Deprecated and discontinued features and APIs

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
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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.	Replaced by MobileFirst Studio plug-in for Eclipse empowered by standard and community-base Eclipse plug-ins. You can develop hybrid applications 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 Co MobileFirst Studio plug-in for managing Cordova projects in Eclipse (file:////home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/development/using-mobilefirst-cli-in-eclipse/).
	You can develop adapters with Apache Maven or a maven-enabled IDE such as Eclipse, IntelliJ, and others. For more information about developing ac category (file:////home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/adapters). For more information about using Eclipse as a N Developing Adapters in Eclipse tutorial (file:////home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/adapters/developing-adapter
	Install IBM MobileFirst Foundation Developer Kit to test adapters and applications with MobileFirst Development Server. You can also access MobileFi SDKs if you do not want to download them from Internet-based repositories such as NPM, Maven, Cocoapod, or NuGet. For more information about IB Developer Kit, see The IBM MobileFirst Foundation Developer Kit (file:////home/travis/build/MFPSamples/DevCenter/_site/tutorials/en/foundation/8.0/insconfiguration/development/mobilefirst/).
Skins, Shells, the Setting page, minification, and JavaScript UI elements are discontinued for hybrid applications.	Discontinued. Hybrid applications are developed directly with the Apache Cordova. For more information about replacing skins, shells, the Setting page Removed components and Comparison of Cordova apps developed with v8.0 versus v7.1 and before.
Sencha Touch can no longer be imported into MobileFirst projects for hybrid applications.	Discontinued. MobileFirst hybrid applications are developed directly with the Apache Cordova, and the MobileFirst features are provided as Cordova pl Touch documentation to integrate Sencha Touch and Cordova.
The encrypted cache is discontinued.	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).
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.	Not in v8.0.

Adapters with	Discontinued
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 Migrating to push notifications notifications.
Security: Anti-cross site request forgery (anti-XSRF) realm (wl_antiXSRFRealm) is not required in V8.0.	In V7.1.0, the authentication context is stored in the HTTP session and identified by a session cookie, which is sent by the browser in cross-site request this version is used to protect the cookie transmission against XSRF attacks by using an additional header that is sent from the client to the server. In V8.0.0, the security context is no longer associated with an HTTP session and is not identified by a session cookie. Instead, the authorization is done access token that is passed in the Authorization header. Because the Authorization header is not sent by the browser in cross-site requests, there is no XSRF attacks.

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 securi information about the security flow, see End-to-end authorization flow.
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.
Security: LDAP login. v8.0 does not include any predefined security check to authenticate users with an LDAP server.	Not in v8.0. Replaced by an LTPA security check for WebSphere Application Server or WebSphere Application Server Liberty.
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.	
Authentication configuration of the HTTP adapter. The predefined HTTP adapter does not support the connection as a user to a remote server.	Not in v8.0. Edit the source code of the HTTP adapter and add the authentication code. Use MFP.Server.invokeHttp to add identification tokens to the HTTP requirements.
Security Analytics, the ability to monitor MobileFirst security framework's events with MobileFirst Analytics Console is not in v8.0.	Not in v.8.0.

The event source- based model for push notifications is discontinued and replaced by the tag- based push service model.	Discontinued and replaced by the tag-based push service model.
Unstructured Supplementary Service Data (USSD) support is not in v8.0.	Not in v8.0.
Cloudant is used as a database for MobileFirst Server in not supported in v8.0.	Not in v8.0.
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 serverside 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 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 (https://www.ibm.com/support/knowledgecenter/TLSDK/AndroidGuide1010/CFs/TLAnddLggFrwkInstandImpl/TealeafAndroidLoggingFrameworkInstallat cp=SS2MBL_9.0.2%2F5-0-1-0⟨=en) and Tealeaf iOS Logging Framework Installation and Implementation (https://www.ibm.com/support/knowledgecenter/TLSDK/iOSGuide1010/CFs/TLiOSLggFrwkInstandImpl/TealeafIOSLoggingFrameworkInstallationAndIn cp=SS2MBL_9.0.2%2F5-0-3-1⟨=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

 $\textbf{WL.Server.getActiveUser}, \textbf{WL.Server.getCurrentUserIdentity}, \textbf{WL.Server.getCurrentDeviceIdentity}, \textbf{WL.Server.getCurrentDeviceI$

WL.Server.setActiveUser, WL.Server.getClientId, WL.Server.getClientDeviceContext,

WL.Server.setApplicationContext

Replacement Path

Use

 ${\tt MFP.Server.getAuthenticatedUser}$

instead.

Event Source

API Element Replacement Path

WL.Server.createEventSource Use MFP.Server.getAuthenticatedUser instead.

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.setEventHandlers

WL.Server.createSMSEventHandler

To send SMS messages, use the push service REST API. For more information, see Sending Notifications

(../../notifications/sending-notifications).

WL.Server.createUSSDEventHandlerIntegrate USSD by using third-party services.

Push

API Element

WL.Server.getUserNotificationSubscription, WL.Server.notifyAllDevices,

WL.Server.sendMessage, WL.Server.notifyDevice, WL.Server.notifyDeviceSubscription,

 ${\tt WL.Server.notifyAll}, {\tt WL.Server.createDefaultNotification}, {\tt WL.Server.submitNotification}$

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.

API Element

applicationId)

INotification PushAPI.buildNotification();

UserSubscription PushAPI.getUserSubscription(String eventSource, String userId)

Replacement Path

PushAPI.sendMessage(INotification notification, String To migrate from Event source-based notifications to tag-based notifications, see Migrating to push notifications from event source-based notifications.

Replacement Path

source-based notifications.

unregister the device.

device registrations.

To migrate from Event source-based notifications to tag-based

Use the REST API Push Device Registration (POST) to register

the device. To send and receive SMS notifications, provide the phoneNumber in the payload while invoking the API. Use the REST API Push Device Registration (DELETE) to

Use the REST API Push Device Registration GET) to get the

notifications, see Migrating to push notifications from event

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

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 <code>OAuthSecurity</code> annotation in the <code>com.ibm.mfp.adapter.api</code> 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 Migration Path WL.BusyIndicator, WL.OptionsMenu, Use Cordova plug-ins or HTML 5 elements. WL.TabBar, WL.TabBarItem Handle this event outside of MobileFirst. WL.App.close WL.App.copyToClipboard() Use Cordova plug-ins providing this functionality. WL.App.openUrl(url, target, Use Cordova plug-ins providing this functionality. Note: For your information, the Cordova InAppBrowser plug-in provides this options)

WL. App. overrideBackButton (callback), Use Cordova plug-ins providing this functionality. Note: For your information, the Cordova backbutton plug-in provides this

feature. WL.App.resetBackButton()

WL.App.getDeviceLanguage()

provides this feature

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

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).

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

WL.App.getDeviceLocale()

WL.App.BackgroundHandler

API Element

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

WL. Toast. show(string) Use Cordova plug-ins for Toast.

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

WL.Client.checkForDirectUpdate(options)

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.

ΔPI Flement Migration Path WL.Client.setSharedToken({key: myName, value: myValue}), WL.Client.getSharedToken({key: myName}), No replacement. WL.Client.clearSharedToken({kev: mvName}) Use WLAuthorizationManager.obtainAccessToken to check connectivity to the server WL.Client.isConnected(), connectOnStartup init option and apply application management rules WL.Client.setUserPref(key,value, options), No replacement. You can use an adapter and the MFP.Server.getAuthenticatedUser API WL.Client.setUserPrefs(userPrefsHash, options), to manage user preferences. WL.Client.deleteUserPrefs(key, options) WL.Client.getUserInfo(realm, key), No replacement. WL.Client.updateUserInfo(options) WL.Client.logActivity(activityType) Use WL. Logger Use WLAuthorizationManager.login. To get started with authentication and security, see WL.Client.login(realm, options) the Authentication and Security tutorials. WL.Client.logout(realm, options) Use WLAuthorizationManager.logout. WL.Client.obtainAccessToken(scope, onSuccess, onFailure) Use WLAuthorizationManager.obtainAccessToken. WL.Client.transmitEvent(event, immediate), WL.Client.purgeEventTransmissionBuffer() Create a custom adapter for receiving notifications of these events. 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) Create a custom adapter that provides the same functionality Use Cordova plug-ins providing this functionality. **Note:** For your information, device.uuid WLDevice.getID(options) from the cordova-plugin-device plug-in provides this feature. WL.Device.getFriendlyName() Use WL.Client.getDeviceDisplayName WL.Device.setFriendlyName() Use WL.Client.setDeviceDisplayName Use Cordova plug-ins providing this functionality. Note: For your information, the cordova-WL.Device.getNetworkInfo(callback) plugin-network-information plug-in provides this feature. WLUtils.wlCheckReachability() Create a custom adapter to check server availability. Use JSONStore to store encrypted data locally. JSONStore is in the cordova-plugin-mfp-WL.EncryptedCache jsonstore plug-in. For more information, see JSONStore (../../applicationdevelopment/jsonstore). WL.SecurityUtils.remoteRandomString(bytes) Create a custom adapter that provides the same functionality. You can retrieve the app version property by using the cordova-plugin-appversion plug-in. WL.Client.getAppProperty(property) The version that is returned is the native app version (Android and iOS only) WL.Client.Push.* Use JavaScript client-side push API from the cordova-plugin-mfp-push plug-in. WL.Client.Push.subscribeSMS(alias, adapterName, eventSource, Use MFPPush.registerDevice(org.json.JSONObject options, MFPPushResponseListener listener) to register the device for push and SMS. phoneNumber, options) Use WLAuthorizationManager.obtainAccessToken to obtain a token for the required WLAuthorizationManager.obtainAuthorizationHeader(scope) scope. WLClient.getLastAccessToken(scope) Use WLAuthorizationManager.obtainAccessToken WLClient.getLoginName(), WL.Client.getUserName(realm) No replacement Use WLAuthorizationManager.isAuthorizationRequired and WL.Client.getRequiredAccessTokenScope(status, header) WLAuthorizationManager.getResourceScope. WL.Client.isUserAuthenticated(realm) No replacement WLUserAuth.deleteCertificate(provisioningEntity) No replacement WL.Trusteer.getRiskAssessment(onSuccess, onFailure) No replacement To create a challenge handler for handling custom gateway challenges, use WL.Client.createGatewayChallengeHandler(gatewayName). To create a challenge WL.Client.createChallengeHandler(realmName) handler for handling MobileFirst security-check challenges, use WL.Client.createSecurityCheckChallengeHandler(securityCheckName). WL.Client.createWLChallengeHandler(realmName) Use WL.Client.createSecurityCheckChallengeHandler(securityCheckName). challengeHandler.isCustomResponse() where challengeHandler is a Use gatewayChallengeHandler.canHandleResponse() where challenge-handler object that is returned by gatewayChallengeHandler is a challenge-handler object that is returned by WL.Client.createChallengeHandler() WL.Client.createGatewayChallengeHandler(). wlChallengeHandler.processSucccess() where wlChallengeHandler is a Use securityCheckChallengeHandler.handleSuccess() where challenge-handler object that is returned by securityCheckChallengeHandler is a challenge-handler object that is returned by WL.Client.createWLChallengeHandler() 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.AbstractChallengeHandler.submitAdapterAuthentication()WL.Client.createGatewayChallengeHandler().For MobileFirst security-check challenge handlers, use a challenge-handler object that is returned by WL.Client.createSecurityCheckChallengeHandler() WL.Client.createProvisioningChallengeHandler() No replacement. Device provisioning is now handled automatically by the security framework. 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)

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-pluginglobalization** plug-in provides this feature.

Use

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

Discontinued Android API elements

API Element

WLConfig WLClient.getConfig()

WLDevice WLClient.getWLDevice(), WLClient.transmitEvent(org.json.JSONObject event), WLClient.setEventTransmissionPolicy(WLEventTransmissionPolicy policy),

WLClient.purgeEventTransmissionBuffer()

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

WL.Client.getUserInfo(realm, key, WL.Client.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)

WLAuthorizationPersistencePolicy

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

WLClient.invokeProcedure(WLProcedureInvocationData invocationData,

WLResponseListener responseListener)

WLClient.connect(WLResponseListener responseListener),

WLClient.connect(WLResponseListener responseListener,WLRequestOptions

Migration Path No replacement.

Use Android API or third-party packages for GeoLocation.

No replacement.

No replacement.

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

management rules.

Use AuthorizationManager.login()

Use AuthorizationManager.logout()

Use WLAuthorizationManager.obtainAccessToken(String, WLAccessTokenListener) 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.

options)

Migration Path

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

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

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

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.client.CookieStore WLClient.getCookieStore()

WLClient.setAllowHTTPClientCircularRedirect(boolean isSet)

WLHttpResponseListener, WLResourceRequest.send(java.util.HashMap

formParameters, WLHttpResponseListener listener), WLResourceRequest.send(org.json.JSONObject json, listener), WLResourceRequest.send(java.lang.String requestBody,WLHttpResponseListener listener),

WLResourceRequest.send(WLHttpResponseListener listener), WLClient.sendRequest(org.apache.http.client.methods.HttpUriRequest request,WLHttpResponseListener

 $listener), \verb|WLClient.sendRequest(org.apache.http.client.methods.HttpUriRequest|| request, || request|| request||$ WLResponseListener listener)

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.

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.

ΔPI Flement Migration Path

The Android activity was replaced with the Android

context.

static WL.createInstance(android.app.Activity

activity)

static WL.getInstance()

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: Use Objective-C client-side push API for iOS apps from the (NSString *) eventSource

[WLClient - (int) getEventSourceIDFromUserInfo: (NSDictionary *) Use Objective-C client-side push API for iOS apps from the

userInfol

[WLClient invokeProcedure: (WLProcedureInvocationData *)]

WLClient sendUrlRequest: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.

 $Use \ {\tt WLAuthorization Manager} \ obtain {\tt AccessToken For Scope}.$

Use WLAuthorizationManager login. Use WLAuthorizationManager logout.

Use WLAuthorizationManager obtainAccessTokenForScope.

Use WLAuthorizationManager obtainAccessTokenForScope.

IBMMobileFirstPlatformFoundationPush framework

IBMMobileFirstPlatformFoundationPush framework. Deprecated. Use WLResourceRequest instead.

 $Use \ [\verb|WLResourceRequest| sendWithDelegate:delegate] instead.$

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

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 Migration Path

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

SecurityCheckChallengeHandler.

ChallengeHandler. isCustomResponse() Use GatewayChallengeHandler.canHandleResponse().

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

ChallengeHandler.submitAdapterAuthenticationGatewayChallengeHandler.For MobileFirst security-check challenge handlers, use

SecurityCheckChallengeHandler.

ChallengeHandler.submitFailure(WLResponse For custom gateway challenge handlers, use GatewayChallengeHandler.Shouldcancel(). For MobileFirst wlResponse)

 $security\text{-}check\ challenge\ handlers,\ use\ Security\text{-}Check\ Challenge\ Handler.Should\ Cancel()}.$

WLAuthorizationManager $Use \ {\tt WorklightClient.WorklightAuthorizationManager}\ instead.$

Use SecurityCheckChallengeHandler WLChallengeHandler

WLChallengeHandler.submitFailure(WLResponse

Use SecurityCheckChallengeHandler.ShouldCancel(). wlResponse)

WLClient Use WorklightClient instead. WLErrorCode Not supported.

Use WorklightResponse instead. WLFailResponse WLResponse Use WorklightResponse instead.

Use WorklightProcedureInvocationData instead. WLProcedureInvocationData

WLProcedureInvocationFailResponse Not supported. Not supported. WLProcedureInvocationResult WLRequestOptions Not supported. WLResourceRequest Not supported.

Deprecated Windows C# API elements - Interfaces

API Flement Migration Path WLHttpResponseListener Not supported.

The response will be available as a WorklightResponse object WLResponseListener

WLAuthorizationPersistencePolicyNot supported.