

# Firestore Database

Non-Visible component

Category	Requires	Version
Google	API 19, Android 4.4 - 4.4.4 KitKat	4

## Overview

Non-visible component that communicates with a Firestore to store and retrieve information.

<b>Permissions</b>	▼
• <code>android.permission.INTERNET</code>	

## Events

### Data Changed

Indicates that the data in the Firestore has changed. Launches an event with the tag and value that have been updated.

Params	
tag	Text
value	Any

### Firestore Error

Indicates that the communication with the Firestore signaled an error.

Params	
message	Text

## First Removed

Event triggered by the "RemoveFirst" function. The argument "value" is the object that was the first in the list, and which is now removed.

Params	
value	Any

## Got Value

Indicates that a GetValue request has succeeded.

Params	
tag	Text
value	Any

## Tag List

Event triggered when we have received the list of known tags. Used with the "GetTagList" Function.

Params	
value	List

## Methods

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### Append Value

Append a value to the end of a list atomically. If two devices use this function simultaneously, both will be appended and no data lost.

Params	
tag	Text
value To Add	Any

### Clear Tag

Remove the tag from Firebase

Params	
tag	Text

### Get Tag List

Get the list of tags for this application. When complete a "TagList" event will be triggered with the list of known tags.

### Get Value

GetValue asks Firebase to get the value stored under the given tag It will pass `valuelIfTagNotThere` to `GotValue` if there is no value stored under the tag.

Params	
tag	Text
value If Tag Not There	Any

## Go Offline

Take the database offline

## Go Online

Take the database online

## Remove First

Return the first element of a list and atomically remove it. If two devices use this function simultaneously, one will get the first element and the the other will get the second element, or an error if there is no available element. When the element is available, the "FirstRemoved" event will be triggered.

Params	
tag	Text

## Store Value

Asks Firebase to store the given value under the given tag.

Params	
tag	Text
value To Store	Any

## Unauthenticate

If you are having difficulty with the Companion and you are switching between different Firebase accounts, you may need to use this function to clear internal Firebase caches. You can just use the "Do It" function on this block in the blocks editor. Note: You should not normally need to use this block as part of an application.

## Properties

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### Default URL

**Text** — **Write** - **Designer**

### Developer Bucket

**Text** — **Write** - **Designer**

Getter for the DeveloperBucket.

### Firebase Token

**Text** — **Read** **Write** - **Designer** **Blocks**

Returns the FirebaseToken from this FirebaseDB.

### Firebase URL

**Text** **Default: *DEFAULT*** — **Read** **Write** - **Designer** **Blocks**

Gets the URL for this FirebaseDB.

### Persist

**Boolean** **Default: *False*** — **Write** - **Designer**

If true, variables will retain their values when off-line and the App exits. Values will be uploaded to Firebase the next time the App is run while connected to the network. This is useful for applications which will gather data while not connected to the network. Note: AppendValue and RemoveFirst will not work correctly when off-line, they require a network connection.

*Note:* If you set Persist on any Firebase component, on any screen, it makes all Firebase components on all screens persistent. This is a limitation of the low level Firebase library. Also be aware that if you want to set persist to true, you should do so before connecting the Companion for incremental development.

## Project Bucket

**Text** — **Read** **Write** - **Designer** **Blocks**

Gets the ProjectBucket for this FirebaseDB.

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Last update: January 26, 2020