SDK and Application Management

VMware Workspace ONE UEM 1903

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MAM Functionality with VMware Workspace ONE SDK

The Settings and Policies section of the Workspace ONE UEM console has settings that control security, application behaviors, and the data retrieval of specific applications. The settings are also called SDK settings because they run on the 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.

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. Make other configurations and then save the application and create assignments for its deployment.

Procedure

1   Navigate to **Apps & Books > Applications > Native > Internal** or **Public**.

2   Add or edit an application.

3   Select a profile on the **SDK** tab.

Setting	Description
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 Profiles	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.

Set the Workspace ONE Intelligent Hub for Apple iOS

To apply SDK functionality to SDK-built resources, configure the Workspace ONE Intelligent Hub for Apple iOS to use the correct SDK default profile.

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

Procedure

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

To apply SDK functionality to SDK-built resources, configure the Workspace ONE Intelligent Hub for Android to use the correct SDK default profile.

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

Procedure

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.

Settings and Policies Options for the SDK

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Use the default settings in **Policies and Settings** to apply Workspace ONE SDK functionality to an SDK-built application, a Workspace ONE UEM productivity application, or a wrapped application. Not all settings are supported for each platform so identify supported SDK default settings 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.

Table 3-1. Supported Settings and Policies Options By SDK Platform

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
Integrated Authentication: Enable Kerberos	Not Supported	Not Supported
Integrated Authentication: Use Enrollment Credentials	Supported	Supported

Table 3-1. Supported Settings and Policies Options By SDK Platform (continued)

SDK Default Payload	Workspace ONE SDK for Android	Workspace ONE SDK for iOS (Swift)
Integrated Authentication: Use Certificate	Supported	Supported
Offline Access	Supported	Supported
Compromised Detection	Supported	Supported
AirWatch App Tunnel	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
SDK App Compliance: Application Version	Not Supported	Not Supported
SDK App Compliance: OS Version	Not Supported	Not Supported
SDK App Compliance: Security Patch Date	Not Supported	Not Supported

This chapter includes the following topics:

- Configure to Force Authentication Token for the Default SDK Profile

- Authentication Type

- SSO Session and the Workspace ONE Intelligent Hub

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.

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

Authentication Type controls how applications that use the SDK framework to use authenticate to resources. Configure it to work with the SDK default setting for Single Sign-On (SSO) or on its own.

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.

Table 3-2. Descriptions of Authentication Options

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 users authenticate to resources with **Authentcation Type**.

Procedure

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 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. - 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. ■ **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.

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. ■ 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. ■ **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 Setting	Description
Disabled	Select to require no authentication to access the application.

3 **Save** your settings.

SSO Session and the Workspace ONE Intelligent Hub

A single sign-on (SSO) session establishes when a user authenticates with an application participating in in SSO. The session is active until the it reaches the **Authentication Timeout** value or until the user manually locks the application. Control this behavior with the Workspace ONE Intelligent Hub and the SDK profile.

When using the Workspace ONE Intelligent Hub as a "broker application" for features such as SSO, 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

Configure applications that use the SDK framework 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 Workspace ONE 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.

Procedure

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   If you want to require an SSO passcode on devices, set **Authentication Type** to **Passcode** and set the **Passcode Mode** to either **Numeric** or **Alphanumeric**.

    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	■ Silent login: The system registers credentials with the managed token for MDM. If silent login fails, the system moves to the next identification process. ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML).	■ Silent login: The system registers credentials with the managed token for MDM. If silent login fails, the system moves to the next identification process. ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML).
Secure	■ 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.	■ 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	■ Silent login: The system registers credentials with the managed token for MDM. If silent login fails, the system moves to the next identification process. ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML).	■ Silent login: The system registers credentials with the managed token for MDM. If silent login fails, the system moves to the next identification process. ■ Authenticate: The system prompts for application login credentials.
Secure	■ 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.	■ 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	■ Silent login: The system registers credentials with the managed token for MDM. If silent login fails, the system moves to the next identification process. ■ Authenticate: The system identifies credentials against a common authentication system (username and password, token, and SAML).	■ Silent login: The system registers credentials with the managed token for MDM. If silent login fails, the system moves to the next identification process. ■ 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

iOS applications built with the Workspace ONE SDK framework do or do not migrate application-specific data depending on the status of the SSO session and the authentication configured in the default SDK profile.

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 Behvior
Passcode	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.
	The system does not migrate the SSO passcode. If the application still requires a passcode for access, the user creates a new one.
	The system no longer shares this application session with other SSO-enabled applications.
Username and Password	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.
	The system does migrate username and password data along with other application-specific data.
	The system no longer shares this application session with other SSO-enabled applications.
None	Users perceive no behavior change with the application. The system migrates applicationspecific data from the SSO cluster to the application storage.
	The system no longer shares this application session with other SSO-enabled applications.

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	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.
	The system migrates application-specific data from the application storage to the SSO cluster.
	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.
Username and Password	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 application storage to the SSO cluster. The system shares the SSO session with other SDK-built applications.
None	Users perceive no behavior change with the application. The system migrates applicationspecific data from application storage to the SSO cluster.
	The system shares sessions with other SDK-built applications.

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 Workspace ONE or the Workspace ONE Intelligent Hub using Workspace ONE UEM SSO credentials.

Procedure

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

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

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.

Procedure

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.

Configure Compromised Protection for the Default SDK Profile

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

Procedure

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.

   An enterprise wipe clears privileged corporate data off devices. The system does not perform wipe actions on data unrelated to the enterprise.

   The system performs an enterprise wipe after the system detects a device is compromised.

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 you 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

Use **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.

Procedure

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

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

Setting	Description
VMware Tunnel - Proxy	Sets devices to access corporate resources using the VMware Tunnel that serves as a relay between mobile devices and enterprise systems. ■ 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. 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**. If nothing is listed in this text box, all traffic directs through the app tunnel.
F5	Sets devices to access Web services behind a firewall defined by specific policies that allow secure connections through your F5 components. ■ 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. 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**. If nothing is listed in this text box, all traffic directs through the app tunnel.
Standard Proxy	Sets devices to request resources using a proxy server that allows or denies connections to enterprise systems. ■ 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. 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**. If nothing is listed in this text box, all traffic directs through the app tunnel.

3 **Save** your settings.

Content Filter

Content Filter integrates your Forcepoint (Websense) content filtering service and the Workspace ONE Web. This integration requires settings on mulitple pages in the console.

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 Workspace ONE Web with the policies and rules set in your Forcepoint service.

Integration results in the system filtering the Workspace ONE Web 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

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

Procedure

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

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

Procedure

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

Use **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.

Procedure

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	Allows users to copy and paste content from SDK-built applications to external destinations when set to **Yes**. When you set it to **No**, the system allows copy and paste only between Workspace ONE UEM applications. 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. The system migrates the setting configured previously in the option to **Enable Copy and Paste** to this feature.
Enable Copy and Paste Into	Allows users to copy and paste content from external destinations into SDK-built applications when set to **Yes**. When you set it to **No**, the system allows copy and paste only between Workspace ONE UEM applications.
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**.

Setting	Description
Enable Third-Party Keyboards	On iOS devices when set to **No**, SDK-built applications always open in the native keyboard and prevent the use of third-party keyboards. 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.
Enable Watermark	Displays text in a watermark in documents in the VMware Content Locker when set to **Yes**. 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.
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

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

Procedure

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.

Procedure

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	Reflect your company colors by choosing colors for the Workspace ONE UEM console from the color palette beside the color options. Choose primary and secondary colors listed options including tool bars and text.
Organization Name	Enter the name that represents your organization to display in the Workspace ONE UEM system.

Device Backgrounds	Upload images that the system displays as the background and as the logo for the organization on the listed device types.
	 ■ Apple iOS options
	  ■ Background Image iPhone
	  ■ Background Image iPhone (Retina)
	  ■ Background Image iPhone 5 (Retina)
	  ■ Background Image iPad
	  ■ Background Image iPad (Retina)
	 ■ Android options
	  ■ Background Image Small
	  ■ Background Image Medium
	  ■ Background Image Large
	  ■ Background Image Extra Large
	 ■ Platform neutral options
	  ■ Company Logo Phone
	  ■ Company Logo Phone High Res
	  ■ Company Logo Tablet
	  ■ Company Logo Tablet High Resolution

3   **Save** your settings.

Dimensions for Images on App Splash Screens

It is difficult to find a single image that displays perfectly on every mobile device. However, certain dimensions for images displayed on iOS and Android devices can work for most displays. Use these specifications for application splash screens.

Mobile - iOS Splash Screens

Figure 3-1. Example Splash Screen Specifications
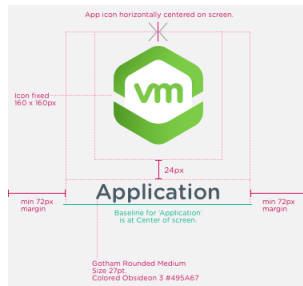
- Icon, centered - 160 x 160 pixels

- Branded text distance from icon – centered at a distance of 24 pixels

- Branded text – 27 point

- Margins - 72 pixels

Tablet, Portrait - iOS Splash Screens

- Icon - 160 x 160 pixels

- Branded text distance from icon – centered at a distance of 24 pixels

- Branded text – 27 point

- Margins - 264 pixels

Tablet, Landscape - iOS Splash Screens

- Icon - 160 x 160 pixels

- Branded text distance from icon – centered at a distance of 24 pixels

- Branded text – 27 point

- Margins - 292 pixels

Mobile - Android Splash Screens

- Icon - 160 x 160 pixels

- Branded text distance from icon – centered at a distance of 24 pixels

- Branded text – 27 point

- Margins - 56 pixels

Tablet, Portrait - Android Splash Screens

- Icon - 160 x 160 pixels

- Branded text distance from icon – centered at a distance of 24 pixels

- Branded text – 27 point

- Margins - 260 pixels

Tablet, Landscape - Android Splash Screens

- Icon - 160 x 160 pixels

- Branded text distance from icon – centered at a distance of 24 pixels

- Branded text – 27 point

- Margins - 388 pixels

Configure Logging for the Default SDK Profile

Use **Logging** so the system records data for applications the use the VMware Workspace ONE SDK framework.

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.

Procedure

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.

Request Application Logs for SDK-Built Apps

Request applications logs for your SDK-built applications from the device record in the console.

Procedure

1   Navigate to **Devices > List View** and select the device.

2   Select the **Apps** tab, select the SDK-built app, and choose **Request Logs**.

The **Request Logs** button displays after you select the application.

3   Complete the settings in the **Request Logs** window. You can retrieve logs that are currently available or you can select to capture a log type for a duration of time.

4   To retrieve the logs, navigate to **Apps & Books** > **Applications > Logging > App Logs**.

5   Find the log for the application with the **App Name** column and download the file.

Configure View Logs for Internal Applications

Use the View Logs feature to access available log files pertaining to applications that use the Workspace ONE SDK framework. Log types include all logs, crash logs, and application logs. With this feature, you can download or delete 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 applications that use the SDK framework.

Procedure

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 that use the Workspace ONE SDK framework.
Download Listed	Download all logs in all pages with information pertaining to applications that use the Workspace ONE SDK framework.
Delete Selected	Delete selected logs with information about applications that use the Workspace ONE SDK framework.
Delete Listed	Delete all logs in all pages with information about applications that use the Workspace ONE SDK framework.

SDK Log Types

Workspace ONE UEM displays logs for applications that report application failures 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 Logging APIs for 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.

The SDK-built application collects logs over time and stores them locally on the device until another API or command is invoked to transmit the logs.

Note   When an enterprise wipe occurs, the console does not purge the log files. You can retrieve logs after a device re-enrolls to determine what issues occurred in the last enrollment session to cause the enterprise wipe.

Table 3-8. SDK Logging Level APIs and Level Descriptions

Level	Logging API	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.

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.

Procedure

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

2   Select **Enabled** for **Analytics**.

3   **Save** your settings.

Access SDK Analytics

Display events for applications that use SDK functionality. Workspace ONE UEM reports event analytics by the application ID and event name. These events are custom created and developers can code any process or behavior they want to track.

Procedure

1   Navigate to **Apps & Books > Applications > Logging > SDK Analytics**.

2   View events for SDK applications and retrieve data including application ID, the device on which it happened, and the event name.

Data Usage Analytics for SDK-Build Apps

Find data usage analytics in the Telecom area of the console. These events are embedded in the PLIST file for the Apple iOS application by the developer. They track telecom use for SDK developed applications.

Procedure

1   Navigate to **Telecom > List View**.

2   Select devices that have the application installed and navigate to the **Details View**.

3   View data for the SDK application on the **Telecom** tab and use the **Export** option to retrieve a CSV version of the data.

Access SDK Event Analytics for iOS

Export analytics data for your Apple iOS applications built using the SDK or using SDK functionality.

Procedure

1   Navigate to **Apps & Books > Applications > List View > Internal**.

2   Select the SDK application and view the **Details View**.

3   Choose **View > Analytics** from the actions menu.

Configure Custom Settings for the Default SDK Profile

Use **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.

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.

Procedure

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.

SDK App Compliance for the Default SDK Profile

SDK App Compliance settings help monitor and enforce compliance on devices that do not have MDM profiles or devices that are offline, but do have SDK-built applications. Use the page to configure **Application Version**, **OS Version**, and **Security Patch Date**.

Note   The **SDK App Compliance** feature is not available with custom profiles.

Block and Wipe Functions for SDK App Compliance Settings

SDK app compliance identifies non-compliant devices with SDK-built applications installed and act with the block or wipe function. It identifies non-compliance when a device's status satisfies the configured rules.

Note   Note: The **App Version** setting only applies the block action.

- Wipe - The Wipe action, also called an enterprise wipe, clears privileged corporate data off devices that are not compliant with the applicable parameter. The system does not perform wipe actions on data unrelated to the enterprise. SDK App Compliance settings that use this action include the following list.

  - OS Version

  - Security Patch Date

- Block - The Block action prevents user access to SDK-built applications that meet a configured parameter. SDK App Compliance settings that use this action include the following list.

  - App Version

  - OS Version

  - Security Patch Date

Configure Application Version for the Default SDK Profile

Use **Application Version** to restrict devices from accessing SDK-built applications unless the version is approved.

Application Version always uses the **Block** action when the SDK identifies the configured parameters. The **Block** action prevents user access to SDK-built applications.

Procedure

1   Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > SDK App Compliance > Application Version**.

2 Select **Enabled** to restrict a device from accessing an application unless the application is an approved version.

3 Complete the version options for Android and iOS platforms.

   a   Select an SDK-built application from a list that displays when you enter text in the text box.

   b   Select an operator to configure the restricted application versions.

   c   Enter a version to complete the parameter.

   Enter and select **VMware Boxer**, select **Less Than**, and enter **4.9**. This group of parameters sets the SDK to block access to any version of VMware boxer that is earlier than v4.9.

   This field evaluates version identifiers as numeric values separated by a period. For example, 2.3.5 or 7.5.4.1. If your version contains non-numeric values, like 2.a.5, the SDK uses only the leading numeric values and it evaluate this as 2. For a version number of 2.3.4.a, the SDK evaluates this as 2.3.4

4 Add multiple SDK-built applications with **Add Application**.

   You cannot add more than one version of an SDK-built application.

5 Save your settings.

Configure OS Version for the Default SDK Profile

Use **OS Version** to restrict devices from accessing your enterprise resources that are not on compliant OS versions.

Procedure

1 Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > SDK App Compliance > OS Version**.

2 Select **Enabled** to restrict a device that is not on an approved OS version from accessing your enterprise resources.

3 Configure the parameters that restrict the non-compliant OS versions for Android and iOS platforms.

   a   Select an operator to define the approved OS version.

   b   Select the OS version to complete the configuration.

   Select **Greater Than or Equal To**, and enter **Android 4.4.2**. This group of parameters sets the SDK to block access to an Android device or wipe an Android device that either runs 4.4.2 or an OS version later than 4.4.2. This configuration approves of Android OS version 4.4.1 and earlier.

4 Select an **Action**.

5 Save your settings.

Configure Security Patch Date for the Default SDK Profile

Use **Security Patch Date** to restrict Android devices that are on a security patch older than a specified date.

This function supports only the Android platform.

Procedure

1   Navigate to **Groups & Settings > All Settings > Apps > Settings and Policies > SDK App Compliance > Security Patch Date**.

2   Select **Enabled** to restrict an Android device that is not on an approved security patch from accessing your enterprise resources.

3   Enter a date that identifies the minimum approved security patch that you require Android devices to run in the **Before** text box. If an Android device runs a patch published before this date, the SDK acts with the configured action.

4   Select an **Action**.

5   Save your settings.

Data for SDK App Compliance Settings

The Workspace ONE UEM console includes data to report on the state of your **SDK App Compliance** in two places: Device Details View and Device Events.

You can view the status of your SDK App Compliance using the application Compliance Column in the Device Details View of the SDK-built application. For information about viewing the SDK App Compliance settings, see View Application Compliance Column in Device Details.

You can find device events for SDK App Compliance using two methods: from the Device Details view or from the Events page. The device events report as listed.

- **App Compliance Reported Non Compliant** has a severity of **Warning**.

- **App Compliance Reported Compliant** has a severity of **Information**.

If the SDK-built application reported as non-compliant with the SDK App Compliance settings, the applicable device events display in the event log or device events list.

For information about viewing device events for the SDK App Compliance, see View Device Events for SDK App Compliance in Device Details and View Device Events for SDK App Compliance in Events.

View Application Compliance Column in Device Details

View the status of your SDK App Compliance using the application Compliance Column in the Device Details View of the SDK-built application.

The **App Compliance** column identifies whether an SDK-built application is compliant or not with the settings configured in **Groups & Settings > All Settings > Apps > Settings and Policies > SDK App Compliance**.

For information about the SDK App Compliance settings, see SDK App Compliance for the Default SDK Profile.

Procedure

1 Select the desired organization group in the Workspace ONE UEM console.

2 Navigate to **Devices > List View** and select the device that has the SDK-built application installed.

   This action displays the Device Details View for the device.

3 Select the **Apps** tab.

4 View details about the status in the **App Compliance** column by hovering over the icon next to the status.

View Device Events for SDK App Compliance in Device Details

Find device events for **SDK App Compliance** from the Device Details View.

You can also find device events for SDK App Compliance from the Events page. For information, see View Device Events for SDK App Compliance in Events.

Procedure

1 Select the appropriate organization group in the Workspace ONE UEM console.

2 Navigate to **Devices > List View** and select the device that has the SDK-built application installed.

   This action displays the Device Details View for the device.

3 Select **More > Troubleshooting** to display an event log.

   You can filter the event log by **Event Group Type > Device Events** and **Module > Apps**.

View Device Events for SDK App Compliance in Events

Find device events for **SDK App Compliance** from the Events page.

You can also find device events for SDK App Compliance from the Device Details view. For information, see View Device Events for SDK App Compliance in Device Details.

Procedure

1 Select the appropriate organization group in the Workspace ONE UEM console.

2 Navigate to **Monitor > Reports and Analytics > Events > Device Events**.

3 Use the **Apps** module to find the events.

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

Configure Privacy Settings for Data Collection

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

Procedure

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.

Name	Key	Value	Description
Company Privacy Policy URL	`"PrivacyPolicyLink"`	`"https://www.company.com/privacypolicy"`	The value for this key is the company's specific privacy policy URL. Navigate users to a specific privacy disclosure site from the productivity application. Users can review the policy so that they know the company's stance on privacy.
VMware Feature Usage Analytics	`"PolicyAllowFeatureAnalytics"`	■ `0` - Disabled 　■ 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 　■ 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.	This key controls the display of the Data Sharing page within the productivity application. Users can opt in or out of sharing their feature usage analytics. Feature usage analytics collection helps VMware to improve existing products and to develop new ones.
Diagnostics Data Through VMware Workspace ONE Intelligence and Apteligent by VMware	`"PolicyAllowCrashReporting"` For this key to work, you must use Apteligent by VMware or VMware Workspace ONE Intelligence.	■ `false` - Disabled 　■ Prevents the reporting of diagnostic data for productivity applications as reported by Apteligent 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 Apteligent or Workspace ONE Intelligence. ■ `true` - Enabled 　■ Sends diagnostic data for productivity applications as reported by Apteligent and Workspace ONE Intelligence. 　■ When set to `true`, your system receives diagnostic data for productivity applications from	This key controls reporting diagnostic data from Apteligent and Workspace ONE Intelligence. Apteligent and Workspace ONE Intelligence are tools that help analyze, troubleshoot, and maintain applications and enterprise mobility management deployments.

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

```
{
    "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 Apteligent by VMware and VMware Workspace ONE Intelligence.

4 Save your settings.