONE UEM console.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Shortcuts** profile and click the **Configure** button.
- 5 Configure the Shortcuts settings.

Settings	Descriptions
Label	Enter the name associated to the icon that displays on the user's device.
URL	Enter the URL for the website in which the user is advanced to when the user taps on the icon.
Icon	Upload the image file that displays on the user's device that is associated to the URL.

- 6 Select **Save & Publish** to push the profile to devices.

Create a Time Zone Profile (Windows Rugged)

Create a Time Zone profile to configure your Windows Rugged device time zone settings. This profile eliminates having to remote control into the end user's device to set the time zone manually.

After pushing the profile, the device displays the time zone, and all device activity is time stamped based on that time zone regardless of the actual device location.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Time Zone** payload, select the **Time Zone Setup** drop-down, and select **Set Time Zone Manually**.
- 5 Select the **Time Zone** drop-down and select the appropriate time zone from the list.

Create a Custom Attribute Payload

Workspace ONE UEM allows you to create and deploy custom attributes that collect and compare custom-made values from device. Custom attributes are used to manage devices using attributes assigned to or gathered from the devices.

These attributes can be collected or created by third-party applications for use with the UEM console. By using custom attributes, you can ensure that only the devices whose attribute values match the ones you set are selected.

Custom attributes are used by the rules generator of product provisioning to provision products to specific devices. Ensure that your devices are provided the correct values to prevent incorrect products from being provisioned to them. See [Chapter 7 Custom Attributes](#) for more information.

Procedure

- 1 Navigate to **Devices > Products > Profiles > List View** and select **Add** and then select the device platform.
- 2 Configure the profile's **General** settings.
These settings determine how the profile deploys and who receives it.
- 3 Select the **Custom Attribute** profile.
- 4 Select **Add** to configure the custom attributes you want to use.

Settings	Descriptions
Application	Select the application (grouping of custom attributes) that contain the attributes you want to configure.
Custom Attributes	Select the specific custom attributes for the profile to configure.
Value	Enter the custom attribute value to assign to the device.
Is Dynamic	Enable to allow the custom attribute's value to change and be changed based on permissions. If selected, this looks up the custom attribute value for an individual device when the command is queued instead of using the default value specified in the payload. If no value is found, the device's default value is used.
Permission	Set the permission of the custom attribute. <ul style="list-style-type: none"> ■ Read/Write allows the applications to change the attribute value. ■ Read Only restricts applications from changing the value.
Sync	Enable to push the attribute value back to the UEM console to be displayed in the Device Details page.

You can add additional attributes as necessary.

- 5 Select **Save & Publish** to push the profile to devices.

Create a Proxy Profile (Windows Rugged)

Create a proxy profile to set specific proxy settings for devices. Use a proxy to add a layer of security to your Windows Rugged devices.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **Proxy** profile and click the **Configure** button.
- 5 Configure the profile settings.

Settings	Descriptions
Proxy Type	Select Manual to configure the specific settings or Auto to use the settings of a Proxy URL.
Proxy Server	Enter the proxy server URL.
Proxy Server Port	Enter the port used to communicate with the proxy server.
Proxy Username	Enter the user name credential for the proxy server.
Proxy Password	Enter the password credential for the proxy server.
Proxy URL	Enter the URL for the auto proxy settings.

- 6 Select **Save & Publish** to push the profile to devices.

Create a GPRS Profile (Windows Rugged)

The General Packet Radio Service (GPRS) allows mobile data on 2G and 3G cellular communication system for GSM devices. The GPRS payload allows you to configure and control how the device uses GPRS.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add** and select **Add Profile**.
- 2 Select **Windows Rugged**.
- 3 Configure the profile's **General** settings.
- 4 Select the **GPRS** profile and click the **Configure** button.
- 5 Configure the GPRS settings.

Settings	Descriptions
Enabled	Select to enable GPRS management.
Connection Name	Enter the GPRS connection name.

Settings	Descriptions
Destination	Select whether the GPRS connection is to the Internet or a Work intranet.
GPRS Info Access Point Name	Enter the APN the device must connect to. The APN must follow the correct format: <network identifier>.mnc<MNC>.mcc<MCC>.gprs
User name	Enter the user name for connecting to the network.
Password	Enter the password for connecting to the network.
Domain	Enter the network domain.
Advanced	Enable to configure advanced options.
Specific Name Servers	Enable to enter specific name servers to use.
Country Code	Enter the network country code.
Area Code	Enter the device area code.
Use Country and Area Codes	Enable to use Country and Area codes.
Phone	Enter the device phone number.
Device Name	Enter the device name for use in phone books.
Device Type	Select the RAS device type.
Use Software Compression	Allows for faster connection speeds on low-bandwidth networks by compressing the phone book entries.
Use IP Header Compression	Allows for faster connection speeds on low-bandwidth networks by compressing the IP Header.
Specific IP Address	Enable to connect to a specific IP Address.
Read Only	Enable to restrict the device to reading data only.
Authentication Type	Select the type of authentication the network uses.

6 Select **Save & Publish**.

Compliance Policies

The compliance engine is an automated tool by Workspace ONE UEM that ensures all devices abide by your policies. These policies can include basic security settings such as requiring a passcode and having a minimum device lock period.

For certain platforms, you can also decide to set and enforce certain precautions. These precautions include setting password strength, blacklisting certain apps, and requiring device check-in intervals to ensure that devices are safe and in-contact with Workspace ONE UEM. Once devices are determined to be out of compliance, the compliance engine warns users to address compliance errors to prevent disciplinary action on the device. For example, the compliance engine can trigger a message to notify the user that their device is out of compliance.

In addition, devices not in compliance cannot have device profiles assigned to it and cannot have apps installed on the device. If corrections are not made in the amount of time specified, the device loses access to certain content and functions that you define. The available compliance policies and actions vary by platform.

For more information about compliance policies, including which policies and actions are supported for a particular platform, see the **Managing Devices** documentation on docs.vmware.com.

Configure the Workspace ONE Intelligent Hub for Windows Rugged

6

The Workspace ONE Intelligent Hub for Windows Rugged devices is pre-configured with Workspace ONE UEM. Change these settings when you need the Workspace ONE Intelligent Hub to meet certain business needs.

Navigate to **Groups & Settings > All Settings > Devices & Users > Windows > Windows Rugged > Hub Settings**.

Upgrade the Workspace ONE Intelligent Hub

When a new version of the Workspace ONE Intelligent Hub releases, upgrade your devices remotely and easily. With product provisioning, devices receive the Workspace ONE Intelligent Hub CAB file and install it based on directions. For more information, see the Product Provisioning Guide for Windows Rugged available on Workspace ONE UEM Resources.

If you are using a legacy Workspace ONE Intelligent Hub older than version 5.2.x, you must use the legacy Over-the-Air Migration method. For more information, see <https://support.air-watch.com/articles/115001664548>.

Device-Side Scripting

The AirWatch AWScript component allows you to configure your Windows Rugged devices through device-side scripting. The script file uses a dialect of BASIC as its core scripting language and adds Workspace ONE UEM-specific extensions on top.

For more information on the AWscript and its capabilities, see <https://support.air-watch.com/articles/115001664528>

General

Setting	Description
Device ID Algorithm	Set the unique device identification algorithm used on the device. <ul style="list-style-type: none"> ■ Device ID Algorithm 3 – Hub uses the OS-provided API to generate the UDID. ■ Device ID Algorithm 5 – Along with the OS-provided API, the Workspace ONE Intelligent Hub uses the MAC ID of the device to generate the UDID. ■ Device ID Algorithm 6 – Together with the OS-provided API and the MAC ID of the device, the Workspace ONE Intelligent Hub also uses the serial number of the device to generate the UDID.
Heartbeat Interval (min)	Set the time (in minutes) the Workspace ONE Intelligent Hub waits before checking in with the Workspace ONE UEM console.
Data Sample Interval (min)	Set the time (in minutes) the Workspace ONE Intelligent Hub waits to collect data from the device.
Data Transmit Time Interval (min)	Set the time (in minutes) the Workspace ONE Intelligent Hub waits to send data collected from the device to the UEM console.
Check-In on Condition (Event)	Enable to limit the Workspace ONE Intelligent Hub to check-in or beacon to the UEM console only when certain conditions (Wi-Fi connection, AC Power, or NW Adapter) are met. This helps reduce bandwidth issues as devices typically meet the condition when they are stored for after hours.

Shared Devices

Setting	Description
Enable Shared Device Mode	Select this check box to enable shared device functionality.

Notifications

Setting	Description
Enable Hub Installation Complete Notification	Select this check box to enable or disable notifications for Hub installation completion.
Enable Product Install Status Notification	Select this check box to enable or disable notifications through the Workspace ONE Intelligent Hub for product installation completion.

Location

Setting	Description
Collect Location Data	Enable to allow the to determine the device location based on a device's Wi-Fi network. When available, the Workspace ONE Intelligent Hub will report the location to the Workspace ONE UEM console using the Data Transmit Interval.

Application List

Setting	Description
Applications Poll Interval (min)	Set the time interval (in minutes) at which the applications list for each device will refresh on the Workspace ONE UEM console.

Certificate List

Setting	Description
Certificate Poll Interval (min)	Set the time interval at which the certificate list for each device will refresh on the Workspace ONE UEM console.

Proxy

Setting	Description
Proxy Configuration	Enable to allow the configuration of a proxy settings.

Application Manager Package Scheduler

These settings are for the legacy Workspace ONE Intelligent Hub v3.3.

Use the **APPLICATION MANAGER PACKAGE SCHEDULER** to define a schedule for devices with the Workspace ONE Intelligent Hub v3.3+ to retrieve products provisioned on schedule.

Setting	Description
Add	Select to create schedules for provisioning products using Products (Legacy).
Application Manager Scheduler	Select the hour the product begins to push to devices.
Randomization Window (min)	Select the amount of time the product is pushed. The order of devices is randomized.

Sideload Cab

Setting	Description
Request Enrollment Cab	Enable to create a side loading cab to quickly enroll devices.
Platform	Select the operating system for the cab file.
Enrollment User	Select a user for the cab file to use during enrollment. The cab file can be used on multiple devices regardless of the user selected.
Enrollment User Password	Enter the password for the user for enrolling with the cab file.
Show Characters	Select to show password characters.

This chapter includes the following topics:

- [Windows Rugged Device Logging with the Workspace ONE Intelligent Hub](#)
- [Configure Log Files](#)

Windows Rugged Device Logging with the Workspace ONE Intelligent Hub

All device log settings are configured through the `log_config.cfg` file located in the "`\Program Files\AirWatch`" directory. When this file is opened up and viewed in Notepad, it appears with the following text and options.

```
[*]
trace_level=5
max_file_size_kb=256
files_to_keep=2
log_file_path=\Program Files\AirWatch\Logs
use_local_time=false [aw_setup]trace_level=5max_file_size_kb=256files_to_keep=2log_file_path=
\Program Files\AirWatch
\Logsuse_local_time=false [awregisterdevice.exe]trace_level=3max_file_size_kb=256files_to_keep=2log_file_path=
\Program Files\AirWatch
\Logsuse_local_time=false [awapplyprofile.exe]trace_level=5max_file_size_kb=256files_to_keep=2log_file_path=
\Program Files\AirWatch
\Logsuse_local_time=false [awremotecontrol.exe]trace_level=1max_file_size_kb=256files_to_keep=2log_file_path=
\Program Files\AirWatch\Logsuse_local_time=false
```

The first setting group that appears under the asterisk is the default configuration settings for all logs available on the device.

Trace levels vary from 1 to 5. A level of 1 provides the most basic and least amount of information. Developers use Level 5 for debugging purposes since it provides all available messaging. There is a tradeoff between the trace level and the log size. A higher trace level increases the size of the log files due to messaging increase. The trace level that is set in the default section applies to all log files on a device.

You can keep the default log level low and still increase the log level for the four options below the default log level. Specify the log level for each of the options if you select to use a different trace level than the default level.

The logs available on a device vary based on what is configured and the OEM of the device. The following log files are generally available on Windows Rugged devices.

- `aw_setup` – Provides logging information relating to the AWMasterSetup utility. The AWMasterSetup utility initiates the Workspace ONE Intelligent Hub install and uninstall process on a device. This log file is the only log file that is not located in the "`\Program Files\AirWatch`" directory. The log is instead located in the root of the file system.
- `awacmclient` – Provides logging information relating to the AWCM client on the device.
- `awapplicationmanager` – Provides logging information relating to product provisioning.

- `awprocesscommands` – Provides logging information relating to the execution of MDM commands and installation of profiles.
- `AWService` – Provides information about the `AWService.exe` component, which is responsible for managing beacon and interrogator samples.
- `awapplyprofile` – Relates to installation of the Workspace ONE Intelligent Hub settings XML file which occurs during the enrollment process.
- `awregisterdevice` – Provides information about the registering of the device that occurs during the enrollment process.
- `awapplauncher` – Provides information about the Application Launcher executable. This log only applies to devices using the App Launcher.
- `fusionwlansetup` – Provides information about configuring and setting up the Fusion Wi-Fi driver on Motorola devices.

Configure Log Files

Procedure

- 1 Transfer the log file to your PC using the file manager utility in device details or through remote management.
- 2 Open the log file using a basic text editor such as Notepad.
- 3 Edit the desired trace level to the needed value.
- 4 Save the log file.
- 5 Transfer the log file back to the "Program Files\AirWatch" directory on the devices.
Consider first deleting the old `log_config.cfg` file on the device.
- 6 Restart the `AWService` on the device once it has the updated `log_config.cfg` file. Use the Restart Workspace ONE Intelligent Hub or the **Warm Boot** device actions available in the UEM console.

Once the `AWService` restarts, the new logging configuration takes effect.

Custom Attributes

Custom attributes enable you to extract specific values from a managed device and return it to the Workspace ONE UEM powered by AirWatch. You can also assign the attribute value for device lookup values.

Note Custom attributes (and the rules generator) are only configurable and useable at Customer-level organization groups.

Custom Attributes Database

Custom attributes are stored either as XML files on the device or in the custom attribute database on the Workspace ONE UEM console server. When using the database, custom attributes are sent as samples to Workspace ONE UEM periodically for asset tracking of key/value pairs. If a record in the device database is configured with 'Create Attribute' = TRUE, then the Workspace ONE Intelligent Hub automatically retrieves the Name and Value sent with the custom attributes sample. The key/value pair displays in the Device Details page for the device in the Custom Attributes tab.

Note Custom Attribute values cannot return the following special characters: / \ " * : ; < > ? |. If a script returns a value which contains these characters, the value is not reported on the console. Trim these characters from the script's output.

This chapter includes the following topics:

- [Create Custom Attributes](#)
- [Custom Attributes Importing](#)
- [Custom Attributes, WinRugg](#)
- [Create an XML Provisioning File](#)

Create Custom Attributes

Create a custom attribute and values to push to devices. These attributes and values control how product rules work. Custom Attributes also function as lookup values for certain devices.

Procedure

- 1 Navigate to **Devices > Provisioning > Custom Attributes > List View**.
- 2 Select **Add** and then select **Add Attribute**.
- 3 Under the **Settings** tab, enter an **Attribute Name**.

- 4 Enter the optional **Description** of what the attribute identifies.
- 5 Enter the name of the **Application** that gathers the attribute.
- 6 Select **Collect Value for Rule Generator** to make the values of the attribute available in the drop-down menu of the rule generator.
- 7 Select **Use in Rule Generator** if you want to use the attribute in the rule generator.
- 8 Select **Persist** to prevent the removal of the custom attribute from the Workspace ONE UEM console unless an Admin or an API call explicitly removes it.

Otherwise, the attribute is removed as normal. If you delete a custom attribute reported from a device to the UEM console, a persisted custom attribute remains in the UEM console. Custom attribute persistence is only available to Android and Windows Rugged devices.

- 9 Select **Use as Lookup Value** to use the custom attribute as a lookup value anywhere in the UEM console.

You can use custom attributes as part of a device friendly name to simplify device naming.

- 10 Select the **Values** tab.
- 11 Select **Add Value** to add values to the custom attribute and then select **Save**.

Custom Attributes Importing

The custom attribute batch import feature allows you to load custom attributes and corresponding values into the system in bulk. In the templates provided, each column corresponds to one custom attribute and each row corresponds to their different parameters.

With the templates, you can import custom attributes in different ways and with different information.

Caution The syntax of the first column of each template must be replicated exactly. Failure to use the proper syntax can cause database issues and result in loss of data.

Template Types

- Custom Attributes Template – Allows you to define a custom attribute and its settings.

	A	B	C	D	E	F	G
1	CustomAttributeName	Description	ApplicationName	UsedInRuleGenerator	CollectValuesForRuleGenerator	Persist	ShowOnDevicesGrid
2	AgentVersion1	Airwatch Agent Description	Services1.exe	1	0	1	0
3	AgentVersion2	Airwatch Agent Description	Services1.exe	1	0	1	0
4	AgentVersion3	Airwatch Agent Description	Services1.exe	1	0	1	0
5	AgentVersion4	Airwatch Agent Description	Services1.exe	1	0	1	0

- Custom Attribute Values Template – Allows you to define the values of predefined custom attributes.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	SSID Bangalore	SSID Palo Alto	PreSharedKey AdminOffc	Custom Attributes									
2	Enterprise	PLTO_1	ADMIN\$										
3	BNG_Test	PLTO_Guest	ADM1N	Values									
4	AWT		#Dm1N										

- **Device Custom Attribute Values** – Allows you to define the values of predefined custom attributes for individual devices based on the cross reference (Xref) value. The Xref values determine the individual devices receiving the value for each custom attribute.

	A	B	C	D	E	F	G	H	I
1	XRefType	XRefValue	SSID Cust1	USERNAME Cust:	PASSWORD Cust3	SSID CXXX	Services1.exe AgentVersion1		
2	1	5263	AW_BNG	DEV1	XXXXYYZZZ	SS	5.3.56.147		
3									
4									
5									

- DeviceID (Workspace ONE UEM assigned DeviceID when the device enrolls)
- Serial Number
- UDID
- MAC Address
- IMEI Number

Save the file as a .csv before you import it.

Custom Attributes, WinRugg

XML provisioning can collect custom attributes based on device details for your Windows Rugged device. You can use custom attributes to unlock product provisioning's more advanced functionality.

Procedure

- 1 Navigate to **Devices > Provisioning > Components > Files/Actions**, then select the **Add Files/Actions** button, and then select **Windows Rugged** as your platform.
- 2 Create an XML product.

For more information, see [Create an XML Provisioning File](#). The manifest includes an action to download the XML file to **\\Program Files\\Airwatch\\Cache\\Profiles**.

Upon receiving the XML file, the Workspace ONE Intelligent Hub for Windows Rugged creates a custom attributes output file. During the next check-in with Workspace ONE UEM, the Workspace ONE Intelligent Hub sends the output file to the Workspace ONE UEM console.

Once the XML file installs, the custom attributes requested in the file are reported to the UEM console. These values display in the UEM console on the Device Details page under custom attributes. The Device Details page enables you to view the name of the attribute and the values returned from each device. These values can be used to create product assignment rules using the Custom Rules system.

Summary	Compliance	Profiles	Apps	Location	User	Custom Attributes
---------	------------	----------	------	----------	------	-------------------

Custom Attributes

Filter Grid

Application	Attribute	Value
services.exe	HKLM_Ident_Username	guest
services.exe	HKLM_Ident_OrigName	Pocket_PC
services.exe	HKLM_Comm_BootCount	3
services.exe	Software_AirWatch_DeviceIdAlgorithm	3
services.exe	HKLM_SoftwareAW_SerialNo	13228521401413
services.exe	AWAggregator_Server	test.airwatchdev.com
services.exe	HKLM_SoftwareAW_RegisterDeviceRetryCount	20

Items 1-7 of 7

Page Size: 20

Example

Syncing Registry Settings

To synchronize the registry settings on a Windows Rugged device with the console, which is likely the most common use of custom attributes for Windows Rugged devices, you must create a custom XML file. Below is an example of the format of an XML file that can pull information from the registry on a device:

```
<?xml version="1.0"?><wap-provisioningdoc allowRemoval="True" name="GetTypicalRegValues/V_1"
id="5a63204f-848c-42d5-9c14-4ca070743920">
  <characteristic uuid="f49a9cb5-48e9-47cd-84cc-ef122dcb5d50"
type="com.airwatch.getregistryinfo.winmo">
    <reg_value value_name="Username"
      key_name="HKEY_LOCAL_MACHINE\Ident"
      custom_attribute_name="HKLM_Ident_Username"/>
    <reg_value value_name="OrigName"
      key_name="HKEY_LOCAL_MACHINE\Ident"
      custom_attribute_name="HKLM_Ident_OrigName"/>
    <reg_value value_name="BootCount"
      key_name="HKEY_LOCAL_MACHINE\Comm"
      custom_attribute_name="HKLM_Comm_BootCount"/>
    <reg_value value_name="DeviceIdAlgorithm"
      key_name="HKEY_LOCAL_MACHINE\Software\AirWatch"
      custom_attribute_name="Software_AirWatch_DeviceIdAlgorithm"/>
  </characteristic></wap-provisioningdoc>
```

It must be in the previous format for the XML file to get correctly parsed and the registry settings to be outputted to a key value pair that can be exported back to the UEM console. In this example, the registry key path is "HKEY_LOCAL_MACHINE\Ident" for two of the values and within that key path it is reading the values of "user name" and "OrigName". The 'custom_attribute_name' parameter is simply the name of the custom attribute that displays in the console and corresponds to the value read from the device.

Using Third-Party Applications to Create Custom Attributes

If you want to create custom attributes using a third-party application, you need that application to export an XML file with a key value pair to the **Program Files\AirWatch\Cache\CustomAttributes** directory on the device. Once an XML file with a key value pair is present in this directory, it is parsed by the Workspace ONE Intelligent Hub and included in the next interrogator sample. The XML key/value pair must be in the following format.

```
<?xml version="1.0"?><attributes>
  <attribute name="HKLM_Ident_Username" value="guest"/>
  <attribute name="HKLM_Ident_OrigName" value="Pocket_PC"/>
  <attribute name="HKLM_Comm_BootCount" value="1"/>
  <attribute name="Software_AirWatch_DeviceIdAlgorithm" value="3"/>
  <attribute name="HKLM_SoftwareAW_SerialNo" value="13233521403231"/>
</attributes>
```

‘Attribute name’ is the name of the attribute in the console while ‘value’ is the corresponding value that is associated with that attribute.

What to do next

You can also view existing custom attributes for all devices at a particular organization group and manually create custom attributes directly in the UEM console. Navigate to **Devices > Provisioning > Custom Attributes > List View**. Any custom attribute created in this manner automatically associates with a device and its respective custom attribute value that is successfully transmitted to the UEM console.

Create an XML Provisioning File

XML provisioning allows you to download a custom-designed XML file to a device in a provisioning product. After the file is downloaded, it runs an install command to extract the settings from the XML file and install them on the device.

Procedure

- 1 Navigate to **Devices > Provisioning > Components > Files/Actions** and select **Add Files/Actions**.
- 2 Select your platform.
- 3 Enter the required settings on the **General** tab, then select the **Files** tab and upload the desired XML file and enter the destination path on the device.
- 4 Select the **Manifest** tab and **Add an Install Action** for the XML file.
- 5 Select **Save**.
- 6 Navigate to **Devices > Provisioning > Products List View**, and select **Add Product**.
- 7 Select your platform.
- 8 Enter the **General** information.
- 9 Select the **Manifest** tab.
- 10 Select **Install Files/Actions** and select the files and actions just created.

11 **Save** and **Activate** the product.

The product downloads to all assigned devices and the XML file successfully installs.

Example

The following is a sample of an XML file which updates a registry setting that can be installed on a device through product provisioning.

Windows Rugged Example

XML Provisioning is for Windows Mobile devices only and not Windows CE.

```
<?xml version="1.0"?>
<wap-provisioningdoc name="desiredDocName /V_1">
  <characteristic type="com.windowspc.getregistryinfo.managed">
    <reg_value value_name="KeyName"
    <!-- (i.e. CommonFilesDir) --
    key_name="RegistryPath"
    <!-- (i.e. Software\Wow6432Node\Microsoft\Windows\CurrentVersion) --
    custom_attribute_name="AttributeName"/>
    <reg_value value_name="Keyname ..." key_name="Path\...."
    custom_attribute_name="AttributeName2"/>
  </characteristic>
</wap-provisioningdoc>
```

Windows Rugged Device Management

8

After your devices are enrolled and configured, manage the devices using the Workspace ONE UEM console. The management tools and functions enable you to keep an eye on your devices and remotely perform administrative functions.

You can manage all your devices from the UEM console. The Dashboard is a searchable, customizable view that you can use to filter and find specific devices. This feature makes it easier to perform administrative functions on a particular set of devices. The Device List View displays all the devices currently enrolled in your Workspace ONE UEM environment and their status. The **Device Details** page provides device-specific information such as profiles, apps, Workspace ONE Intelligent Hub version and which version of any applicable OEM service currently installed on the device. You can also perform remote actions on the device from the Device Details page that are platform-specific.

This chapter includes the following topics:

- [Device Dashboard](#)
- [Device List View](#)
- [Device Details Page, WinRugg](#)
- [Advanced Remote Management](#)

Device Dashboard

As devices are enrolled, you can manage them from the Workspace ONE UEM powered by AirWatch **Device Dashboard**.

The **Device Dashboard** provides a high-level view of your entire fleet and allows you to act on individual devices quickly.

You can view graphical representations of relevant device information for your fleet, such as device ownership type, compliance statistics, and platform and OS breakdowns. You can access each set of devices in the presented categories by selecting any of the available data views from the **Device Dashboard**.

From the **List View**, you can take administrative action: send messages, lock devices, delete devices, and change groups associated with the device.

- **Security** – View the top causes of security issues in your device fleet. Selecting any of the doughnut charts displays a filtered **Device List** view comprised of devices affected by the selected security issue. If supported by the platform, you can configure a compliance policy to act on these devices.
 - **Compromised** – The number and percentage of compromised devices (jailbroken or rooted) in your deployment.
 - **No Passcode** – The number and percentage of devices without a passcode configured for security.
 - **No Encryption** – The number and percentage of devices that are not encrypted for security. This reported figure excludes Android SD Card encryption. Only those Android devices lacking disc encryption are reported in the donut graph.
- Ownership** – View the total number of devices in each ownership category. Selecting any of the bar graph segments displays a filtered **Device List** view comprised of devices affected by the selected ownership type.
- **Last Seen Overview/Breakdown** – View the number and percentage of devices that have recently communicated with the Workspace ONE UEM MDM server. For example, if several devices have not been seen in over 30 days, select the corresponding bar graph to display only those devices. You can then select all these filtered devices and send them a message requesting that they check in.
- **Platforms** – View the total number of devices in each device platform category. Selecting any of the graphs displays a filtered **Device List** view comprised of devices under the selected platform.
- **Enrollment** – View the total number of devices in each enrollment category. Selecting any of the graphs displays a filtered **Device List** view comprised of devices with the selected enrollment status.
- **Operating System Breakdown** – View devices in your fleet based on operating system. There are separate charts for Apple iOS, Android, Windows Phone, and Windows Rugged. Selecting any of the graphs displays a filtered **Device List** view comprised of devices running the selected OS version.

Device List View

Use the Device List View to see a full listing of devices in the currently selected organization group.

The **Last Seen** column displays an indicator showing the number of minutes elapsed since the device has checked-in. The indicator is red or green, depending on the number of minutes defined in **Device Inactivity Timeout (min)**. This indicator can be set by navigating to **Groups & Settings > All Settings > Devices & Users > General > Advanced**.

Select a device friendly name in the **General Info** column at any time to open the details page for that device. A **Friendly Name** is the label you assign to a device to help you differentiate it from other devices, particularly other devices of the same make and model.

Sort by columns and configure information filters to review device activity based on specific information. For example, sort by the **Compliance Status** column to view only devices that are currently out-of-compliance and target only those devices. Search all devices for a friendly name or user name to isolate one device or user.

Customize Device List View Layout

Display the full listing of visible columns in the **Device List** view by selecting the **Layout** button and select the **Custom** option. This view enables you to display or hide Device List columns per your preferences.

There is also an option to apply your customized column view to all administrators. For instance, you can hide 'Asset Number' from the **Device List** views of the current OG.

Once all your customizations are complete, select the **Accept** button to save your column preferences and apply this new column view. You can return to the **Layout** button settings at any time to tweak your column display preferences.

Search in Device List View

You can search for a single device for quick access to its information and take remote action on the device.

To run a search, navigate to **Devices > List View**, select the **Search List** bar and enter a user name, device friendly name, or other device-identifying element. This action initiates a search across all devices, using your search parameter, within the current organization group and all child groups.

Device Details Page, WinRugg

Use the Device Details page to track detailed Windows Rugged device information and quickly access user and device management actions. You can access Device Details by selecting a device Friendly Name from the Device List View, using one of the Dashboards, or with any of the search tools.

From the Device Details page, you can access specific device information broken into different menu tabs. Each menu tab contains related device information depending on your Workspace ONE UEM deployment.

Remote Actions

The **More drop-down** on the Device Details page enables you to perform remote actions over the air to the selected device.

The actions vary depending on factors such as the device platform, UEM console settings, and enrollment status:

- **Add Tag** – Assign a customizable tag to a device, which can be used to identify a special device in your fleet.
- **App Remote View** – Take a series of screenshots of an installed application and send them to the Remote View screen in the UEM console. You may choose the number of screenshots and the length of the gap, in seconds, between the screenshots.

Android and iOS devices require VMware Content Locker to be installed on the device to execute **App Remote View**.

- **Apps (Query)** – Send an MDM query command to the device to return a list of installed apps.
- **Certificates (Query)** – Send an MDM query command to the device to return a list of installed certificates.
- **Change Organization Group** – Change the device's home organization group to another pre-existing OG. Includes an option to select a static or dynamic OG.
- **Clear Passcode (Device)** – Clear the device passcode. To be used in situations where the user has forgotten their device's passcode.
- **Delete Device** – Delete and unenroll a device from the console. Sends the enterprise wipe command to the device that gets wiped on the next check-in and marks the device as **Delete In Progress** on the console. If the wipe protection is turned off on the device, the issued command immediately performs an enterprise wipe and removes the device representation in the console.
- **Device Information (Query)** – Send an MDM query command to the device to return basic information on the device such as friendly name, platform, model, organization group, operating system version and ownership status.
- **Device Wipe** – Send an MDM command to wipe a device clear of all data and operating system. This puts the device in a state where recovery partition will be needed to reinstall the OS. This action cannot be undone.
 - iOS Device Wipe Considerations
 - For iOS 11 and below devices, the device wipe command would also wipe the Apple SIM data associated with the devices.
 - For iOS 11+ devices, you have the option to preserve the Apple SIM data plan (if existed on the devices). To do this, select the **Preserve Data Plan** checkbox on the Device Wipe page before sending the device wipe command.
 - For iOS 11.3+ devices, you have an additional option to enable or disable to skip the **Proximity Setup** screen while sending down the device wipe command. When the option is enabled, the Proximity Setup screen will be skipped in the Setup Assistant and thus preventing the device user from seeing the Proximity Setup option.
 - For Windows Desktop Devices, you can choose the type of device wipe.
 - **Wipe** - This option wipes the device of all content.
 - **Wipe Protected** - This option is similar a normal device wipe, but this option cannot be circumvented by the user. The Wipe Protected command keeps trying to reset the device until it is successful. In some device configurations, this command can leave the device unable to boot.

- **Wipe and Persist Provisioning Data** - This option wipes the device but specifies that provisioning data should be backed up to a persistent location. After the wipe executes, the provisioning data is restored and applied to the device. The provisioning folder is saved. You can find the folder by navigating on the device to %ProgramData%\Microsoft\Provisioning .
- **Edit Device** – Edit device information such as **Friendly Name**, **Asset Number**, **Device Ownership**, **Device Group** and **Device Category**.
- **Enterprise Reset** – Enterprise Reset a device to factory settings, keeping only the Workspace ONE UEM enrollment.

- **Windows Desktop Only:** Enterprise Reset restores a device to a Ready to Work state when a device is corrupted or has malfunctioning applications. It re-installs the Windows OS while preserving user data, user accounts and managed applications. The device will re-sync auto-deployed enterprise settings, policies, and apps after reset while remaining managed by Workspace ONE.
- **Enterprise Wipe** – Enterprise Wipe a device to unenroll and remove all managed enterprise resources including applications and profiles. This action cannot be undone and re-enrollment will be required for Workspace ONE UEM to manage this device again. Includes options to prevent future re-enrollment and a **Note Description** field for you to add any noteworthy details about the action.
 - Enterprise Wipe is not supported for cloud domain-joined devices.
- **File Manager** – Launch a File Manager within the UEM console that enables you to remotely view a device's content, add folders, conduct searches and upload files.
- **Provision Now** – Provision products to a device. Provisioning is the ability to create an ordered installation of files, actions, profiles and applications into a single product that can be pushed to devices.
- **Query All** – Send a query command to the device to return a list of installed apps (including Workspace ONE Intelligent Hub, where applicable), books, certificates, device information, profiles and security measures.
- **Registry Manager** – Launch a Registry Manager within the UEM console that enables you to remotely view a device's OS registry, add keys, conduct searches and add properties.
- **Remote Control** – Take control of a supported device remotely using this action, which launches a console application that enables you to perform support and troubleshooting on the device. Android devices require Remote Control Service to be installed on the device.
- **Remote Management** – Take control of a supported device remotely using this action, which launches a console application that enables you to perform support and troubleshoot on the device. Android devices require Remote Control Service to be installed on the device.
- **Request Device Check-In** – Request that the selected device check itself in to the UEM console. This action updates the **Last Seen** column status.
- **Restart Workspace ONE Intelligent Hub** – Restart the Workspace ONE Intelligent Hub. To be used during troubleshooting for when the enrollment process or submodule installation process is interrupted.
- **Send Message** – Send a message to the user of the selected device. Choose between **Email**, **Push Notification** (through AirWatch Cloud Messaging), and **SMS**.
- **Start/Stop AWCM** – Start/Stop the Cloud Messaging service for the selected device. VMware AirWatch Cloud Messaging (AWCM) streamlines the delivery of messages and commands from the Admin Console by eliminating the need for end users to access the public Internet or utilize consumer accounts, such as Google IDs.
- **Task Manager** – Launch a Task Manager within the UEM console that enables you to remotely view a device's currently-running tasks, including task **Name**, **Process ID** and applicable **Actions** you may take.

- **View Manifest** – View the device's **Package Manifest** in XML format from the UEM console. The manifest on Windows Rugged devices lists metadata for widgets and apps.
- **Warm Boot** – Initiate a restart of the operating system without performing a power-on self-test (POST).
- **Workspace ONE Intelligent Hub Query** – Send a query command to the Workspace ONE Intelligent Hub on the device to ensure it has been installed and is functioning normally.

Advanced Remote Management

Advanced Remote Management (ARM) allows you to connect remotely to end-user devices so you can help with troubleshooting and maintenance. ARM requires your computer and the end-user device to connect to the Advanced Remote Management Server to facilitate communication between the Workspace ONE UEM console and the end-user device.

For more information, see **VMware Workspace ONE Advanced Remote Management Documentation** on docs.vmware.com.

Lookup Values

A lookup value is a variable that represents a particular data element of a device, user, or admin account in Workspace ONE UEM powered by AirWatch and Workspace ONE Express. Lookup values can be invaluable in completing a process or a form.

In several different text boxes in the Workspace ONE UEM console as well as Workspace ONE Express, you can add lookup values in place of manually entered or static values. In most cases, lookup values function as a stand-in for a piece of information you do not know or do not have access to.

For example, the **Add Device** screen is used to add a device to your fleet. One of the text boxes on this screen that can be completed with lookup values is the **Expected Friendly Name**.

The friendly name represents the device on many different screens in the UEM console including the **Device List View** and the **Details View**. And while you can manually enter a static friendly name when you add a device, you can instead use lookup values to standardize the friendly name and make it a valuable identifier.

A common friendly name format can be constructed with the following lookup values.

```
{EnrollmentUser} {DeviceModel} {DeviceOperatingSystem} {DeviceSerialNumberLastFour}
```

If you enter the above in the **Expected Friendly Name** text box, it produces a friendly name that looks like this on the **Device List View**.

```
jsmith iPad iOS GHKD
```

This friendly name instantly provides you with at least three useful pieces of information. And with the last four digits of the device serial number at the end, the friendly name is virtually guaranteed to be unique.

Data Overhead

When used, lookup values do not add to the device's memory with an extra load. Lookup values are a construct of the console itself, not something that is transferred to the device.

Static Strings Versus Lookup Values

Lookup values cannot be applied once a static string has been entered in a text box.

For example, assume that you have 100 devices to enroll. You add the first 50 devices using a manually entered static string for **Expected Friendly Name**. For the next 50 devices, you opt to use a lookup value for **Expected Friendly Name** instead. Those 100 devices, half with static friendly names and the other half with lookup values, can coexist perfectly well. There is no issue with mixing and matching static strings and lookup values.

However, you cannot return to the first 50 devices and replace the static string friendly name with a lookup value.

Lookup Values Listing

To reference a full listing of lookup values including the locations in Workspace ONE UEM from which they are accessed, see <https://support.workspaceone.com/articles/115001663908>.