



Getting Started

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Or the following for Kotlin DSL

```
implementation('com.segment.analytics.kotlin.destinations:firebase:<latest_version>')
```

Using the Plugin in your App

Open the file where you setup and configure the Analytics-Kotlin library. Add this plugin to the list of imports.

```
import com.segment.analytics.kotlin.destinations.firebase.FirebaseDestination
```

Just under your Analytics-Kotlin library setup, call `analytics.add(plugin = ...)` to add an instance of the plugin to the Analytics timeline.

```
analytics = Analytics("<YOUR WRITE KEY>", applicationContext) {  
    this.flushAt = 3  
    this.trackApplicationLifecycleEvents = true  
}  
analytics.add(plugin = FirebaseDestination(applicationContext))
```

Your events will now begin to flow to Firebase in device mode.

Identify

When you call `identify` Segment will map to the corresponding Firebase Analytics calls:

- If there is a `userId` on your `identify` call, Segment triggers `setUserId` using the Firebase SDK
- If there are traits included, Segment will set user properties for each trait you include on the `identify` call

You can use these traits to create audiences and views to analyze your users' behavior.

Note: Google prohibits sending PII to Firebase unless ["robust notice" is given to your app users](#). For iOS apps, some Analytics features, such as audiences and campaign attribution, and some user properties, such as Age and Interests, require the [AdSupport framework](#) to be enabled.

Learn more about [Firebase's reporting dashboard](#) here.

Firestore has strict requirements for User Property names; they must:

- Begin with a letter (not a number or symbol, including an underscore)
- Contain only alphanumeric characters and underscores
- Be no longer than 40 characters

User Property values must be fewer than 100 characters.

You are limited to 25 unique user properties per Firebase Console.

Firebase automatically collects [these user properties](#).

Track

When you call `track` Segment will log the event with Firebase. Firebase automatically tracks [the events listed here](#) and it will still do so when bundling with Segment.

Firebase has a limit of 500 distinctly named events so it pays off to be [intentional in what you track](#).

When you call `track`, Segment maps from the [Segment spec](#) to those that match Firebase's spec. For anything that does not match, Segment will pass the event to Firebase as a custom event. Custom parameters cannot be seen directly in the Firebase Analytics dashboard but they can be used as filters in **Audiences**.

Like with user properties, Segment will perform the following transformations on both your event names and event parameters. Unlike user properties, you do not need to pre-define event parameters in your Firebase dashboard.

- Trims leading and trailing whitespace from property names
- Replaces spaces with underscores
- Trims property names to 40 characters (Android only)

Event parameter values must be fewer than 100 characters.

Event Mappings

Segment adheres to Firebase's semantic event specification and maps the following Segment spec-matching events (left) to the corresponding Firebase events (right):

SEGMENT EVENT	FIREBASE EVENT
Products Searched	<code>search</code>
Product List Viewed	<code>view_item_list</code>
Product Viewed	<code>view_item</code>

SEGMENT EVENT	FIREBASE EVENT
Product Clicked	select_content
Product Shared	share
Product Added	add_to_cart
Product Added To Wishlist	add_to_wishlist
Checkout Started	begin_checkout
Promotion Viewed	present_offer
Payment Info Entered	add_payment_info
Order Completed	purchase
Order Refunded	purchase_refund

Property Mappings

Segment maps the followed Segment spec-matching properties (left) to the corresponding Firebase event parameters (right):

SEGMENT PROPERTY	FIREBASE PROPERTY	ACCEPTED VALUE(S)
category	item_category	(String) "kitchen supplies"
product_id	item_id	(String) "p1234"
name	item_name	(String) "Le Creuset pot"
price	price	(double) 1.0
quantity	quantity	(long) 1
query	search_term	(String) "Le Creuset"
shipping	shipping	(double) 2.0
tax	tax	(double) 0.5
total	value	(double) 3.99 or (long) 3.99
revenue	value	(double) 3.99 or (long) 3.99
order_id	transaction_id	(String) "o555636"
currency	currency	(String) "USD"

Passing Revenue and Currency

Ecommerce events containing "revenue" or "total" must also include the appropriate ISO 4217 "currency" string for revenue data to populate to the Firebase dashboard. If a "currency" value is not included, Segment default to "USD".

```
analytics.track("Order Completed", buildJsonObject {
  put("orderId", "order-123")
  put("revenue", 23.00)
  put("currency", "USD")
});
```

Screen

Segment doesn't map screen events to Firebase - that's because Firebase's SDK collects screen information out of the box for you.

For iOS, you can configure `recordScreenViews` which will automatically track screen views, or pass in a screen manually using a `screen` call. You should be able to disable the Automatic Screen reporting by adding the plist flag `FirebaseScreenReportingEnabled` to `Info.plist` and set its value to `NO` (Boolean).

Google Analytics for Firebase iOS does NOT support the case of manual-only screen reporting. Firebase only supports automatic + manual screen reporting or no screen reporting at all.

Conversion Tracking and Adwords Conversions

Firebase is Google's recommended method for reporting conversions to Adwords. To use Firebase, track the conversion events as you normally would with Segment and Segment will send them through to Firebase.

Troubleshooting

Firebase has great logging. If you are having any issues, you can enable debug mode as outlined [in Google'd Debug view](#) documentation.

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