



## Migration from 3.3.0 to 4.0.1

The following guide is intended to support the migration of your App from version 3.3.0 to version 4.0.1. The main differences between the two versions are related to the error handling and the integrated push functionality.

### Errors

The WDW-SDK version 4.0.1 includes a new error handling mechanism. Please be aware that the WDW-SDK will now stop the monitoring whenever an error has occurred. It is the responsibility of your App to restart the monitoring.

As part of this new error handling the following error codes have been removed; their occurrence and handling can be removed from your App:

- ▶ Starting\_Error
- ▶ Stopping\_Error
- ▶ BB\_Failed\_To\_Init
- ▶ BB\_General\_Error
- ▶ BB\_Empty\_Map
- ▶ BB\_Wrong\_Location
- ▶ GPS\_Access\_Denied
- ▶ Unsupported\_Hardware\_Error
- ▶ Disabled\_Location\_Service
- ▶ Location\_Processing\_Error
- ▶ Json\_Parse\_Error
- ▶ Time\_Format\_Error
- ▶ Missing\_Internet\_Permission
- ▶ Push\_Registration\_Error
- ▶ Push\_Deregistration\_Error
- ▶ Push\_PlayServiceAvailability\_Error

The following new error codes have been introduced; they have to be handled according to the description in the list of errors defined in Section 2 of the **Error Codes**:

- ▶ MissingPermission
- ▶ UnsupportedHardware
- ▶ LocationServiceDisabled
- ▶ PlayServicesNotAvailable

### Push

The integrated push functionality of the WDW-SDK version 4.0.1 has been migrated from GCM to FCM. To migrate an existing integration into your App, the following steps should be followed:

1. Remove the GCM dependency from the build.gradle:

```
implementation 'com.google.android.gms:play-services-gcm:11.8.0'
```

2. Add the new FCM dependency to the build.gradle:

```
implementation 'com.google.firebase:firebase-messaging:17.1.0'
```

3. Add a dependency to the google-play plugin to the build.gradle:

```
buildscript {
    repositories {
        google()
    }
    dependencies {
        classpath 'com.google.gms:google-services:3.2.1'
    }
}
```

4. Apply the google-services plugin at the end of the build.gradle:

```
apply plugin: 'com.google.gms.google-services'
```

5. Add the google-services.json file to your application folder.

6. Remove the senderID argument from the PushConfig class:

```
PushConfig pushConfig = new PushConfig(pushServerURL,
                                       variantID, variantSecret);
```

7. Add the FCM related services for the WDW-SDK to the AndroidManifest.xml:

```
<service
    android:name="com.bosch.wdw.WDWFirebaseInstanceIdService">
    <intent-filter>
        <action android:name="com.google.firebase.INSTANCE_ID_EVENT"/>
    </intent-filter>
</service>
<service
    android:name="com.bosch.wdw.WDWFirebaseMessagingService">
    <intent-filter>
        <action android:name="com.google.firebase.MESSAGING_EVENT"/>
    </intent-filter>
</service>
```

For a complete list of steps required to integrate the WDW-SDK, please have a look at Section 3 in the **Integration How to**.