



BlackBerry Dynamics SDK for Android

Release Notes

11.2

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BlackBerry Dynamics SDK for Android version 11.2.0.13

What's new in the BlackBerry Dynamics SDK for Android version 11.2.0.13

Changes to the SDK and software requirements:

Feature	Description
Support for Play Integrity attestation	<p>Play Integrity attestation is supported and added to the existing SafetyNet attestation library. For more information, see Implementing Play Integrity attestation for BlackBerry Dynamics apps.</p> <p>The BlackBerry Dynamics SDK for Android 11.2 is not compatible with previous versions of the SafetyNet library. BlackBerry Dynamics apps must use the latest SafetyNet library distributed with the BlackBerry Dynamics SDK for Android 11.2 to support Play Integrity attestation. For more information, see the BlackBerry Dynamics SDK for Android API reference.</p>
Overlay detection support	<p>You can now prevent a malicious overlay application from potentially observing a user's password entry by enabling "Prevent password entry if screen overlay detected on Android" in the BlackBerry Dynamics profile in UEM.</p> <p>The user will receive an alert if an overlay is detected, prompting them to close the application that is generating the overlay or revoke its permission to appear on top in the system preferences. Users will be prevented from entering their password and unlocking the application until the overlay is removed. This policy is turned off by default. For more information, see BlackBerry Dynamics profile settings in the UEM documentation.</p>
Enhancements to OkHttp support	<p>You can now use the <code>BBCustomInterceptor</code> to upload files directly from BlackBerry Dynamics file storage. For more information, see the BBCustomInterceptor Class Reference.</p>
AppCompat widgets and automatic view class inflation	<p>This release of the BlackBerry Dynamics SDK for Android provides new AppCompat compatible widgets and a view class inflater to automatically inflate widgets, specified in layout files, into the correct BlackBerry Dynamics widget classes. This avoids the need to recode all of the layout files for your app in order to take advantage of BlackBerry Dynamics' data leakage prevention capability. For more information, see the com.good.gd.widget API documentation.</p>
Enhancements to BBWebView support	<p>The following APIs and classes have been added to <code>BBWebView</code> to enhance authentication capability:</p> <ul style="list-style-type: none"><code>BBWebView.setAuthenticationPreferences()</code>: This method allows you to set the authentication preferences for a <code>BBWebView</code> instance.<code>BBWebView.getAuthenticationPreferences()</code>: This method allows you to get the authentication preferences for a <code>BBWebView</code> instance if they are available.<code>BBHttpAuthHandler.getAuthScheme()</code>: This method allows you to get the authentication scheme information for an HTTP authentication.<code>com.blackberry.bbwebview.BBAuthScheme</code>: This enum class allows you to get the authentication scheme constants for an HTTP authentication. <p>For more information, see the BBWebView API documentation.</p>

BlackBerry Dynamics Launcher Library

This release uses BlackBerry Dynamics Launcher Library version 3.6.0.251

Fixed issues

When unlocking a BlackBerry Dynamics app with fingerprint authentication, the app would accept the fingerprint, but would still request a password before the app would unlock. (GD-61281)

BlackBerry Dynamics apps would crash during authentication while the device was in idle mode and the "Allow Biometrics" profile setting was enabled. (GD-60523)

Known Limitations

On Samsung devices with Android 10, when a user copies color formatted text and pastes it into a non-GDTextView (android.widget.TextView) field, while the DLP policy "Do not allow copying data from non BlackBerry Dynamics apps into BlackBerry Dynamics apps" is turned off, the text will not maintain the color format. (GD-60975)

Users cannot upload files from Google Drive by selecting the file from the native Android file picker. (GD-60021)

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 they upgrade 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. (GD-59357)

Known issues

Play Integrity attestation will fail during app provision on an Android emulator. (GD-61278)

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 you use direct references to the BlackBerry Dynamics SDK .aar files in your build.gradle repositories (for example, `implementation name:'android_handheld_platform-$DYNAMICS_SDK_VERSION', ext:'aar'`) instead of using Maven linkage (for example, `implementation 'com.blackberry.blackberrydynamics:android_handheld_platform:$DYNAMICS_SDK_VERSION'`), 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. (GD-51938)

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. (GD-51742)

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.

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BlackBerry Limited
2200 University Avenue East
Waterloo, Ontario
Canada N2K 0A7

BlackBerry UK Limited
Ground Floor, The Pearce Building, West Street,
Maidenhead, Berkshire SL6 1RL
United Kingdom

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