Application Management for iOS

VMware Workspace ONE UEM 1909

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Application Management for iOS

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Use Workspace ONE UEM powered by AirWatch to push industry templates, purchased, purchased VPP, internal, public and internal applications, web apps and SaaS applications to iOS devices.

This chapter includes the following topics:

Application Types and Suported OS Versions for iOS

Workspace ONE UEMclassifies applications as native (internal, public, purchased), SaaS, and Web. You upload applications depending on the type. Workspace ONE UEM supports the following OS Versions for Android applications based on the application type.

Table 1-1. Application Types and Supported OS Versions

Application Type	Supported Platforms
Industry Templates Any Supported App Type	Apple iOS v7.0+ with limitations for compliance policies
Internal	■ Apple iOS v7.0+ **Note** Ensure that the auxiliary files packaged with Apple iOS or macOS applications do not have spaces in the names. Spaces can cause issues when you load the application to the console.
Public (Free and Paid)	■ Apple iOS v7.0+
Purchased – Custom B2B	Apple iOS v7.0+
Purchased – VPP	■ Apple iOS v7.0+
Web Links	■ Apple iOS v7.0+
SaaS	■ Apple iOS v7.0+

Provisioning Profiles for Internal iOS applicaton

When you upload an internal application to the Workspace ONE UEM console, upload the provisioning profile that you generated for that particular application, too. For an internal Apple iOS application to work, every device that runs the application must also have the provisioning profile installed on it.

The provisioning profile authorizes developers and devices to create and run applications built for Apple iOS devices.

For internal applications, use files from the Apple iOS Developer **Enterprise** Program and not the Apple iOS Developer Program.

These programs are different. When you get a mobile provisioning profile for your internal applications, verify that it is for enterprise (internal) distribution.

- **Apple iOS Developer Enterprise Program** – This program facilitates the development of applications for internal use. Use profiles from this program to distribute internal applications in Workspace ONE UEM.
- **Apple iOS Developer Program** – This program facilitates the development of applications for the app store.

iOS Provisioning Profile Management and Updates

Apple generates development certificates that expire within three years. However, the provisioning profiles for the applications made with the development certificates still expire in one year. This model can create issues in Workspace ONE UEM.

Issues exist for developers and device users.

- Developers who build and deploy multiple versions of an application need a way to remove expired provisioning profiles that are associated with active applications.
- Device users receive warnings concerning the status of an application 30 days before a provisioning profile expires.

However, if you can manage renewals, you can mitigate these issues. You can use the expiration dates Workspace ONE UEM displays to mitigate issues.

- Workspace ONE UEM displays expiration notices in the console 60 days before the expiration date.
- You can update provisioning profiles and apply them to all associated applications managed in Workspace ONE UEM.
- If the provisioning profiles are not associated to other applications, you can remove them or replace older ones.

Renew Apple iOS Provisioning Profiles

Renew your Apple iOS provisioning profiles without requiring end users to reinstall the application. You can also renew the file for all applications associated with it. The Workspace ONE UEM console notifies you 60 days before the profile expires.

Access expiration links for Apple iOS provisioning profiles from within the applicable organization group (OG). The Workspace ONE UEM console does not allow access unless you are in the correct OG.

When an Apple iOS provisioning profile expires, device users cannot access the associated application, and new device users cannot install the application.

Procedure

1. Navigate to **Apps & Books > Applications > Native > Internal**.
2. Select the expiration link (**Expires in XX days**) in the **Renewal Date** column for the application for which you want to update the provisioning profile.
3. Use the **Renew** option on the **Files** tab to upload the replacement file.
4. Select the **Update Provisioning Profile For All Applications** setting to apply the renewed file to all associated applications.

   Workspace ONE UEM displays this option only if multiple applications share the provisioning profile.

   Workspace ONE UEM lists the applications that share this provisioning profile for you on the **Files** menu tab. Workspace ONE UEM silently pushes the updated provisioning profile to all devices that have the application installed.

Configure Public Applications for iOS

In some scenarios, it is not feasible to use Apple's VPP. In such a case, you can upload paid public applications for iOS devices using the same process as other apps. Also for the iOS devices you can configure extra restrictions on App Store functionality, including the App Store icon and installation of public apps.

Paid Public iOS Applications and Workspace ONE UEM

Workspace ONE UEM allows you to upload paid public iOS applications and distribute them in those scenarios where it is not feasible to use Apple's Volume Purchase Program (VPP). Workspace ONE UEM can distribute several OS versions, but iOS 9+ management does not require users to take extra steps.

It is best to use the Apple VPP, if possible. The VPP can manage bulk public paid applications efficiently and offers several management options.

Compare Paid Public App Procedures

When you compare the steps necessary to push paid public iOS applications to devices, iOS has simplified the process. It allows Workspace ONE UEM to take management of an application previously installed on a device, and end users do not have to delete applications.

Note Workspace ONE UEM cannot assume management of user-installed applications on iOS 8 and below.

Add Any Supported iOS Version as Paid Public App	Add iOS 9+ Version as Paid Public App
Enable the paid public iOS applications process in the Workspace ONE UEM console.	Enable the paid public iOS applications process in the Workspace ONE UEM console.
Add the public application to the Workspace ONE UEM console. Add any other management parameters like SDK features and enabling per-app VPN.	Add the public application to the Workspace ONE UEM console and enable **Make App MDM Managed if User Installed** on the **Deployment** tab. Add any other management parameters like SDK features and enabling per-app VPN.
(User) Purchase the application.	(User) Purchase the application. Apple installs the application automatically to the device after purchase.
(User) Delete the application installed by Apple.	Not applicable
(User) Open the AirWatch Catalog and initiate the installation from Workspace ONE UEM to receive the managed version of the application.	(User) Open the AirWatch Catalog and initiate the installation from Workspace ONE UEM to receive the managed version of the application.

Organization Groups, Paid Public Applications

Keep your VPP deployment and your paid public iOS applications in separate organization groups. Enable the paid public status option in an organization group where applicable devices are enrolled.

Use the VPP When It Is Available

Do not deploy the same paid public iOS applications in an organization group that has VPP configured and that contains a service token (sToken). If you have the VPP configured in the organization group, use licenses from the sToken, which offers greater management and control of the application.

Enable Paid Public Applications Near or Where Devices Are Enrolled

Devices receive application assignments from the closest organization group to them. Be aware of the organization group hierarchy and where you enable paid public iOS applications. If you assign the application in an organization group that has no effect on the device, installations can fail or the application can install on the wrong device.

Table 1-2. Example of Paid Public Application Assignment Depending on Organization Group

Organization Group	Paid Public Status	Device Enrolled	Result
Parent	Enabled	No	The device does **not** receive the managed paid public application and the system redirects the device to the store to install the application.
Child	Disabled	Yes	

Enable Paid Public iOS Apps to the Console

Enable the deployment of paid public iOS applications in the Workspace ONE UEM console.

Procedure

1 Navigate to **Groups & Settings > All Settings > Apps > Workspace ONE > Paid Public Applications**.

2 Select **Enabled**, and then save the settings.

Deploy Paid Public App

Upload the paid public iOS application from the app store to the Workspace ONE UEM console to make it available in a catalog.

Prerequisites

Enable paid public applications in the Workspace ONE UEM console. See Enable Paid Public iOS Apps to the Console.

Procedure

1 Navigate to **Apps & Books > Applications > Native > Public**, and select **Add Application**.

2 Select **Managed By** to view the organization group from which the application uploads.

3 Select the **Platform**.

4 Enter a keyword in the **Name** text box to find the application in the app store.

5 Select **Next** and use **Select** to pick the application from the app store result page.

6 Configure options on the **Details** tab. Entering data on this tab is optional, but you can record data like the store URL for the application, supported models, and associated categories.

7 Assign a **Required Terms of Use** for the application on the **Terms of Use** tab. This is optional.

8 Select **Save & Assign** to make the application available to end users.

9 Configure flexible deployment rules for the assignment of the applications.

   Only the on-demand push mode is available. It enables the user to initiate installation so that the system does not use excessive bandwidth by automatically installing applications. It also gives the user time to buy the application and delete the initial version from the device.

Public Application Installation Control on iOS Devices

The restriction **Allow App Store icon on Home screen** allows you to control the installation of free public applications on iOS 9+ devices without having to enable any other restriction in Workspace ONE UEM.

This option is native to the operating system version so it is the best restriction of this type available for iOS 9+ devices that are supervised.

Apple iOS App Store Restriction Descriptions

Control access to the app store to restrict or allow access to the public applications available in the store. Workspace ONE UEM supports native iOS restrictions and an in-house developed restriction that control access to the app store.

Table 1-3. Descriptions of Available App Store Restriction Methods

Restriction	Supported Device Supervision Status	Configuration	Description
Allow App Store icon on Home screen The best option for iOS 9+ devices because it uses the latest technologies and can push applications through several systems.	Supervised	Disable	Restrict the Apple App Store from being installed on the device so the device user cannot install public free applications using the App Store. However, push public free applications using Workspace ONE UEM, iTunes, or Apple Configurator.
		Enable	Allow the Apple App Store on the device and the device user can install any public free applications using the App Store.
Allow installing public apps An option for many iOS versions but does not offer the ability to select the system that restricts the installation of non-enterprise applications.	Supervised Unsupervised	Disable	Restrict the device user from using the Apple App Store.
		Enable	Allow the Apple App Store on the device and the device user can install any public free applications using the App Store.
Restricted Mode for Public iOS Applications Workspace ONE UEM developed ways to allow the installation of enterprise-approved free public applications when this option is enabled. When you configure this option, you do not need to configure and apply a restriction profile with **Allow installing public apps**.	Supervised Unsupervised	Disable	Allow the Apple App Store on the device and the device user can install any public free application using the App Store.
		Enable	Block the device from installing free public applications from the Apple App Store. Push free public applications using Workspace ONE UEM.

Configure the Apple App Store Restriction

Configure the **Allow App Store icon on home screen** restriction to allow device users to acquire public applications from the App Store. This restriction works for iOS 9+ devices.

Procedure

1. Navigate to **Devices > Profiles > List View > Add**.
2. Select **Apple iOS**.
3. Configure the **General** settings of the profile.
4. Select **Allow App Store icon on Home screen** located in the **Device Functionality** section of the **Restrictions** payload, to allow the device to install public free applications from the app store.
5. Select **Save & Publish** to push the profile to devices.

Restricted Mode for Free Public iOS Applications Older Than iOS 9

Restriced Mode restricts iOS devices older than iOS 9 from accessing free public applications unless the application is approved and deployed by the organization.

This restriction is the same as the iOS restriction found in **Devices > Profiles**, labeled **Allow installing public apps**. Workspace ONE UEM deploys the Restricted Mode option to devices and it blocks end users from the app store. Workspace ONE UEM can deploy the public applications, which ensure that your organization approves them.

Restricted Mode restricts the device by allowing you to install only the assigned applications approved by the organization. Enabling the setting automatically sends a restricted profile to Apple iOS devices. Restricted Mode does not require an extra restriction with **Allow installing public apps** enabled.

Enable Restricted Mode for Free Public iOS Applications Older Than iOS 9

Control from where end users install public applications by enabling **Restricted Mode for Public iOS Applications**.

Procedure

1. Navigate to **Groups & Settings > All Settings > Apps > Workspace ONE > App Restrictions**.
2. Enable **Restricted Mode for Public iOS Applications**.