

# Deprecated and discontinued features and API elements

Consider carefully how removed features and API elements affect your IBM MobileFirst Foundation environment.

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## Discontinued features and features that are not included in v8.0

IBM MobileFirst Foundation v8.0 is radically simplified compared to the previous version. As a result of this simplification, some features that were available in V7.1 are discontinued in v8.0. In most cases, an alternative way to implement the features is suggested. These features are marked discontinued. Some other features that exist in V7.1. are not in v8.0, but not as a consequence of the new design of v8.0. To distinguish these excluded features from the features that are discontinued from v8.0, they are marked not in v8.0.

Feature	Status and replacement path
MobileFirst Studio is replaced by MobileFirst Studio plug-in for Eclipse.	<p>Replaced by MobileFirst Studio plug-in for Eclipse empowered by standard and community-base Eclipse plug-ins. You can develop hybrid applications directly Cordova CLI or with a Cordova enabled IDE such as Visual Studio Code, Eclipse, IntelliJ, and others.For more information about using eclipse as a Cordova development/using-mobilefirst-cli-in-eclipse/).</p> <p>You can develop adapters with Apache Maven or a maven-enabled IDE such as Eclipse, IntelliJ, and others. For more information about developing adapters category (file:///home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/adapters). For more information about using Eclipse as a Maven Developing Adapters in Eclipse tutorial (file:///home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/adapters/developing-adapters/).</p> <p>Install IBM MobileFirst Foundation Developer Kit to test adapters and applications with MobileFirst Development Server. You can also access MobileFirst dev SDKs if you do not want to download them from Internet-based repositories such as NPM, Maven, Cocoapod, or NuGet. For more information about IBM Mob Developer Kit, see The IBM MobileFirst Foundation Developer Kit (file:///home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/installatio configuration/development/mobilefirst/).</p>
Skins, Shells, the Setting page, minification, and JavaScript UI elements are discontinued for hybrid applications.	<p>Discontinued. Hybrid applications are developed directly with the Apache Cordova. For more information about replacing skins, shells, the Setting page, and n Removed components and Comparison of Cordova apps developed with v8.0 versus v7.1 and before.</p>
Sencha Touch can no longer be imported into MobileFirst projects for hybrid applications.	<p>Discontinued. MobileFirst hybrid applications are developed directly with the Apache Cordova, and the MobileFirst features are provided as Cordova plug-ins. Touch documentation to integrate Sencha Touch and Cordova.</p>
The encrypted cache is discontinued.	<p>Discontinued. To store encrypted data locally, use JSONStore. For more information about JSONStore, see the JSONStore tutorial (file:///home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/application-development/jsonstore).</p>
Triggering Direct Update on demand is not in v8.0. The client application checks for Direct Update when it obtains the OAuth token for a session. You cannot program a client application to check for direct updates at a different point in time in v8.0.	<p>Not in v8.0.</p>

Adapters with session-dependency configuration. In V7.1.0, you can configure MobileFirst Server to work in session-independent mode (default) or in session-dependent mode. Beginning with v8.0, session-dependent mode is no longer supported. The server is inherently independent of the HTTP session, and no related configuration is required.	Discontinued.
Attribute store over IBM® WebSphere® eXtreme Scale is not supported in v8.0.	Not in v8.0.
Service discovery and adapter generation for IBM® Business Process Manager (IBM BPM) process applications, Microsoft Azure Marketplace DataMarket, OData RESTful APIs, RESTful resources, Services that are exposed by an SAP Netweaver Gateway, and Web Services is not in v8.0.	Not in v8.0.
The JMS JavaScript adapter is not in v8.0.	Not in v8.0.
The SAP Gateway JavaScript adapter is not in v8.0.	Not in v8.0.
The SAP JCo JavaScript adapter is not in v8.0.	Not in v8.0.
The Cast Iron® JavaScript adapter in not in v8.0.	Not in v8.0.

The OData and Microsoft Azure OData JavaScript adapters are not in v8.0.	Not in v8.0.
Push notification support for USSD is not supported in v8.0.	Discontinued.
Event-based push notifications is not supported in v8.0.	Discontinued. Use the push notification service. For more information on migrating to push notification service, see topic <a href="#">Migrating to push notifications from e</a> notifications.
Security: User-certificate authentication. v8.0 does not include any predefined security check to authenticate users with X.509 client-side certificates.	Not in v8.0.
Security: Integration with IBM Trusteer®. v8.0 does not include any predefined security check or challenge to test IBM Trusteer risk factors.	Not in v8.0. Use IBM Trusteer Mobile SDK.
Security: Device provisioning and device auto-provisioning.	Discontinued.  Note: Device provisioning is handled in the normal authorization flow. Device data is automatically collected during the registration process of the security flow information about the security flow, see <a href="#">End-to-end authorization flow</a> .
Security: Configuration file for obfuscating Android code with ProGuard. v8.0 does not include the predefined proguard-project.txt configuration file for Android ProGuard obfuscation with a MobileFirst Android application.	Not in v8.0.
Security: Adapter based authentication is replaced. Authentication uses the OAuth protocol and is implemented with security checks.	Replaced by a security check based implementation.

<p>Security: LDAP login. v8.0 does not include any predefined security check to authenticate users with an LDAP server.</p> <p>Instead, for WebSphere Application Server or WebSphere Application Server Liberty use the application server or a gateway to map an Identity Provider such as LDAP to LTPA, and generate an OAuth token for the user by using an LTPA security check.</p>	<p>Not in v8.0. Replaced by an LTPA security check for WebSphere Application Server or WebSphere Application Server Liberty.</p>
<p>Authentication configuration of the HTTP adapter. The predefined HTTP adapter does not support the connection as a user to a remote server.</p>	<p>Not in v8.0.</p> <p>Edit the source code of the HTTP adapter and add the authentication code. Use <code>MFP.Server.invokeHttp</code> to add identification tokens to the HTTP request's</p>
<p>Security Analytics, the ability to monitor MobileFirst security framework's events with MobileFirst Analytics Console is not in v8.0.</p>	<p>Not in v8.0.</p>
<p>The event source-based model for push notifications is discontinued and replaced by the tag-based push service model.</p>	<p>Discontinued and replaced by the tag-based push service model.</p>
<p>Unstructured Supplementary Service Data (USSD) support is not in v8.0.</p>	<p>Not in v8.0.</p>
<p>Cloudant® used as a database for MobileFirst Server in not supported in v8.0.</p>	<p>Not in v8.0.</p>

Geolocation: The geolocation support is discontinued in IBM MobileFirst Foundation v8.0. The REST API for beacons and for mediators is discontinued. The client-side and server-side API WL.Geo and WL.Device are discontinued.	Discontinued. Use the native device API or third-party Cordova plug-ins for geolocation.
The MobileFirst Data Proxy feature is discontinued. The Cloudant IMFData and CloudantToolkit APIs are also discontinued.	Discontinued. For more information about replacing the IMFData and CloudantToolkit APIs in your apps, see Migrating apps storing mobile data in Cloudant w Cloudant SDK.
The IBM Tealeaf® SDK is no longer bundled with IBM MobileFirst Foundation.	Discontinued. Use IBM Tealeaf SDK. For more information, see Tealeaf installation and implementation in an Android application ( <a href="https://www.ibm.com/support/knowledgecenter/TLSDK/AndroidGuide1010/CFs/TLAnddLggFrwkInstandImpl/TealeafAndroidLoggingFrameworkInstallationAn">https://www.ibm.com/support/knowledgecenter/TLSDK/AndroidGuide1010/CFs/TLAnddLggFrwkInstandImpl/TealeafAndroidLoggingFrameworkInstallationAn</a> cp=SS2MBL_9.0.2%2F5-0-1-0&lang=en) and Tealeaf iOS Logging Framework Installation and Implementation ( <a href="https://www.ibm.com/support/knowledgecenter/TLSDK/iOSGuide1010/CFs/TLiOSLggFrwkInstandImpl/TealeafIOSLoggingFrameworkInstallationAndImpleme">https://www.ibm.com/support/knowledgecenter/TLSDK/iOSGuide1010/CFs/TLiOSLggFrwkInstandImpl/TealeafIOSLoggingFrameworkInstallationAndImpleme</a> cp=SS2MBL_9.0.2%2F5-0-3-1&lang=en) in the IBM Tealeaf Customer Experience documentation.
IBM MobileFirst Platform Test Workbench is not bundled with IBM MobileFirst Foundation	Discontinued.
BlackBerry, Adobe AIR, Windows Silverlight are not supported by IBM MobileFirst Foundation v8.0. No SDK is provided for these platforms.	Discontinued.

## Server-side API Changes

To migrate the server side of your MobileFirst application, take into account the changes to the APIs.

The following tables list the discontinued server-side API elements in v8.0, deprecated server-side API elements in v8.0, and suggested migration paths. For more information about migrating the server side of your application,

### JavaScript API elements discontinued in v8.0

#### Security

##### API Element

WL.Server.getActiveUser, WL.Server.getCurrentUserIdentity, WL.Server.getCurrentDeviceIdentity, WL.Server.setActiveUser, WL.Server.getClientId, WL.Server.getClientDeviceContext, WL.Server.setApplicationContext

##### Replacement Path

Use MFP.Server.getAuthenticatedUser instead.

#### Event Source

##### API Element

WL.Server.createEventSource

##### Replacement Path

Use MFP.Server.getAuthenticatedUser instead.

WL.Server.setEventHandlers

To migrate from Event source-based notifications to tag-based notifications, see Migrating to push notifications from event source-based notifications.

WL.Server.createEventHandler

WL.Server.createSMSEventHandler

To send SMS messages, use the push service REST API. For more information, see Sending Notifications ([../notifications/sending-notifications](#)).

WL.Server.createUSSDEventHandler

Integrate USSD by using third-party services.

#### Push

API Element

WL.Server.getUserNotificationSubscription, WL.Server.notifyAllDevices, WL.Server.sendMessage, WL.Server.notifyDevice, WL.Server.notifyDeviceSubscription, WL.Server.notifyAll, WL.Server.createDefaultNotification, WL.Server.submitNotification

WL.Server.subscribeSMS

WL.Server.unsubscribeSMS

WL.Server.getSMSSubscription

Location Services

API ElementReplacement Path

WL.Geo.\* Integrate Location services by using third-party services.

WS-Security

API Element Replacement Path

WL.Server.signSoapMessageUse the WS-Security capabilities of WebSphere® Application Server.

Java API elements discontinued in v8.0

Security

API Element Replacement Path

SecurityAPI.getSecurityContextUse AdapterSecurityContext instead.

Push

API Element

PushAPI.sendMessage(INotification notification, String applicationId)

INotification PushAPI.buildNotification();

UserSubscription PushAPI.getUserSubscription(String eventSource, String userId)

Replacement Path

To migrate from Event source-based notifications to tag-based notifications, see Migrating to push notifications from event source-based notifications.

To migrate from Event source-based notifications to tag-based notifications, see Migrating to push notifications from event source-based notifications.

To migrate from Event source-based notifications to tag-based notifications, see Migrating to push notifications from event source-based notifications.

Adapters

API Element

AdaptersAPI interface in the com.worklight.adapters.rest.api package

AnalyticsAPI interface in the com.worklight.adapters.rest.api package

ConfigurationAPI interface in the com.worklight.adapters.rest.api package

OAuthSecurity annotation in the com.worklight.core.auth package

MFPJAXRSApplication class in the com.worklight.wink.extensions package

WLServerAPI interface in the com.worklight.adapters.rest.api package

WLServerAPIProvider class in the com.worklight.adapters.rest.api package

Replacement Path

Use the AdaptersAPI interface in the com.ibm.mfp.adapter.api package instead.

Use the AnalyticsAPI interface in the com.ibm.mfp.adapter.api package instead.

Use the ConfigurationAPI interface in the com.ibm.mfp.adapter.api package instead.

Use the OAuthSecurity annotation in the com.ibm.mfp.adapter.api package instead.

Use the MFPJAXRSApplication class in the com.ibm.mfp.adapter.api package instead.

Use the JAX-RS Context annotation to access the MobileFirst API interfaces directly.

Use the JAX-RS Context annotation to access the MobileFirst API interfaces directly.

Client-side API Changes

The following changes in the APIs are relevant to migrating your MobileFirst client application.

The following tables list the discontinued client-side API elements in V8.0.0, deprecated client-side API elements in V8.0.0, and suggested migration paths.

JavaScript APIs

These JavaScript APIs that affect the user interface are no longer supported in v8.0. They can be replaced with available third-party Cordova plug-ins, or by creating custom Cordova plug-ins.

API Element

WL.BusyIndicator, WL.OptionsMenu, WL.TabBar, WL.TabBarItem

WL.App.close

WL.App.copyToClipboard()

WL.App.openUrl(url, target, options)

WL.App.overrideBackButton(callback)

WL.App.resetBackButton()

WL.App.getDeviceLanguage()

WL.App.getDeviceLocale()

WL.App.BackgroundHandler

WL.Client.close, WL.Client.restore, WL.Client.minimize

WL.Toast.show(string)

This set of APIs is no longer supported in v8.0.

Migration Path

Use Cordova plug-ins or HTML 5 elements.

Handle this event outside of MobileFirst.

Use Cordova plug-ins providing this functionality.

Use Cordova plug-ins providing this functionality. **Note:** For your information, the Cordova **InAppBrowser** plug-in provides this feature.

Use Cordova plug-ins providing this functionality. **Note:** For your information, the Cordova **backbutton** plug-in provides this feature.

Use Cordova plug-ins providing this functionality. **Note:** For your information, the Cordova **cordova-plugin-globalization** plug-in provides this feature.

Use Cordova plug-ins providing this functionality. **Note:** For your information, the Cordova **cordova-plugin-globalization** plug-in provides this feature.

To run a custom handler function, use the standard Cordova pause event listener. Use a Cordova plug-in that provides privacy and prevents iOS and Android systems and users from taking snapshots or screen captures. For more information, see the description of the **PrivacyScreenPlugin** (<https://github.com/devgeeks/PrivacyScreenPlugin>).

The functions were provided to support the Adobe AIR platform, which is not supported by IBM MobileFirst Platform V8.0.0.

Use Cordova plug-ins for Toast.

API Element

WL.Client.checkForDirectUpdate(options)

WL.Client.setSharedToken({key: myName, value: myValue}),

WL.Client.getSharedToken({key: myName}),

WL.Client.clearSharedToken({key: myName})

Migration Path

No replacement. **Note:** You can call WLAUTHORIZATIONMANAGER.obtainAccessToken to trigger a direct update if one is available. The access to a security token triggers a direct update if one is available on the server. But you cannot trigger Direct Update on demand.

No replacement.

## API Element

`WL.Client.isConnected()`, `connectOnStartup` init option

`WL.Client.setUserPref(key,value, options)`,  
`WL.Client.setUserPrefs(userPrefsHash, options)`,  
`WL.Client.deleteUserPrefs(key, options)`  
`WL.Client.getUserInfo(realm, key)`,  
`WL.Client.updateUserInfo(options)`  
`WL.Client.logActivity(activityType)`

`WL.Client.login(realm, options)`

`WL.Client.logout(realm, options)`  
`WL.Client.obtainAccessToken(scope, onSuccess, onFailure)`  
`WL.Client.transmitEvent(event, immediate)`,  
`WL.Client.purgeEventTransmissionBuffer()`,  
`WL.Client.setEventTransmissionPolicy(policy)`  
`WL.Device.getContext()`, `WL.Device.startAcquisition(policy, triggers, onFailure)`, `WL.Device.stopAcquisition()`, `WL.Device.Wifi`, Use native API or third-party Cordova plug-ins for GeoLocation.  
`WL.Device.Geo.Profiles`, `WL.Geo`  
`WL.Client.makeRequest (url, options)`

`WLDevice.getID(options)`

`WL.Device.getFriendlyName()`  
`WL.Device.setFriendlyName()`

`WL.Device.getNetworkInfo(callback)`

`WLUtils.wlCheckReachability()`

`WL.EncryptedCache`

`WL.SecurityUtils.remoteRandomString(bytes)`

`WL.Client.getAppProperty(property)`

`WL.Client.Push.*`  
`WL.Client.Push.subscribeSMS(alias, adapterName, eventSource, phoneNumber, options)`

`WLAuthorizationManager.obtainAuthorizationHeader(scope)`

`WLClient.getLastAccessToken(scope)`  
`WLClient.getLoginName()`, `WL.Client.getUserName(realm)`

`WL.Client.getRequiredAccessTokenScope(status, header)`

`WL.Client.isUserAuthenticated(realm)`  
`WLUserAuth.deleteCertificate(provisioningEntity)`  
`WL.Trusteer.getRiskAssessment(onSuccess, onFailure)`

`WL.Client.createChallengeHandler(realmName)`

`WL.Client.createWLChallengeHandler(realmName)`  
`challengeHandler.isCustomResponse()` where `challengeHandler` is a challenge-handler object that is returned by `WL.Client.createChallengeHandler()`  
`wlChallengeHandler.processSuccess()` where `wlChallengeHandler` is a challenge-handler object that is returned by `WL.Client.createWLChallengeHandler()`

`WL.Client.AbstractChallengeHandler.submitAdapterAuthentication()`

`WL.Client.createProvisioningChallengeHandler()`

## Deprecated JavaScript APIs

### API Element

`WLClient.invokeProcedure(WLProcedureInvocationData invocationData,WLResponseListener responseListener)`, `WL.Client.invokeProcedure(invocationData, options)`,  
`WLClient.invokeProcedure(WLProcedureInvocationData invocationData, WLResponseListener responseListener, WLRequestOptions requestOptions)`, `WLProcedureInvocationResult`

`WLClient.getEnvironment`

`WLClient.getLanguage`

`WL.Client.connect(options)`

## Android APIs

### Discontinued Android API elements

#### API Element

`WLConfig WLClient.getConfig()`

### Migration Path

Use `WLAuthorizationManager.obtainAccessToken` to check connectivity to the server and apply application management rules.

No replacement. You can use an adapter and the `MFP.Server.getAuthenticatedUser` API to manage user preferences.

No replacement.

Use `WL.Logger`.

Use `WLAuthorizationManager.login`. To get started with authentication and security, see the Authentication and Security tutorials.

Use `WLAuthorizationManager.logout`.

Use `WLAuthorizationManager.obtainAccessToken`.

Create a custom adapter for receiving notifications of these events.

Create a custom adapter that provides the same functionality

Use Cordova plug-ins providing this functionality. **Note:** For your information, `device.uuid` from the **cordova-plugin-device** plug-in provides this feature.

Use `WL.Client.getDeviceDisplayName`

Use `WL.Client.setDeviceDisplayName`

Use Cordova plug-ins providing this functionality. **Note:** For your information, the **cordova-plugin-network-information** plug-in provides this feature.

Create a custom adapter to check server availability.

Use `JSONStore` to store encrypted data locally. `JSONStore` is in the **cordova-plugin-mfp-jsonstore** plug-in. For more information, see `JSONStore` (`../application-development/jsonstore`).

Create a custom adapter that provides the same functionality.

You can retrieve the app version property by using the **cordova-plugin-appversion** plug-in.

The version that is returned is the native app version (Android and iOS only).

Use JavaScript client-side push API from the **cordova-plugin-mfp-push** plug-in.

Use `MFP.Push.registerDevice(org.json.JSONObject options, MFP.Push.ResponseListener listener)` to register the device for push and SMS.

Use `WLAuthorizationManager.obtainAccessToken` to obtain a token for the required scope.

Use `WLAuthorizationManager.obtainAccessToken`

No replacement

Use `WLAuthorizationManager.isAuthorizationRequired` and `WLAuthorizationManager.getResourceScope`.

No replacement

No replacement

No replacement

To create a challenge handler for handling custom gateway challenges, use

`WL.Client.createGatewayChallengeHandler(gatewayName)`. To create a challenge handler for handling MobileFirst security-check challenges, use

`WL.Client.createSecurityCheckChallengeHandler(securityCheckName)`.

Use `WL.Client.createSecurityCheckChallengeHandler(securityCheckName)`.

Use `gatewayChallengeHandler.canHandleResponse()` where `gatewayChallengeHandler` is a challenge-handler object that is returned by `WL.Client.createGatewayChallengeHandler()`.

Use `securityCheckChallengeHandler.handleSuccess()` where `securityCheckChallengeHandler` is a challenge-handler object that is returned by `WL.Client.createSecurityCheckChallengeHandler()`.

Implement similar logic in your challenge handler. For custom gateway challenge handlers, use a challenge-handler object that is returned by

`WL.Client.createGatewayChallengeHandler()`. For MobileFirst security-check challenge handlers, use a challenge-handler object that is returned by `WL.Client.createSecurityCheckChallengeHandler()`.

No replacement. Device provisioning is now handled automatically by the security framework.

### Migration Path

Use the `WLResourceRequest` instead. **Note:** The implementation of `invokeProcedure` uses `WLResourceRequest`.

Use Cordova plug-ins providing this functionality. **Note:** For your information, the **device.platform** plug-in provides this feature.

Use Cordova plug-ins providing this functionality.

**Note:** For your information, the **cordova-plugin-globalization** plug-in provides this feature.

Use

`WLAuthorizationManager.obtainAccessToken` to check connectivity to the server and apply application management rules.

### Migration Path

No replacement.

API Element

WLDevice WLClient.getWLDevice(), WLClient.transmitEvent(org.json.JSONObject event), WLClient.setEventTransmissionPolicy(WLEventTransmissionPolicy policy), WLClient.purgeEventTransmissionBuffer()  
WLClient.getUserInfo(realm, key), WLClient.updateUserInfo(options)  
WLClient.getUserInfo(realm, key, WLClient.updateUserInfo(options))

WLClient.checkForNotifications()

WLClient.login(java.lang.String realmName, WLRequestListener listener, WLRequestOptions options), WLClient.login(java.lang.String realmName, WLRequestListener listener)  
WLClient.logout(java.lang.String realmName, WLRequestListener listener, WLRequestOptions options), WLClient.logout(java.lang.String realmName, WLRequestListener listener)

WLClient.obtainAccessToken(java.lang.String scope, WLResponseListener responseListener)

WLClient.getLastAccessToken(), WLClient.getLastAccessToken(java.lang.String scope)  
WLClient.getRequiredAccessTokenScope(int status, java.lang.String header)

WLClient.logActivity(java.lang.String activityType)

WLAutorizationPersistencePolicy

WLSimpleSharedData.setSharedToken(myName, myValue),  
WLSimpleSharedData.getSharedToken(myName),  
WLSimpleSharedData.clearSharedToken(myName)  
WLUserCertificateManager.deleteCertificate(android.content.Context context) BaseChallengeHandler.submitFailure(WLResponse wlResponse)

ChallengeHandler

WLChallengeHandler  
ChallengeHandler.isCustomResponse()

ChallengeHandler.submitAdapterAuthentication

Deprecated Android APIs

API Element

WLClient.invokeProcedure(WLProcedureInvocationData invocationData, WLResponseListener responseListener)  
WLClient.connect(WLResponseListener responseListener),  
WLClient.connect(WLResponseListener responseListener, WLRequestOptions options)

Android APIs depending on the legacy org.apach.http APIs are no longer supported

API Element

org.apache.http.Header[] is now deprecated. Therefore, the following methods are removed:

org.apache.http.Header[] WLResourceRequest.getAllHeaders()

WLResourceRequest.addHeader(org.apache.http.Header header)

org.apache.http.Header[] WLResourceRequest.getHeaders(java.lang.String headerName)

org.apache.http.Header WLResourceRequest.getFirstHeader(java.lang.String headerName)

WLResourceRequest.setHeaders(org.apache.http.Header[] headers)

WLResourceRequest.setHeader(org.apache.http.Header header)

org.apache.http.cookie.CookieStore WLClient.getCookieStore()

WLClient.setAllowHTTPClientCircularRedirect(boolean isSet)

WLHttpRequestListener, WLResourceRequest.send(java.util.HashMap formParameters, WLHttpRequestListener listener), WLResourceRequest.send(org.json.JSONObject json, WLHttpRequestListener listener), WLResourceRequest.send(byte[] data, WLHttpRequestListener listener), WLResourceRequest.send(java.lang.String requestBody, WLHttpRequestListener listener), WLResourceRequest.send(WLHttpRequestListener listener),  
WLClient.sendRequest(org.apache.http.client.methods.HttpUriRequest request, WLHttpRequestListener listener), WLClient.sendRequest(org.apache.http.client.methods.HttpUriRequest request, WLResponseListener listener)

The com.worklight.androidgap.api package provides the Android platform functionality for Cordova apps. In MobileFirst, a number of changes were made to accommodate the Cordova integration.

API Element

The Android activity was replaced with the Android context.

Migration Path

Migration Path

Use Android API or third-party packages for GeoLocation.

No replacement.

No replacement.

Use WLAutorizationManager.obtainAccessToken("", listener) to check connectivity to the server and apply application management rules.

Use AuthorizationManager.login()

Use AuthorizationManager.logout()

Use WLAutorizationManager.obtainAccessToken(String, WLAcessTokenListener) to check connectivity to the server and apply application management rules

Use AuthorizationManager

Use AuthorizationManager

Use com.worklight.common.Logger. For more information, see Logger SDK.

No replacement. To implement authorization persistence, store the authorization token in the application code and create custom HTTP requests.

Use the Android APIs to share tokens across applications.

No replacement

Use BaseChallengeHandler.cancel()

For custom gateway challenges, use GatewayChallengeHandler. For

MobileFirst security-check challenges, use

SecurityCheckChallengeHandler.

Use SecurityCheckChallengeHandler.

se GatewayChallengeHandler.canHandleResponse().

Implement similar logic in your challenge handler. For custom gateway challenge handlers, use GatewayChallengeHandler.

Migration Path

Deprecated. Use WLResourceRequest. **Note:** The implementation of invokeProcedure uses WLResourceRequest.

Use WLAutorizationManager.obtainAccessToken("", listener) to check connectivity to the server and apply application management rules.

Migration Path

Use instead the new Map<String, List<String>>

WLResourceRequest.getAllHeaders() API.

Use instead the new

WLResourceRequest.addHeader(String name, String value) API.

Use instead the new List<String>

WLResourceRequest.getHeaders(String headerName) API.

Use instead the new

WLResourceRequest.getHeaders(String headerName) API.

Instead, use the new

WLResourceRequest.setHeaders(Map<String, List<String>> headerMap) API.

Instead, use the new

WLResourceRequest.setHeaders(Map<String, List<String>> headerMap) API.

Replaced with java.net.CookieStore

getCookieStore WLClient.getCookieStore()

No replacement. MFP Client allows circular redirects.

Removed due to deprecated Apache HTTP Client dependencies. Create your own request to have full control over the request and response.



#### API Element

`static WL.createInstance(android.app.Activity activity)`

`static WL.getInstance()`

#### Migration Path

`static WL.createInstance(android.content.Context context)` creates a shared instance.

`static WL.getInstance()` Gets an instance of the WL class. This method cannot be called before `WL.createInstance(Context)`.

## Objective-C APIs

### Discontinued iOS Objective C APIs

#### API Element

`[WLClient getWLDevice][WLClient transmitEvent:], [WLClient setEventTransmissionPolicy], [WLClient purgeEventTransmissionBuffer]`

`WL.Client.getUserInfo(realm, key), WL.Client.updateUserInfo(options)`

`WL.Client.deleteUserPref(key, options)`

`[WLClient getRequiredAccessTokenScopeFromStatus]`

`[WLClient login:withDelegate:]`

`[WLClient logout:withDelegate:]`

`[WLClient lastAccessToken], [WLClient lastAccessTokenForScope:]`

`[WLClient obtainAccessTokenForScope:withDelegate:], [WLClient getRequiredAccessTokenScopeFromStatus:authenticationHeader:]`

`[WLClient isSubscribedToAdapter:(NSString *) adaptereventSource:(NSString *) eventSource`

`[WLClient - (int) getEventSourceIDFromUserInfo: (NSDictionary *) userInfo]`

`[WLClient invokeProcedure: (WLProcedureInvocationData *) ]`

`WLClient sendHttpRequest:delegate:]`

`[WLClient (void) logActivity:(NSString *) activityType]`

`[WLSimpleDataSharing setSharedToken: myName value: myValue],`

`[WLSimpleDataSharing getSharedToken: myName]],`

`[WLSimpleDataSharing clearSharedToken: myName]`

`BaseChallengeHandler.submitFailure(WLResponse *)challenge`

`BaseProvisioningChallengeHandler`

`ChallengeHandler`

`WLChallengeHandler`

`ChallengeHandler.isCustomResponse()`

`ChallengeHandler.submitAdapterAuthentication`

#### Migration Path

Geolocation removed. Use native iOS or third-party packages for GeoLocation.

No replacement.

No replacement. You can use an adapter and the `MFP.Server.getAuthenticatedUser` API to manage user preferences.

Use `WLAuthorizationManager.obtainAccessTokenForScope`.

Use `WLAuthorizationManager.login`.

Use `WLAuthorizationManager.logout`.

Use `WLAuthorizationManager.obtainAccessTokenForScope`.

Use `WLAuthorizationManager.obtainAccessTokenForScope`.

Use Objective-C client-side push API for iOS apps from the IBM MobileFirst Platform Foundation Push framework

Use Objective-C client-side push API for iOS apps from the IBM MobileFirst Platform Foundation Push framework.

Deprecated. Use `WLResourceRequest` instead.

Use `[WLResourceRequest sendWithDelegate:delegate]` instead.

Removed. Use an Objective C logger.

Use the OS APIs to share tokens across applications.

Use `BaseChallengeHandler.cancel()`.

No replacement. Device provisioning is now handled automatically by the security framework.

For custom gateway challenges, use `GatewayChallengeHandler`. For MobileFirst security-check challenges, use `SecurityCheckChallengeHandler`.

Use `SecurityCheckChallengeHandler`.

Use `GatewayChallengeHandler.canHandleResponse()`.

Implement similar logic in your challenge handler. For custom gateway challenge handlers, use `GatewayChallengeHandler`. For MobileFirst security-check challenge handlers, use `SecurityCheckChallengeHandler`.

## Windows C# APIs

### Deprecated Windows C# API elements - Classes

#### API Element

`ChallengeHandler`

`ChallengeHandler.isCustomResponse()`

`ChallengeHandler.submitAdapterAuthentication`

`ChallengeHandler.submitFailure(WLResponse wlResponse)`

`WLAuthorizationManager`

`WLChallengeHandler`

`WLChallengeHandler.submitFailure(WLResponse wlResponse)`

`WLClient`

`WLErrorCode`

`WLFailResponse`

`WLResponse`

`WLProcedureInvocationData`

`WLProcedureInvocationFailResponse`

`WLProcedureInvocationResult`

`WLRequestOptions`

`WLResourceRequest`

#### Migration Path

For custom gateway challenges, use `GatewayChallengeHandler`. For MobileFirst security-check challenges, use `SecurityCheckChallengeHandler`.

Use `GatewayChallengeHandler.canHandleResponse()`.

Implement similar logic in your challenge handler. For custom gateway challenge handlers, use

`GatewayChallengeHandler`. For MobileFirst security-check challenge handlers, use

`SecurityCheckChallengeHandler`.

For custom gateway challenge handlers, use `GatewayChallengeHandler.ShouldCancel()`. For MobileFirst security-check challenge handlers, use `SecurityCheckChallengeHandler.ShouldCancel()`.

Use `WorklightClient.WorklightAuthorizationManager` instead.

Use `SecurityCheckChallengeHandler`.

Use `SecurityCheckChallengeHandler.ShouldCancel()`.

Use `WorklightClient` instead.

Not supported.

Use `WorklightResponse` instead.

Use `WorklightResponse` instead.

Use `WorklightProcedureInvocationData` instead.

Not supported.

Not supported.

Not supported.

Not supported.

### Deprecated Windows C# API elements - Interfaces

#### API Element

`WLHttpResponderListener`

`WLResponseListener`

`WLAuthorizationPersistencePolicy` Not supported.

#### Migration Path

Not supported.

The response will be available as a `WorklightResponse` object

Not supported.