GENESYS™

Genesys Mobile Services API Reference

Storage API

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Storage API

Contents

Overview

Storage is general purpose API that allows users to temporarily store arbitrary data. Data may consist of key/value pairs of strings or binary objects.

API

Create

Allows for the creation of a new storage area in GMS.

Operation

Method	POST		
URL	/genesys/1/storage/**{ttl}**		
Parameter	**Type**	**Mandatory**	**Description**
URI Parameters			
{ttl}	number	yes	The time to live for this data, specified in seconds. The data is automatically deleted after is has been stored for **{ttl}** seconds.
Body: A MultiPart form or a URL encoded form consisting of different items representing the key/value pairs to store.			

Response

A JSON object with the property id, identifying the assigned id for this storage request.

HTTP code	200
HTTP message	OK

Example

The following example stores:

- Key1, Key2, Key3 and FileKey

The time-to-live of the data is 1 hour.

Operation

```
Request URL:http://localhost:8080/genesys/1/storage/3600
Request Method:POST
Status Code:200 OK
Request Headersview source
Accept:*/*
Accept-Charset:ISO-8859-1,utf-8;q=0.7,*;q=0.3
Accept-Encoding:gzip,deflate,sdch
Accept-Language:en-US,en;q=0.8
Connection:keep-alive
Content-Length:13028
Content-Type:multipart/form-data; boundary=----WebKitFormBoundaryy16qocbN6tmPORZL
Host:localhost:8080
Origin:http://localhost:8080
Referer:http://localhost:8080/genesys/resources/storagetest.html
User-Agent:Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/535.7 (KHTML, like Gecko) Chrome/
16.0.912.77 Safari/535.7
Request Payload
------WebKitFormBoundaryy16qocbN6tmPORZL
Content-Disposition: form-data; name="Key1"
Value1
------WebKitFormBoundaryy16qocbN6tmPORZL
Content-Disposition: form-data; name="Key2"
Value2
------WebKitFormBoundaryy16qocbN6tmPORZL
Content-Disposition: form-data; name="Key3"
Value3
------WebKitFormBoundaryy16qocbN6tmPORZL
Content-Disposition: form-data; name="FileKey"; filename="MyPic.png"
Content-Type: image/png
------WebKitFormBoundaryy16qocbN6tmPORZL--
```

Result

The above data is now stored for up to 1 hour with an id of
39a98e24-b03b-4191-b756-1efe8f3b16b8.

```
HTTP 200 OK
{ "id":"39a98e24-b03b-4191-b756-1efe8f3b16b8" }
```

Update

Updates a storage area that has already been created in GMS.

Operation

Method	POST		
URL	/genesys/1/storage/**{id}**/**{ttl}**		
Parameter	**Type**	**Mandatory**	**Description**
URI Parameters			
{id}	string	yes	The id of the allocated storage to be updated.
{ttl}	number	yes	The time to live for this data, specified in seconds. The data is automatically deleted after is has been stored

Method	POST
	for **{ttl}** seconds.

Body: A MultiPart form consisting of different ites representing the key/value pairs to store. This may be sting values or files.

Response

HTTP code	200
HTTP message	OK

Example

The following example updates the keys:

- Key1, Key2, Key3 and FileKey

The time-to-live for all of the keys in this update is 1 hour.

Operation

```
Request URL:http://localhost:8080/genesys/1/storage/b8e8eb60-3f14-493d-90da-0034aca34b55/3600
Request Method:POST
Status Code:200 OK
Request Headersview source
Accept:*/*
Accept-Charset:ISO-8859-1,utf-8;q=0.7,*;q=0.3
Accept-Encoding:gzip,deflate,sdch
Accept-Language:en-US,en;q=0.8
Connection:keep-alive
Content-Length:171539
Content-Type:multipart/form-data; boundary=----WebKitFormBoundaryPu8S1YopPtZq8Z54
Host:localhost:8080
Origin:http://localhost:8080
Referer:http://localhost:8080/genesys/resources/storagetest.html
User-Agent:Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/535.7 (KHTML, like Gecko) Chrome/
16.0.912.77 Safari/535.7
Request Payload
------WebKitFormBoundaryPu8S1YopPtZq8Z54
Content-Disposition: form-data; name="Key1"
Value6
------WebKitFormBoundaryPu8S1YopPtZq8Z54
Content-Disposition: form-data; name="Key2"
Value7
------WebKitFormBoundaryPu8S1YopPtZq8Z54
Content-Disposition: form-data; name="Key3"
Value8
------WebKitFormBoundaryPu8S1YopPtZq8Z54
Content-Disposition: form-data; name="FileKey"; filename="0016_001.pdf"
Content-Type: application/pdf
------WebKitFormBoundaryPu8S1YopPtZq8Z54--
Response Headersview source
Cache-Control:no-cache
no-store
Content-Length:2
Content-Type:application/json
Date:Sat, 04 Feb 2012 02:06:43 GMT
Pragma:no-cache
```

```
Server:Apache-Coyote/1.1
```

Result

The above data is now stored for up to 1 hour with an id of
39a98e24-b03b-4191-b756-1efe8f3b16b8.

```
HTTP 200 OK
```

Query (all keys)

Queries all of the keys in a storage area that has already been created in GMS.

Operation

Method	GET		
URL	/genesys/1/storage/**{id}**		
Parameter	Type	Mandatory	Description
URI Parameters			
{id}	string	yes	The id of the allocated storage to be updated.
Body: Not used			

Response

HTTP code	200
HTTP message	OK

Example

The following example queries all of the keys associated with id
b8e8eb60-3f14-493d-90da-0034aca34b55

Operation

```
Request URL:http://localhost:8080/genesys/1/storage/b8e8eb60-3f14-493d-90da-0034aca34b55
Request Method:GET
```

Result

```
{"Key2":"Value7","Key1":"Value6","Key3":"Value8","FileKey":"http://127.0.0.1:8080/genesys/1/
storage/binary/b8e8eb60-3f14-493d-90da-0034aca34b55/FileKey"
```

Query (one key)

Queries all of the keys in a storage area that has already been created in GMS.

Operation

Method	GET		
URL	/genesys/1/storage/**{id}/{key}**		
Parameter	**Type**	**Mandatory**	**Description**
URI Parameters			
{id}	string	yes	The id of the allocated storage to be updated.
{key}	string	yes	The key of the specificaly requested value
Body: Not used			

Response

HTTP code	200
HTTP message	OK

Example

The following example queries the value of Key1 from the data associated with id b8e8eb60-3f14-493d-90da-0034aca34b55

Operation

```
Request URL:http://localhost:8080/genesys/1/storage/b8e8eb60-3f14-493d-90da-0034aca34b55/Key1
Request Method:GET
```

Result

```
Value1
```

Query (one binary key)

Queries all of the keys in a storage area that has already been created in GMS.

Operation

Method	GET		
URL	/genesys/1/storage/binary/**{id}/{key}**		
Parameter	**Type**	**Mandatory**	**Description**
URI Parameters			
{id}	string	yes	The id of the allocated storage to be updated.
{key}	string	yes	The key of the specificaly requested value

Method	GET
Body: Not used	

Response

HTTP code	200
HTTP message	OK
Body	The file that was stored for the specified key.

Example

The following example queries the value of Key1 from the data associated with id b8e8eb60-3f14-493d-90da-0034aca34b55

Operation

```
Request URL:http://localhost:8080/genesys/1/storage/binary/
b8e8eb60-3f14-493d-90da-0034aca34b55/FileKey
Request Method:GET
```

Delete

Deletes all of the keys in a storage area that has already been created in GMS.

Operation

Method	DELETE		
URL	/genesys/1/storage/**{id}**		
Parameter	**Type**	**Mandatory**	**Description**
URI Parameters			
{id}	string	yes	The id of the allocated storage to be deleted.
Body: Not used			

Response

HTTP code	200
HTTP message	OK

Example

The following example deletes all of the keys associated with id b8e8eb60-3f14-493d-90da-0034aca34b55

Operation

```
Request URL:http://localhost:8080/genesys/1/storage/b8e8eb60-3f14-493d-90da-0034aca34b55
Request Method:DELETE
```

Configuration

This section will describe configuration that is specific to this API.

Samples

Storage API HTML Sample

Notes

The Time-To-Live of the data is expressed as a 32-bit integer in seconds. This gives a max value of around 65 years.

Keys may not begin with an _.