

Using the MobileFirst Operations Console

Overview

The MobileFirst Foundation Operations Console is a web-based UI which enables simplified work flows for both the developer and the administrator to create, monitor, secure and administer applications & adapters.

As a developer

- Develop applications for any environment and register them to MobileFirst Server.
- See all your deployed applications and adapters at a glance. See the Dashboard.
- Manage and configure registered applications, including Direct Update, remote disablement, and security parameters for application authenticity and user authentication.
- Set up push notification by deploying certificates, creating notification tags, and sending notification.
- Create and deploy adapters.
- Download samples.

As an IT administrator

- Monitor various services.
- Search for devices that access MobileFirst Server and manage their access rights.
- Update adapter configurations dynamically.
- Adjust client logger configurations through log profiles.
- Track how product licenses are used.

Jump to:

- Accessing the console
- Navigating the console

Accessing the console

The MobileFirst Operations Console can be accessed in the following ways:

From a locally installed MobileFirst Server

Desktop Browser

From your browser of choice, load the URL `http://localhost:9080/mfpconsole` (`http://localhost:9080/mfpconsole`). The username/password are `admin/admin`.

Command-line

From a **Command-line** window, with the MobileFirst CLI installed, run the command: `mfpdev server console`.

From a remotely installed MobileFirst Server

Desktop Browser

From your browser of choice, load the URL `http://the-server-host:server-port-number/mfpconsole`.
The host server can be either a customer-owned server, or the IBM Bluemix service, IBM Mobile Foundation (`../../bluemix/`).

Command-line

From a **Command-line** window, with the MobileFirst CLI installed,

1. Add a remote server definition:

Interactive Mode

Run the command: `mfpdev server add` and follow the on-screen instructions.

Direct Mode

Run the command with the following structure: `mfpdev server add [server-name] --URL [remote-server-URL] --login [admin-username] --password [admin-password] --contextroot [admin-service-name]`. For example:

```
mfpdev server add MyRemoteServer http://my-remote-host:9080/ --login TheAdmin --password ThePassword --contextroot mfpadmin
```

2. Run the command: `mfpdev server console MyRemoteServer`.

Learn more about the various CLI commands in the [Using CLI to manage MobileFirst artifacts \(../../application-development/using-mobilefirst-cli-to-manage-mobilefirst-artifacts/\)](#) tutorial.

Navigating the console

Dashboard

The Dashboard provides a glance view of the deployed projects.

MobileFirst Operations Console Analytics Console Hello, admin

Dashboard

Home > Dashboard

Welcome!

You do not have any apps registered or adapters deployed. To get started, click these buttons to register an application, access the command-line interface, or download code samples. To learn more, visit the [Developer Center](#).

[Register an App](#) [Get CLI](#) [Get Starter Code](#)

Monitoring

Administration DB Active

Live Update Active

Push Service Active

Runtime Status

Monitor the runtimes on this server. Synchronization errors might indicate a problem between the administration server and the runtime. See the logs for details.

Runtime Name	State	Synchronization	Analytics
mfp	Active	Synchronized	Active

Actions dropdown

The dropdown provides quick access to various console actions.

MobileFirst Operations Console Analytics Console Hello, admin

Dashboard

Home > Dashboard

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Actions

- Applications**
 - Register Application
 - Import Application
- Adapters**
 - Deploy Adapter
 - Import Adapter
- General**
 - Download Samples
 - Download Developer CLI

Runtime settings

Edit runtime properties, global security variables, server keystore and confidential clients.

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (0)

New

Adapters (0)

New

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > Runtime Settings

Runtime Settings

Runtime PropertiesKeystoreConfidential Clients

Runtime Properties

Edit

Adapters

GZIP compression threshold for adapter responses *

20480

Compression threshold, in bytes, from which the server tries to compress the MobileFirst adapter response if the client accepts gzip.

Analytics

Additional packages

A comma-separated list of packages that the logger uses to generate the output sent to the MobileFirst Analytics server.

Data collection enabled

true

Enables or disables collecting data about applications, adapters, devices, and logs to be sent to the analytics service.

Error log

The Error log shows a list of the failed management operations that were initiated from the MobileFirst Operations Console, or from the command line, on the current runtime environment. Use the log to see the effect of the failure on the servers.

For more information, see the topic about error log of operations on runtime environments in the user documentation.

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (0)

New

Adapters (0)

New

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > Error Log

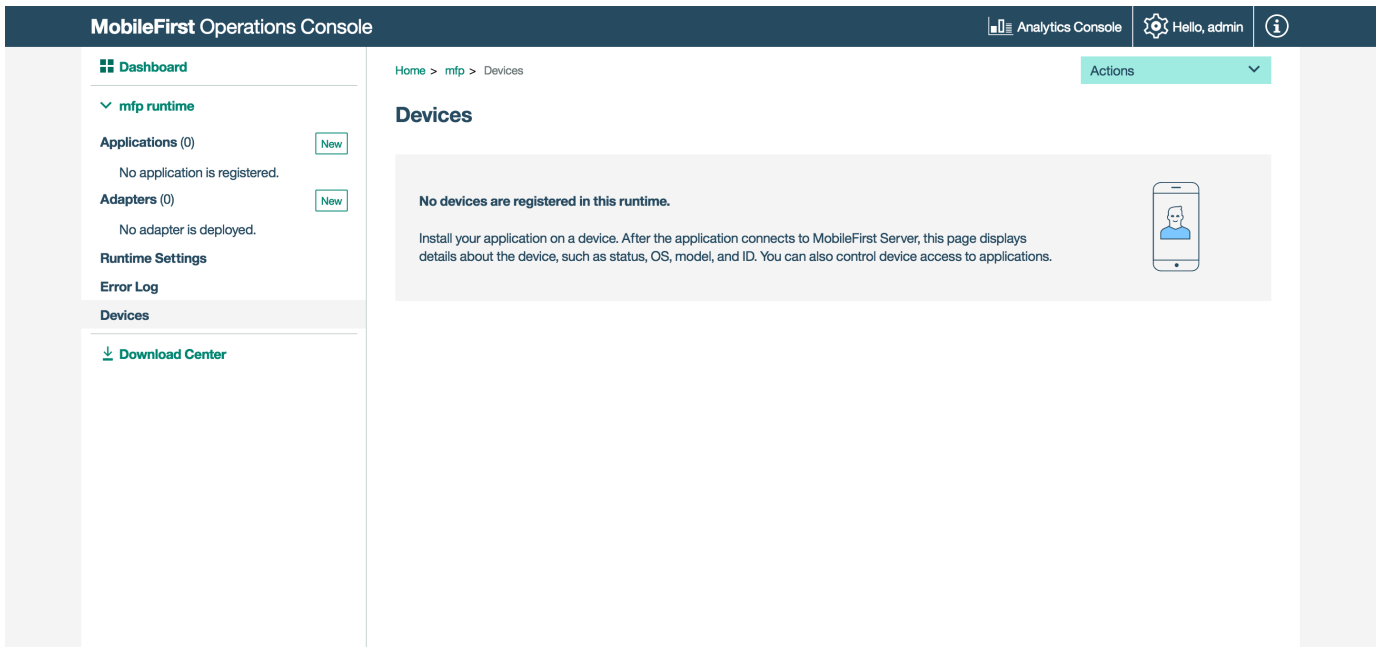
Error Log

Date	Type	Name	Details	Value						
May 23, 2016, 11:29 AM	Upload Adapter	sqlAdapter		sqlAdapter.adapter						
<div>Error Details</div> <table><thead><tr><th>Node</th><th>Type</th><th>Description</th></tr></thead><tbody><tr><td>mfp//9.148.225.168</td><td>FAILURE</td><td>FWLST0905E: Adapter deployment failed. SQL driver com.mysql.jdbc.Driver was not found in the adapter resources. FWLSE4042I: Security check 'PinCodeAttempts' configuration for param 'inactivityTimeoutSec': 'Missing configuration property, using default value 0'.</td></tr></tbody></table>					Node	Type	Description	mfp//9.148.225.168	FAILURE	FWLST0905E: Adapter deployment failed. SQL driver com.mysql.jdbc.Driver was not found in the adapter resources. FWLSE4042I: Security check 'PinCodeAttempts' configuration for param 'inactivityTimeoutSec': 'Missing configuration property, using default value 0'.
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May 23, 2016, 11:25 AM	Upload Adapter	sqlAdapter		sqlAdapter.adapter						
May 15, 2016, 10:12 PM	Multiple Artifacts Upload									
May 15, 2016, 4:34 PM	Multiple Artifacts Upload									
May 15, 2016, 1:01 PM	Multiple Artifacts Upload									
May 10, 2016, 6:39 PM	Delete Adapter	UserLogin								

Devices

Administrators can search for devices that access the MobileFirst Server and can manage access rights. Devices can be searched for using either user ID or using a friendly name. The user ID is the identifier that was used to log-in. A friendly name is a name that is associated with the device to distinguish it from other devices that share the user ID.

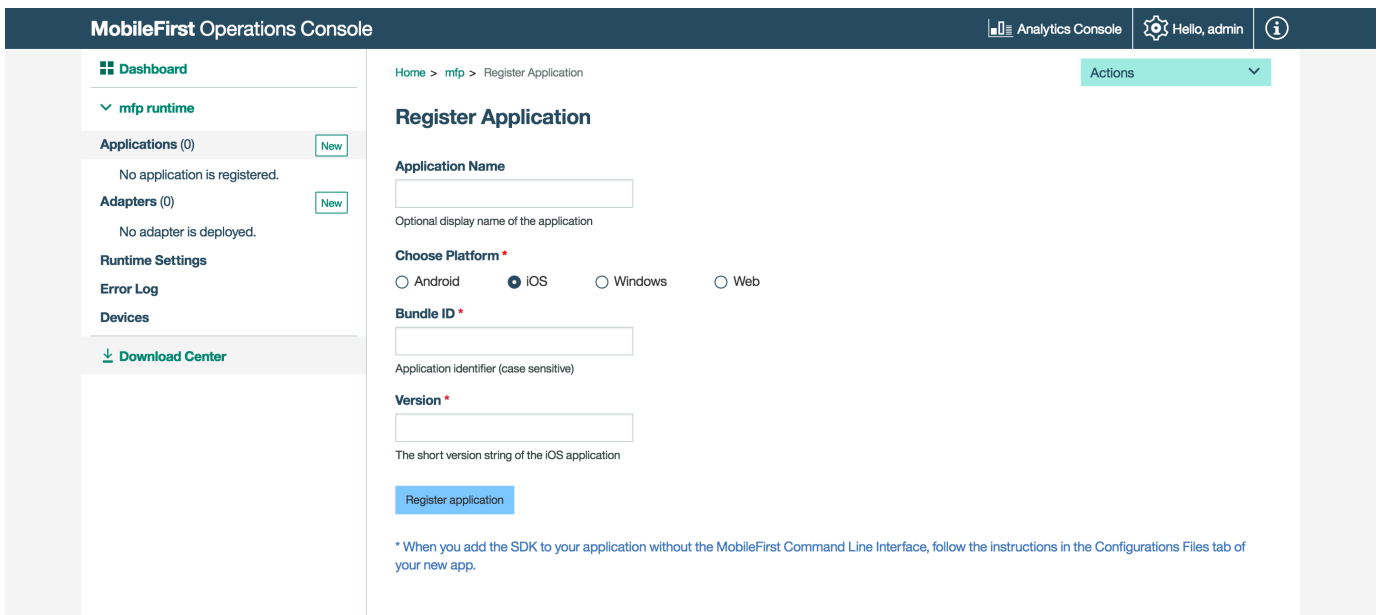
For more information, see the topic about device access management in the user documentation.



Applications

Registering applications

Provide basic application values and download Starter Code.



Managing applications

Manage and configure registered applications by use of Direct Update ([../../application-development/direct-update/](#)), Remote Disable, Application Authenticity ([../../authentication-and-security/application-authenticity/](#)), and setting security parameters ([../../authentication-and-security/](#)).

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (1)

New

MyApplication

Versions (1)

iOS (latest)

App Settings

Push

New

Adapters (0)

No adapter is deployed.

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > MyApplication > iOS 1.0

Actions

MyApplicationiOS v 1.0 | com.sample.myapplication

ManagementAuthenticitySecurityLog FiltersConfiguration Files

Last modified: May 25, 2016, 11:51 AM

Application Access

Status:

Active

Active and Notifying

Access Disabled

Direct Update

Deliver an update to a Cordova application by uploading a new web resource archive. After you upload the archive to MobileFirst Server, client devices receive update notifications the next time they request a server resource.

No Web resources deployed

Upload Web Resource Archive

Follow these steps to deploy the web resources using the mfpdev CLI:

Hide guide

1 Set up your development environment.

You upload modified web resource archives by using IBM MobileFirst Platform Foundation Command Line Interface, also called the mfpdev CLI.

Authentication and Security

Configure application security parameters, such as the default token expiration value, map scope elements to security checks, define mandatory application scopes and configure security check options.

Learn more ([../authentication-and-security/](#)) about the MobileFirst security framework.

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (1)

New

MyApplication

Versions (1)

iOS (latest)

App Settings

Push

New

Adapters (0)

No adapter is deployed.

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > MyApplication > iOS 1.0

Actions

MyApplicationiOS v 1.0 | com.sample.myapplication

ManagementAuthenticitySecurityLog FiltersConfiguration Files

Security Configurations

Configure advanced application-specific security logic for protecting your enterprise data and APIs.

Token Configuration

Configure the access tokens issued by MobileFirst Server.

Maximum Token-Expiration Period (seconds)

3600

Edit

Maximum access-token expiration period (validity duration) for this MobileFirst Server instance

Scope-Elements Mapping

Map custom scope elements to security checks to define application-specific security logic for accessing protected resources.

No scope-element mappings currently exist for this application.

Get started by clicking **New**.

Application Settings

Configure the display name of the application in the console as well as the application type and licensing.

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (1)

New

RememberMeSwift

Versions (1)

iOS (latest)

App Settings

Push

Adapters (0)

New

No adapter is deployed.

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > com.sample.RememberMeSwift > RememberMeSwift Settings

Actions

RememberMeSwift Settings

General

Display name *

RememberMeSwift

SaveCancel

License

Application Type

☒ B2C - Applications that help businesses keep touch with their customers and serve them in a better way

☐ B2E - Applications that are developed by companies to automate employee-related corporate processes

Token License Type

You can specify the license application type for your applications before deploying them.

☒ Application

☐ Additional brand deployment

☐ Non-production

SaveCancel

Notifications

Set-up push notifications (`../..../notifications/`) and related parameters, such as certificates and GCM details, define tags, as well as send notifications to devices.

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (1)

New

MyApplication

Versions (1)

iOS (latest)

App Settings

Push

Adapters (0)

New

No adapter is deployed.

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > com.sample.myapplication > Push

Actions

Push

Send NotificationsTagsPush Settings

Push Notification Settings

Configure your push notifications here. For detailed instructions, see the [tutorial about push notifications](#).

Apple Push Notifications Certificate

Learn more about how to generate and use Apple Push Notification Service (APNS) certificates in [Apple Push Notifications certificates guide](#).

Choose use *

☒ Production

☐ Sandbox

Select PKCS 12 (.p12) File *

Browse

Password *

Enter the password

Save

GCM Push Credentials

Learn more about how to set up Google Cloud Messaging (GCM) in [Google Cloud Messaging documentation](#).

Adapters

Creating adapters

Register a MobileFirst adapter (`../..../adapters/`) and download Starter Code, as well as update an adapter on-the-fly by updating its properties without needing to re-build and re-deploy the adapter artifact.

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (0)

New

Adapters (0)

New

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > Create Adapter

Create Adapter

Adapters are used to securely connect back-end systems to client applications and cloud services. Adapters are built as Maven projects and can be written in JavaScript or Java.

Follow these steps to create an adapter.

Hide guide

1

Set up your development environment.

You can develop adapters in any environment that supports Maven. To build, deploy, and update adapters, you can use Maven or IBM MobileFirst Platform Foundation Command Line Interface, also called the mfpdev CLI.

Installing the mfpdev CLI

Make sure to download and install Node.js, version 4.3. Install the mfpdev CLI by using the npm utility of Node.js. The CLI is automatically downloaded by the npm utility.

npm install -g mfpdev-cli

Installing Maven

To download and install Maven, follow the instructions on the [Apache Maven website](#).

2

Create

3

Develop

4

Build

Actions

Deploy Adapter

Adapter properties

After an adapter is deployed, it can be configured in the console.

MobileFirst Operations Console

Analytics ConsoleHello, admin

Dashboard

mfp runtime

Applications (0)

New

Adapters (1)

New

javaAdapter

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > javaAdapter

javaAdapter

ConfigurationsResourcesConfiguration Files

Resources

A resource, as defined in REST, is an object with a type, associated data, relationships to other resources, and a set of methods that operate on it.

View Swagger Docs

URL	Methods	Security
/resource	GET	DEFAULT_SCOPE
/resource/greet	GET	DEFAULT_SCOPE
/resource/prop	GET	DEFAULT_SCOPE
/resource/protected	GET	myCustomScope
/resource/unprotected	GET	None
/resource/{path}	POST	DEFAULT_SCOPE

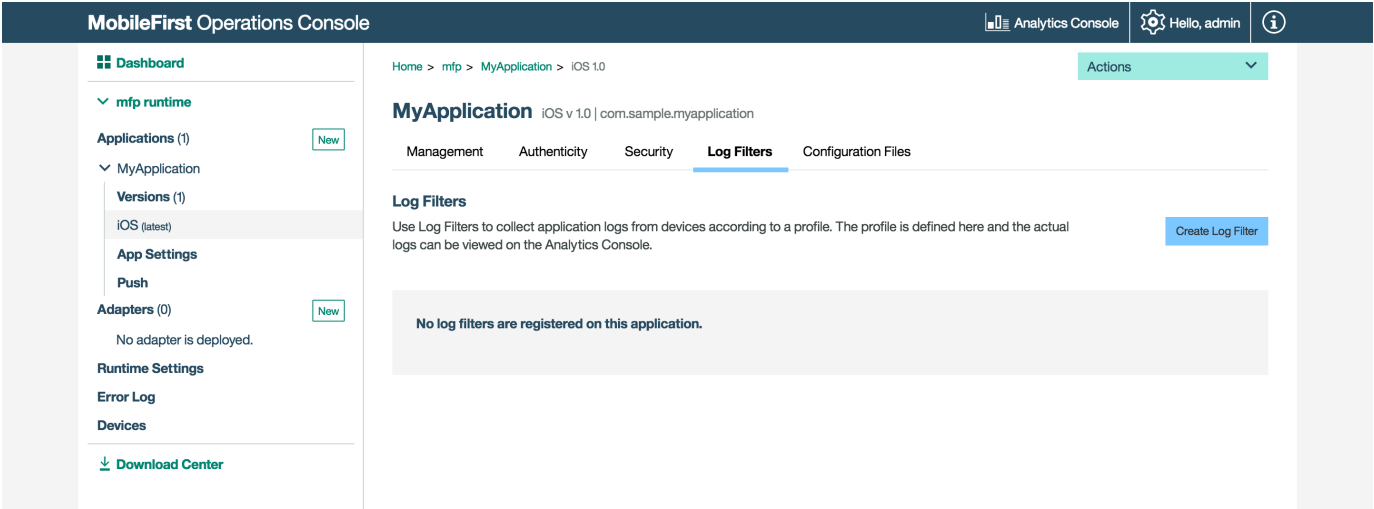
Actions

Client logs

Administrators can use log profiles to adjust client logger configurations, such as log level and log package filters, for any combination of operating system, operating system version, application, application version, and device model.

When an administrator creates a configuration profile, the log configuration is concatenated with responses API calls such as `WLResourceRequest`, and is applied automatically.

For more information, see the topic about client-side log capture configuration in the user documentation.



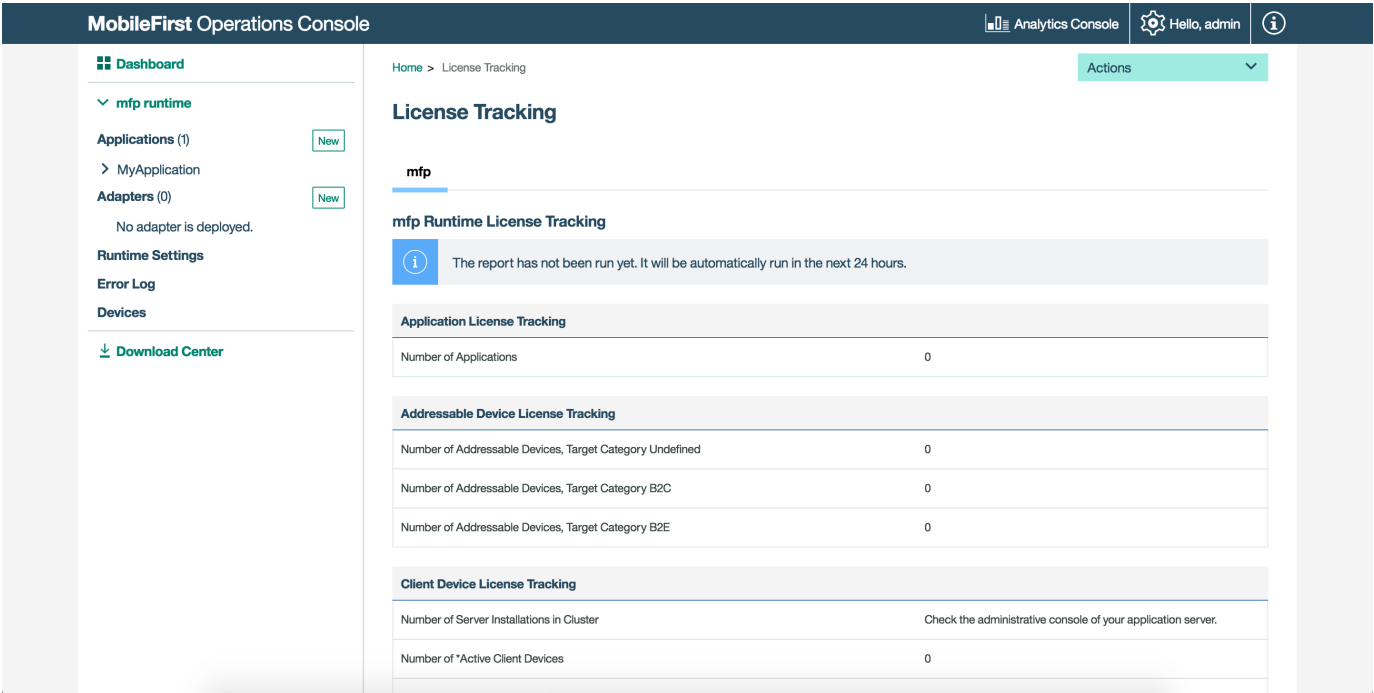
License tracking

Accessible from the top Settings buttons.

License terms vary depending on which edition (Enterprise or Consumer) of MobileFirst Foundation is being used. License tracking is enabled by default and tracks metrics relevant to the licensing policy, such as active client devices and installed applications. This information helps determine whether the current usage of MobileFirst Foundation is within the license entitlement levels and can prevent potential license violations.

By tracking the usage of client devices and determining whether the devices are active, administrators can decommission devices that should no longer be accessing the service. This situation might arise if an employee has left the company, for example.

For more information, see the topic about license tracking in the user documentation.



Downloads

For situations where Internet connectivity is not available, you can download a snapshot of the various development artifacts of MobileFirst Foundation from the Download Center in the MobileFirst Console.

