



EMS MOBILE APP Configuration Guide

V44.1

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CHAPTER 1: Introduction to the EMS Mobile App Configuration Guide

EMS Mobile App, available on iOS and Android smartphones, is designed primarily for everyday users "on the go." It allows users to make simple reservations in unmanaged spaces (i.e., spaces without services and approvals), such as workspaces and open conference rooms.

EMS Mobile App enables easy booking and scheduling on-the-go for mobile devices by enabling you to manage space on mobile devices, such as tablets and smartphones. Simple touchscreen gestures on mobile devices allow you to scan QR codes for rooms and to cancel, end, or check in to meetings.

SYSTEM REQUIREMENTS FOR EMS MOBILE APP

The EMS Mobile App—which includes the EMS Platform Services—has specific requirements on top of the general EMS server and database requirements.



Note: You must upgrade to EMS V44.1 (released June 30, 2016) to have the EMS Mobile App. It is not available for earlier versions of EMS.

Supported Platforms

Android 4.4, 5.0, 6.0

iOS 9.x, 10.x, 11.x

Prerequisites

To host and install EMS Mobile App, you will need the following:

» EMS database server, web server and Platform Services (see <u>Requirements</u>)

Mobile phone(s)



EMS MOBILE OR EMS MOBILE WEB APP: WHAT'S THE DIFFERENCE?

Although their names are similar and they share the same databases, these products have very different applications.

EMS MOBILE APP = EMS APPLICATION FOR MOBILE DEVICES

This is a separate software application EMS produces specifically to run on mobile devices such as smartphones.

FEATURES OF EMS MOBILE APP THAT ARE NOT IN EMS WEB APP

- " Ultra-compact display designed for smartphones
- "Two factor authentication method
- » QR Code functionality

EMS MOBILE APP = EMS WEB APP ON A MOBILE BROWSER

This is the EMS Web App as it displays when running on a web browser on a mobile device, such as a tablet.



FEATURES OF EMS WEB APP THAT ARE NOT IN EMS MOBILE APP

- » Browse Events
- » Browse People
- Act As (delegation feature)
- » Edit Account Details
- » Edit Delegates
- Edit Everyday User Process templates

HOW DO I INSTALL IT?

If your organization has EMS Web Users licensing, no additional license for EMS Mobile App is required. Your administrator will need to:

- 1. Download the installation files from the EMS Customer Portal.
- 2. Install EMS Platform Services and connect to your organization's web server.
- 3. Set up user authentication.
- 4. Once these components are in place, users at your organization can add EMS Mobile App to their mobile devices (as a private or public deployment) and enter your server URL and (optional) credentials to authenticate.



HOW DO I USE IT?

Once you've logged in, you can follow the tips below to interact with your calendar and see your events. Your calendar shows only current and upcoming events.





CHAPTER 2: Add Mobile Users

EMS Mobile App users are added as "Everyday Users" in EMS Desktop Client. Follow the steps below to create this type of user.



TIP: You configure EMS Desktop Client user accounts in a different area (under the **SYSTEM ADMINISTRATION** > **SECURITY** menu). For instructions, see <u>Configure EMS Desktop Client Users</u>.

Additionally, if your organization uses EMS Human Resources Toolkit to manage Everyday User accounts, see <u>EMS Human Resources Toolkit</u>.



Lastly, a set of Account Management parameters control account management behavior. To view these parameters, see <u>EMS Web App</u> <u>Parameters</u>.

Concept: EMS classifies users into two categories–Guests or Visitors and Everyday Users. Click for more...

"Guests" or "Visitors" (unauthenticated or anonymous users) can browse events, see details about your organization's space, and/or submit requests.

These users can register themselves through EMS Web App and create a user account. To enable this, you need to set certain account management parameters (see <u>EMS Web App System Parameters</u>) and select the Credit\Edit an Account role for the unauthenticated user (see the Roles tab definition in <u>Configuring a Security Template</u>).

"Guests" or "Visitors" (authenticated users) may also submit and manage reservations if you enable them.

You can configure these users through the EMS Desktop Client or the optional Integrated Authentication module.



See Also: <u>Configuring Additional Information for a Group</u> and <u>Configuring</u> <u>Contacts</u>. Before you configure a user, check that the user has not already been created.

Everyday User process templates control access and behavior in EMS Software's Everyday User Applications. If you are upgrading from an older release of EMS, you may recognize Everyday Users as "Web Users" and "Everyday User Process Templates" as "Web Process Templates."

 On the EMS Desktop Client menu bar, click Configuration > Everyday User Applications > Everyday Users. The Everyday Users window opens. The number of configured users for EMS Web App shows in the upper left corner. The number of users for which your organization is licensed shows in the top center.





User In Use: 22 Employee Type: (all) City: Search By: User Name Process Template: Status: (all) Find: Display Everyday Users (0) Employee City Email Address Status				Every	day Users			
Employee Type: [all) V City:	Users In Use: 22		User Lice	nse Limit: 9	9999999			
Search By: User Name Process Template: (all) Find: Display Everyday Users (0) Employee City Email Address Status Security Template	Employee Type:	(all) 🗸	City:					
Status: (all) Find: Display Everyday Users (0) Employee City Email Address Status Security Template	Search By:	User Name 🗸	Process 1	Femplate:	(all)		¥	
Everyday Users (0) A Employee City Email Address Status Security Template	Status:	(all) 🗸	Find:					Display
	Everyday Users (0) 🔺	Employee	City	Email Add	lress	Status	Security T	emplate
5								
5								
5								
5								
	<							

2. Check that the user you wish to configure does not already exist. Enter the user name or email address in the **Find** field.

TIP: This search string is not case-sensitive, but your entries must be in the correct order. For example, if searching by Email Address, a search



string of bob returns bobworth@emssoftware.com but not dbobbett@emssoftware.com.

You can narrow your search results by:



Then **Click Display**. Search results show in the lower pane of the window. If your user does not already exist in EMS, proceed to the next step.

NOTE: If the EMS system parameter USERS LINKED TO GROUPS VIA EXTERNAL REFERENCE is set to YES, then you will also see a Group column and a City column.



3. Create a new user. Click the **New** button. A dialog box opens.

NOTE: If the user has confirmed membership (by responding to an email containing an activation link), the VALIDATED checkbox highlighted below will be selected. If the user had to answer questions when requesting an account, you can view the user's responses on the USER DEFINED FIELDS tab.



8	Everyday User 🛛 🗖 🗙
Everyday User Process	Templates Employees Delegates User Defined Fields Audit
Name:	
Password:	
Email Address:	
Phone 1 / Phone 2:	
Notes:	
External References	
Network ID:	
Email Ont Out	
Status:	Active V
Security Template:	Web Admin
Time Zone:	✓
Validated:	
	Spelling OK Cancel

TIP: When you configure a user, you can also specify one or more delegates for the user. A delegate is a user who can create and view reservations on behalf of another user.



4. Enter information for the new user. User name and email address are required; password is only required if not using the optional Integrated Authentication module. All other information is optional and can be added later as needed.

FIELD	DESCRIPTION
Name	The name of the user. (Maximum of 30 characters, including spaces).
Password	The password that the user must enter to log in to EMS Web App. If using the optional Integrated Authentication module, Password can be left blank since the network password is used instead.
Email Address	Enter the full email address for the user as the user must enter this address to log in to EMS Web App.
Phone 1 /Phone 2	Optional fields.
Notes	Optional field. Read-only.



FIELD	DESCRIPTION
External Refer- ence	Optional field. Links the user to an outside program such as EMS Human Resources Toolkit if needed.
Network ID	The user's network ID.
Email Opt Out	Optional field. Select this option if you do not want the user to receive automatic emails (such as reservation summary emails) from EMS Web App. The user can still receive manually sent emails.
Status	 Required field. Select the status for the user: Active-The user can log in to EMS Web App, EMS Mobile App, and EMS for Outlook. Pending-The user cannot log in to EMS Web App, EMS Mobile App, and EMS for Outlook and is informed that he/she must check back at a later time. Inactive-The user cannot log in to EMS Web App, EMS Mobile App, and EMS for Outlook and is instructed to con- tact the EMS administrator.



FIELD	DESCRIPTION
Security Tem- plate	Required field. This determines the user's access to the system (i.e., the menu items the user can see and the event information that the user can view).
Time Zone	Optional field. The time zone in which the user is located. Beginning in version 44.1, it is strongly recommended that users are assigned to a time zone for an optimal experience on all Everyday User Applications.
Validated	When checked, users who created their own accounts have confirmed membership (by responding to a email containing an activation link). When unchecked, the user will not be able to use EMS Web App.

- 5. Assign process templates to the new user. Open the Process Templates tab. The process templates you assign here will appear as menu items to the user in EMS Web App, EMS Mobile App, and EMS for Outlook.
- 6. Specify Groups on whose behalf the user can create and manage reservations. Open the Groups tab. To filter the list of active groups displayed, use the Find and Type fields and then click Display. Select one or more Groups (use



CTRL-click for multiple groups), and then click **Move** (>) to move the selected groups to the **Selected** list.

7. Specify Delegates the user can impersonate. Open the Delegates tab; to see all available users, click Display. To narrow the search results, use the Search by dropdown list to search by User Name or Email Address. Select one or more delegates (using CTRL-click for multiple delegates), and then click Move (>) to move the selected users to the Selected list.

TIP: Click **SPELLING** to spell-check any information that you manually entered for the user.

8. Click **OK**. The dialog box closes and returns you to the users window with the newly configured user automatically selected.



CHAPTER 3: Deploy EMS Mobile App

There are two ways to deploy the EMS Mobile App App for your users:

- 1. The standard public app store offered by Apple and Google. See <u>Public Deploy</u>-<u>ment: Public App Store</u>.
- A private enterprise app store. (This approach can also be integrated with your company's Mobile Device Management system.) See <u>Private Deployment: Private</u> <u>App Store</u>.

WARNING: It is important to understand the compatibility between the EMS Mobile App and EMS Platform Services. The EMS Mobile App needs to be on the same version or higher as EMS Platform Services. For example, the EMS Mobile App Update 20 version will be compatible with EMS Platform Services Update 19 or older. However, compatibility issues will exist if you try to install EMS Platform Services Update 20 with an older version of the EMS Mobile App (Update 19 or older).



PUBLIC DEPLOYMENT: PUBLIC APP STORE

To deploy via the public app store, direct your users to go to the <u>Google</u> <u>Play</u> and <u>Apple</u> app stores on their mobile devices. They will be able to download the app by clicking on the link. However, they will have to manually input the EMS Mobile API URL. They will receive a prompt to do so the first time they open the EMS Mobile App.

If users need to change the API URL at a later date, they can:



1. Open the app, and then click About in the lower right corner.

Qa	🕅 🧠 📶 100% 🗎 2:27 PM
	ems
Sign In	
Username	
Password	
Domain	
	SIGN IN

About 🖹

CREATE ACCOUNT



2. Click to change the API URL.

Change API URL	
	>





3. Enter the API URL you provide and connect.



While this approach may be easier for your IT staff, it has definite costs:

- " Users will have to input the EMS Mobile App API URL on their own.
- EMS will frequently deploy mobile app updates to the app store. Most users will have this app set to automatically update, and will therefore receive updates even if you have not yet upgraded your EMS Mobile API.



- While we aim to make the Mobile API backwards- and forwards- compatible within major updates, we may not do so all the time.
- Deploying via the public app store therefore requires you to make major updates to the EMS Mobile API as soon as they are available.

PRIVATE DEPLOYMENT: PRIVATE APP STORE

To deploy via a private enterprise app store, first download the unsigned apk/ipa files from your EMS software portal. You then have to resign the app and deploy it via your MDM system. <u>This site</u> offers some guidance on how to sign an unsigned ipa file (i.e. for iOS), while <u>this site</u> does the same for Android apk files. Deploying via a private app store allows you to <u>control which version</u> <u>of the Mobile App</u> your users have.

As an example, here are the key steps to resign and deploy the unsigned EMS Mobile App ipa file (following instructions provided <u>here</u>):

- 1. Download unsigned builds: .ipa and .apk files
 - Optional: <u>Customizing Your Mobile App Configuration Using config.json</u> (<u>Private Deployment Only</u>), change logo



2. Configuring and Re-Signing the EMS Mobile App (Private Deployment Only)

Change the EMS Mobile App Logo (Private Deployment Only) (if using

MDM)



CHAPTER 4: Change EMS Mobile App Logo (Private Deployment Only)

For customers re-signing the application, we provide unsigned builds.

- 1. Store your unsigned EMS Mobile App in a new or empty directory.
- Change the extension of the app to .zip. (e.g., IPhone.App-44.1.xxx-unsigned.ipa > IPhone.App-44.1.xxx-unsigned.zip.)
- 3. Un-compress/expand the new zip file.
- 4. To set a custom logo, replace the following logo files:

IOS

- 1. Rezip all of the extracted files from earlier.
- 2. Give the new zip file an ipa extension.
- 3. Using a Mac computer, install fastlane.
 - » sudo gem install fastlane
- 4. Do the rest of this on the Mac.
- 5. Login to https://developer.apple.com and switch to team "Your Team Name."
- 6. Download your teams Distribution provisioning profile.



- 7. Double click it to install it. This file should exist on your system:
 - ~/Library/MobileDevice/Provisioning Profiles/<a guid for your provisioning profile>.mobileprovision
- 8. Get your team's existing .p12 file with the cert and private key combined, and then import that into Keychain (by double-clicking it) and then entering the password.
 - When the cert is installed successfully you should see iPhone Distribution:
 <Your Team Name> in your Keychain, with a private key.
- 9. Assuming you have:
 - fastlane installed on your Mac
 - the cert & private key installed in Keychain
 - * the provisioning profile mentioned above in: ~/Library....mobileprovision
- 10. Resign your target ipa with this command:

```
fastlane run resign \
```

ipa:path/to/your/file.ipa \

signing_identity:"iPhone Distribution: <Your Team Name>"\

provisioning_profile:\$HOME/Library/MobileDevice/Provisioning Profiles/<your profile GUID>.mobileprovision \



display_name:EMS-Resigned

11. If you want a bash script that will do this, you can copy this into a file (e.g., resign_ enterprise.sh):

#!/bin/bash

IPA=relative/path/to/file.ipa

IDENTITY="iPhone Distribution: <Your Team Name>"

PROFILE=\$HOME/Library/MobileDevice/Provisioning Profiles/<your profile GUID>.mobileprovision

DISPLAY_NAME=EMS-Resigned

fastlane run resign ipa:"\$IPA" signing_identity:"\$IDENTITY" provisioning_ profile:"\$PROFILE" display_name:\$DISPLAY_NAME

ANDROID

- 1. Rezip all the extracted files from earlier.
 - Note that assets, res, and AndroidManifest.xml are top-level files in an .apk, so be careful to zip the right things up.



This CLI command will zip all the files in the current directory into a new zip file in the parent directory:

zip -qr ../ems-custom-44.1.xxx.zip ./*

- 2. Give the new zip file an apk extension (e.g., myapp.zip -> myapp.apk).
- 3. Sign the new apk file.

This is the script we use to sign our app, adjust for your needs:

#!/bin/bash

APK_TO_SIGN=\$1

APK_OUTPUT=\$2

EMS_APK_KEYSTORE_PATH=path/to/your/app.keystore

jarsigner -verbose \

-sigalg \$EMS_APK_SIG_ALG \
-digestalg \$EMS_APK_DIGEST_ALG \
-storepass \$EMS_APK_KEYSTORE_PASS \



-keystore \$EMS_APK_KEYSTORE_PATH \ \$APK_TO_SIGN \$EMS_APK_ALIAS_NAME

zipalign 4 \$APK_TO_SIGN \$APK_OUTPUT

Note: We recommend that you use an image with a 3:1 aspect ratio in order to ensure that the image will be be properly rendered by the application.



CHAPTER 5: Configure and Re-Sign the EMS Mobile App (Private Deployment Only)

This topic provides information on the following:

- Use Unsigned Builds
- Set Custom Configuration
 - » <u>IOS</u>
 - » Android
- Re-Sign and Repackage for iOS
 - » <u>1. Install Fastlane</u>
 - » <u>2. Install Certificate and Provisioning Profile</u>
 - » <u>3. Re-Sign</u>
- Re-Sign and Repackage for Android

USE UNSIGNED BUILDS

For customers re-signing the application, we provide unsigned builds.



- 1. Store your unsigned EMS Mobile App in a new or empty directory.
- Change the extension of the app to .zip. (e.g., IPhone.App-44.1.xxx-unsigned.ipa > IPhone.App-44.1.xxx-unsigned.zip.)
- 3. Un-compress/expand the new zip file.

SET CUSTOM CONFIGURATION

- 1. Refer to <u>Customize Your Mobile App Configuration Using config.json (Private</u> <u>Deployment Only)</u> for details on building a configuration file for EMS Mobile.
- 2. Replace the config.json file with your custom configuration (located as follows):

IOS

» config.json (top-level file)

ANDROID

» assets/config.json

RE-SIGN AND REPACKAGE FOR IOS

Follow the steps below to re-sign and repackage for iOS.



1. INSTALL FASTLANE

Using sudo gem, install fastlane on an administrative Apple computer.

2. INSTALL CERTIFICATE AND PROVISIONING PROFILE

If your Apple computer is already configured with these items, these steps may not be necessary.

PROVISIONING PROFILE

- 1. Login to https://developer.apple.com
- 2. Download your Distribution provisioning profile
- 3. Double click it to install it. This file should exist on your system:
 - * ~/Library/MobileDevice/Provisioning Profiles/<profile-guid>.mobileprovision

CERTIFICATE

See Apple's <u>documentation</u> for installing and managing certificates and signing identities. When the certificate is installed successfully, you should see iPhone Distribution: Your Company, Inc in your Keychain, with a private key.

3. RE-SIGN

Assuming you have:


- » Fastlane installed on your Apple computer
- » the cert and private key installed in Keychain
- the provisioning profile mentioned above in ~/Library/.../<profile-guid>.-

...then you should be ready to re-sign the application. Before you proceed,

change the following in the command below:

- » Replace path/to/your/file.ipa with the real path to the ipa file
- Replace iPhone Distribution: Your Company, Inc with the appropriate signing identity on your machine
- Replace <profile-guid> with the actual GUID or name of the provisioning profile you intend to use
- Replace EMS-Resigned with the display name you wish to use, or remove the parameter if you do not wish to rename the application

NOTE: Running these commands will **OVERWRITE** the ipa file you designate. Make a copy first if necessary.

fastlane run resign \

ipa:path/to/your/file.ipa \

signing_identity:"iPhone Distribution: Your Company, Inc" \

provisioning_profile:\$HOME/Library/MobileDevice/Provisioning



Profiles/<profile-guid>.mobileprovision \ display_name:EMS-Resigned

(All on one line for copy/paste:)

fastlane run resign ipa:path/to/your/file.ipa signing_identity:"iPhone Distribution: Your Company, Inc" provisioning_profile:\$HOME/Library/MobileDevice/Provisioning Profiles/<profileguid>.mobileprovision display_name:EMS-Resigned

If you want a bash script that will do this, you can copy this into a file (e.g., resign_enterprise.sh):

#!/bin/bash

IPA=relative/path/to/file.ipa IDENTITY="iPhone Distribution: Your Company, Inc" PROFILE=\$HOME/Library/MobileDevice/Provisioning\ Profiles/<profile-guid>.mobileprovision DISPLAY_NAME=EMS-Resigned

fastlane run resign ipa:"\$IPA" signing_identity:"\$IDENTITY"



provisioning_profile:"\$PROFILE" display_name:\$DISPLAY_NAME

RE-SIGN AND REPACKAGE FOR ANDROID

- » Re-zip all the extracted files from earlier
 - Note that assets, res, and AndroidManifest.xml are top-level files in an .apk, so be careful to zip the right files
 - This CLI command will zip all the files in the current directory into a new zip file in the parent directory:
 - » zip -qr ../ems-custom-44.1.xxx.zip ./*
- » Give the new zip file an .apk extension
 - e.g., myapp.zip -> myapp.apk
- » Sign the new .apk file, for example:

#!/bin/bash

APK_TO_SIGN=\$1 APK_OUTPUT=\$2 EMS_APK_KEYSTORE_PATH=path/to/your/app.keystore

jarsigner -verbose \ -sigalg \$EMS_APK_SIG_ALG \



-digestalg \$EMS_APK_DIGEST_ALG \
-storepass \$EMS_APK_KEYSTORE_PASS \
-keystore \$EMS_APK_KEYSTORE_PATH \
\$APK_TO_SIGN \$EMS_APK_ALIAS_NAME

zipalign 4 \$APK_TO_SIGN \$APK_OUTPUT



CHAPTER 6: Customize Your Mobile App Configuration Using config.json (Private Deployment Only)

EMS Mobile App ships with a config.json file that you can use to customize EMS Mobile App before re-signing and distributing in your app store or similar as follows:

- Set the API URL so users do not have to type it in on their own.
- » Configure Authentication.

FIND THE CONFIG.JSON FILE

After unzipping the respective app files, the paths to the file for each OS are:

IOS

» config.json (top-level file)



ANDROID

» assets/config.json

The file looks like the example below (subject to change, per development):

```
{
    "api_doc": [
        "Configure the API here"
],
    "api": {
        "url_doc": [
        "The API EMS Mobile App should connect to"
     ],
     "url": ""
    }
}
```

SET THE API URL

- 1. Open the config.json file in a text editor.
- 2. In the API section, find the URL property.



3. Set the URL property to your desired value (e.g., https://yourcompany.com/emsplatform-api).

CONFIGURE AUTHENTICATION

EMS Mobile App does not ship with an authentication configuration section by default, but you can add it as follows.

NOTE: If you are adding authentication configuration, IT IS ALSO NECESSARY TO <u>SET THE API URL</u>.

Below is an example (the ..._doc entries are omitted for brevity):

```
{
```

```
"api": {
```

"url": "https://yourcompany.com/ems-platform-api"

},

```
"authentication": {
```

```
"activities": "openId",
```

"openID": {

"discoveryURL": "https://yourcompany.com/openid",

```
"authorizationURL": "",
```

```
"tokenURL": "",
```



}

```
"clientID": "abcdefxabQijQcJstY4nImWYL5y12345",
    "redirectURL": "emssoftware://oauth-callback/x"
}
```

SUPPORTED AUTHENTICATION CONFIGURATIONS

OPEN ID

```
"authentication": {
    "activities": "openId",
    "openID": {
        "discoveryURL": "https://yourcompany.com/openid",
        "authorizationURL": "",
        "tokenURL": "",
        "clientID": "abcdefxabQijQcJstY4nImWYL5y12345",
        "redirectURL": "emssoftware://oauth-callback/x"
    }
```

```
}
```





- » Set the activities to openId
- Add an openID section next to activities

PROPERTIES FOR THE OPENID SECTION

» discoveryURL

- if your IdP provides it, this is the URL for EMS Mobile App to automatically configure its Open ID settings
- ^w if you provide this, leave authorizationURL and tokenURL empty

authorizationURL

^{>>} this is the endpoint to send the initial Open ID authorization request

» tokenURL

» this is the endpoint to request an Open ID access token

» clientID

* the client ID for the EMS Mobile App as configurd in the IdP

redirectURL

- Ieave this set to emssoftware://oauth-callback/x for EMS Mobile App
- ^{>>} this is the URL the IdP will redirect to during the Open ID authentication flow



SAML

```
"authentication": {
    "activities": "saml",
    "saml": {
        "url": "https://yourcompany.com/ems-platform...ntication/saml`
    }
}
```

- » Set the activities to saml
- Add a saml section next to activities

PROPERTIES FOR THE SAML SECTION

- » URL
 - » this property is optional
 - » you can manually specifiy the initial request URL for SAML authentication
 - * this URL will be opened in a webview in EMS Mobile App
 - if you do not specify this property, EMS Mobile App will assume the default SAML endpoint for the REST API
 - This is one reason you must specify the URL in the api section for custom authentication configuration (e.g., if you set the custom API URL to https://ems.example.com/api, then EMS Mobile App will



use https://ems.example.com/api/api/v1/a...ntication/saml as its initial SAML url)

EXAMPLES

CUSTOM URL ONLY

{

"api": {

"url": "https://yourcompany.com/ems-platform-api"

}



OPEN ID WITH DISCOVERY URL

```
{
```

```
"api": {
```

```
"url": "https://yourcompany.com/ems-platform-api"
```

```
},
```

```
"authentication": {
```

```
"activities": "openId",
```

```
"openID": {
```

```
"discoveryURL": "https://yourcompany.com/openid/discovery",
```

```
"authorizationURL": "",
```

```
"tokenURL": "",
```

```
"clientID": "abcdefxabQijQcJstY4nImWYL5y12345",
```

```
"redirectURL": "emssoftware://oauth-callback/x"
```



}

}



OPEN ID WITHOUT DISCOVERY URL

```
{
```

```
"api": {
```

"url": "https://yourcompany.com/ems-platform-api"

```
},
```

```
"authentication": {
```

```
"activities": "openId",
```

```
"openID": {
```

```
"discoveryURL": "",
```

```
"authorizationURL": "https://yourcompany.com/openid/authorize",
```

```
"tokenURL": "https://yourcompany.com/openid/token",
```

```
"clientID": "abcdefxabQijQcJstY4nImWYL5y12345",
```

```
"redirectURL": "emssoftware://oauth-callback/x"
```



}

}



SAML WITH DEFAULT API SAML ENDPOINT

```
{
   "api": {
    "url": "https://yourcompany.com/ems-platform-api"
   },
   "authentication": {
    "activities": "saml"
   }
}
```

SAML WITH SPECIFIC API SAML ENDPOINT

```
{
```

```
"api": {
```

```
"url": "https://yourcompany.com/ems-platform-api"
```

},

```
"authentication": {
```

```
"activities": "saml",
```

"saml": {

"url": "https://ems.example.com/saml"

```
}
}
}
```



CHANGE LOGGING LOCATION

1. Modify the logFilePath attribute:

"logFilePath": ".\\LogFiles\\api.log"

CHAPTER 7: Assign Templates to EMS Mobile Users

EMS V44.1 allows you to select which process templates (e.g "web process templates") will be enabled on your users' mobile devices. From the Admin page for templates in the EMS Desktop Client, you will see an **Enable for Mobile** checkbox on the first tab of the template dialog box:



Process Template	Booking Rules	Defaults	Rooms	Catego
Description:			Works	pace
Mode:			Self Se	rve
Menu Text:			Works	pace
Available To New	Users:		\checkmark	
Reserve Status:			Confirm	ned
Request Status:			Confirm	ned
Conflict Status:			Conflic	t
Cancel Status:			No Sho	w
Rule Violation State	us:			
Default Setup Type	e:		(none)	
Menu Sequence:			0	
Video Conference:				
— Everyday User A	Application Setting	js ———		
Enable for Web Ap	p:		\checkmark	
Enable for Mobile:			\checkmark	

NOTE: EMS Mobile App is designed to make and edit simple reservations for users "on the go." At this time it cannot handle service requests, video conference bookings or complex workflows. Please consider this when you decide which templates should be enabled for the EMS Mobile App. Additionally, you can only change the name and icon of the EMS Mobile App through private deployment via MDM. Please refer to your MDM guide for



instructions on how to change the name and icon of the EMS Mobile App.



CHAPTER 8: Restrict Users' Mobile App Versions

Starting with the August 2016 release, EMS will ensure that EMS Mobile App is both forwards- and backwards- compatible, so that the mobile app will still function even if users update it on their devices. Alternatively, if you update your API but users do not update their app, functionality remains intact.

You may wish to force users to keep their installations up to date. For example, you may want them to upgrade their EMS Mobile App after you upgrade the API, or you may want to prevent them from updating their EMS Mobile App until you upgrade the API. To enforce these restrictions, follow the steps below.





- 1. Log in to the API admin page (previously configured here).
- 2. Click on Admin tab, and set the minimum and maximum app versions:

Admin		
AUTHENTICATION	APP VERSIONS	
Minimum App Version		
44.1.230		
Maximum App Version		
44.1.999		
Submit		

DETERMINE EMS MOBILE API AND VERSION COMPATIBILITY

Use the matrix below to determine how you want to enforce user updates.



EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
V44.1	44.1.241	44.1.129	44.1.238	44.1.241
V44.1 Update 1	44.1.288	44.1.146	44.1.288	44.1.288
V44.1 Update 2	44.1.319	44.1.158	44.1.288	44.1.319
V44.1 Update 3	44.1.410	44.1.172.0	44.1.288	44.1.410
V44.1 Update 4	44.1.430	44.1.187.0	44.1.288	44.1.430
V44.1	NA	NA	NA	NA



EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
Update 5				
V44.1 Update 6	44.1.477	44.1.208.0	44.1.288	44.1.477
V44.1 Update 7	44.1.487	44.1.249.0	44.1.288	44.1.487

TIP: The Minimum App Version means that users running EMS Mobile App below the minimum will not be able to use EMS. Increasing this value essentially forces users on an older version to upgrade. Maximum App Version prevents users from using EMS Mobile App if they run a version above the max.



CHAPTER 9: Change the Help Link Label and URL

To change the label for the Help link label, locate the <u>Everyday User Applic</u>-<u>ations parameter</u>, Label for the Help Link on the mobile app, and enter a new value.

To change the label for the Help link URL, locate the parameter, **URL for the Help Link on the mobile app**, and enter a new URL.



😹 EM	S Software	V44.1 - qa-db xx	d										
File	Settings	Reservations	Repo	rts Billing	Configurati	on System	n Administ	ration	Windo	w Help			
Book	Calendar	Wizard Group	Reserv	vation Naviga	tor Browser	Everyday L	Ser Reserv	ations	Groups	Polycom Activit	y Booking Cł	heck In	1
				Parameters									
				All Applications	Desktop Clie	nt Everyday	User Applic	ations	Kiosk				
			i i î	Area: (all)		~	Filter:	help					
				Area (2)		Description	1						Edit
				Mobile-Specific	;	Label for the H	Help Link on	the mob	oile app				Print
				Mobile-Specific	;	URL for the H	elp Link on t	the mobi	le app				
				<								>	Close



CHAPTER 10: Configure EMS Mobile QR Codes

In order to associate rooms with QR Codes, System Administrators must run and print a <u>Room Card - QR Code report</u> (under Hoteling) in the EMS Desktop Client. This automatically generates the codes and associates them with the designated rooms.



CHAPTER 11: How Do I Know When To Upgrade the Mobile App and API?

DETERMINE EMS MOBILE API AND MOBILE APP VERSION COMPATIBILITY

Use the matrix below to determine how you want to enforce user updates.

EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
V44.1	44.1.241	44.1.129	44.1.238	44.1.241
V44.1 Update 1	44.1.288	44.1.146	44.1.288	44.1.288
V44.1 Update	44.1.319	44.1.158	44.1.288	44.1.319



EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
2				
V44.1 Update 3	44.1.410	44.1.172.0	44.1.288	44.1.410
V44.1 Update 4	44.1.430	44.1.187.0	44.1.288	44.1.430
V44.1 Update 5	NA	NA	NA	NA
V44.1 Update 6	44.1.477	44.1.208.0	44.1.288	44.1.477
V44.1	44.1.487	44.1.249.0	44.1.288	44.1.487



EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
Update 7				

TIP: The Minimum App Version means that users running EMS Mobile App below the minimum will not be able to use EMS. Increasing this value essentially forces users on an older version to upgrade. Maximum App Version prevents users from using EMS Mobile App if they run a version above the max.



CHAPTER 12: Set EMS Mobile Parameters

Configure your mobile application behavior using the parameters described below.

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
VEMS_	Default	Desktop Client	Create/-	Con-
DefaultCancelReason	Cancel	> System	Manage	trols
	Reason	Administration	Reser-	which
		> Settings >	vations	Cancel
		Parameters >		Reaso-
		Everyday User		n, if any,
		Applications ta-		is
		b		applied
				to book-
				ings
				that are



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
				can-
				celled
				by
				every-
				day
				users.
				The abil-
				ity for a
				user to
				choose
				а
				Cancel
				Reason
				does
				not
				need to
				be
				enabled
				for a





KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
MOBILE_HelpLinkLa- bel	Label for the Help Link on the mobile app	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	
MOBILE_HelpLinkURL	URL for the Help Link on the mobile app	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED	AREA	NOTES
Mobile_Require2FA	Require- s 2- factor authen- tication for all mobile logins	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	Require- s Two- Factor Authenti- cation for mobile authen- tication
Mobile_AuthHead- erVariable	Sets the header variable for the EMS Mobile API's Header Authenti-	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	cation Method			
MOBILE_2faE- mailSubject	The sub- ject for the EMS Mobile two- factor setup email	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	Subject of the email sent to users noti- fying them to go to the EMS W- eb App and scan their 2fa barcode



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
MOBILE_Every- dayAppConfigJson	Authenti- cation con- fig- uration for the EMS Mobile App	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	Stores the con- fig- uration the mobile app will use to authen- ticate against the api
MOBILE_MaxSup- portedAppVersion	Max- imum	Desktop Client > System	Mobile- Specific	Max- imum

WODILE_WaxSup-	IVIdX-	Desktop Chem	MODIIE-	IVIdX-
portedAppVersion	imum	> System	Specific	imum
	EMS	Administration		app ver-
	Mobile	> Settings >		sion
	App ver-	Parameters >		that the
	sion	Everyday User		api will



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	that the API should allow to connect	Applications ta- b		allow to connect
MOBILE_MinSupportedAppVersion	Min- imum EMS Mobile App ver- sion that the API should allow to connect	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	Min- imum app ver- sion that the api will allow to connect
MOBILE_Num-	Inactiv-	Desktop Client	Mobile-	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
berofDays	ity period in minutes before auto logout from mobile app	 > System Administration - Settings - Parameters - Everyday User Applications tab 	Specific	
MOBILE_ QueryStringKey	Key used to sign mobile query strings in links to vir-	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	Key used to encrypt the query strings when email-


KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	tual			ing users links to the EMS W- eb App
MOBILE_Ses- sionTokenSigningKey	Key use to for signing EMS Mobile session tokens	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	Key used to sign the tokens authen- ticated users receive once they cre- ate a valid





KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
				session
VEMS_User_ RequirePhone	Require Phone during account creation	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Account Man- agement	
VEMS_User_Secur- ityStatus	Default Account Status for Newly- Created User	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications	Account Man- agement	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		tab		
VEMS_ResBook_ ShowWhatInBar	Event Inform- ation to Display in Book- ing on Sched- ule View	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Sched- ule View	
VEMS_Reser- vationBook_StartTime	Start Time on Sched- ule View	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User	Sched- ule View	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		Applications ta- b		
VEMS_Browse_ DropEventsInPast	Drop Events from Daily View After They Occur	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Browse Events	
VEMS_EmailAccount	Account to Use for Sending Email	Desktop Client > Sys- tem Admin- istration > Settings > Parameters >	Email - Settings	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		Everyday User Applications ta- b		
VEMS_EmailAc- countPassword	Pass- word of Email Account	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Email - Settings	
VEMS_EmailSender	Name of Email Sender	Desktop Client > Sys- tem Admin- istration > Settings >	Email	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		Parameters > Everyday User Applications ta- b		
VEMS_EmailSender- Address	Email Address of Sender	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Email	
VEMS_EmailServer	Name or IP Address of	Desktop Client > Sys- tem Admin- istration >	Email - Settings	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	SMTP Server	Settings > Parameters > Everyday User Applications ta- b		
Vems_Reservations_ AutoEmailFormat	Format for Reques- t Sum- mary	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Email	
VEMS_Reservations_ AutoSendSummary	Send Reques- t Sum-	Desktop Client > Sys- tem Admin-	Email	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	mary upon Submit	istration > Set- tings > Para- meters > Everyday User Applications ta- b		
VEMS_Reservations_ AutoSendSum- maryOnCancel	Send Con- firm- ation on Cancel	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Email	
VEMS_Reservations_ DefaultSubject	Default Subject	Desktop Client > Sys-	Email	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	for Email	tem Admin- istration > Set- tings > Parameters > Everyday User Applications ta- b		
LDAP_Authenticate	This determ- ines whether to authen- ticate with LDAP.	Virtual EMS > LDAPCon- figuration.aspx > Security tab	LDAP	
MOBILE_Check-	Mobile	Desktop	Mobile-	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
inProximityDistance	checkin prox- imity dis- tance	Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Specific	
MOBILE_Check- inProx- imityUnitOfMeasuremen	Mobile checkin prox- imity unit of meas- urement	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
MOBILE_MinutesToRe- memberLogin	Inactiv- ity period in minutes before auto logout from mobile app	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	
MOBILE_Prox- imityDistance	Mobile building prox- imity dis- tance	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User	Mobile- Specific	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		Applications ta- b		
MOBILE_Prox- imityUn- itOfMeasurement	Mobile building prox- imity unit of meas- urement	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	
PAM_Tex- tAboveEditLink	The text to dis- play above the edit link	PAM Web Ser- vice > PAMConfig aspx > Message tab	PAM	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED	AREA	NOTES
PAM_WebServiceURL	Exchan- ge Integ- ration Web Service URL	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Integ- ration to Microsoft Exchang- e	
URL for the EMS Mobile App in the app store	Setting this para- meter to blank prevent- s the EMS Mobile	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	



KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	App popup prompt from appeari- ng.			
URL for the EMS Mobile App in the play store	Setting this para- meter to blank prevent- s the EMS Mobile App popup prompt	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications ta- b	Mobile- Specific	



KEYVALUE	DESCRI-	CONFIGURED		NOTES
(TBLREGISTRY NAME)	PTION	WHERE?	AREA	NOTES
	from			
	appeari-			
	ng.			
	iOS			
	100			
	Android			