

Chrome OS Platform

VMware Workspace ONE UEM 2005



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Workspace ONE UEM Integration with Chrome OS

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VMware Workspace ONE UEM powered by AirWatch™ provides you with a robust set of mobility management solutions for enrolling, securing, configuring, and managing your Chrome OS device deployment.

Chrome OS is a Linux-based operating system created and distributed by Google derived from the open-source Chromium OS. Chrome OS is used primarily while connected to the Internet and most files, data, and applications are stored in the cloud.

This chapter includes the following topics:

- [Pre-requisites for Using Chrome OS with Workspace ONE UEM](#)
- [Setup Chrome OS Configuration Settings](#)

Pre-requisites for Using Chrome OS with Workspace ONE UEM

Before deploying Chrome OS devices, consider the following pre-requisites, requirements for enrollment, supporting materials, and helpful suggestions from the Workspace ONE UEM team.

Supported Devices

Refer the Chrome OS website for the most up-to-date list of supported devices.

Chrome Enterprise Licensing

To get started with Chrome OS device management, obtain a Chrome Enterprise license for each device you want to manage. For more information about Chrome Enterprise licensing, contact your Chrome OS device reseller or your Google sales representative.

You can view and manage your Chrome Enterprise licenses from the Google Admin Console.

User Setup Workspace ONE UEM needs access to the same list of users that are present in the Google Admin Console which is facilitated through Directory Integration. For more information on Directory Integration, see the Directory Services Integration Guide. For more information on how to sync users in the Google Admin Console, see the Google Cloud Directory Sync documentation from Google.

Setup Chrome OS Configuration Settings

The setup page from the Workspace ONE Console facilitates the integration between Workspace ONE UEM and Google for Chrome OS management. Simply enter your Google admin account and you are redirected to Google authorization page to grant permissions.

Procedure

- 1 Enable Chrome Device Management (CDM) API Partner Access for device and user policies under from the Google Admin Console by navigating to **Device Management > Chrome Management > Device Settings and Device Management > Chrome Management > User Settings** and select the checkbox under the Chrome Management-Partner Access section.
- 2 Navigate to **Devices > Device Settings > Devices & Users > Chrome OS > Chrome OS EMM Registration** in the Workspace ONE console.

- 3 Enter the **Google Admin Email Address**.

- 4 Select **Register with Google**. You are redirected to the Google login page to enter your Google admin email address.

Ensure you have pop-ups enabled otherwise the Google authorization page will not open.

- 5 Select **Allow** to grant permissions.
- 6 Copy Google Authorization Code from Google and paste it into the **Google Authorization Code** field in the Workspace ONE console.
- 7 Select **Authorize**.
- 8 Select **Test Connection** to ensure the connection between Workspace ONE UEM and Google is established.

If successful, a green 'Test Connection Successful' message displays.

- 9 Select **Device Sync** which manually syncs new Chrome OS enrollments into them Workspace ONE UEM console.

Chrome OS Enrollment

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Each Chrome OS device in your organization's deployment must be enrolled before it can communicate with Workspace ONE UEM and access internal content and features.

Enrolled devices adhere to the Chrome management policies set in the Workspace ONE UEM console until you wipe or recover them. Enrollment occurs during the device setup of the Chrome OS device out of the box. Follow the prompts on the device until you get to the 'Sign into the Chromebook page'. A device has to be enrolled before any user signs in (including an admin). If a user signs in before enrollment, device policies do not apply, and you do not have to wipe the device to restart enrollment.

Device Sync and New Device Enrollment

The Workspace ONE UEM console syncs new Chrome device enrollments every 60 minutes. Syncing pulls in a list of all new Chrome OS devices enrolled since the last sync in the device list view. You can use the Device Sync option in the Chrome OS configuration to sync devices into the UEM console sooner. For more information on the Chrome OS Configuration page, see [Setup Chrome OS Configuration Settings](#)

This chapter includes the following topics:

- [Enroll Chrome OS Devices](#)

Enroll Chrome OS Devices

Enrollment is facilitated from the Chrome OS device using the Google admin credentials or existing G Suite user credentials.

Procedure

- 1 Power on the Chromebook and connect to Wi-Fi.
- 2 Press **CTRL+ALT+E** when prompted for a Google account to proceed to enterprise enrollment at the 'Sign into the Chromebook' page.
- 3 Enter the user name and password from your Google Admin welcome letter or use your existing G Suite user credentials.
- 4 Enter Device information (Optional).

- 5 Select **Done**. Perform steps 1–5 on all devices that you want to enroll.

After you select done, the Chromebook automatically applies any pre-configured device policies and is ready for a user to sign in. Once a user signs in, all applicable user profiles are pushed to the Chrome device.

- 6 Navigate to **Devices > Device Settings > Devices & Users > Chrome OS > Configuration**. Select **Device Sync** which syncs all new enrollments into the Workspace ONE UEM console.

If you do not select Device Sync, new enrollments are automatically synced every 60 minutes.

What to do next

For more information, see [Chapter 3 Chrome OS Profiles](#).

Chrome OS Profiles

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Profiles serve many different purposes from letting you enforce rules and procedures to tailoring and preparing Chrome OS devices for how they are used with Workspace ONE UEM.

The individual settings you configure, such as restrictions and bookmarks, are called payloads. In most cases, Consider configuring one payload per profile, which means you have multiple profiles for the different settings you want to push to devices. For example, you can create a profile to restrict users from using incognito mode.

Important When applying profiles across parent and child organization groups, the device accepts the latest profile pushed to the device not the most restrictive like other platforms. Do not apply the same payload in both a parent and child organization group to the same device.

Device Profiles

Device policies apply to Chrome OS devices regardless of any user logged into the device. Device policies are applied through Smart Groups.

Smart groups are customizable groups that determine which platforms, devices, and users receive an assigned application, book, compliance policy, device profile, or provision.

User Profiles

User policies for Chrome OS allow you to configure profile settings at the user level. The policies do not apply to users signed in as guest or with a Google Account outside of your organization (such as a personal Gmail account). You are able to view **User Details** by selecting the user icon under the **Installed Status** field.

User policies are applied through User Groups. User groups are sets of users into user groups which, like organization groups, act as filters for assigning profiles and applications.

Profiles

- Profiles do not have an add version option. If the profile is edited and saved, the updated policy is sent to devices.

- Profiles for Chrome OS are deployed using API calls, which are a different solution than is used with other platforms, in which the profile is sent directly to the Workspace ONE Intelligent Hub on the device. For Chrome OS devices, the UEM console relies on API responses to the Google Cloud to push new policies. The Console displays a green check mark to show that the policy has been updated to the Google cloud.
- Profiles do not show a 'Publish Preview'. When you select Save & Publish, the profile takes effect immediately.
- All user and device profile information, including certificates, are sent to Google and stored by Google.
- User profiles and Device profiles are independent in their settings.

Application Management

- Chrome apps are pushed through profiles using the Application Control profile, not through Apps & Books.

This chapter includes the following topics:

- [Configure Network Profile \(Chrome OS\)](#)
- [Configure Sign-In Settings \(Chrome OS\)](#)
- [Configure Security & Privacy Profile \(Chrome OS\)](#)
- [Configure Kiosk Profile \(Chrome OS\)](#)
- [Configure System Updates Profile \(Chrome OS\)](#)
- [Configure Content Profile \(Chrome OS\)](#)
- [Configure Security & Privacy Profile \(Chrome OS\)](#)
- [Configure Time Zone Profile \(Chrome OS\)](#)
- [Configure URL Access Controls](#)
- [Configure Application Control Profile \(Chrome OS\)](#)
- [Configure Power Management Profile \(Chrome OS\)](#)
- [Configure Printing Profile \(Chrome OS\)](#)
- [Configure Dell Profile \(Chrome OS\)](#)
- [Use Custom Settings \(Chrome OS\)](#)

Configure Network Profile (Chrome OS)

The Network profile allows you to configure network connection settings to apply towards device policies and user policies.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **Device** to deploy settings to the device profile. Select **User** to deploy settings to the user profile.
- 3 Configure the **General** profile settings as appropriate. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Network** payload.
- 5 Configure **Wi-Fi** settings, including:

| Setting | Description |
|-------------------------------|--|
| Service Set Identifier | Provide the name of the network the device connects to. |
| Connectivity | Indicate if the Wi-Fi network is Hidden or Auto-Join . Auto-Join indicates that the network is connected automatically when in range. |
| Security Type | <p>Specify the access protocol used and whether certificates are required.</p> <p>If WPA/WPA2 is selected, the Password field displays.</p> <p>If WPA/WPA2 Enterprise* is selected, the following fields display:</p> <ul style="list-style-type: none"> ■ Extensible Authentication Protocol (EAP) - Specify the EAP from the drop-down menu. ■ Identity - Enter a description to which is used to identify the certificate during authentication. ■ Root Certificate - Use the Certificates section at the bottom to add the Root Certificate. ■ Client Certificate - Use the Certificates section at the bottom to add the Client Certificate. |
| Password | Provide the password for the device to connect to the network. The password field displays when WPA/WPA 2 is selected from the Security Type field. |
| Proxy | Enter the proxy details. |
| Gateway Platform | <p>Describes the gateway address to use for the configuration.</p> <p>Select the gateway as Direct Internet Connection, Manual Proxy Configuration, or Automatic Proxy Configuration to configure settings.</p> |
| HTTP Proxy Port | Enter the host name of IP address for the proxy server. This field displays if Manual Proxy Configuration is selected. |
| HTTP Proxy Host | Enter the target port for the proxy server. This field displays when Manual Proxy Configuration is selected. |
| Secure HTTP Proxy Host | Enter settings for the secure HTTP proxy. This field displays when Manual Proxy Configuration is selected. |
| Secure HTTP Proxy Port | Enter secure port to use for proxy. This field displays when Manual Proxy Configuration is selected. |
| FTP Proxy Host | Enter the host name of IP address for the FTP proxy server. This field displays when Manual Proxy Configuration is selected. |
| FTP Proxy Port | Enter the target port for the FTP proxy server. This field displays when Manual Proxy Configuration is selected. |

| Setting | Description |
|---|--|
| SOCKS Host | Enter the settings host address for the SOCKS proxy. This field displays when Manual Proxy Configuration is selected. |
| SOCKS Port | Enter the target port for the SOCKS proxy server. This field displays when Manual Proxy Configuration is selected. |
| No Proxy for the following Domains (Comma-Separated domains) | Enter the domains whose traffic is not handled by the proxy settings. This field displays when Manual Proxy Configuration is selected. |
| Autoconfiguration URL (Leave blank for WPAD protocol) | Enter the URL which defines how web browsers and other user agents can automatically choose the appropriate proxy server (access method). This field displays when Automatic Proxy Configuration is selected. |
| Add Certificate* | Select whether to Upload certificate file or Select certificate template . When you select Upload Certificate, you are directed to a dialog to upload your certificated from your saved files. |
| Certificate Authority* | Select the Certificate Authority and the certificate template from the drop-down menu for your organization group. The certificate authorities and the templates are added for an organization group at Devices > Certificates > Certificate Authorities. This field displays if you choose Select certificate template from the Add Certificate field . |
| Certificate Template* | Select your certificate template and select Add . This field displays if you choose Select certificate template from the Add Certificate field . |
| File-Upload Field* | Select Select File to upload your saved certificate. |
| Password | Specify a password if the file is protected. Select Add . You will the certificated listed in the Added Certificates section. |

Note Asterisk indicate field not supported in Device Profile.

Not supported in Device Profile

- 6 Select **Save & Publish**.

Configure Sign-In Settings (Chrome OS)

The Sign-in settings profile allows you to restrict access to the device for only a set of users.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **Device** to deploy to device policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Sign-In Settings** profile and select **Configure**.

5 Configure the following settings as desired for your organization:

| Setting | Description |
|---|--|
| Restrict Sign-In | Enable to restrict access to the device for only a set of users. When enabled, a text box displays and you can enter a comma-separated list of user names that can sign in to the device. Wildcards(*) can be used, for example, *@example.com. |
| Guest Mode | Enable to allow guest access to the Chrome browser. A user is not required to sign in. |
| Autocomplete Domain | Set the domain name used for autocomplete on the sign-in page. The user can override this domain, if needed. |
| SSO Idp Redirection | Enable to redirect users to a SAML SSO IDP for login to the device. |
| SAML SSO cookie transfer into user session | Enable to transfer SAML SSO cookies to user session. This setting allows end users to use single sign-on with their apps by simply signing into the Chrome OS device. |

6 Select **Save and Publish**

Configure Security & Privacy Profile (Chrome OS)

The Security and Privacy profile allows you to configure user data settings.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **Device** to deploy to device policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Security & Privacy** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization:

| Setting | Description |
|--------------------------------------|---|
| Clear user data on log out | When enabled, all local user data is cleared from the device when the user logs out. Consider using this setting for shared device use cases. |
| Force Re-enrollment | Force re-enrollment in the event a device is reset or wiped. After a device is reset, the enrollment screen displays and the user has to re-enroll the device. Select Do not force re-enrollment or Force the device to re-enroll into the previous domain . |
| Device Verified Mode Required | When enabled, verified boot mode is required for device verification to succeed. |

Configure Kiosk Profile (Chrome OS)

The Kiosk profile allows you to lock the device into a single app until the policy is removed.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**
- 2 Select **Device** to deploy to device policy profiles.
- 3 Configure the **General** profile settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Kiosk** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization:

| Settings | Description |
|---|--|
| Application Name | Enter Application Name for corresponding application ID. |
| Application Identifier | Enter the application identifier. Find the desired app in the Chrome Web Store and copy the ID from the URL which includes everything after the last forward slash. |
| Auto Login Bailout | Enable users to press the keyboard shortcut (Ctrl+Alt+S) to prevent auto start of the app at device start-up. By default, the user has 3 seconds to press a shortcut to prevent auto-launch. |
| Prompt for Network Offline | <p>Enable to display network configuration prompt when the device cannot connect to the network.</p> <p>Important If both Prompts for Network Offline and Auto Login Bailout settings are disabled, the device might become unusable when there is no Internet access and has to go through the recovery process. If the device is offline at start-up, the network configuration screen always displays, before auto-launch.</p> |
| Extension Policy | Enable to configure applications with JSON. Refer to the app developer's documentation for the format expected by the app. |
| System Log Upload (Every 12 Hours) | Enable to send system logs to the Chrome Admin Console in 12-hour increments. |
| Monitor Online/Offline Status | Enable to receive alerts if the device is online or offline. |
| Send Email if Device is Offline | Enable and enter email address with comma separation if more than one. Use this setting if Monitor Online/Offline Status is enabled. |
| Send SMS if Device is offline | Enable and enter the phone number with comma separation if more than one. |

- 6 Select **Save and Publish**.

Configure System Updates Profile(Chrome OS)

The System Updates profile specifies whether Chrome device updates automatically update to new versions of Chrome as they are released.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **Device** to deploy to device policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.

- 4 Select the **System Updates** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization:

| Setting | Description |
|---|---|
| Allow Auto Update | Enable to allow device to automatically update to the latest version when available. |
| Allow Kiosk App to Control Target Platform Version | Enable to allow the kiosk application to set the target platform version through an extension policy. |
| Target Platform Version | Specify the prefix of the target version you want the device to update to if the device is on an older version. If the device is already on a version with the given prefix, then there is no effect. If the device is on a higher version, it remains on the higher version |
| Maximum Update Delay Duration (hours) | Specify a duration (up to 14 days) during which your devices randomly receives system updates to ensure that all devices are not using the bandwidth at a given time. |
| Reboot After Update | Enable to require automatic reboot the device after is updated. |
| Release Channel | Select the type of Chrome OS build devices to receive. The default option is "The user can change the release channel". The available options in the drop down are: <ul style="list-style-type: none"> ■ The user can change the release channel ■ Stable channel (Fully Tested). ■ Beta channel (Upcoming changes and improvements). ■ Dev channel (Latest features, but may be unstable). |

- 6 Select **Save and Publish**.

Configure Content Profile (Chrome OS)

The Content profile allows you to push a list of bookmarks for user convenience that applies to Chrome on all platforms.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **User** to deploy to user policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Content** profile and select **Configure**.

5 Configure the following settings as desired for your organization:

| Settings | Description |
|---|---|
| Bookmark Bar | Specify whether User can show/hide the bookmarks bar, Always show the bookmarks bar, Never show the bookmarks bar. |
| Editing Bookmarks | <p>Enable to allow users to edit bookmarks.</p> <p>Note If this option is disabled, existing bookmarks are still available, but new bookmarks cannot be added. Users will not be able to edit or delete current bookmarks.</p> |
| Managed Bookmarks | Enable to create a list of bookmarks to be pushed onto Chrome OS. |
| Home Button | Specify whether User can show/hide the Home button, Always show the Home button, Never show the Home button. |
| Home Page | Specify whether Allow user to configure, Home page is the new Tab page, Set home page. |
| Folder Name | Create a hierarchical folder structure of bookmarks. |
| URL | Enter bookmark URL. |
| Name | Enter name to be displayed on the UI. |
| Pop-Up Configuration | Enable to allow pop-ups and configure user settings. |
| Pop-Ups | <p>Use the drop-down to configure if pop-ups are to be:</p> <p>Allow user to control pop-up behavior, Allow all sites to show pop-ups, Do not allow any sites to show pop-ups</p> |
| Sites that can always show pop-ups | Enter URLs to be whitelisted from pop-ups. |
| Sites that are never allowed to show pop-ups | Enter URLs to be blacklisted from pop-ups. |
| URLs to Open at Startup | Enable to configure a list of websites to launch at start up. When enabled, the URL field displays to enter the URLs. |
| URL Certificate Auto Select | <p>Allows you to configure URLs to automatically select client certificate if the site requests a certificate.</p> <p>Use the URL field to specify websites.</p> |
| Certificate Pattern | Select the certificate to be used when the website is accessed. |

6 Select **Save and Publish**.

Configure Security & Privacy Profile (Chrome OS)

The Security & Profile allows you to configure incognito settings for the users.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **User** to deploy to user policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.

- 4 Select the **Security & Privacy** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization:

| Setting | Description |
|---|--|
| Incognito Mode | Allow users to browse the web without storing local data. |
| Safe Browsing | Specify whether or not Safe Browsing is turned on for users. |
| Users can proceed to Malicious Sites | Configure whether or not users can navigate to a potentially malicious site from a warning page. |
| Saving Browser History | Disables saving browser history in Google Chrome and prevents user from changing this setting. This setting also disables tab syncing which lets you access these web pages on your computer or other synced devices. |
| Deleting Browser History | Disables deleting browser and download history. |
| User Verified Mode Required | When enabled, verified boot mode is required for device verification to succeed. |
| Lost Mode Message | Enter a custom message that displays when a device is set to Lost Mode. Lost Mode is configured from Device Management commands in the Device Details. For more information on Lost Mode, see Device Management Commands for Chrome OS Devices |
| Allow Android Apps to Access System Keystore | Enable to let Android apps access server or CA certificates from the system keystore for domain trust. |

- 6 Select **Save and Publish**.

Configure Time Zone Profile (Chrome OS)

The Time Zone profile determines automatic timezone selection.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **Device** to deploy to device policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Time Zone** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization:

| Setting | Description |
|--------------------------------------|---|
| Automatic Time Zone Detection | <p>Select the type of automatic timezone detection: Let the user decide, Never auto-detect time zone, Use IP to determine location for time zone, Use Wi-Fi access points to determine location for time zone, Use all location information to determine time zone.</p> <p>If this policy is not configured, users can control automatic timezone detection using controls in Chrome settings.</p> |

- 6 Select **Save and Publish**.

Configure URL Access Controls

The URL Access controls profile allows you to blacklist certain URLs unless exceptions are configured.

To configure URL access controls:

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **User** to deploy to user policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **URL Access Controls** profile and select **Configure**.

| Setting | Description |
|----------------------|---|
| URL Blacklist | Prevents the Chrome Browser from accessing certain URLs. Select the Add button to add multiple URLs. |
| Exceptions | Specifies exceptions to the URL blacklist. Select the Add button to add multiple URLs. |

- 5 Select **Save and Publish**.

Configure Application Control Profile (Chrome OS)

The Application Control profile allows you to add apps from the Google Play Store and Chrome Webstore.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **User** which deploys user policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Application Control** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization:

| Setting | Description |
|---|---|
| Chrome App Access | Use the dropdown to select All Chrome apps are accessible , Only Chrome added below are accessible , or Create a list of blocked Chrome apps . |
| Auto Install the following Chrome Apps | |
| App ID | The application identifier found in the Google Play Store. |
| Name | The application display name. |
| Pin App to Shelf (Y/N) | Enter Y to pin the app to the homescreen dock. |

| Setting | Description |
|---|---|
| Auto Install the following Android Apps | |
| App ID | The application identifier found in the Chrome Web Store. |
| Name | The application display name. |
| Pin App to Shelf (Y/N) | Enter Y to pin the app to the homescreen dock. |
| Users can end processes in Task Manager | Enable to allow end user to see the end process option in Chrome OS. |
| Auto Install the following Chrome Extensions | |
| App ID | The unique identifier for the Extension can be found in Extension details or in the Chrome Web Store URL. |
| URL | Use a custom URL for self-hosted Extensions. Leave blank to push from the Chrome Web Store. |
| Name | Enter a friendly name to easily identify the Extension |
| Pin app to shelf | |
| Allow access to credential storage | Grant this Extension the ability to access user and device certificates to be used for authentication. |
| Extension policy | Configure the Extension using the JSON format provided by the Extension developer. |

6 Select **Save and Publish**.

Configure Power Management Profile (Chrome OS)

The Power Management profile allows you to configure incognito settings for the users.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **User** to deploy to user policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Power Management** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization. These settings can be applied whether connected to power or running on battery:

| Setting | Description |
|---|--|
| Idle time after which action is taken (in minutes) | Specify the idle time in minutes before the user's device goes to sleep or signs them out. |
| Action when Idle time is reached | Set whether the device goes into sleep mode, log out, shutdown, or do nothing. |

| Setting | Description |
|---|--|
| Idle time after which warning is shown to user (in minutes) | Specify the length of time without user input before warning message is displayed. |
| Idle time after which screen is dimmed (in minutes) | Specify the length of time without user input before screen is dimmed. |
| Idle time after which screen is turned off (in minutes) | Specify the length of time without user input before screen is turned off. |

- 6 Select **Save and Publish**.

Configure Printing Profile (Chrome OS)

The Printing profile enables printing options in Chrome OS. You can choose either to allow using the print preview with Google cloud print or select always use system print dialog window.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **User** to deploy to user policy profiles.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Printing** profile and select **Configure**.
- 5 Configure the following settings as desired for your organization. These settings can be applied whether connected to power or running on battery:

| Setting | Description |
|----------|---|
| Printing | <p>Enable to allow printing from Chrome OS.</p> <p>When disabled, printing is only possible through plug ins that bypass Google Chrome. For example, certain Flash applications that have the print option in their context menu.</p> |

- 6 Select **Save and Publish**.

Configure Dell Profile (Chrome OS)

With the launch of Dell Enterprise Chromebook line, you can use the Workspace ONE UEM console to configure Dell-specific management capabilities.

Prerequisites

You will need to configure the **General** profile settings as appropriate by navigating to **Devices > Profiles & Resources > Add > Add Profile > Chrome OS > Device** and select **General**. Once you've configured applicable settings, select **Dell** to configure these settings.

Some of the settings are based on a manual JSON configuration which requires you to gather information outside of the Workspace ONE UEM console. Follow the provided links to the Chrome Enterprise documentation to copy the JSON, edit with your specific settings in a text editor or the fields in the console, and paste into the appropriate fields of the Dell profile. When you paste the JSON text into the fields in the UEM console, make sure the text editor does not modify any of the text, such as replacing quotation marks.

Procedure

- 1 Select **Device > Configure** to open settings.
- 2 Configure the following settings as desired for your organization.

| Setting | Description |
|---------------------------------------|--|
| Support Assist | <p>Dell SupportAssist is a subscription based service, which monitors device health to proactively address any potential issues, such as viruses or hardware failure. When enabled, enter the custom JSON text retrieved from Dell TechDirect in the SupportAssist Configuration field.</p> <p>Follow the instructions from the prerequisites section to retrieve and configure the JSON payload, see Configure SupportAssist.</p> |
| Advanced Battery Charge Mode | <p>This setting should be used in order to prolong the health of the battery during the work day. During the set schedule, AC charging will be controlled in order to keep devices at a lower, healthy charge level. Express charging will be used intermittently to maintain the percentage. Additionally, devices will only be charged to full capacity one time per day, prior to the start of the schedule. This setting will also override the Primary Battery Charge Mode during the set schedule. Outside of the schedule, devices will charge normally, or according to the Primary Battery Charge Mode.</p> <p>Follow the instructions in the prerequisites section to retrieve and paste the JSON text into this field https://cloud.google.com/docs/chrome-enterprise/policies/?policy=DeviceAdvancedBatteryChargeModeDayConfig</p> |
| Primary Battery Charge Mode | <p>Helps to minimize wear and extend battery life by dynamically controlling battery charging. These settings are as follows:</p> <ul style="list-style-type: none"> ■ Standard: Battery is fully charged using the standard charge rate ■ Express charge: Battery is charged rapidly using fast charge technology ■ Primarily AC use: Extends the lifespan of the battery for devices that are usually plugged into an AC power source ■ Adaptive: Battery settings are dynamically optimized based on the battery usage pattern ■ Custom: Set custom start and stop percentage values at which the battery will begin and end charging. |
| Scheduled Update Configuration | <p>Determine when and how frequently devices will wake to check and install available updates.</p> <p>Follow the instructions in the prerequisites section to retrieve and configure the JSON payload: https://cloud.google.com/docs/chrome-enterprise/policies/?policy=DeviceScheduledUpdateCheck</p> |

| Setting | Description |
|--|---|
| Power Source Configuration | <p>Set power source thresholds to help minimize AC consumption during peak power times of the day for countries with AC power restrictions.</p> <p>Use this setting to set the per-day schedule during which the Power Source Shift Threshold will be applied. The custom schedule is mandatory to enable Power Source Configuration</p> <p>This setting is also known as Peak Shift.</p> <p>Use the Power Source Shift Threshold to enter a battery percentage between 15-100 at which devices will shift back to AC power. Any percentage higher than the set threshold will use battery power only, even when the device is connected to an AC power source.</p> <p>Use Power Source Custom Configuration to configure JSON payload to customize AC power consumption per day.</p> <p>Use the guidance when configuring the JSON:</p> <ul style="list-style-type: none"> ■ start_time: The time at which Power Source Shift Threshold goes into effect. This value must be less than or equal to end_time. ■ end_time: The time at which Power Source Shift Threshold stops taking effect. This value must be greater than or equal to start_time and less than or equal to charge_start_time. ■ charge_start_time: The time at which normal AC charging resumes. This value must be greater than or equal to end_time <p>For more guidance on the Power Source Configuration, see the Google documentation: https://cloud.google.com/docs/chrome-enterprise/policies/?policy=DevicePowerPeakShiftDayConfig</p> |
| Power On When AC is Connected | Automatically wakes device from powered-off or hibernation state when AC power is connected. |
| Allow Power Sharing Through USB | Allows external USB devices to be charged even when devices are in sleep mode. |
| Device Dock MAC Address Source | <p>This setting can be used in the case that MAC address-based network restrictions or filtering is used. You can choose the source of the MAC Address when a dock is connected. Below are the options:</p> <ul style="list-style-type: none"> ■ Use designated dock MAC address: This is a virtual MAC address assigned to the dock ■ Use device's built-in MAC address: This is the physical MAC address of the Chrome OS device's built-in network card ■ Use dock's built-in MAC address: This is the physical MAC address of the dock's built-in network card |

3 Select **Save and Publish**.

Configure SupportAssist

The SupportAssist configuration is acquired through the Dell TechDirect for customers who have subscribed to the SupportAssist Service.

Dell SupportAssist is a subscription based service, which monitors device health to proactively address any potential issues, such as viruses or hardware failure. When enabled, enter the custom JSON text generated from Dell TechDirect in the SupportAssist Configuration field in the Dell profile in the UEM console.

Prerequisites

Configure the **Dell** profile in the Workspace ONE UEM console.

Procedure

- 1 Login to Dell TechDirect.

You will navigate to the SupportAssist page and accept the terms and conditions.

- 2 Navigate to **Assets > Deploy > Verify Account** and sign in with your MyAccount credentials that are connected to Dell TechDirect.
- 3 Configure SupportAssist for Chrome OS and save the settings.
- 4 Download the SupportAssist JSON to copy and paste into the **SupportAssist** field in the UEM console.

Results

The SupportAssist JSON is generated for you to copy and paste in the Workspace ONE UEM console.

What to do next

Continue configuring desired settings in the Dell profile in the Workspace ONE UEM console.

Use Custom Settings (Chrome OS)

The **Custom Settings** payload can be used when new Chrome OS functionality releases or features that Workspace ONE UEM does not currently support through its native payloads. With the **Custom Settings** payload, enter custom XML code to manually enable or disable certain settings.

Procedure

- 1 Navigate to **Devices > Profiles & Resources > Profiles > Add > Add Profile > Chrome OS**.
- 2 Select **Device** or **User**.
- 3 Configure the profile's **General** settings. These General profile settings determine how the profile deploys and who receives it.
- 4 Select the **Custom Settings** payload and select **Configure**. Enter the custom XML in the text box. The XML code you paste will contain the complete block of code, from <characteristic> to <characteristic>.
- 5 Select **Save & Publish**.

Chrome OS Management

4

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 Management Commands for Chrome OS Devices](#)

Device Dashboard

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

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.
 - **Not Encrypted** – 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 out a query command so that the devices can 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 each supported OS. 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 in Workspace ONE UEM powered by AirWatch to see a full listing of devices in the currently selected organization group.

Devices
List View

Filters ADD DEVICE LAYOUT EXPORT Search List

| | Last Seen | General Info | Platform | User | Enrollment | Compliance Status | Tags |
|--|-----------|--|--|-----------------------|------------|-------------------|------|
| | 18m | swamyg MacBook Pro macOS 10.15.0 G8WN Global / VMwareIT MDM Corporate - Dedicated | Apple macOS MacBook Pro "Core i7" 15" Retina (Mid-2015) 10.15.0 | swamyg G S | | | |
| | 23m | 6HTD4C2 - AW Migration Testing Global / Arun_Chrome MDM Corporate - Dedicated | Chrome OS | | | | |
| | 1h | wsuser2 Desktop Windows Desktop 10.0.17134 ... Global / stg12 MDM Corporate - Dedicated | Windows Desktop VMware Virtual Platform 10.0.17134 | | | | |
| | 2h | a Desktop Windows Desktop 10.0.18362.6TQ2.1... Global / sachin MDM Corporate - Dedicated | Windows Desktop Precision 5530 10.0.18362 | a@a.com a a | | | |
| | 2h | sakshis MacBook Pro macOS 10.14.6 FD58 Global / cdivi UEM Managed Corporate - Dedicated | Apple macOS MacBook Pro "Core i7" 15" Retina (Late 2015) 10.14.6 | sakshis Sakshis ss | | | |
| | 2h | preetu Ubuntu Linux 4.15 Global / Preetu MDM Unassigned | Linux Ubuntu 4.15.0 | | | | |
| | 2h | preetu WindowsMobile WindowsMobile 5.2.2123... Global / Preetu MDM Unassigned | Windows Rugged microsoft deviceemulator 5.2.21234 | preetu | | | |
| | 3h | sakshis iPhone iOS 12.2.0 HG6X Global / cdivi UEM Managed Corporate - Dedicated | Apple iOS iPhone 7 (32 GB Silver) 12.2.0 | sakshis Sakshis ss | | | |
| | | m iPhone iOS 13.0.0 KKKK | Apple iOS | m@m.com | | | |

Items 1 - 50 of 33731 Page Size: 50

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 how long the device is inactive. The default value is 480 minutes (8 hours) but you can customize this by navigating to **Groups & Settings > All Settings > Devices & Users > General > Advanced** and change the **Device Inactivity Timeout (min)** value.

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 devices of the same make and model.

Sort by columns and configure information filters to review 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 at or below the current organization group (OG). For instance, you can hide 'Asset Number' from the **Device List** views of the current OG and of all the OGs underneath.

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.

Some notable device list view custom layout columns include the following.

- Android Management
- SSID (Service Set Identifier or Wi-Fi network name)
- Wi-Fi MAC Address
- Wi-Fi IP Address
- Public IP Address

Exporting List View

Select the **Export** button to save an XLSX or CSV (comma-separated values) file of the entire **Device List View** that can be viewed and analyzed with MS Excel. If you have a filter applied to the **Device List View**, the exported listing reflects the filtered results.

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 List View Action Button Cluster



With one or more devices selected in the Device List View, you can perform common actions with the action button cluster including Query, Send [Message], Lock, and other actions accessed through the **More Actions** button.

Available Device Actions vary by platform, device manufacturer, model, enrollment status, and the specific configuration of your Workspace ONE UEM console.

Remote Assist

You can start a **Remote Assist** session on a single qualifying device allowing you to remotely view the screen and control the device. This feature is ideal for troubleshooting and performing advanced configurations on devices in your fleet.

To use this feature, you must satisfy the following requirements.

- You must own a valid license for Workspace ONE Assist.
- You must be an administrator with a role assigned that includes the appropriate Assist permissions.
- The Assist app must be installed on the device.

- Supported device platforms:

- Android
- iOS
- macOS
- Windows 10
- Windows Mobile

Select the check box to the left of a qualifying device in the **Device List View** and the **Remote Assist** button displays. Select this button to initiate a Remote Assist session.

For more information, see the **Workspace ONE Assist** guide, available on docs.vmware.com.

Device Management Commands for Chrome OS Devices

The **More drop down** on the Device Details page enables you to perform remote actions over-the-air to the selected device. The actions listed vary depending on factors such as device platform, Workspace ONE UEM console settings, and enrollment status.

- **Enterprise Wipe** – Enterprise Wipe deprovisions selected Chrome OS devices from management in the Workspace ONE UEM console. Devices will continue to show as managed to the end user, but the UEM console shows the device as unenrolled in the Device Details page. All device policies are removed and policy updates are not sent to devices after the enterprise wipe. User Policies will remain intact on the device, as these are not dependent on device enrollment. In order to completely wipe device or to reenroll the device, a powerwash (full device wipe) is required.
- Before the enterprise wipe processes, choose what happens with the Chrome OS license assigned to the device. Select **Different Replacement Model**, **Retiring Device**, or **Same Model Replacement**. The reason is stored in the UEM console Event Log. For annual licences, you can simply reassign to another device. For perpetual licences:
 - Replacement devices will need to be purchased with a perpetual license upgrade.
 - The licence can be transferred to a different device with the same model.
 - If the device is being retired, any new devices purchased will need to be purchased with a Chrome Enterprise license upgrade.
- **Enable Lost Mode** – Allows you to remotely disable devices that have been lost or stolen. When enabled, you can set a custom message to display on the lock screen through the Chrome OS device profile. While disabled, the device cannot be used for any purpose. Devices can then be re-enabled remotely once they are found.

VMware Workspace ONE UEM Extension for Chrome OS

5

The VMware Workspace ONE UEM Extension for Chrome OS is an extension created to handle certificate management on Chrome OS devices. This extension provides direct communication with the UEM console and supports certificates for Wi-Fi, VPN, web authentication and more.

Chrome OS Extension Deployment

The deployment of the Chrome OS extension is silent for the end user, and there are no prompts that will display on the user's device. The extension is deployed automatically to known user accounts (AD sync or users added manually to the UEM console) once a user logs in. The extension directly contacts the Workspace ONE UEM console to notify of the new device enrollment. Once the UEM console syncs that device record with Google, the device and user policies will be assigned and pushed.

Things to consider:

- The extension only functions on managed Chrome OS devices. If the device is detected as unmanaged, then the extension will not run.
- The extension is hosted on the Chrome Web Store as an unlisted application which means users will not be able to search for and download it. It can only be installed via a direct download link, which the UEM console provides in the user policy.

Certificate Types

The Workspace ONE UEM Extension offers flexible options for any use case.

- User Certificates
 - For use by only a single user.
 - Not shared with other user accounts.
- Device Certificates
 - Shared across all device users.
 - Includes login users, guest users, kiosk, and managed guest sessions.

Supported Certificate Authorities

- Microsoft ADCS

Certificate Management Through the Chrome OS Extension

A Network profile is configured under User or Device policy. The Network payload contains Wi-Fi and/or certificate information. Network settings will be sent through Google cloud, while certificate details will be queued up for the extension. To get started with the Network profile, see [Configure Network Profile \(Chrome OS\)](#).

The extension is notified of a new certificate policy through Firebase Cloud Messaging (FCM). The extension will retrieve certificate request instructions from the UEM console. The extension will create the CSR (certificate request) and send it to the UEM console. The UEM console then forwards the request to the certificate authority, which returns a certificate. The certificate is forwarded back down to the extension which will install the certificate onto the device.

Networks using certificate based authentication will be configured automatically. Certificates being used for other forms of authentication may need to be selected by the user during the authentication process.

Certificate details are viewable in the console under **Devices > Certificates**.

Certificates configured via User Policy are user-based and only accessible to that user. Certificates configured through Device Policy will be installed at the device level, accessible by any user or guest user/kiosk.

Device Actions

There are some device actions in the UEM console that will affect the extension. Consider the following:

- When 'Clear User Data on Logout' is enabled, the extension and any user certificates are deleted on logout.

Certificate Renewal and Revocation

Certificates for the Chrome OS Extension follow the renewal and revocation settings in the Certificate Authority configuration. When a certificate expires, it will be revoked by the Certificate Authority. The UEM console notifies the extension, and a new certificate is generated.

When a device is enterprise wiped, any assigned certificates are revoked.

Admins can also manually revoke and renew certificates from the UEM console.