

# GoogleDrive

## GoogleDrive Component

Available as of Camel 2.14

The Google Drive component provides access to the [Google Drive file storage service](#) via the [Google Drive Web APIs](#).

Google Drive uses the [OAuth 2.0 protocol](#) for authenticating a Google account and authorizing access to user data. Before you can use this component, you will need to [create an account and generate OAuth credentials](#). Credentials comprise of a clientId, clientSecret, and a refreshToken. A handy resource for generating a long-lived refreshToken is the [OAuth playground](#).

Maven users will need to add the following dependency to their pom.xml for this component:

```
<dependency>
  <groupId>org.apache.camel</groupId>
  <artifactId>camel-google-drive</artifactId>
  <version>2.14-SNAPSHOT</version>
</dependency>
```

## URI Format

The GoogleDrive Component uses the following URI format:

```
google-drive://endpoint-prefix/endpoint?[options]
```

Endpoint prefix can be one of:

- drive-about
- drive-apps
- drive-changes
- drive-channels
- drive-children
- drive-comments
- drive-files
- drive-parents
- drive-permissions
- drive-properties
- drive-realtime
- drive-replies
- drive-revisions

## GoogleDriveComponent

The GoogleDrive Component can be configured with the options below. These options can be provided using the component's bean property configuration of type `org.apache.camel.component.google.drive.GoogleDriveConfiguration`.

Option	Type	Description
accessToken	String	OAuth 2 access token. This typically expires after an hour so refreshToken is recommended for long term usage.
applicationName	String	Google drive application name. Example would be "camel-google-drive/1.0"
clientId	String	Client ID of the drive application
clientSecret	String	Client secret of the drive application
refreshToken	String	OAuth 2 refresh token. Using this, the Google Drive component can obtain a new accessToken whenever the current one expires - a necessity if the application is long-lived.
scopes	List<String>	Specifies the level of permissions you want a drive application to have to a user account. See <a href="https://developers.google.com/drive/web/scopes">https://developers.google.com/drive/web/scopes</a> for more info.

## Producer Endpoints

Producer endpoints can use endpoint prefixes followed by endpoint names and associated options described next. A shorthand alias can be used for some endpoints. The endpoint URI MUST contain a prefix.

Endpoint options that are not mandatory are denoted by []. When there are no mandatory options for an endpoint, one of the set of [] options MUST be provided. Producer endpoints can also use a special option `inBody` that in turn should contain the name of the endpoint option whose value will be contained in the Camel Exchange In message.

Any of the endpoint options can be provided in either the endpoint URI, or dynamically in a message header. The message header name must be of the format `CamelGoogleDrive.<option>`. Note that the `inBody` option overrides message header, i.e. the endpoint option `inBody=option` would override a `CamelGoogleDrive.option` header.

For more information on the endpoints and options see API documentation at: <https://developers.google.com/drive/v2/reference/>

## 1. Endpoint Prefix *drive-about*

---

The following endpoints can be invoked with the prefix `drive-about` as follows:

```
google-drive://drive-about/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
get			com.google.api.services.drive.model.About

### URI Options for *drive-about*

---

Name	Type
------	------

## 2. Endpoint Prefix *drive-apps*

---

The following endpoints can be invoked with the prefix `drive-apps` as follows:

```
google-drive://drive-apps/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
get		appld	com.google.api.services.drive.model.App
list			com.google.api.services.drive.model.AppList

### URI Options for *drive-apps*

---

Name	Type
appld	String

## 3. Endpoint Prefix *drive-changes*

---

The following endpoints can be invoked with the prefix `drive-changes` as follows:

```
google-drive://drive-changes/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
get		changeld	com.google.api.services.drive.model.Change
list			com.google.api.services.drive.model.ChangeList
watch		contentChannel	com.google.api.services.drive.model.Channel

### URI Options for *drive-changes*

---

Name	Type
changeld	String

contentChannel	com.google.api.services.drive.model.Channel
----------------	---

#### 4. Endpoint Prefix *drive-channels*

The following endpoints can be invoked with the prefix `drive-channels` as follows:

```
google-drive://drive-channels/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
stop		contentChannel	

#### URI Options for *drive-channels*

Name	Type
contentChannel	com.google.api.services.drive.model.Channel

#### 5. Endpoint Prefix *drive-children*

The following endpoints can be invoked with the prefix `drive-children` as follows:

```
google-drive://drive-children/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
delete		childId, folderId	
get		childId, folderId	com.google.api.services.drive.model.ChildReference
insert		content, folderId	com.google.api.services.drive.model.ChildReference
list		folderId	com.google.api.services.drive.model.ChildList

#### URI Options for *drive-children*

Name	Type
childId	String
content	com.google.api.services.drive.model.ChildReference
folderId	String

#### 6. Endpoint Prefix *drive-comments*

The following endpoints can be invoked with the prefix `drive-comments` as follows:

```
google-drive://drive-comments/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
delete		commentId, fileId	
get		commentId, fileId	com.google.api.services.drive.model.Comment
insert		content, fileId	com.google.api.services.drive.model.Comment
list		fileId	com.google.api.services.drive.model.CommentList
patch		commentId, content, fileId	com.google.api.services.drive.model.Comment
update		commentId, content, fileId	com.google.api.services.drive.model.Comment

#### URI Options for *drive-comments*

Name	Type
commentId	String
content	com.google.api.services.drive.model.Comment
fileId	String

## 7. Endpoint Prefix *drive-files*

The following endpoints can be invoked with the prefix `drive-files` as follows:

```
google-drive://drive-files/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
copy		content, fileId	com.google.api.services.drive.model.File
delete		fileId	
emptyTrash			
get		fileId	com.google.api.services.drive.model.File
insert		[mediaContent], content	com.google.api.services.drive.model.File
list			com.google.api.services.drive.model.FileList
patch		content, fileId	com.google.api.services.drive.model.File
touch		fileId	com.google.api.services.drive.model.File
trash		fileId	com.google.api.services.drive.model.File
untrash		fileId	com.google.api.services.drive.model.File
update		[mediaContent], content, fileId	com.google.api.services.drive.model.File
watch		contentChannel, fileId	com.google.api.services.drive.model.Channel

### URI Options for *drive-files*

Name	Type
content	com.google.api.services.drive.model.File
contentChannel	com.google.api.services.drive.model.Channel
fileId	String
mediaContent	com.google.api.client.http.AbstractInputStreamContent

## 8. Endpoint Prefix *drive-parents*

The following endpoints can be invoked with the prefix `drive-parents` as follows:

```
google-drive://drive-parents/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
delete		fileId, parentId	
get		fileId, parentId	com.google.api.services.drive.model.ParentReference
insert		content, fileId	com.google.api.services.drive.model.ParentReference
list		fileId	com.google.api.services.drive.model.ParentList

### URI Options for *drive-parents*

Name	Type
content	com.google.api.services.drive.model.ParentReference

fileId	String
parentId	String

## 9. Endpoint Prefix *drive-permissions*

The following endpoints can be invoked with the prefix `drive-permissions` as follows:

```
google-drive://drive-permissions/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
delete		fileId, permissionId	
get		fileId, permissionId	com.google.api.services.drive.model.Permission
getIdForEmail		email	com.google.api.services.drive.model.PermissionId
insert		content, fileId	com.google.api.services.drive.model.Permission
list		fileId	com.google.api.services.drive.model.PermissionList
patch		content, fileId, permissionId	com.google.api.services.drive.model.Permission
update		content, fileId, permissionId	com.google.api.services.drive.model.Permission

### URI Options for *drive-permissions*

Name	Type
content	com.google.api.services.drive.model.Permission
email	String
fileId	String
permissionId	String

## 10. Endpoint Prefix *drive-properties*

The following endpoints can be invoked with the prefix `drive-properties` as follows:

```
google-drive://drive-properties/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
delete		fileId, propertyKey	
get		fileId, propertyKey	com.google.api.services.drive.model.Property
insert		content, fileId	com.google.api.services.drive.model.Property
list		fileId	com.google.api.services.drive.model.PropertyList
patch		content, fileId, propertyKey	com.google.api.services.drive.model.Property
update		content, fileId, propertyKey	com.google.api.services.drive.model.Property

### URI Options for *drive-properties*

Name	Type
content	com.google.api.services.drive.model.Property
fileId	String
propertyKey	String

## 11. Endpoint Prefix *drive-realtime*

The following endpoints can be invoked with the prefix `drive-realtime` as follows:

google-drive://drive-realtime/endpoint?[options]

Endpoint	Shorthand Alias	Options	Result Body Type
get		fileId	
update		[mediaContent], fileId	

### URI Options for *drive-realtime*

---

Name	Type
fileId	String
mediaContent	com.google.api.client.http.AbstractInputStreamContent

## 12. Endpoint Prefix *drive-replies*

---

The following endpoints can be invoked with the prefix *drive-replies* as follows:

google-drive://drive-replies/endpoint?[options]

Endpoint	Shorthand Alias	Options	Result Body Type
delete		commentId, fileId, replyId	
get		commentId, fileId, replyId	com.google.api.services.drive.model.CommentReply
insert		commentId, content, fileId	com.google.api.services.drive.model.CommentReply
list		commentId, fileId	com.google.api.services.drive.model.CommentReplyList
patch		commentId, content, fileId, replyId	com.google.api.services.drive.model.CommentReply
update		commentId, content, fileId, replyId	com.google.api.services.drive.model.CommentReply

### URI Options for *drive-replies*

---

Name	Type
commentId	String
content	com.google.api.services.drive.model.CommentReply
fileId	String
replyId	String

## 13. Endpoint Prefix *drive-revisions*

---

The following endpoints can be invoked with the prefix *drive-revisions* as follows:

google-drive://drive-revisions/endpoint?[options]

Endpoint	Shorthand Alias	Options	Result Body Type
delete		fileId, revisionId	
get		fileId, revisionId	com.google.api.services.drive.model.Revision
list		fileId	com.google.api.services.drive.model.RevisionList
patch		content, fileId, revisionId	com.google.api.services.drive.model.Revision
update		content, fileId, revisionId	com.google.api.services.drive.model.Revision

### URI Options for *drive-revisions*

---

Name	Type
content	com.google.api.services.drive.model.Revision
fileId	String
revisionId	String

## Consumer Endpoints

---

Any of the producer endpoints can be used as a consumer endpoint. Consumer endpoints can use [Scheduled Poll Consumer Options](#) with a `consumer.` prefix to schedule endpoint invocation. Consumer endpoints that return an array or collection will generate one exchange per element, and their routes will be executed once for each exchange.

## Message Headers

---

Any URI option can be provided in a message header for producer endpoints with a `CamelGoogleDrive.` prefix.

## Message Body

---

All result message bodies utilize objects provided by the underlying APIs used by the `GoogleDriveComponent`. Producer endpoints can specify the option name for incoming message body in the `inBody` endpoint URI parameter. For endpoints that return an array or collection, a consumer endpoint will map every element to distinct messages.