



BlackBerry Dynamics SDK for Android

Release Notes

11.1

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BlackBerry Dynamics SDK for Android version 11.1.0.62

What's new in the BlackBerry Dynamics SDK for Android version 11.1.0.62

Changes to the SDK and software requirements:

Bug fixes to improve regionalization issues. For more information, see the fixed issues below.

BlackBerry Dynamics Launcher Library

This release uses BlackBerry Dynamics Launcher Library version 3.5.1.240.

Fixed issues

Changes to regionalization for BlackBerry Dynamics to enhance secure communications with the BlackBerry Infrastructure. (GD-60435)

Known Limitations

- Users cannot upload files from Google Drive by selecting the file from the native Android file picker. (GD-60021)
- If a user switches from a third-party keyboard to the system keyboard, in some deployment configurations, the application might take a minute to detect the change and remove the **Custom Keyboards Restricted** notification. (GD-57693)

Workaround: By relaunching the app, the notification will be removed and the user will be able to use the system keyboard immediately.

Known Behavior

- The Android runtime permission *POST_NOTIFICATIONS* is no longer required by BlackBerry Dynamics SDK for Android 11.0. However, if permission has been requested by the app and granted by the user, mobile threat detections will be alerted via push notification. For apps still using BlackBerry Dynamics SDK 10.2 or earlier, the end user is prompted to grant this permission after upgrading to Android 13. (GD-58740)
- If a user opens a BlackBerry Dynamics app on an insecure Wi-Fi network while the **Unsafe Wi-Fi detected** compliance action is enabled, they will receive a dialog stating that the application is blocked for this network. If the user opens the network settings on Android 13, the network settings panel will be blank until the user taps the **Settings** button from the panel.

Known issues

- If you use direct references to the BlackBerry Dynamics SDK .aar files in your build.gradle repositories (for example, `compile(name:'android_handheld_platform-8.1.0.57', ext:'aar')`) instead of using Maven linkage (for example, `api "com.blackberry.blackberrydynamics:android_handheld_platform:8.1.0.57"`), errors may occur in the AndroidManifest file in the Gradle caches directory. To resolve this, use Maven linkage or specify `android_handheld_resources` and `android_handheld_platform` in the build.gradle file.

- The Android certificate import API for the BlackBerry Dynamics SDK is no longer supported. BlackBerry recommends using certificates from the Android Native Keystore if it is acceptable that the key material is protected by the device and not by BlackBerry Dynamics.
- If a user is prompted to activate a BlackBerry Dynamics app using their password for another BlackBerry Dynamics app that they have previously activated (also known as Easy Activation), then cancels out of the prompt, the lock screen for the previously activated app displays instead of the screen to enter their activation credentials. (GD-56598)
- If "Allow Android biometric authentication" is enabled in the BlackBerry Dynamics profile, when the user activates a BlackBerry Dynamics app on an Android 12 emulator, fingerprint authentication fails for the app with the error message "Internal error: Retry or restart". (GD-56289)
- If you configured the BlackBerry Dynamics profile to require users to enter their password when a BlackBerry Dynamics app returns to the foreground, on Android 12 devices, the app does not prompt the user for their password when it returns to the foreground. (GD-56162)
- If a user with Android 11 or later is activating a BlackBerry Dynamics app using a QR code and selects the "Only this time" option when prompted to grant permissions, certificate import issues might occur if the app remains in the background for longer than one minute during the import process. BlackBerry recommends that users select the "While using the app" option when prompted. (GD-54972)

Workaround: Instruct users to force close the app and open it again.

- If a BlackBerry Dynamics app uses Kerberos authentication and the app tries to access a web page using an IP address, after the user enters their credentials, the web page does not load as expected and the user is prompted for their credentials again in a loop. (GD-54481)

Workaround: When developing BlackBerry Dynamics apps, do not hard code URLs that use IP addresses. If users can manually enter a URL, instruct users to avoid URLs that use an IP address.

- If an app tries to open a BlackBerry Dynamics app that was not already open using [AppKinetics](#), the BlackBerry Dynamics app might not come to the foreground. (GD-54205)

Workaround: The user can start the BlackBerry Dynamics app and leave it running in the background before performing the AppKinetics operation.

- If a user upgrades a BlackBerry Dynamics app that uses SDK version 9.x or earlier to a new version that uses SDK 10.1 or later, the app does not retain any cookies. (GD-55766)

BlackBerry Dynamics SDK for Android version 11.1

What's new in the BlackBerry Dynamics SDK for Android version 11.1

Changes to the SDK and software requirements:

Feature	Description
Changes to BBWebView support	The following changes to BBWebView are new in this release: <ul style="list-style-type: none">• Users can now upload files from an Android Device Storage or the BBWebView downloads folder. The maximum file size that can be uploaded from Android storage is 45 MB.• The following public functions were added to allow developers to implement a file chooser or get BlackBerry URI's with selected files from the BBWebView downloads folder:<ul style="list-style-type: none">• <code>BBWebView.provideBBDownloadIntent()</code>• <code>BBWebView.getUrisFromIntent()</code>
Enhancements to socket connections	<code>GD_connect()</code> now supports non-blocking mode. If a BlackBerry Dynamics app has a <code>O_NONBLOCK</code> socket flag set for the descriptor, an <code>EINPROGRESS</code> error will be returned to conform with the POSIX standard.
Enhancements to password functionality	Users can now select "Forgot Password" from the Change Password screen.
Enhancements to data leakage prevention (DLP) functionality	On BBWebView with DLP enabled, the sub-menu that appears when text is selected is now limited to the following options: <ul style="list-style-type: none">• Cut• Copy• Paste• Select All

BlackBerry Dynamics Launcher Library

This release uses BlackBerry Dynamics Launcher Library version 3.5.1.240.

Fixed issues

The following issues are fixed in this release:

Videos on a BBWebView app failed to play. (GD-60247)

If a user selected "Forgot Password" for a BlackBerry Dynamics app, unlocked the app using an access key or QR code, and entered a new password, the Forgot Password UI was briefly displayed. (GD-59948)

A BBWebView error where the titles for file upload options did not appear has been resolved. (GD-59732)

A user was prompted for face authentication even though they entered the device password following multiple failed Face ID authentication attempts. (GD-59619)

When a user tapped the "Cancel" button on the Forgot Password UI for a BlackBerry Dynamics app, the user was directed to the previous screen, rather than closing the Forgot Password UI. (GD-59505)

An "Incorrect Password" error appeared during easy activation of a BlackBerry Dynamics app. For more information on easy activation, see [Easy Activation](#) in the BlackBerry Dynamics SDK development guide. (GD-54031)

Users were unable to use easy activation for a BlackBerry Dynamics app while the Change Password UI was active on the app used for activation. (GD-50525)

Known Limitations

- Users cannot upload files from Google Drive by selecting the file from the native Android file picker. (GD-60021)
- If a user switches from a third-party keyboard to the system keyboard, in some deployment configurations, the application might take a minute to detect the change and remove the **Custom Keyboards Restricted** notification. (GD-57693)

Workaround: By relaunching the app, the notification will be removed and the user will be able to use the system keyboard immediately.

Known Behavior

- The Android runtime permission *POST_NOTIFICATIONS* is no longer required by BlackBerry Dynamics SDK for Android 11.0. However, if permission has been requested by the app and granted by the user, mobile threat detections will be alerted via push notification. For apps still using BlackBerry Dynamics SDK 10.2 or earlier, the end user is prompted to grant this permission after upgrading to Android 13. (GD-58740)
- If a user opens a BlackBerry Dynamics app on an insecure Wi-Fi network while the **Unsafe Wi-Fi detected** compliance action is enabled, they will receive a dialog stating that the application is blocked for this network. If the user opens the network settings on Android 13, the network settings panel will be blank until the user taps the **Settings** button from the panel.

Known issues

- If you use direct references to the BlackBerry Dynamics SDK .aar files in your build.gradle repositories (for example, `compile(name:'android_handheld_platform-8.1.0.57', ext:'aar')`) instead of using Maven linkage (for example, `api "com.blackberry.blackberrydynamics:android_handheld_platform:8.1.0.57"`), errors may occur in the AndroidManifest file in the Gradle caches directory. To resolve this, use Maven linkage or specify `android_handheld_resources` and `android_handheld_platform` in the build.gradle file.
- The Android certificate import API for the BlackBerry Dynamics SDK is no longer supported. BlackBerry recommends using certificates from the Android Native Keystore if it is acceptable that the key material is protected by the device and not by BlackBerry Dynamics.
- When you click a web link in BlackBerry Work on Samsung devices, there may be no response and the link may not open in BlackBerry Access. (GD-59172)
- If a user is prompted to activate a BlackBerry Dynamics app using their password for another BlackBerry Dynamics app that they have previously activated (also known as Easy Activation), then cancels out of the prompt, the lock screen for the previously activated app displays instead of the screen to enter their activation credentials. (GD-56598)

- If "Allow Android biometric authentication" is enabled in the BlackBerry Dynamics profile, when the user activates a BlackBerry Dynamics app on an Android 12 emulator, fingerprint authentication fails for the app with the error message "Internal error: Retry or restart". (GD-56289)
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Workaround: The user can start the BlackBerry Dynamics app and leave it running in the background before performing the AppKinetics operation.

Installing or upgrading the software

For complete installation instructions, upgrade guidance, and software requirements, see the [BlackBerry Dynamics SDK for Android Development Guide](#). The Development Guide also provides instructions for implementing the SDK libraries as .aar files that can be published to an internal repository.

If you installed the SDK using Android Studio SDK manager and you made changes to the sample apps, the update might override the sample apps, discarding your changes.

Note: The BlackBerry Dynamics SDK for Android 5.0 and later includes a compliance enhancement to protect against malicious attempts to add a debugger to deployed BlackBerry Dynamics apps. Your options for configuring this feature depend on the version of BlackBerry UEM and the BlackBerry Dynamics SDK. For more information, see [Configure compliance settings so you can debug your app](#) in the BlackBerry Dynamics SDK Development Guide.

Reference for all deprecated interfaces, classes, and methods

This document specifies the interfaces, classes, and methods that were deprecated in this release of the SDK (if any). For a full list of all deprecated objects, view the [API reference for your platform](#) and open the deprecated list in the appendix.

You should plan to stop using any interfaces, classes, and methods that are included in the deprecated list.

Limitations for OkHttp Support

BlackBerry Dynamics SDK for Android supports the OkHttp API. The following table outlines the limitations as of this release:

Note: BlackBerry Dynamics uses OkHttp version 4.9.1.

Limitation	Description
Caching	Caching is not supported in this release.
Proxy	Proxy servers are supported, but there is no API to set a proxy. It will work if proxies are set in UEM, either using a PAC file or manually. If proxy authentication is required, this will be done automatically as is the case for the existing HttpClient API. Otherwise, a 407 HTTP status will be returned.
Authentication	<ul style="list-style-type: none">• Third-party authentication interceptors might support NTLM authentication.• Kerberos authentication using PKINIT or KCD is supported, but Kerberos using user-supplied credentials is not supported.• SPNEGO is not supported.
Timeouts	Timeouts in OkHttp are separated into connection timeouts, read timeouts, and write timeouts. BlackBerry Dynamics OkHttp only supports connection timeouts, and it is not currently possible to change the timeout value.
Certificates	It is not currently possible to disable HTTPS host/peer certificate verification, or to enforce pinned certificates.

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