**C# SDK**

**General information**

The C# library exposes all API methods described in the API section.

You can download sources on [GitHub](http://github.com/dailymotion/cloudkey-java).

A master class named CloudKey exposes all objects (eg: [*Media*](https://www.dmcloud.net/doc/api/api-objects-media.html#api-objects-media)) through object attributes.

**Remote methods**

Example of json object

{"fields":["id","media.title","assets.jpeg\_thumbnail\_auto.stream\_url","assets.mp4\_h264\_aac.video\_width","assets.mp4\_h264\_aac.video\_height","assets.source.download\_url"]}

For instance, to call the list method from the CloudKey object

First, you need to create a DCArray, which contains fields

DCArray fields = DCArray.Create().Push("id")

.Push("media.title")

.Push("assets.jpeg\_thumbnail\_auto.stream\_url")

.Push("assets.mp4\_h264\_aac.video\_width")

.Push("assets.mp4\_h264\_aac.video\_height")

.Push("assets.source.download\_url");

Then, you create a DCObject for mapping fields with array

DCObject args = DCObject.Create().Push("fields", fields);

**Local methods**

**File object**

FileUpload()

[*File*](https://www.dmcloud.net/doc/api/api-objects-file.html#api-objects-file)

String urlUpload = cloudKey.FileUpload();

// OR

DCObject result = cloudKey.FileUpload(true, "?", "http://SERVER\_URL/redirect\_url.jsp");

String statusUrl = result.Pull("status");

String uploadUrl = result.Pull("url");

**Media object**

MediaGetEmbedUrl()

This method returns a signed URL to a Dailymotion Cloud player embed (see the API reference for details).

The generated URL is perishable, and access is granted based on the provided security level bitmask.

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| --- | --- |
| **Parameters:** | * **id** (*media ID*) – the id of the new media object. * **seclevel** (*[int](http://docs.python.org/library/functions.html" \l "int" \o "(in Python v2.7))*) – the security level bitmask (default is CloudKey.SECLEVEL\_NONE, see below for details). * **expires** (*[int](http://docs.python.org/library/functions.html" \l "int" \o "(in Python v2.7))*) – the UNIX epoch expiration time (default is new Date().getTime() + 7200 (2 hours from now)). |

The following arguments may be required if the CloudKey.SECLEVEL\_DELEGATE option is not specified in the seclevel parameter, depending on the other options. This is not recommended as it would probably lead to spurious access denials, mainly due to GeoIP databases discrepancies.

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| --- | --- |
| **Parameters:** | * **asnum** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the client’s autonomous system number (default is null). * **ip** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the client’s IP adress (default is null). * **useragent** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the client’s HTTP User-Agent header (default is null). * **countries** (*DCArray*) – the list of country codes you want to allow or block, if the first country is ‘-‘ it means block otherwise it means allow (default is null). * **referers** (*DCArray*) – the list of referers you want to allow (default is null) |

Example:

// Create an embed URL limited only to the AS of the end-user and valid for 1 hour

String embedUrl = cloudKey.MediaGetEmbedUrl(mediaId, (CloudKey.SECLEVEL\_DELEGATE|CloudKey.SECLEVEL\_ASNUM), '', '', null, null, (int)( DateTime.Now.AddHours(1)));

MediaGetStreamUrl()

This method returns a signed URL to a Dailymotion Cloud video stream (see the API reference for details).

The generated URL is perishable, and access is granted based on the provided security level bitmask.

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| **Parameters:** | * **id** (*media ID*) – the id of the new media object. * **asset\_name** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the desired media ASSET\_NAME (default is mp4\_h264\_aac). * **seclevel** (*[int](http://docs.python.org/library/functions.html" \l "int" \o "(in Python v2.7))*) – the security level bitmask (default is CloudKey.SECLEVEL\_NONE, see below for details). * **expires** (*[int](http://docs.python.org/library/functions.html" \l "int" \o "(in Python v2.7))*) – the UNIX epoch expiration time (default is new DateTime.Now.AddHours(2) (2 hours from now)). |

The following arguments may be required if the CloudKey.SECLEVEL\_DELEGATE option is not specified in the seclevel parameter, depending on the other options. This is not recommended as it would probably lead to spurious access denials, mainly due to GeoIP databases discrepancies.

|  |  |
| --- | --- |
| **Parameters:** | * **asnum** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the client’s autonomous system number (default is null). * **ip** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the client’s IP address (default is null). * **useragent** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the client’s HTTP User-Agent header (default is null). * **countries** (*DCArray*) – the list of country codes you want to allow or block, if the first country is ‘-‘ it means block otherwise it means allow (default is null). * **referers** (*DCArray*) – the list of referers you want to allow (default is null) |

MediaCreate()

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| --- | --- |
| **Parameters:** | * **url** (*[str](http://docs.python.org/library/functions.html" \l "str" \o "(in Python v2.7))*) – the url of the media object (optional) * **assets\_names** (*DCArray*) – ASSET\_NAME (see the API media) (optional) * **meta** (*DCObject*) – a hashmap containing meta as keys and values (optional) |

MediaCreate()

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| --- | --- |
| **Parameters:** | * **f** (*System.IO*) – File object * **assets\_names** (*DCArray*) – ASSET\_NAME (see the API media) (optional) * **meta** (*DCObject*) – a hashmap containing meta as keys and values (optional) |