

# Documentation

Please note that the code provided in this page is *purely* for learning purposes and is far from perfect. Remember to null-check all responses!

## Setup

Add an instance of [OperationsManager](#) to your scene. You will need [OAuth access tokens](#) to authenticate with the operations API. The OAuth permissions required depend on the services you will be using.

## OperationsManager

There's only one method in [OperationsManager](#), with a few variants. The [Request](#) method is used to send requests to the operations API. The following examples will be using the [Gemini API](#) to demonstrate the capabilities of this package.

## Operations.List

Lists service operations that match the specified filter in the request.

*Filters are not guaranteed to work.*

```
using Uralstech.UCloud.Operations;

private async void RunOperationsListRequest(string oauthAccessToken)
{
    Debug.Log("Listing all operations.");

    OperationsListResponse response = await
    OperationsManager.Instance.Request<OperationsListResponse>(oauthAccessToken,
        new OperationsListRequest() // From my testing, filters don't work for this service.
    {
        // This should be replaced with the base URI to the service you are using.
        // For example, if your service's operations endpoint is: abc.com/v1/operations,
        // the URI will be abc.com/v1. If it is abc.com/v1/resource/cba/operations, the
        // URI will be abc.com/v1/resource/cba.
        BaseServiceUri = "https://generativelanguage.googleapis.com/v1",
    });

    Debug.Log($"All operations: {JsonConvert.SerializeObject(response)}");
}
```

Since operations on different services have different result types, there are two versions of `OperationsListResponse`. A non-generic version, which is being used above, [OperationsListResponse](#), and a generic version, in the [Generic](#) namespace, [OperationsListResponse<TOperation>](#), which can be overridden with any type that inherits from [Operation<TMetadata, TResponse>](#).

The non-generic version overrides `OperationsListResponse<TOperation>` with [Operation](#), which uses the [ProtobufObject](#) type as the data. An example of `Operation<TMetadata, TResponse>` being overridden is [GeminiTunedModelCreateResponse](#) <sup>↗</sup> Where `TMetadata` is [GeminiTunedModelCreationOperationMetadata](#) <sup>↗</sup> and `TResponse` is [GeminiTunedModel](#) <sup>↗</sup>.

See [OperationsListRequest](#) for more details.

## Operations.Get

Gets the latest state of a long-running operation.

```
using Uralstech.UCloud.Operations;

private async void RunOperationGetRequest(string oauthAccessToken,
string operationResourceName)
{
    Debug.Log("Getting operation.");

    Operation response = await OperationsManager.Instance.Request<Operation>
(oauthAccessToken,
    new OperationGetRequest(operationResourceName)
    {
        BaseServiceUri = "https://generativelanguage.googleapis.com/v1",
    });

    Debug.Log($"Got operation: {JsonConvert.SerializeObject(response)}");
}
```

You can use [Operation<TMetadata, TResponse>](#) instead of [Operation](#), just like for `OperationsListRequest`.

See [OperationGetRequest](#) for more details.

## Operations.Cancel

Cancels an ongoing long-running operation.

This is not supported for all services.

```

using Uralstech.UCloud.Operations;

private async void RunOperationCancelRequest(string oauthAccessToken,
string operationResourceName)
{
    Debug.Log("Cancelling operation.");

    await OperationsManager.Instance.Request(oauthAccessToken,
        new OperationCancelRequest(operationResourceName)
        {
            BaseServiceUri = "https://generativelanguage.googleapis.com/v1",
        });

    Debug.Log("Operation cancelled.");
}

```

See [OperationCancelRequest](#) for more details.

## Operations.Delete

Deletes an ongoing long-running operation. This may or may not actually stop the operation process.

This is not supported for all services.

```

using Uralstech.UCloud.Operations;

private async void RunOperationDeleteRequest(string oauthAccessToken,
string operationResourceName)
{
    Debug.Log("Deleting operation.");

    await OperationsManager.Instance.Request(oauthAccessToken,
        new OperationDeleteRequest(operationResourceName)
        {
            // generativelanguage.googleapis.com does not support this operation!
            BaseServiceUri = "https://abcdefg.someuri.com/v90",
        });

    Debug.Log("Operation deleted.");
}

```

See [OperationDeleteRequest](#) for more details.