



EMS MOBILE APP Configuration Guide

V44.1

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Table of Contents

EMS MOBILE APPConfiguration Guide	1
Table of Contents	2
EMS Mobile App Configuration Guide	7
Introduction	8
System Requirements for EMS Mobile App	8
EMS Mobile or EMS Mobile Web App: What's the Difference?	0
EMS Mobile App = EMS Application for Mobile Devices	0
Features of EMS Mobile App (Which are Not in EMS Web App)	0
EMS Mobile App = EMS Web App on a Mobile Browser	1
Features of EMS Web App (Which are Not in EMS Mobile App)	1
How Do I Install It?1	1

How Do I Use It?12
Add Mobile Users
Deploy EMS Mobile App
Public Deployment: Public App Store
Private Deployment: Private App Store
Change EMS Mobile App Logo (Private Deployment Only)
IOS
Android
Configure and Re-Sign the EMS Mobile App (Private Deployment Only)43
Use Unsigned Builds
Set Custom Configuration
IOS
Android45

Re-Sign and Repackage for iOS	45
1. Install Fastlane.	45
Install Certificate and Provisioning Profile	46
Provisioning Profile	46
Certificate	46
3. Re-Sign	47
Re-Sign and Repackage for Android	50
Customize Your Mobile App Configuration Using config.json (Private	
Deployment Only)	52
Find the config.json File	52
iOS	53
Android	53
Set the APLURI	54

Configure Authentication	54
Supported Authentication Configurations	56
Open ID	56
Properties for the openID Section	57
SAML	58
Properties for the SAML Section	58
Examples	59
Custom URL only	59
Open ID with Discovery URL	60
Open ID Without Discovery URL	61
SAML With Default API SAML Endpoint	62
SAML with Specific API SAML Endpoint	63
Change Logging Location	63

Assign Templates to EMS Mobile Users	.65
Restrict Users' Mobile App Versions	. 68
Determine EMS Mobile API and Version Compatibility	69
Change the Help Link Label and URL	.73
Configure EMS Mobile QR Codes	75
How Do I Know When To Upgrade the Mobile App and API?	.76
Determine EMS Mobile API and Mobile App Version Compatibility	76
Set EMS Mobile Parameters	.80

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.

Introduction

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 Requirements)
- 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 (WHICH 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 (WHICH ARE NOT IN EMS MOBILE APP)

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

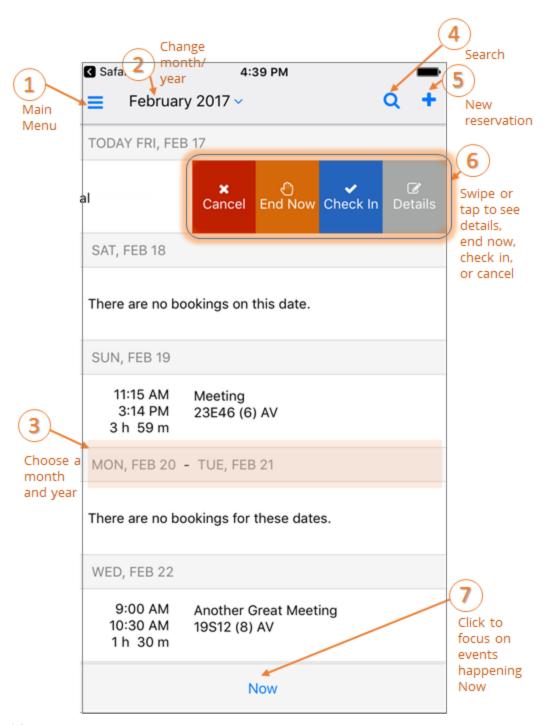
HOW DO I INSTALL IT?

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 Support 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 <u>logged in</u>, you can follow the tips below to interact with your calendar and see your events. Your calendar shows only current and upcoming events.



Tip: Get up to speed fast using our video tutorials:

EMS Mobile App Video Tutorials

- » Booking a Desk or Meeting
- Booking a Meeting By Scanning a QR Code

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.

Note: This section guides you in configuring one Everyday User at a time.

Once you have configured these users, you may need to assign them
to security templates and one or more process templates.

- To assign users to Everyday User process templates, see <u>Assign Templates</u> to Everyday Users.
- To assign multiple templates to multiple users in a single step, see <u>Assign</u>
 <u>Security Templates to Multiple Everyday Users</u>.

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 EMS Human Resources Toolkit.

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

meters.

Concept: EMS classifies users into two categories—Guests or Visitors and Everyday Users

"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 EMS Web App System Parameters) and

select the Credit\Edit an Account role for the unauthenticated user (see the Roles tab definition in Configuring a security template).

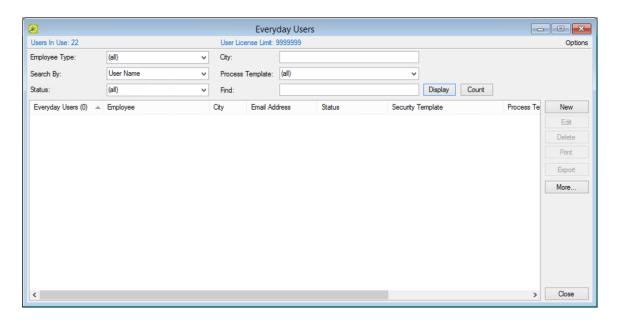
"Guests" or "Visitors" (authenticated users) may also submit and manage reservations if you enable them.

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

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

Concept: see Everyday User process templates control access and behavior in EMS Software's see 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."

1. 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.



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:

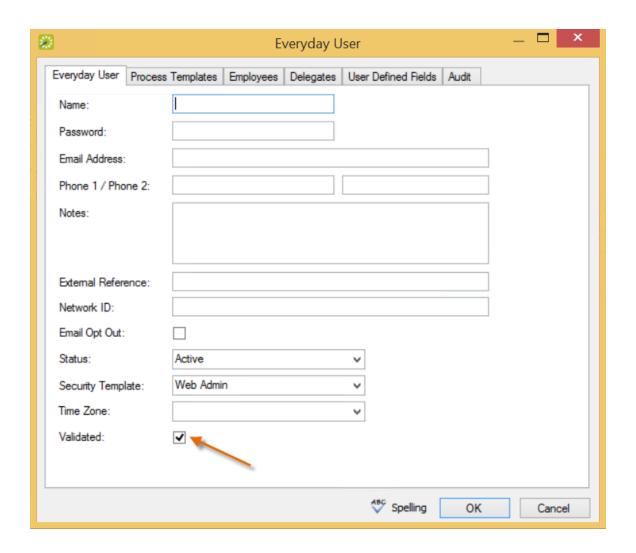
- " Group Type
- City
- Status
- Process Template

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.



Concept: 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

FIELD	DESCRIPTION
	Integrated Authentication mod- ule, 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.
External Refer-	Optional field. Links the user to

FIELD	DESCRIPTION
ence	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:

FIELD

DESCRIPTION

- 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 contact the EMS administrator.

Security Template

Security Tem- Required field. This determines

FIELD	DESCRIPTION
	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. Begin-
	ning in version 44.1, it is
	strongly recommended that
	users are assigned to a time
	zone for an optimal experience
	on all Everyday User Applic-
	ations.

Validated When checked, users who created their own accounts have confirmed membership (by responding to a email containing an activation link). When	FIELD	DESCRIPTION
unchecked, the user will not be able to use EMS Web App.	Validated	ated their own accounts have confirmed membership (by responding to a email containing an activation link). When unchecked, the user will not be

- 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.

Deploy EMS Mobile App

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

- The standard public app store offered by Apple and Google. See <u>Public</u>
 <u>Deployment: 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 Deploy-</u> ment: Private App Store.

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 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.





Sign In

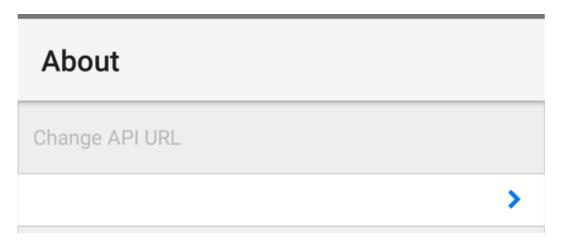
Username

Password

Domain

SIGN IN

2. Click to change the API URL.



3. Enter the API URL you provide and connect.





EMS Server URL

https://yourservername/EmsMobileAl

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. This site offers some guidance on how to sign an unsigned ipa file (i.e. for iOS), while this site does the same for Android apk files. Deploying via a private app store allows you to Restrict Users' Mobile App Versions 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 here):

- 1. Download unsigned builds: .ipa and .apk files
 - Optional: <u>Customize Your Mobile App Configuration Using config.</u>json (Private Deployment Only), change logo
- Configure and Re-Sign the EMS Mobile App (Private Deployment Only)
 - Change EMS Mobile App Logo (Private Deployment Only) (if using MDM)

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.
- 2. 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.
- 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
- 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 targe	t ipa with	this	command	1:
-----	--------	------------	------------	------	---------	----

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.

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
 - 3 1. Install Fastlane.
 - 2. Install Certificate and Provisioning Profile
 - » 3. Re-Sign
- 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.
- 2. 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

- Refer to <u>Customize Your Mobile App Configuration Using config.json (Private Deployment Only)</u> for details on building a configuration file for EMS Mobile.
- 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/cprofile-guid>.-

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_pro-
file:$HOME/Library/MobileDevice/Provisioning Pro-
files/<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/cprofile-guid>.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-quid>.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

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.
- Set the URL property to your desired value (e.g., https://yourcompany.com/ems-platform-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
- 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

- leave 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"

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	Dankina Dulan	Defaulte	Rooms	Cataon
Process reinplate	Booking Rules	Deraults		_
Description:			Works	pace
Mode:			Self Se	erve
Menu Text:			Works	pace
Available To New	Users:		\checkmark	
Reserve Status:			Confim	ned
Request Status:			Confim	ned
Conflict Status:			Conflic	t
Cancel Status:			No Sho	ow
Rule Violation State	us:			
Default Setup Type	e:		(none)	
Menu Sequence:			0	
Video Conference:				
— Everyday User /	Application Setting	gs		
Enable for Web Ap	p:		\checkmark	
Enable for Mobile:			\checkmark	

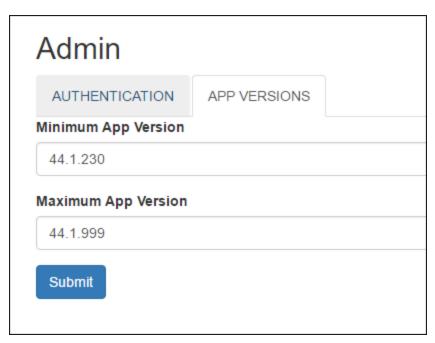
Note: EMS Mobile App is designed to make and edit simple reservations for users "on the go." At this time it cannot handle service requests, video conference bookings or complex workflows. Please consider this when you decide which templates should be enabled for the EMS Mobile App. Additionally, you 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.

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:



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

EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
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 Update 7	44.1.487	44.1.249.0	44.1.288	44.1.487

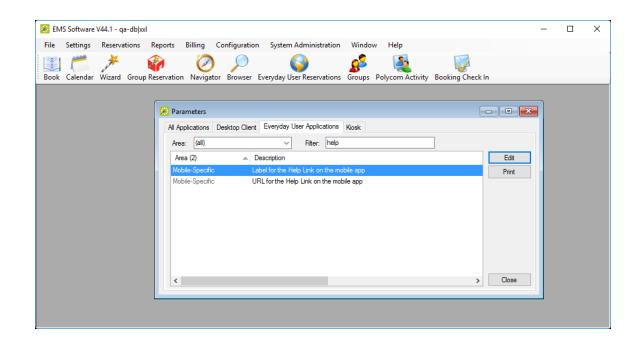
Concept: The Minimum App Version means that users running EMS Mobile App below the minimum will not be able to use EMS. Increasing this value essentially forces users on an older version to upgrade. Maximum App Version prevents users from using EMS Mobile App if they run a version above the max.

Change the Help Link Label and URL

To change the label for the Help link label, locate the <u>Set EMS Mobile</u>

Parameters, 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.



Configure EMS Mobile QR Codes

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

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	44.1.288	44.1.146	44.1.288	44.1.288

EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
Update 1				
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

EMS RELEASE #	MOBILE APP VERSION SHIPPED	MOBILE API VERSION	MOBILE APP MINIMUM VERSION	MOBILE APP MAXIMUM VERSION
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 Update 7	44.1.487	44.1.249.0	44.1.288	44.1.487

Concept: 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.

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 Cli-	Create/-	Con-
DefaultCancelReaso-	Cancel	ent > System	Manage	trols
n	Reaso-	Admin-	Reser-	which
	n	istration > Set-	vations	Cancel
		tings >		Reaso-
		Parameters >		n, if
		Everyday		any, is
		User		applied
		Applications t-		to book-

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		ab		ings
				that are
				can-
				celled
				by
				every-
				day
				users.
				The
				ability
				for a
				user to
				choose
				а

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
				Cancel
				Reaso-
				n to be
				applie-
				d.
MOBILE_HelpLinkLa-	Label	Desktop Cli-	Mobile-	
bel	for the	ent > System	Specific	
	Help	Admin-		
	Link on	istration > Set-		
	the	tings >		
	mobile	Parameters >		
	арр	Everyday		
		User		
		Applications t-		

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		ab		
MOBILE_ HelpLinkURL	URL for the Help Link on the mobile app	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications tab	Mobile- Specific	
Mobile_Require2FA	Requir-	Desktop Cli-	Mobile- Specific	Requir-

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	es 2- factor authen- tication for all mobile logins	tings > Parameters >		es Two- Factor Authen- tication for mobile authen- tication
Mobile_AuthHead- erVariable	Sets the header vari-	Desktop Cli- ent > System Admin- istration > Set-	Mobile- Specific	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	able for the EMS Mobile API's Header Authen- tication Method	tings > Para- meters > Everyday User Applications t- ab		
MOBILE_2faE- mailSubject	The subject for the EMS	Desktop Cli- ent > System Admin- istration > Set-		Subject of the email sent to

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	Mobile	tings > Para-		users
	two-	meters >		noti-
	factor	Everyday		fying
	setup	User		them to
	email	Applications t-		go to
		ab		the
				EMS -
				Web
				App
				and
				scan
				their
				2fa bar-
				code

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
MOBILE_Every- dayAppConfigJson	Authentication configuration for the EMS Mobile App	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications tab	Mobile- Specific	Stores the config- uration the mobile app will use to authen- ticate against the api
MOBILE_MaxSup- portedAppVersion	Max-	Desktop Cli-	Mobile- Specific	Max-

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	imum	ent > System		imum
	EMS	Admin-		app ver-
	Mobile	istration > Set-		sion
	Арр	tings >		that the
	version	Parameters >		api will
	that the	Everyday		allow to
	API	User		con-
	should	Applications t-		nect
	allow to	ab		
	con-			
	nect			
MOBILE_MinSup-	Min-	Desktop Cli-	Mobile-	Min-
portedAppVersion	imum	ent > System	Specific	imum

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	EMS Mobile App version that the API should allow to con- nect	tings > Parameters > Everyday User		app version that the api will allow to connect
MOBILE_Num- berofDays	Inactiv- ity period	ent > System	Mobile- Specific	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	in minute-s before auto logout from mobile app	meters - Everyday User Applic-		
MOBILE_ QueryStringKey	Key used to sign mobile	Admin-	Mobile- Specific	Key used to encrypt the

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	query strings in links to vir- tual	tings > Para- meters > Everyday User Applications t- ab		query strings when email- ing users links to the EMS - Web App
MOBILE_Ses- sionTokenSign- ingKey	Key use to	Desktop Cli- ent > System	Mobile- Specific	Key used to

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	for sign-	Admin-		sign
	ing	istration > Set-		the
	EMS	tings >		tokens
	Mobile	Parameters >		authen-
	ses-	Everyday		ticated
	sion	User		users
	tokens	Applications t-		receive
		ab		once
				they
				create
				a valid
				ses-
				sion

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
VEMS_User_ RequirePhone	Requir- e Phone during accoun- t cre- ation	Client > Sys- tem Admin- istration >	Account Man- age- ment	
VEMS_User_Secur- ityStatus	Default Accou- nt	Desktop Cli- ent > System Admin-	Account Man- age- ment	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	-	tings > Para- meters > Everyday		
VEMS_ResBook_ ShowWhatInBar	in Book- ing on	tem Admin- istration > Settings >	Sched- ule View	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	View	Applications tab		
VEMS_ReservationBook_ StartTime	Start Time on Sched- ule View	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications t- ab	Sched- ule View	

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

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	ing Email	istration > Set- tings > Para- meters > Everyday User Applications t- ab		
VEMS_EmailAc- countPassword	Pass- word of Email Accou- nt	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday	Email - Settings	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		User Applications t- ab		
VEMS_EmailSender	Name of Email Sender	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications t- ab	Email	

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

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	SMTP			
Vems_Reservations_ AutoEmailFormat	Format for Reque- st Sum- mary		Email	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		User Applications t- ab		
VEMS_Reservations_ AutoSendSummary	Send Request Summary upon Submit	•	Email	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
VEMS_Reser- vations_ AutoSendSummaryOr	Send Confirmation on Cancel	Desktop Client > System Administration > Settings > Parameters > Everyday User Applications tab	Email	
VEMS_Reser- vations_DefaultSub- ject	Default Subject for Email	Desktop Client > Sys- tem Admin-	Email	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
		istration > Set- tings > Para- meters > Everyday User Applications t- ab		
LDAP_Authenticate	This determ- ines whethe- r to authen- ticate	Virtual EMS > LDAPCon- fig- uration.aspx > Security tab	LDAP	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	with LDAP.			
MOBILE_Check-inProximityDistance	Mobile checkin proximity distance	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications t- ab	Mobile- Specific	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
MOBILE_Check-inProx-imityUnitOfMeasureme	Mobile checkin proximity unit of measurement	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User Applications t- ab	Mobile- Specific	
MOBILE_ MinutesToRe- memberLogin	Inactiv- ity period	Desktop Client > System Admin-	Mobile- Specific	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	in minute-s before auto logout from mobile app	meters > Everyday User		
MOBILE_Prox- imityDistance	Mobile build-ing prox-imity	•	Mobile- Specific	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	dis- tance	Settings > Parameters > Everyday User Applications t- ab		
MOBILE_Prox- imityUn- itOfMeasurement	Mobile build-ing prox-imity unit of meas-ure-	Desktop Client > Sys- tem Admin- istration > Settings > Parameters > Everyday User	Mobile- Specific	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA NOTES
	ment	Applications tab	
PAM_Tex- tAboveEditLink	The text to display above the edit link		PAM
PAM_WebSer-viceURL	Excha- nge Integ- ration Web		Integ- ration to Microso- ft Exchan-

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	Service URL	Parameters > Everyday User Applications t- ab	ge	
URL for the EMS	Setting	Desktop	Mobile-	
Mobile App in the app	this	Client > Sys-	Specific	
store	para-	tem Admin-		
	meter	istration >		
	to	Settings >		
	blank	Parameters >		
	preven-	Everyday		
	ts the	User		
		Applications t-		

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	EMS Mobile App popup prompt from appear- ing.	ab		
URL for the EMS Mobile App in the play store	Setting this parameter to	Desktop Client > System Administration > Settings >	Mobile- Specific	

KEYVALUE (TBLREGISTRY NAME)	DESCRI- PTION	CONFIGURED WHERE?	AREA	NOTES
	blank	Parameters >		
	preven-	Everyday		
	ts the	User		
	EMS	Applications t-		
	Mobile	ab		
	Арр			
	popup			
	prompt			
	from			
	appear-			
	ing.			