

# GoogleCalendar

## GoogleCalendar Component

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Available as of Camel 2.15

### Component Description

The Google Calendar component provides access to [Google Calendar](#) via the [Google Calendar Web APIs](#).

Google Calendar 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-calendar</artifactId>
  <version>2.15.0</version>
</dependency>
```

### URI Format

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The GoogleCalendar Component uses the following URI format:

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

Endpoint prefix can be one of:

- acl
- calendars
- channels
- colors
- events
- freebusy
- list
- settings

### GoogleCalendarComponent

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The GoogleCalendar 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.calendar.GoogleCalendarConfiguration`.

Option	Type	
accessToken	String	OAuth 2 access token. This typically expires after an hour so refreshToken is recommended for long term usage.
applicationName	String	Google calendar application name. Example would be "camel-google-calendar/1.0"
clientId	String	Client ID of the calendar application
clientSecret	String	Client secret of the calendar application
refreshToken	String	OAuth 2 refresh token. Using this, the Google Calendar 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 calendar application to have to a user account. See <a href="https://developers.google.com/google-apps/calendar/auth">https://developers.google.com/google-apps/calendar/auth</a> for more info.
emailAddress	String	Since <b>Camel 2.16.0</b> , the emailAddress of the Google Service Account.
p12FileName	String	Since <b>Camel 2.16.0</b> , the name of the p12 file which has the private key to use with the Google Service Account.

### Producer Endpoints

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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 `CamelGoogleCalendar.<option>`. Note that the `inBody` option overrides message header, i.e. the endpoint option `inBody=option` would override a `CamelGoogleCalendar.option` header.

## 1. Endpoint Prefix *acl*

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The following endpoints can be invoked with the prefix `acl` as follows:

```
google-calendar://acl/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
delete		calendarId, ruleId	
get		calendarId, ruleId	com.google.api.services.calendar.model.AclRule
insert		calendarId, content	com.google.api.services.calendar.model.AclRule
list		calendarId	com.google.api.services.calendar.model.Acl
patch		calendarId, content, ruleId	com.google.api.services.calendar.model.AclRule
update		calendarId, content, ruleId	com.google.api.services.calendar.model.AclRule
watch		calendarId, contentChannel	com.google.api.services.calendar.model.Channel

### URI Options for *acl*

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Name	Type
calendarId	String
content	com.google.api.services.calendar.model.AclRule
contentChannel	com.google.api.services.calendar.model.Channel
ruleId	String

## 2. Endpoint Prefix *calendars*

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The following endpoints can be invoked with the prefix `calendars` as follows:

```
google-calendar://calendars/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
clear		calendarId	
delete		calendarId	
get		calendarId	com.google.api.services.calendar.Calendar
insert		content	com.google.api.services.calendar.Calendar
patch		calendarId, content	com.google.api.services.calendar.Calendar

update		calendarId, content	com.google.api.services.calendar. <i>Calendar</i>
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### URI Options for *calendars*

Name	Type
calendarId	String
content	com.google.api.services.calendar.model.Calendar

## 3. Endpoint Prefix *channels*

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

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

Endpoint	Shorthand Alias	Options	Result Body Type
stop		contentChannel	

### URI Options for *channels*

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

## 4. Endpoint Prefix *colors*

The following endpoints can be invoked with the prefix `colors` as follows:

```
google-calendar://colors/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
get			com.google.api.services.calendar. model. <i>Colors</i>

### URI Options for *colors*

Name	Type
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## 5. Endpoint Prefix *events*

The following endpoints can be invoked with the prefix `events` as follows:

```
google-calendar://events/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
calendarImport		calendarId, content	com.google.api.services.calendar.model.Event
delete		calendarId, eventId	
get		calendarId, eventId	com.google.api.services.calendar.model.Event
insert		calendarId, content	com.google.api.services.calendar.model.Event
instances		calendarId, eventId	com.google.api.services.calendar.model. <i>Events</i>

list		calendarId	com.google.api.services.calendar.model.Events
move		calendarId, destination, eventId	com.google.api.services.calendar.model.Event
patch		calendarId, content, eventId	com.google.api.services.calendar.model.Event
quickAdd		calendarId, text	com.google.api.services.calendar.model.Event
update		calendarId, content, eventId	com.google.api.services.calendar.model.Event
watch		calendarId, contentChannel	com.google.api.services.calendar.model.Channel

## URI Options for *events*

Name	Type
calendarId	String
content	com.google.api.services.calendar.model.Event
contentChannel	com.google.api.services.calendar.model.Channel
destination	String
eventId	String
text	String

## 6. Endpoint Prefix *freebusy*

The following endpoints can be invoked with the prefix *freebusy* as follows:

```
google-calendar://freebusy/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
query		content	com.google.api.services.calendar.model.FreeBusyResponse

## URI Options for *freebusy*

Name	Type
content	com.google.api.services.calendar.model.FreeBusyRequest

## 7. Endpoint Prefix *list*

The following endpoints can be invoked with the prefix *list* as follows:

```
google-calendar://list/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
delete		calendarId	
get		calendarId	com.google.api.services.calendar.model.CalendarListEntry
insert		content	com.google.api.services.calendar.model.CalendarListEntry
list			com.google.api.services.calendar.model.CalendarList
patch		calendarId, content	com.google.api.services.calendar.model.CalendarListEntry

update		calendarId, content	com.google.api.services.calendar.model.CalendarListEntry
watch		contentChannel	com.google.api.services.calendar.model.Channel

### URI Options for *list*

Name	Type
calendarId	String
content	com.google.api.services.calendar.model.CalendarListEntry
contentChannel	com.google.api.services.calendar.model.Channel

## 8. Endpoint Prefix *settings*

The following endpoints can be invoked with the prefix `settings` as follows:

```
google-calendar://settings/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
get		setting	com.google.api.services.calendar.model.Setting
list			com.google.api.services.calendar.model.Settings
watch		contentChannel	com.google.api.services.calendar.model.Channel

### URI Options for *settings*

Name	Type
contentChannel	com.google.api.services.calendar.model.Channel
setting	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 `CamelGoogleCalendar.` prefix.

## Message Body

All result message bodies utilize objects provided by the underlying APIs used by the `GoogleCalendarComponent`. 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.