

VMware Workspace ONE SDK and Mobile Application Management

VMware Workspace ONE UEM 1810



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MAM Functionality with Settings and Policies and the VMware Workspace ONE SDK

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The Settings and Policies section of the Workspace ONE UEM console contains settings that can control security, behaviors, and the data retrieval of specific applications. The settings are sometimes called SDK settings because they run on the VMware Workspace ONE SDK framework.

You can apply these SDK features to applications built with the Workspace ONE SDK, to supported Workspace ONE UEM applications, and to applications wrapped by the VMware AirWatch App Wrapping engine. Same features can be applied in both the places as the Workspace ONE SDK framework processes the functionality.

Types of Options for SDK Settings

Workspace ONE UEM has two types of the SDK settings, default and custom. To choose the type of SDK setting, determine the scope of deployment.

- Default settings work well across organization groups, applying to large numbers of devices.
Find the default settings in **Groups & Settings > All Settings > Apps > Settings and Policies** and then select **Security Policies, Settings, or SDK App Compliance**. You can apply these options across all the Workspace ONE UEM applications in an organization group. Shared options are easier to manage and configure because they are in a single location. View the matrices for information on which default settings apply to specific Workspace ONE UEM applications or the Workspace ONE SDK and app wrapping.
- Custom settings work with individual devices or for small numbers of devices with applications that require special mobile application management (MAM) features.
Find the custom settings in **Groups & Settings > All Settings > Apps > Settings and Policies > Profiles**. Custom settings for profiles offer granular control for specific applications and the ability to override default settings. However, they also require separate input and maintenance.

Assign the Default or Custom Profile

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To apply Workspace ONE UEM features built with the VMware Workspace ONE SDK, you must apply the applicable default or custom profile to an application. Apply the profile when you upload or edit the application to the Workspace ONE UEM console.

- 1 Navigate to **Apps & Books > Applications > Native > Internal** or **Public**.
- 2 Add or edit an application.
- 3 Select a profile on the **SDK** tab:
 - **Default Settings Profile**
 - For Android applications, select the **Android Default Settings @ <Organization Group >** .
 - For Apple iOS applications, select the **iOS Default Settings @ <Organization Group >** .
 - **Custom Settings Profile** – For Android and Apple iOS applications, select the applicable legacy or custom profile.
- 4 Make other configurations and then save the application and create assignments for its deployment.

Changes to Default and Custom Profiles

When you make changes to the default or custom profile, Workspace ONE UEM applies these edits when you select **Save**.

Changes can take a few minutes to push to end-user devices. Users can close and restart Workspace ONE UEM applications to receive updated settings.

This chapter includes the following topics:

- [Set the Workspace ONE Intelligent Hub for Apple iOS](#)
- [Set the Workspace ONE Intelligent Hub for Android](#)

Set the Workspace ONE Intelligent Hub for Apple iOS

Configure the Workspace ONE Intelligent Hub for Apple iOS to use the correct default profile to apply SDK functionality.

If you do not set the Workspace ONE Intelligent Hub to apply the configurations, your configurations in Settings and Policies do not work on devices.

- 1 Navigate to **Groups & Settings > All Settings > Devices & Users > Apple > Apple iOS > Hub Settings**.
- 2 Set the **SDK Profile V2** option in the **SDK PROFILE** section to the default profile by selecting **iOS Default Settings @ <Organization Group >** .
- 3 **Save** your settings.

Set the Workspace ONE Intelligent Hub for Android

Configure the Workspace ONE Intelligent Hub for Android to use the correct default profile to apply SDK functionality.

If you do not set the Workspace ONE Intelligent Hub to apply the configurations, your configurations in Settings and Policies do not work on devices.

- 1 Navigate to **Groups & Settings > All Settings > Devices & Users > Android > Hub Settings**.
- 2 Set the **SDK Profile V2** option in the **SDK PROFILE** section to the default profile by selecting **Android Default Settings @ <Organization Group >** .
- 3 **Save** your settings.

Supported Settings and Policies Options for the SDK

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Use the default settings profile to apply a VMware Workspace ONE SDK feature to an SDK-built application, a Workspace ONE UEM application, or a wrapped application by setting the configurations in **Policies and Settings**. View which SDK default settings are supported by the SDK by platform.

The table lists the default settings supported by the SDK. For information about supported features for Workspace ONE UEM applications, see the content for that application.

- [VMware Boxer Comparison Matrix for Microsoft Exchange](#)
- [VMware Browser Features Matrix](#)
- [VMware Content Locker Capabilities by Platform](#)

Table 3-1. Supported Settings and Policies Supported Options for VMware Workspace ONE SDK

SDK Default Payload	Workspace ONE SDK for Android	Workspace ONE SDK for iOS (Swift)
Force Token For App Authentication	Supported	Supported
Passcode: Authentication Timeout	Supported	Supported
Passcode: Maximum Number of Failed Attempts	Supported	Supported
Passcode: Passcode Mode Numeric	Supported	Supported
Passcode: Passcode Mode Alphanumeric	Supported	Supported
Passcode: Allow Simple Value	Supported	Supported
Passcode: Minimum Passcode Length	Supported	Supported
Passcode: Minimum Number Complex Characters	Supported	Supported
Passcode: Maximum Passcode Age	Supported	Supported
Passcode: Passcode History	Supported	Supported
Passcode: Biometric Mode	Supported	Supported
Username and Password: Authentication Timeout	Supported	Supported
Username and Password: Maximum Number of Failed Attempts	Supported	Supported
Single Sign On	Supported	Supported

Table 3-1. Supported Settings and Policies Supported Options for VMware Workspace ONE SDK (continued)

SDK Default Payload	Workspace ONE SDK for Android	Workspace ONE SDK for iOS (Swift)
Integrated Authentication: Enable Kerberos	Not Supported	Not Supported
Integrated Authentication: Use Enrollment Credentials	Supported	Supported
Integrated Authentication: Use Certificate	Supported	Supported
Offline Access	Supported	Supported
Compromised Detection	Supported	Supported
AirWatch App Tunnel: Mode	Supported	Supported
AirWatch App Tunnel: URLs (Domains)	Supported	Supported
Geofencing: Area	Supported	Not Supported
DLP: Bluetooth	Supported	Supported
DLP: Camera	Supported	Supported
DLP: Composing Email	Supported	Not Supported
DLP: Copy and Paste Out	Supported	Supported
DLP: Copy and Paste Into	Supported	Supported
DLP: Data Backup	Supported	Not Supported
DLP: Location Services	Supported	Not Supported
DLP: Printing	Supported	Supported
DLP: Screenshot	Not Supported	Supported
DLP: Third Party Keyboards	Supported	Not Supported
DLP: Watermark	Supported	Supported
DLP: Limit Documents to Open Only in Approved Applications	Supported	Supported
NAC: Cellular Connection	Supported	Not Supported
NAC: Wi-Fi Connection	Supported	Not Supported
Branding	Supported	Supported
Logging	Supported	Supported
Analytics	Supported	Supported

This chapter includes the following topics:

- [Supported Settings and Policies Options for App Wrapping](#)
- [Configure to Force Authentication Token for the Default SDK Profile](#)

- [Authentication Type](#)
- [SSO Session and the Workspace ONE Intelligent Hub](#)
- [Configure Integrated Authentication for the Default SDK Profile](#)
- [Configure Offline Access for the Default SDK Profile](#)
- [Configure Compromised Protection for the Default SDK Profile](#)
- [App Tunnel Supported Technologies](#)
- [Content Filtering Integration Settings](#)
- [Configure Geofencing for the Default SDK Profile](#)
- [Configure Data Loss Prevention for the Default SDK Profile](#)
- [Configure Network Access for the Default SDK Profile](#)
- [Configure Branding for the Default SDK Profile](#)
- [Configure Logging for the Default SDK Profile](#)
- [Configure Analytics for the Default SDK Profile](#)
- [Configure Custom Settings for the Default SDK Profile](#)

Supported Settings and Policies Options for App Wrapping

Use the default settings profile to apply a VMware Workspace ONE SDK feature to an SDK-built application, a Workspace ONE UEM application, or a wrapped application by setting the configurations in **Policies and Settings**. View which SDK default settings are supported by app wrapping by platform.

The table lists the default settings supported by the SDK. For information about supported features for Workspace ONE UEM applications, see the content for that application.

- [VMware Boxer Comparison Matrix for Microsoft Exchange](#)
- [VMware Browser Features Matrix](#)
- [VMware Content Locker Capabilities by Platform](#)

Table 3-2. Supported Settings and Policies Supported Options for App Wrapping

SDK Default Payload	App Wrapping for Android	App Wrapping for iOS
Force Token For App Authentication	Not Supported	Not Supported
Passcode: Authentication Timeout	Supported	Supported
Passcode: Maximum Number of Failed Attempts	Supported	Supported
Passcode: Passcode Mode Numeric	Supported	Supported
Passcode: Passcode Mode Alphanumeric	Supported	Supported

Table 3-2. Supported Settings and Policies Supported Options for App Wrapping (continued)

SDK Default Payload	App Wrapping for Android	App Wrapping for iOS
Passcode: Allow Simple Value	Supported	Supported
Passcode: Minimum Passcode Length	Supported	Supported
Passcode: Minimum Number Complex Characters	Supported	Supported
Passcode: Maximum Passcode Age	Supported	Supported
Passcode: Passcode History	Supported	Supported
Passcode: Biometric Mode	Supported	Supported
Username and Password: Authentication Timeout	Supported	Supported
Username and Password: Maximum Number of Failed Attempts	Supported	Supported
Single Sign On	Supported	Supported
Integrated Authentication: Enable Kerberos	Not Supported	Not Supported
Integrated Authentication: Use Enrollment Credentials	Supported	Supported This option is supported only on Android apps that use Webview.
Integrated Authentication: Use Certificate	Note Supported	Note Supported
Offline Access	Note Supported	Note Supported
Compromised Detection	Note Supported	Note Supported
AirWatch App Tunnel: Mode	Supported	Supported
AirWatch App Tunnel: URLs (Domains)	Supported	Supported
Geofencing: Area	Not Supported	Not Supported
DLP: Bluetooth	Not Supported	Supported
DLP: Camera	Supported	Supported
DLP: Composing Email	Supported	Supported
DLP: Copy and Paste Out	Supported	Supported
DLP: Copy and Paste Into	Supported	Supported
DLP: Data Backup	Supported	Not Supported
DLP: Location Services	Supported	Supported
DLP: Printing	Supported	Supported
DLP: Screenshot	Not Supported	Supported
DLP: Third Party Keyboards	Not Supported	Not Supported

Table 3-2. Supported Settings and Policies Supported Options for App Wrapping (continued)

SDK Default Payload	App Wrapping for Android	App Wrapping for iOS
DLP: Watermark	Supported	Supported
DLP: Limit Documents to Open Only in Approved Applications	Supported	Supported
NAC: Cellular Connection	Supported	Not Supported
NAC: Wi-Fi Connection	Supported	Supported
Branding	Supported	Not Supported
Logging	Supported	Supported
Analytics	Not Supported	Not Supported

Configure to Force Authentication Token for the Default SDK Profile

Force the use of an app token to access SDK-built applications with the **Force Token For App Authentication** option.

Behavior

This setting controls how the system allows users to access SDK-built applications, either initially or through a forgot-passcode procedure. When enabled, the system forces the user to generate an application token through the Self-Service Portal (SSP) and does not allow username and password.

Procedure

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Enable the **Force Token For App Authentication** to force the use an application token. This does not force the reset of the enrollment token.

Authentication Type

Configure Workspace ONE UEM applications, applications built using the VMware Workspace ONE SDK, and app wrapped applications to allow access when users authenticate with a set process. Select an authentication type depending on the credentials desired for access; users can set their own or use their Workspace ONE UEM credentials.

Select an authentication type that meets the security needs of your network. The passcode gives device users flexibility while user name and password offers compatibility with the Workspace ONE UEM system. If security is not an issue, then you do not have to require an authentication type.

Setting	Description
Passcode	Designates a local passcode requirement for supported applications. Device users set their passcode on devices at the application level when they first access the application.
User name and Password	Requires users to authenticate to supported applications using their Workspace ONE UEM credentials. Set these credentials when you add users in the Accounts page of the Workspace ONE UEM console.
Disabled	Requires no authentication to access supported applications.

Authentication Type and SSO

Authentication Type and SSO can work together or alone.

- **Alone** – If you enable an Authentication Type (passcode or user name/password) without SSO, then users must enter a separate passcode or credentials for each individual application.
- **Together** – If you enable both Authentication Type and SSO, then users enter either their passcode or credentials (whichever you configure as the Authentication Type) once. They do not have to reenter them until the SSO session ends.

Configure Authentication Type for the Default SDK Profile

Configure how device users authenticate to various components after you configure the app to use the default SDK settings. Components include Workspace ONE UEM applications, applications built using the VMware Workspace ONE SDK, and wrapped applications.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Set the **Authentication Type** and complete settings for the desired authentication method.

- **Passcode**

Passcode Setting	Description
Passcode	Enable this option to require a local passcode requirement.
Authentication Timeout	Define the time elapsed, ranging from the last successful authentication to the value set here, that triggers the system to prompt for Workspace ONE UEM credentials. On newer Android applications, authentication timeout prompts for credentials when the session is inactive for the set time.
Maximum Number Of Failed Attempts	Set the maximum times, a user can log in, with an incorrect passcode before the system throws an error. Actions depend on the platform. <ul style="list-style-type: none"> ■ Android – The system performs an enterprise wipe on the device. ■ iOS – The system performs an enterprise wipe on the device.
Passcode Mode	Set as Numeric or Alphanumeric .
Allow Simple Value	Set the passcode to allow simple strings. For example, allow strings like 1234 and 1111.
Minimum Passcode Length	Set the minimum number of characters for the passcode.

Passcode Setting	Description
Minimum Number Of Complex Characters (if Alphanumeric is selected)	Set the minimum number of complex characters for the passcode. For example, allow characters like [], @, and #.
Maximum Passcode Age (days)	Set the number of days the passcode remains valid before you must change it.
Passcode History	Set the number of passcodes the Workspace ONE UEM console stores so that users cannot use recent passcodes.
Biometric Mode	Select the system used to authenticate for access. <ul style="list-style-type: none"> ■ Enabled – Allow the use of Fingerprint, Touch ID, or Face ID for authentication to the application. ■ Disabled – Does not require biometric authentication systems to access the application.

■ User Name and Password

Username and Password Setting	Description
Username and Password	Enable this option to set authentication to use the Workspace ONE UEM credentials.*
Authentication Timeout	Define the time elapsed, ranging from the last successful authentication to the value set here, that triggers the system to prompt for Workspace ONE UEM credentials. On newer Android applications, authentication timeout prompts for credentials when the session is inactive for the set time.
Maximum Number Of Failed Attempts	Set the maximum times, a user can log in, with an incorrect passcode before the system throws an error. Actions depend on the platform. <ul style="list-style-type: none"> ■ Android – The system performs an enterprise wipe on the device. ■ iOS – The system performs an enterprise wipe on the device.
Biometric Mode	Select the system used to authenticate for access. <ul style="list-style-type: none"> ■ Enabled – Allow the use of Fingerprint, Touch ID, or Face ID for authentication to the application. ■ Disabled – Does not require biometric authentication systems to access the application.

■ Disabled

Select to require no authentication to access the application.

3 Save your settings.

SSO Session and the Workspace ONE Intelligent Hub

Once an end user authenticates with an application participating in SSO, a session establishes. The session is active until the **Authentication Timeout** defined in the SDK profile is reached or if the user manually locks the application.

When using the Workspace ONE Intelligent Hub as a "broker application" for features such as the single sign-on feature, configure the Workspace ONE Intelligent Hub with the applicable SDK profile. If you are using the default SDK profile, ensure that the Workspace ONE Intelligent Hub is configured to use this profile. If you do not set the Workspace ONE Intelligent Hub to use the default SDK profile, then the system does not apply your configurations you configure in the Settings and Policies section.

Enable Single Sign On for the Default SDK Profile

Apply single sign-on (SSO) to Workspace ONE UEM applications, wrapped applications, and SDK-enabled applications. This option allows users to enter a single SSO passcode to access supported resources without having to enter login credentials in each application.

Using either the Workspace ONE Intelligent Hub or the Container as a "broker application", end users can authenticate once using either their normal credentials or an SSO passcode. They gain access to other applications so long as the SSO session is active. See [SSO Session and the Workspace ONE Intelligent Hub](#) for information.

For information about SSO for Apple iOS 7+ using Kerberos authentication, refer to the **VMware Workspace ONE UEM Apple iOS Platform Guide**.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Set **Single Sign On** to **Enabled** to give end-users access to all Workspace ONE UEM applications and to maintain a persistent login.
- 3 Optionally, set **Authentication Type** to **Passcode** and set the **Passcode Mode** to either **Numeric** or **Alphanumeric** to require an SSO Passcode on the device.

If you enable SSO but do not enable an Authentication Type, the system does not prompt end users with any recurring authentication. An exception to this behavior occurs when end users must authenticate during an initial installation of the application. They use their normal credentials to authenticate in this instance.

SSO Configurations and System Login Behavior for iOS Applications

Workspace ONE UEM allows access to iOS applications with single sign on enabled in two phases. Workspace ONE UEM checks the identity of the application user and then it secures access to the application.

Application Access With SSO Enabled

The authentication process to an application with Workspace ONE UEM SSO enabled includes two phases: accessing the app and securing persistent access.

- 1 Identify user for app access - The first phase ensures that the user's credentials are valid. The system identifies the user first by silent login. If the silent login process fails, then the system uses a configured, authentication system. Workspace ONE UEM supports username and password, token, and SAML.

- 2 Secure persistent app access - The second phase grants the user access to the application and keeps the session live with a recurring authentication process. Workspace ONE UEM supports passcode, username and password, and no authentication (disabled).

Authentication Behavior By SSO Configuration

The SSO configuration controls the login behavior users experience when they access applications. The authentication setting and the SSO setting affect the experience of accessing the application.

Table 3-3. Login Behavior for Users when Passcode is Set for SSO

Authentication Phase	SSO Enabled	SSO Disabled
Identify	<ul style="list-style-type: none"> ■ Silent login: The system registers credentials with the managed token for MDM. <p>If silent login fails, the system moves to the next identification process.</p> <ul style="list-style-type: none"> ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML). 	<ul style="list-style-type: none"> ■ Silent login: The system registers credentials with the managed token for MDM. <p>If silent login fails, the system moves to the next identification process.</p> <ul style="list-style-type: none"> ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML).
Secure	<ul style="list-style-type: none"> ■ Prompt if passcode exists: The system does not prompt for the passcode if the session instance is live. ■ Prompt if passcode does not exist: The system prompts users to create a passcode. ■ Session shared: The system shares the session instance across applications configured with Workspace ONE UEM SSO enabled. 	<ul style="list-style-type: none"> ■ Prompt if passcode exists: The system prompts users the application passcodes. ■ Prompt if passcode does not exist: The system prompts users to create a passcode. ■ Session not shared: The system does not share the session or the passcode with other applications.

Table 3-4. Login Behavior for Users when Username and Password is Set for SSO

Authentication Phase	SSO Enabled	SSO Disabled
Identify	<ul style="list-style-type: none"> ■ Silent login: The system registers credentials with the managed token for MDM. <p>If silent login fails, the system moves to the next identification process.</p> <ul style="list-style-type: none"> ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML). 	<ul style="list-style-type: none"> ■ Silent login: The system registers credentials with the managed token for MDM. <p>If silent login fails, the system moves to the next identification process.</p> <ul style="list-style-type: none"> ■ Authenticate: The system prompts for application login credentials.
Secure	<ul style="list-style-type: none"> ■ Prompt: The system does not prompt for the login credentials if the session instance is live. ■ Session shared: The system shares the session instance across applications configured with Workspace ONE UEM SSO enabled. 	<ul style="list-style-type: none"> ■ Prompt: The system prompts for the login credentials for the application on every access attempt. ■ Session not shared: The system does not share the session with other applications.

Table 3-5. Login Behavior for Users when Disabled is Set for SSO

Authentication phase	SSO enabled	SSO disabled
Identify	<ul style="list-style-type: none"> ■ Silent login: The system registers credentials with the managed token for MDM. <p>If silent login fails, the system moves to the next identification process.</p> <ul style="list-style-type: none"> ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML). 	<ul style="list-style-type: none"> ■ Silent login: The system registers credentials with the managed token for MDM. <p>If silent login fails, the system moves to the next identification process.</p> <ul style="list-style-type: none"> ■ Authenticate: The system prompts for application login credentials.
Secure	Prompt: The system does not prompt users for authentication.	Prompt: The system does not prompt users for authentication.

SSO Status Changes and Authentication Behavior for iOS Applications

Applications built with theWorkspace ONE SDK behave according to the single-sign on (SSO) session status and the type of authentication configured.

Status Change Triggers Migration for iOS (Swift)

When you change the SSO setting for an SDK-built, iOS (Swift) application, the application joins or exits the existing SSO session sharing cluster. Joining or exiting the cluster triggers the migration of application-specific data.

Note The Workspace ONE SDK for iOS (Objective-C) does not migrate data. When the SSO status changes, the data in the application resets and re-creates where possible.

SSO Status - On to Off

If the admin disables SSO, the SDK migrates data stored from the SSO sharing cluster to the application storage. In some instances, to migrate data, users enter their authentication information. In other scenarios, users experience no difference in the use of the SDK-built application. This migration behavior depends on the authentication type.

Note The Workspace ONE SDK for iOS (Swift) system does not migrate the integrated authentication certificate. The SDK-built application fetches a new certificate and stores it to use specifically for itself.

Table 3-6. On to Off: SDK Migration Behaviors Depending on SDK Authentication Setting - iOS Swift

Authentication Type	Migration Behavior
Passcode	<p>The system prompts users for SDK-SSO passcodes the next time they open the application. This action triggers the migration of application-specific data from the SSO cluster to the application storage.</p> <p>The system does not migrate the SSO passcode. If the application still requires a passcode for access, the user creates a new one.</p> <p>The system no longer shares this application session with other SSO-enabled applications.</p>
Username and Password	<p>Users perceive no behavior change with the application. They continue to authenticate with their Workspace ONE UEM credentials, username and password. The system migrates application-specific data from the SSO cluster to the application storage.</p> <p>The system does migrate username and password data along with other application-specific data.</p> <p>The system no longer shares this application session with other SSO-enabled applications.</p>
None	<p>Users perceive no behavior change with the application. The system migrates application-specific data from the SSO cluster to the application storage.</p> <p>The system no longer shares this application session with other SSO-enabled applications.</p>

SSO Status - On to Off: No Migration for iOS Objective-C Applications

For any authentication setting, the SDK does not migrate data when admins disable the SSO status. All application-specific data is lost except for the SDK profile configured in the Workspace ONE UEM console.

SSO Status - Off to On

If the admin changes the SSO status to enabled, the SDK migrates data from the application storage to the SSO cluster. The authentication type controls the trigger to migrate data from the application storage to the SSO cluster. The SDK includes two methods for accessing application-specific data to migrate.

- 1 The SDK attempts to access the application storage.
- 2 If the first process fails, the SDK attempts to access and to start using the information stored in the SSO cluster. This process requires that another SDK-built application is on the device with SSO enabled.

Note The Workspace ONE SDK for iOS (Swift) system deletes the integrated authentication certificate that was used by the non-SSO SDK-built application. If a certificate exists in the SSO cluster, the system uses this certificate.

Table 3-7. Off to On: Migration Behaviors Depending on SDK Authentication Setting - iOS Swift

Authentication Type	Migration Behavior
Passcode	<p>The system must change the non-SSO passcode to the SSO passcode. To make this change, the system prompts users for the non-SSO passcode to access the application. Then, the system prompts the users for the SSO passcode used by other SDK-built applications on the device.</p> <p>The system migrates application-specific data from the application storage to the SSO cluster.</p> <p>If no other SDK-built application is on the device with an SSO passcode, the system prompts for the creation one. If the user installs other SDK-built applications, the system shares the SSO session with these applications.</p>
Username and Password	<p>Users perceive no behavior change with the application. They continue to authenticate with their Workspace ONE UEM credentials, username and password.</p> <p>The system migrates application-specific data from application storage to the SSO cluster. The system shares the SSO session with other SDK-built applications.</p>
None	<p>Users perceive no behavior change with the application. The system migrates applicationspecific data from application storage to the SSO cluster.</p> <p>The system shares sessions with other SDK-built applications.</p>

SSO Status - Off to On: No Migration for iOS Objective-C Applications

For any authentication setting, the SDK does not migrate data when admins disable the SSO status. All application-specific data is lost except for the SDK profile configured in the Workspace ONE UEM console.

Configure Integrated Authentication for the Default SDK Profile

Enable **Integrated Authentication** to allow access to corporate resources, such as content repositories, through the Container or the Workspace ONE Intelligent Hub using Workspace ONE UEM SSO credentials.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Select **Enabled** and configure the following settings.

Setting	Description
Enable Kerberos	Use your Kerberos system for authenticating to corporate resources and sites.
Use Enrollment Credentials	Access corporate resources listed in the Allowed Sites field with the SSO credentials. Enter systems in the Allowed Sites text box to control access to a specific set of sites and domains. You must complete this setting for Integrated Authentication to work. This setting ensures that Workspace ONE UEM does not expose credentials to non-trusted resources.
Use Certificate	Upload the Credential Source or set a Defined Certificate Authority to access corporate resources listed in the Allowed Sites text box with the SSO credentials. Enter systems in the Allowed Sites text box to control access to a specific set of sites and domains. You must complete this setting for Integrated Authentication to work. This setting ensures that Workspace ONE UEM does not expose credentials to non-trusted resources.

- 3 **Save** your settings.

Configure Offline Access for the Default SDK Profile

Enable **Offline Access** to give users access to SDK-built applications when not connected to the network.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Select **Enabled** to give devices access to applications with the SDK framework when not on the network.
- 3 In the **Maximum Period Allowed Offline** text box, set the time limit for offline access before the device requires reauthentication to the network and applications.

If you set the value to zero (0), the system allows offline access indefinitely.
- 4 **Save** your settings.

Offline Access Configurations and SDK Behavior

The SDK restricts or allows offline access depending on the configurations.

Offline Access	Behavior
Enabled Maximum Period Allowed = time	The SDK allows offline access and then restricts access when time offline meets the maximum period allowed value.
Enabled Maximum Period Allowed = 0	The SDK allows offline access indefinitely.
Disabled	The SDK prevents offline access.

Configure Compromised Protection for the Default SDK Profile

Enable **Compromised Protection** to protect your mobile network from compromised resources.

Configure Compromised Protection

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Select **Enabled** to stop a compromised device from accessing your enterprise resources.

The system performs an enterprise wipe after the system detects a device is compromised. An enterprise wipe clears privileged corporate data off devices. The system does not perform wipe actions on data unrelated to the enterprise.
- 3 **Save** your settings.

App Tunnel Supported Technologies

Workspace ONE UEM supports various application tunneling (app tunneling) solutions that helps individual applications to authenticate and securely communicate with internal back-end resources. By enabling an app tunnel for a specific set of business applications, you can secure your network from unauthorized or malicious applications.

Workspace ONE UEM supports several app tunnel features. Review the menu items and see if you can use them to increase security when users access applications.

App Tunnel	
Option	Description
Standard Proxy	Enables devices to rely on an existing HTTP or SSL Proxy to determine which content the VMware Browser or other browser accesses.
VMware Tunnel	Accesses corporate content from within your network such as an intranet site. With the VMware Tunnel enabled, you can access the internal corporate content on devices.
F5 Proxy	Accesses your internal network as an alternative to the VMware Tunnel.

Conventional Technology Vulnerabilities

From a security standpoint, app tunneling solutions are more secure than conventional technologies such as SSL VPNs. Conventional technologies allow devices to gain full access to enterprise resources regardless of whether resources are accessed within a business, personal, or malicious application. Full device connectivity through VPN or Wi-Fi carries the risk of data loss, because sensitive data is collected in personal applications and potentially distributed. Also, these conventional technologies put IT at the mercy of end users who might unknowingly have malicious applications on their devices.

VMware Tunnel and F5

The VMware Tunnel and F5 APM serve as relays between your mobile devices and enterprise systems. They authenticate and encrypt traffic from individual applications on compliant devices to the back-end system they are trying to reach.

The F5 APM relay lets you access internal websites and Web apps through the VMware Browser. It also helps access to enterprise systems from your business applications that are wrapped with the App Wrapping engine.

Configure App Tunnel for the Default SDK Profile

Enable **App Tunnel** to allow an application to communicate through a VPN or reverse proxy to access internal resources, such as a SharePoint or intranet sites.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.

2 Select **Enabled** and then select the **App Tunnel Mode**.

Tunnel Type	Description
AirWatch App Tunnel	<p>Sets devices to access corporate resources using the VMware Tunnel that serves as a relay between mobile devices and enterprise systems.</p> <ul style="list-style-type: none"> ■ Select Configure Tunnel Settings to enable the VMware Tunnel if you have not already set this feature. ■ To restrict the communication to a set of tunnel domains, enter domains in the App Tunnel URLs text box. All other traffic not listed in this text box, goes directly to the Internet. <p>Use wildcards to allow access to any site with a domain subset. For example, *.<example>.com allows traffic to any site that contains .<example>.com in its domain. Similarly, it allows access to any port on that site with an implementation similar to *.<example>.com.</p> <p>If nothing is listed in this text box, all traffic directs through the app tunnel.</p>
F5	<p>Sets devices to access Web services behind a firewall defined by specific policies that allow secure connections through your F5 components.</p> <ul style="list-style-type: none"> ■ To access your internal network, select an App Tunnel Proxy from the menu. Add third-party proxies by selecting Configure F5 Settings. ■ To restrict the communication to a set of tunnel domains, enter domains in the App Tunnel URLs text box. All other traffic not listed in this text box, goes directly to the Internet. <p>Use wildcards to allow access to any site with a domain subset. For example, *.<example>.com allows traffic to any site that contains .<example>.com in its domain. Similarly, it allows access to any port on that site with an implementation similar to *.<example>.com.</p> <p>If nothing is listed in this text box, all traffic directs through the app tunnel.</p>
Standard Proxy	<p>Sets devices to request resources using a proxy server that allows or denies connections to enterprise systems.</p> <ul style="list-style-type: none"> ■ To access your internal network, select an App Tunnel Proxy from the menu . Add standard proxies by selecting Configure Standard Proxy Settings. ■ To restrict the communication to a set of tunnel domains, enter domains in the App Tunnel URLs text box. All other traffic not listed in this text box, goes directly to the Internet. <p>Use wildcards to allow access to any site with a domain subset. For example, *.<example>.com allows traffic to any site that contains .<example>.com in its domain. Similarly, it allows access to any port on that site with an implementation similar to *.<example>.com.</p> <p>If nothing is listed in this text box, all traffic directs through the app tunnel.</p>

3 Save your settings.

Content Filtering Integration Settings

Use the **Content Filter** menu item to integrate your Forcepoint (Websense) content filtering service and the VMware Browser.

This integration requires configurations on different pages in the Workspace ONE UEM console.

- **Third-Party Proxies** – Add information on the Third-Party Proxies page for your content filtering system so Workspace ONE UEM can communicate with it. Configure your Forcepoint information in **Groups & Settings > All Settings > System > Enterprise Integration > Third Party Proxies**.

- **Settings and Policies** – Used for content filtering on the Settings and Policies page. Using the Settings and Policies, you can filter traffic in the VMware Browser with the policies and rules set in your Forcepoint service.

Integration results in the system filtering the VMware Browser traffic with the settings in the content filtering system. If you use another application tunnel, Workspace ONE UEM sends data that is not going through your content filtering service to the configured app tunnel.

Content Filtering and App Tunnel

To benefit from your content filtering system with Workspace ONE UEM, integrate the content filtering feature and the app tunnel . Enter sites in the app tunnel area so the content filter can work on them.

Enter trusted resources or sites in the **App Tunnel URLs** text box on the **Settings and Policies** page. Users can access these internal sites using the app tunnel while Workspace ONE UEM sends the rest of the traffic to your content filter service.

If you do not enter sites in the **App Tunnel URLs** text box, Workspace ONE UEM sends all traffic through the tunnel and your content filter receives no traffic.

Configure Content Filtering for the Default SDK Profile

Enable **Content Filtering** to allow or block access to sites in the VMware Browser depending on rules and policies you set in your Forcepoint service.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Enable content filtering and select your system from the list of content filters.
- 3 **Save** your settings.

Configure Geofencing for the Default SDK Profile

Enable **Geofencing** to restrict access to applications depending on the distances set in Geofencing settings in the Workspace ONE UEM console.

- 1 Ensure that a Geofencing area is set in **Device > Profiles > Profile Settings > Areas**.
- 2 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 3 Select **Enabled** and then enter the specific area in the **Geofencing Area** text box.
- 4 **Save** your settings.

Configure Data Loss Prevention for the Default SDK Profile

Enable **Data Loss Prevention** (DLP) to protect sensitive data in applications. DLP options control how and what data transmits back and forth.

Data loss prevention is not available for Container, but it is available for applications in the Container.

1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.

2 Select **Enabled** for the specific DLP option.

Setting	Description
Enable Bluetooth	Allows applications to access Bluetooth functionality on devices when set to Yes .
Enable Camera	Allows applications to access the device camera when set to Yes .
Enable Composing Email	Allows an application to use the native email client to send emails when set to Yes .
Enable Copy and Paste Out	<p>Allows users to copy and paste content from SDK-built applications to external destinations when set to Yes.</p> <p>When you set it to No, the system allows copy and paste only between Workspace ONE UEM applications.</p> <p>Encryption of the pasted content depends upon the configurations for authentication and SSO. If you enable authentication and SSO, the system encrypts the content with a user pin-based key. Otherwise, the system encrypts content with a randomly generated key.</p> <p>The system migrates the setting configured previously in the option to Enable Copy and Paste to this feature.</p>
Enable Copy and Paste Into	<p>Allows users to copy and paste content from external destinations into SDK-built applications when set to Yes.</p> <p>When you set it to No, the system allows copy and paste only between Workspace ONE UEM applications.</p>
Enable Data Backup	Allows wrapped iOS applications to sync data with a storage service like iCloud when set to Yes .
Enable Location Services	Allows wrapped applications to receive the latitude and longitude of the device when set to Yes .
Enable Printing	Allows an application to print from devices when set to Yes .
Enable Screenshot	Allows applications to access screenshot functionality on devices when set to Yes .
Enable Third-Party Keyboards	<p>On iOS devices when set to No, SDK-built applications always open in the native keyboard and prevent the use of third-party keyboards.</p> <p>On Android devices when set to No and the user did not set the system keyboard as the primary keyboard, SDK-built applications prevent user access.</p>
Enable Watermark	<p>Displays text in a watermark in documents in the VMware Content Locker when set to Yes.</p> <p>Enter the content to display in the Overlay Text text box or use lookup values. You cannot change the design of a watermark from the Workspace ONE UEM console.</p>
Limit Documents to Open Only in Approved Apps	Enter options to control the applications used to open resources on devices.
Allowed Applications List	Enter the applications that you allow to open documents.

3 **Save** your settings.

Configure Network Access for the Default SDK Profile

Enable **Network Access** to allow applications to access the mobile network.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies**.
- 2 Select **Enabled** and then complete the following options.

Setting	Description
Allow Cellular Connection	Controls cellular connections by allowing them all the time, allowing connections when the device is not roaming, or never allowing cellular connections.
Allow Wi-Fi Connection	Allows connections using Wi-Fi networks, or limits connections by Service Set Identifier (SSID).
Allowed SSIDs	Enter the Service Set Identifiers (SSIDs) that devices can use to access the Wi-Fi network during limiting connections.

- 3 **Save** your settings.

Configure Branding for the Default SDK Profile

Change the look and feel of applications to reflect the unique brand of your company with **Branding** settings when you configure the app to use the default SDK settings.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Settings**.

2 Select **Enabled** for **Branding** and then complete the following options.

Setting	Description
Colors	<p>Reflect your company colors by choosing colors for the Workspace ONE UEM console from the color palette beside the color options.</p> <p>Choose primary and secondary colors listed options including tool bars and text.</p>
Organization Name	Enter the name that represents your organization to display in the Workspace ONE UEM system.
Device Backgrounds	<p>Upload images that the system displays as the background and as the logo for the organization on the listed device types.</p> <ul style="list-style-type: none"> ■ Apple iOS options <ul style="list-style-type: none"> ■ Background Image iPhone ■ Background Image iPhone (Retina) ■ Background Image iPhone 5 (Retina) ■ Background Image iPad ■ Background Image iPad (Retina) ■ Android options <ul style="list-style-type: none"> ■ Background Image Small ■ Background Image Medium ■ Background Image Large ■ Background Image Extra Large ■ Platform neutral options <ul style="list-style-type: none"> ■ Company Logo Phone ■ Company Logo Phone High Res ■ Company Logo Tablet ■ Company Logo Tablet High Resolution

3 **Save** your settings.

Configure Logging for the Default SDK Profile

Enable **Logging** so the system records data for applications built with the VMware Workspace ONE SDK, supported Workspace ONE UEM applications, and wrapped applications.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Settings**.
- 2 Select **Enabled** for **Logging**.
- 3 Choose your **Logging Level** from a spectrum of recording frequency options.
- 4 Select **Send logs over Wi-Fi only** to prevent the transfer of data while roaming and to limit data charges.
- 5 **Save** your settings.

Application Log Limits for SaaS Deployments

The Workspace ONE UEM system collects logs until the log file size reaches 200 MB for SaaS environments. If the log size exceeds 200 MB, the system stops collecting logs. The Workspace ONE UEM console notifies you when your application log size reaches 75% of 200 MB.

To act on the application log size, contact your Workspace ONE UEM Representative.

- Ask for an increase in your application log size.
- Ask for a purge of your application log. The system can purge logs older than two weeks.

Configure View Logs for Internal Applications

Use the View Logs feature to access available log files pertaining to your internal SDK applications and wrapped applications, quickly. Log types include all logs, crash logs, and application logs. With this feature, you can download or delete logs.

Filter Logs

Filter options using the **Log Type** and **Log Level** menus so that you can find the type or amount of information to research and troubleshoot SDK and App Wrapping applications.

Download and Delete Logs

- 1 Navigate to **Apps & Books > Applications > Native** and select the **Internal** tab.
- 2 Select the application and then select **More > View > Logs** option from the actions menu.
- 3 Select desired options depending on if you want to act on specific devices (selected) or to act on all devices (listed).

Setting	Description
Download Selected	Download selected logs with information pertaining to applications created with the Workspace ONE SDK or using the App Wrapping feature.
Download Listed	Download all logs in all pages with information pertaining to applications created with the Workspace ONE SDK or using the App Wrapping feature.
Delete Selected	Delete selected logs with information about applications created with the Workspace ONE SDK or using the App Wrapping feature.
Delete Listed	Delete all logs in all pages with information about applications created with the Workspace ONE SDK or using the App Wrapping feature.

SDK Log Types

Workspace ONE UEM displays logs for applications that report application fails and that report application-specific data. These logs integrate with the VMware Workspace ONE SDK so that you can manage applications built by it.

Find logs for applications in **Apps & Books > Analytics > App Logs**.

Setting	Description
Application Logs	This type of log captures information about an application. You set the log level in the default SDK profiles section, Groups & Settings > All Settings > Apps > Settings and Policies > Settings > Logging . You must add code into the application to upload these logs to the Workspace ONE UEM console.
Crash Logs	This type of log captures data from an application the next time the application runs after it crashes. These logs are automatically collected and uploaded to the Workspace ONE UEM console without the need for extra code in the SDK application.

SDK Log Levels

Workspace ONE UEM groups logging messages into categories to distinguish critical issues from normal activities.

The Workspace ONE UEM console reports the messages that match the configured logging level plus any logs with a higher critical status. For example, if you set the logging level to Warning, messages with a Warning and Error level display in the Workspace ONE UEM console.

Level	Logging Syntax	Description
Error	AWLogError("{log message}")	Records only errors. An error displays failures in processes such as a failure to look up UIDs or an unsupported URL.
Warning	AWLogWarning("{log message}")	Records errors and warnings. A warning displays a possible issue with processes such as bad response codes and invalid token authentications.
Information	AWLogInfo("{log message}")	Records a significant amount of data for informational purposes. An information logging level displays general processes, warning, and error messages.
Debug or Verbose	AWLogVerbose("{log message}")	Records all data to help with troubleshooting. This option is not available for all functions.

Configure Analytics for the Default SDK Profile

Use SDK **Analytics** to view useful statistics for your applications created with the VMware Workspace ONE SDK or using SDK functionality.

For example, you can use SDK analytics to view how many times a file or an application has been opened and how long the file or application remained open. These statistics offer a quick view of which end users have downloaded and viewed high-priority content.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Settings**.
- 2 Select **Enabled** for **Analytics**.
- 3 **Save** your settings.

Configure Custom Settings for the Default SDK Profile

Enter **Custom Settings** to enter XML code. This XML code allows you to enable or disable certain settings, manually. You can add custom features to your environment to support the unique needs of your mobile network.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Settings**.
- 2 Select **Enabled** for **Custom Settings**.
- 3 Enter the code in the **Custom Settings** text box.
- 4 **Save** your settings.

Supported Lookup Values

For the most current list of the supported lookup values for custom settings, select the **Insert Lookup** icon, the plus sign (+), next to the text box.

Privacy Policies for Data Collection in VMware Productivity Applications

4

Privacy configurations control the collection of data from your VMware productivity applications.

Configurable Privacy Policies

Privacy configurations consist of key-value pairs entered in the Workspace ONE UEM console. The default SDK settings power these configurations, and they provide the listed controls.

- Display your company's privacy policy within the productivity application so that users can review it and know the company's exact policy.
- To allow users to decide if they want to share their feature usage analytics, display a Data Sharing page in the productivity application. Sharing feature usage analytics helps VMware improve existing features and develop new ones.
- If you use VMware Workspace ONE Intelligence, you can share the diagnostic data for productivity applications that is collected from these systems. Sharing diagnostic data helps to analyze and troubleshoot problems with applications and your enterprise mobility management environment.

Supported VMware Productivity Applications

The privacy policies impact the listed VMware productivity applications.

- Workspace ONE Web
- Workspace ONE Content
- Workspace ONE Boxer
- VMware Workspace ONE

Access to Privacy Policy Information

Users can access the privacy information in productivity applications and they can change their selections at any time. Users also see the privacy dialog box when they first access the application and when they upgrade the application.

This chapter includes the following topics:

- [Configure Privacy Settings for Data Collection](#)

■ [Example Configurations for Privacy Policies for Data Collection](#)

Configure Privacy Settings for Data Collection

To control the collection of data for VMware productivity applications with the default SDK profile, enter the privacy settings in the custom settings text box.

To configure the privacy settings, follow the listed procedure in the Workspace ONE UEM console.

- 1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > Settings > Custom Settings**.
- 2 Select **Enabled**.

3 Enter the key-value pairs in the text box.

Table 4-1. Key-Value Pairs for Privacy Settings

Name	Key	Value	Description
Company Privacy Policy URL	"PrivacyPolicyLink"	"https://www.company.com/privacypolicy"	<p>The value for this key is the company's specific privacy policy URL.</p> <p>Navigate users to a specific privacy disclosure site from the productivity application.</p> <p>Users can review the policy so that they know the company's stance on privacy.</p>
VMware Feature Usage Analytics	"PolicyAllowFeatureAnalytics"	<ul style="list-style-type: none"> ■ 0 - Disabled <ul style="list-style-type: none"> ■ Prevents data sharing for all users of productivity applications. ■ This value prevents the display of the Data Sharing page in the productivity application. ■ 1 - Enabled <ul style="list-style-type: none"> ■ Users can decide if they want to share their usage data for productivity applications. ■ This value does display the Data Sharing page in the productivity application. 	<p>This key controls the display of the Data Sharing page within the productivity application.</p> <p>Users can opt in or out of sharing their feature usage analytics.</p> <p>Feature usage analytics collection helps VMware to improve existing products and to develop new ones.</p>
Diagnostics Data Through VMware Workspace ONE Intelligence and Aptelligent by VMware	"PolicyAllowCrashReporting" For this key to work, you must use Aptelligent by VMware or VMware Workspace ONE Intelligence.	<ul style="list-style-type: none"> ■ false - Disabled <ul style="list-style-type: none"> ■ Prevents the reporting of diagnostic data for productivity applications as reported by Aptelligent and Workspace ONE Intelligence. ■ When disabled, your ability to investigate and resolve problems is reduced because your system receives no diagnostic data for productivity applications from Aptelligent or Workspace ONE Intelligence. ■ true - Enabled <ul style="list-style-type: none"> ■ Sends diagnostic data for productivity applications as reported by Aptelligent and Workspace ONE Intelligence. ■ When set to true, your system receives diagnostic data for productivity applications from 	<p>This key controls reporting diagnostic data from Aptelligent and Workspace ONE Intelligence.</p> <p>Aptelligent and Workspace ONE Intelligence are tools that help analyze, troubleshoot, and maintain applications and enterprise mobility management deployments.</p>

Table 4-1. Key-Value Pairs for Privacy Settings (continued)

Name	Key	Value	Description
			Aptelligent and Workspace ONE Intelligence to help with investigating and resolving problems.

4 Save your settings.

Example Configurations for Privacy Policies for Data Collection

Review an example of the privacy policies that you can enter in the custom settings text box of the default SDK profile.

```
{
  "PolicyAllowFeatureAnalytics": 1,
  "PrivacyPolicyLink": "https://www.company.com/privacypolicy",
  "PolicyAllowCrashReporting": true
}
```

The example entry configures the listed actions.

- Displays the Data Sharing page within the productivity applications so that users can decide to share or not share their feature usage analytics.
- Navigates users to a URL within the productivity application so that users can review the company's privacy policy.
- Shares diagnostic data for productivity applications from Aptelligent by VMware and VMware Workspace ONE Intelligence.