

# **GENESYS**

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### **API** Reference

Context Services 8.5.0

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# Context Services 8.5 API Reference



**Purpose:** To provide detailed description of REST resources and queries available in Context Services 8.5. Each page is presented with out-of-the-box query examples to meet your business needs.

- For further details about API usage, refer to the Context Services Developer's Guide.
- For further details about deployment with GMS and UCS, refer to the Context Services User's Guide.

### Description

This API reference details the list of operations and resources that should help you to create an application on top of Context Services using the REST technology:

- Service management in GMS:
  - Start and stop services, as well as nested state and tasks.
  - · Retrieve events
  - Access nested data available as flexible JSON extensions.
- · Customer profile and interaction management in UCS:
  - · Create and fill in profiles, store interaction data

# List of Operations



Purpose: Entry point of the API Reference.

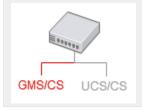
### Contents of the API Reference

As explained in the Migration page, all the service resources are now part of GMS and all the information related to contact information stays in UCS. As a result, the CS API is divided between UCS and GMS.

#### Operations

### Services

### Services API Reference



This icon identifies all the queries related to data managed on the GMS side.

- · Maintenance Operations
  - GET /maintenance/services/stream
  - POST /maintenance/services/files
  - POST /maintenance/purge
- Service Operations
  - POST /services/start
  - POST /customers/\${customer id}/services/\${service id}
  - POST /services/\${service id}/end
  - GET /services/\${service id}
  - DELETE /services/\${service id}

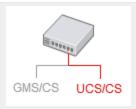
- GET /services/anonymous/\${contact key}/active
- GET /services/anonymous/\${contact key}/completed
- GET /services/anonymous/\${contact key}
- GET /customers/\${customer id}/services/active
- GET /customers/\${customer id}/services/completed
- GET /customers/\${customer id}/services
- PUT /services/\${service id}/extensions/\${ext name}/by/unique
- PUT /services/\${service id}/extensions/\${ext name}/delete/by/unique
- State Operations
  - POST /services/\${service id}/states/\${state id}/end
  - POST /services/\${service id}/states/transition
  - GET /services/\${service id}/states
  - GET /services/\${service id}/states/\${state id}
  - POST /services/\${service id}/states/start
- Task Operations
  - POST /services/\${service id}/tasks/\${task id}/end
  - GET /services/\${service id}/tasks
  - GET /services/\${service id}/tasks/\${task id}
  - POST /services/\${service id}/tasks/start
  - PUT /services/\${service id}/tasks/\${task id}/extensions/\${extension name}
- Service Resources
  - End Event List
  - Extension
  - Start Event List
  - State Transition Event
  - Service
  - State
  - Task

#### **Important**

Because the extensions are now handled as JSON data, all the queries related to service, state, and task extensions are now deprecated.

### Customer Profile

### Customer Profile API Reference



This icon identifies all the queries related to data managed on the UCS side. These queries cover interactions, identification and profile management.

- Profile Operations
  - POST /profiles
  - · GET /profiles
  - POST /profiles/\${customer id}/extensions
  - GET /profiles/\${customer id}
  - PUT /profiles/\${customer id}
    - PUT /profiles/\${customer id}/extensions/\${ext name}/by/unique
    - PUT /profiles/\${customer id}/extensions/\${ext name}/delete/by/unique
    - PUT profiles/\${customer\_id}/merge/\${src\_id}/
- · Schema and Identification Key Operations
  - GET /metadata/profiles/
  - POST /metadata/profiles/extensions
  - GET /metadata/profiles/extensions
  - GET /metadata/identification-keys
  - · POST /metadata/identification-keys
  - GET \${content-type} /metadata
  - DELETE /metadata/profiles/extensions/\${extension-name}
  - DELETE /metadata/identification-keys/\${id\_key-name}
- Interaction Operations
  - GET /customers/\${customer id}/interactions
  - GET /services/\${service id}/interactions
  - GET /interactions/\${interaction id}

# HTTP Response Codes and Errors



**Purpose:** Describes the HTTP responses that your application can receive from UCS.

#### Introduction

The Universal Contact Server returns HTTP status codes and messages for every operation, in the requested format. Status codes match standard HTTP codes, but messages can differ and provide additional details included in the header of the response.

#### **Important**

Additional result and error codes may be returned due to external web servers and layers involved in your operations.

### Read Log Lines

Log lines are compliant with the following syntax:

```
14:33:39.485[1] Trc[2] 29998 [let-3851106] 2010-04-02[3] 14:33:39[3] 127.0.0.1[4] 8080[5] GET[6] /cv/server/status[7] - 200[8] - 0 2[9] http://localhost:8080[10] Apache-HttpClient/4.0-beta2 (java 1.5)[11] -
```

- [1] = timestamp
- [2] = loglevel
- [3] = date and time when the request was received
- [4] = ip address
- [5] = server port
- [6] = http method
- [7] = requested url
- [8] = http response code
- [9] = execution time in ms
- [10] = called host/port
- [11] = user agent making the call

### Successful Result

A successful response to a request is marked by HTTP Status Code 200 (OK). In that case, your application may get additional information in the header and the body of the response. Refer to the Response section of your operation's page to get the detailed list of returned information. Questions about the returned content can be submitted as comments in this wiki. The following table lists the standard HTTP codes used by Context Services for a successful response.

#### Successful results

Code	Title	Description
200	OK	Success!
201	Created	The request has been fulfilled and resulted in a new resource being created.
204	No Content	The operation was successful and returned with no content.

#### Errors

For responses with HTTP status code 4xx or 5xx, the response body contains an application-specific description of the error instead of a representation of the requested resource. Context Services errors consist of an application-specific error code and description, and are formatted in JSON as follows:

```
error = {
   "http_method" : "POST",
   "title" : "bad parameter",
   "description" : "bad parameter 'server mode' reason : server mode has not a correct value
   'something'",
   "code" : 4020,
   "uri" : "http://localhost:8080/server/mode"
}
```

The following table lists the specific errors that operations can encounter. This list is not restrictive; additional error codes could be returned due to external web servers and layers involved:

#### **Errors**

Code	Title	Description
303	See Other	General error which can occur if your application refers to a URI which moved, due to API changes.
400	Bad Request	General error which can be one of the following reasons:  • Missing required parameter.
	Bud request	<ul> <li>Parameter value of unexpected type.</li> </ul>

Code	Title	Description
		<ul> <li>Invalid object syntax<ref name="javascript"&gt;If you used JavaScript objects in your operation's input..</ref </li> </ul>
		<ul> <li>Missing required attribute<ref name="javascript"/&gt;.</ref </li> </ul>
401	Not Authorized	Credentials are missing or incorrect, or the given user is not allowed to execute a given service (such as an administrative service method that changes the profile schema).
		The operation is forbidden and the reason is specified in the error message. This error is returned in the following cases:
		<ul> <li>Attempt to query customer profile or service information when the server is in Maintenance Mode.</li> </ul>
403 <ref name="r400">Not available for now.</ref>	Forbidden	<ul> <li>Attempt to alter the schema while the server is in Production Mode.</li> </ul>
		<ul> <li>Attempt to add customer profiles prior to the definition of a profile schema.</li> </ul>
		<ul> <li>Attempt to change the server mode times out, due to maintenance operations or schema modifications to complete.</li> </ul>
404	Not Found	The specified URI is invalid, or the requested resource (such as a customer, service, state, task, extension, or identification key) does not exist.
405	Method Not Allowed	Returned when an unsupported operation is requested. For instance, if a resource supports only PUT and GET operations, a POST request on this resource returns this error.
415	Unsupported Media Type	In the header of your request, Content- Type is not set to a valid value. Most operations of Context Services support only "application/json". Check the

Code	Title	Description
		operation description in the API.
500	Internal Server Error	An unexpected error occurred in UCS (for instance, a runtime exception). The error message suggests to forward logs to Genesys Customer Support.
502 <ref>Context Services is not responsible for this message. This error may occur due to external proxies or cache involved in your operation.</ref>	Bad Gateway	Returned when one or more of the backend systems required to fulfill the response (the CV database or UCS, for example) are either unavailable or returned an error.
503	Service Unavailable	<ul> <li>UCS is unable to process the given request. Example situations include:</li> <li>Requests on a whole, or for a specific client/tenant/role, are being throttled.</li> <li>The server is switching from production to maintenance mode, or vice versa, and does not accept requests for the moment.</li> </ul>

<sup>&</sup>lt;references />

# Unauthorized Strings



Specifies the list of strings that your application cannot use to create resources and schemas.

#### Returned Error

Context Services operations enable your application to create resources, schemas, and extensions. However, the keywords identified on this page should not be used to create or fill in attribute values. If your application does use one of the reserved keywords in PUT or POST operations, then a HTTP 400 Bad Request is returned with a "bad parameter" message in the following format:

bad parameter '\${parameter-name}' reason: '\${unauthorized-keyword}' keyword is not authorized.

For instance, if a PUT operation used the 'Select' keyword as a field value for the parameter 'name', your application receives the following message:

bad parameter 'name' reason : 'Select' keyword is not authorized.

### Keywords Reserved to Context Services

- extension
- none
- profile
- service
- state
- task

### Keywords Reserved to Database

- alter
- by
- comment
- · constraint
- create

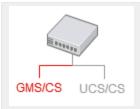
- cursor
- database
- delete
- from
- having
- identity
- index
- inner
- insert
- is
- join
- left
- null
- order
- outer
- prepare
- primary
- procedure
- return
- right
- select
- set
- size
- table
- truncate
- union
- update
- when
- where

# Type Keywords

- bigint
- binary

- bit
- blob
- boolean
- char
- clob
- currency
- date
- datetime
- decimal
- double
- float
- int
- integer
- long
- longvarbinary
- money
- nchar
- number
- numeric
- real
- smalldatetime
- smallint
- smallmoney
- string
- time
- timestamp
- tinyint
- varbinary
- varchar
- varchar2

## GMS Service API



This icon identifies all the queries related to data managed on the GMS side. These queries cover service management.

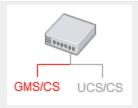
- Service Resources
  - End Event List: List of the end events that your application can receive if a service, state, or task is terminated.
  - Extension: JSON extension for the service API.
  - State Transition Event: Your application can receive this event if a service performs a transition between two states.
  - Service: The service resource, which is a container for nested states and tasks.
  - State: The state resource.
  - Start Event List: List of the start events that your application can receive if a service, state, or task is started.
  - Task: The task resource.
- Maintenance Operations
  - GET /maintenance/services/stream
  - POST /maintenance/services/files
  - POST /maintenance/purge
- · Service Operations
  - POST /services/start
  - POST /customers/\${customer id}/services/\${service id}
  - POST /services/\${service id}/end
  - GET /services/\${service id}
  - DELETE /services/\${service id}
  - GET /services/anonymous/\${contact key}/active
  - GET /services/anonymous/\${contact key}/completed
  - GET /services/anonymous/\${contact key}
  - GET /customers/\${customer id}/services/active
  - GET /customers/\${customer id}/services/completed
  - GET /customers/\${customer id}/services

- PUT /services/\${service id}/extensions/\${ext name}
- · State Operations
  - POST /services/\${service id}/states/\${state id}/end
  - POST /services/\${service id}/states/transition
  - GET /services/\${service id}/states
  - GET /services/\${service id}/states/\${state id}
  - POST /services/\${service id}/states/start
  - PUT /services/\${service id}/states/\${state id}/extensions/\${ext name}
- · Task Operations
  - POST /services/\${service id}/tasks/\${task id}/end
  - GET /services/\${service id}/tasks
  - GET /services/\${service id}/tasks/\${task id}
  - POST /services/\${service id}/tasks/start
  - PUT /services/\${service id}/tasks/\${task id}/extensions/\${extension name}

#### **Important**

Because extensions are replaced with flexible JSON data on the GMS side, all resources and requests specific to extensions are deprecated for services, states, and tasks.

# Service Operations



**Purpose:** Groups the operations that your application can create for both services, states, tasks, and interaction resources.

- Maintenance Operations
  - GET /maintenance/services/stream
  - POST /maintenance/services/files
  - POST /maintenance/purge
- Service Operations
  - POST /services/start
  - POST /customers/\${customer id}/services/\${service id}
  - POST /services/\${service id}/end
  - GET /services/\${service id}
  - DELETE /services/\${service id}
  - GET /services/anonymous/\${contact key}/active
  - GET /services/anonymous/\${contact key}/completed
  - GET /services/anonymous/\${contact key}
  - GET /customers/\${customer id}/services/active
  - GET /customers/\${customer id}/services/completed
  - GET /customers/\${customer id}/services
  - PUT /services/\${service id}/extensions/\${ext name}
- State Operations
  - POST /services/\${service id}/states/\${state id}/end
  - POST /services/\${service id}/states/transition
  - GET /services/\${service id}/states
  - GET /services/\${service id}/states/\${state id}
  - POST /services/\${service id}/states/start
  - PUT /services/\${service id}/states/\${state id}/extensions/\${ext name}
- Task Operations

- POST /services/\${service id}/tasks/\${task id}/end
- GET /services/\${service id}/tasks
- GET /services/\${service id}/tasks/\${task id}
- POST /services/\${service id}/tasks/start
- PUT /services/\${service id}/tasks/\${task id}/extensions/\${extension name}

### **Important**

Because extensions are replaced with flexible JSON data on the GMS side, all resources and requests specific to extensions are deprecated for services, states, and tasks.

### Associate Service



### Description

Your application can use this operation after the service was created with the Start Service operation to associate an Anonymous Service with a customer, or to associate the service with a different customer. This operation overrides prior associations. For example:

- 1. Associate 'service 1' with 'customer 1'
- 2. Associate 'service 1' with 'customer 2'

Result: 'service 1' no longer appears in the active or completed service history of 'customer 1'. See Query Services for further information. This operation can also update some fields of the service resource in the body of the request. In 8.0.2, your application can specify values for extensions (single-valued and multi-valued). If your application already recorded a value or a set of values for a given extension, the previous record is replaced with the new one.

### Operation

#### **Prerequisites** The service is started, see Start Service.

#### Associate a service with a customer

ID	CV.WS.SRV.2		
Method	POST		
URL	{base_uri}/customers/ <b>\${customer_id}</b> /services/ <b>\${service_id}</b>		
Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${customer_id}	string	yes	The ID of the customer.
\${service_id}	integer	yes	The ID of the service.
<b>Optional Body:</b> Service Start Event <ref> This operation's body can include some fields of the Service Start Event for update (for instance, the interaction ID or the resource ID).</ref>			
service_type	long or string	no	The unique ID associated with the type

ID	CV.WS.SRV.2		
			of service, typically the DB ID of a value in the Service Type Business Attribute.  Refer to Configuration Options for more details on Business
			Attribute mapping.
session_id	string	no	The ID of the related session, for instance, the orchestration session, or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
			The unique ID associated with the type or class <ref name="business"></ref>
application_type	long or string	no	Refer to Configuration Options for more details on Business Attribute mapping. of application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (e.g. Genesys DB ID) for the application issuing the service event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (e.g. GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:

ID	CV.WS.SRV.2		
			<ul> <li>the Genesys DB ID of a specific GVP or orchestration platform.</li> <li>the DB ID of a given agent, according to the context.</li> </ul>
media_type	long or string	no	The media type <ref name="business"/&gt; applicable to the given service/state/task, for instance, e-mail, voice, chat, etc.</ref 
est_duration	integer	no	The estimated service/ state/task duration in seconds.
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of milliseconds, using the ISO 8601 <pre>ISO 8601</pre> ref name="ISO 8601">http://en.wikipedia.org wiki/ISO_8601 representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS] If the application does not specify this timestamp, the server does it when the event is processed.
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP Title	OK

### Example

#### **Operation**

The following code sample associates the customer with a service, and specifies attached data as json arrays for "Feedback" and "Satisfaction".

```
POST http://localhost:8080/genesys/1/cs/customers/0004Va58A92T0018/services/1500
{
   "timestamp": "2009-05-12T12:05:12.145Z",
   """ "322ABCAADE11259ACF",
 "interaction_id": "123ABCAADFJ1259ACF",
 "media_type": 1,
"resource_id": 5005,
 "resource_type": 2,
 "disposition": 10,
 "Feedback":
 {
            "FeedbackType": "survey",
           "rating":7,
"notes":"warm welcome at frontdesk, thanks for the nice trip"
 "Satisfaction": [
  {
            "rating":2,
            "pertinence":8,
            "useful":true,
            "place": "Terranova mexico resort"
  {
           "rating":8,
            "pertinence":4,
           "useful":false,
"place":"Fancy resort Paris"
  }
```

#### Result

200 OK

# Complete Service



### Description

Terminates the given service. Your application can update service information in the body of this operation. In 8.5.0, your application can attach data to the service by adding key-value pairs in JSON format. If your application already recorded attach data, the previous attached data are replaced with the new ones.

### Operation

#### **Complete a Service**

ID	CV.WS.SRV.3		
Method	POST		
URL	/genesys/1/cs/services/\${	service_id}/end	
Field Name	Туре	Mandatory	Description
URI Parameter			
\${service_id}	integer	yes	In the request URI, the unique ID of the service.
<b>Body:</b> Service End Event-resource.	<ref>The body of this opera</ref>	ation corresponds to the Ser	rvice End Event
session_id	string	no	The ID of the related session (for instance, the orchestration session or any other business session). Limited to 32 characters.
interaction_id	string	no	The ID of the interaction at the service event's creation. Limited to 50 characters.
application_type	long or string	no	The unique ID associated with the type

ID	CV.WS.SRV.3		
			or class <ref name="business">  Refer to Configuration Options for more details on Business Attribute mapping.</ref> of application which issued the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The Genesys DB ID for the application which issues the service event, such as a GVP VoiceXML application, Orchestration SCXML application, etc.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource providing the service (e.g. GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • The Genesys DB ID of a specific GVP or orchestration platform  • The DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"/&gt; applicable to the given service, such as e-mail, voice, chat, etc.</ref 
disposition	long or string	no	The unique ID for the business disposition <ref name="business"></ref> assigned to the given service. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions.

ID	CV.WS.SRV.3		
disposition_desc	string	no	The text description which provides additional context on the business disposition.
timestamp	date/time	no	The UTC time at which the service event was raised, with a precision of milliseconds, using the ISO 8601 <pre>ref name="iso8601"&gt;See http://en.wikipedia.org/wiki/ISO_8601</pre> representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS
		Important  If the application does not specify this timestamp, the server adds it when the service event is processed.	
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	204
HTTP Title	No Content

### Example

#### **Operation**

```
POST http://localhost:8080/genesys/1/cs/services/36981723/end {
   "timestamp": "2009-05-12T12:05:12.145Z",
   "interaction_id": "123ABCAADFJ1259ACF",
```

```
"media_type": 1,
"resource_id": 5005,
"resource_type": 2,
"disposition": 10,
"disposition_desc": "SUCCESS"
"Feedback":
{
        "FeedbackType":"survey",
        "rating":7,
        "notes":"warm welcome at frontdesk, thanks for the nice trip"
},
"Satisfaction": [
{
        "rating":2,
        "pertinence":8,
        "usefull":true,
        "place":"Terranova mexico resort"
},
{
        "rating":8,
        "pertinence":4,
        "usefull":false,
        "place":"Fancy resort Paris"
}
```

#### Result

204 No Content

# Complete State



### Description

This operation terminates the state and updates its information with the body content.

### Operation

#### **Completes the state**

ID	CV.WS.SRV.6			
Method	POST			
URL	/genesys/1/cs/services/\${	/genesys/1/cs/services/ <b>\${service_id}</b> /states/ <b>\${state_id}</b> /end		
Field Name	Туре	Mandatory	Description	
<b>URI Parameters</b>				
\${service_id}	integer	yes	The unique 64-bit ID of the related service.	
\${state_id}	integer	yes	The 32-bit ID of the state to complete.	
<b>Body:</b> State End Event <ref>This body can contain fields from the State End Event resource.</ref>				
session_id	string	no	The ID of the related session (for instance, the orchestration session or any other business session). Limited to 32 characters.	
interaction_id	string	no	The ID of the interaction at the service event's creation. Limited to 50 characters.	
application_type	long or string	no	The unique ID associated with the type or class <ref< td=""></ref<>	

ID	CV.WS.SRV.6		
			name="business">
			Refer to Configuration Options for more details on Business Attribute mapping. of application which issued the state event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The Genesys DB ID for the application which issues the state event, such as a GVP VoiceXML application, Orchestration SCXML application, etc.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource providing the related service (e.g. GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the related service. For instance:  • The Genesys DB ID of a specific GVP or orchestration platform  • The DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given state, such as e-mail, voice, chat, etc.
disposition	long or string	no	The unique ID for the business disposition <ref name="business"></ref> assigned to the given state. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions.

ID	CV.WS.SRV.6		
disposition_desc	string	no	The text description which provides additional context on the business disposition.
timestamp	date/time	no	The UTC time at which the service event was raised, with a precision of milliseconds, using the ISO 8601 <ref name="iso8601">See http://en.wikipedia.org/wiki/ISO_8601</ref> representation: [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [SS]  Important If the application does not specify this timestamp, the server adds it when the service event is processed.
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK

### Example

#### Operation

The following sample completes a state and updates the associated single-valued extension "Feedback". It assumes that you are using integers for values.

POST http://localhost:8080/genesys/1/cs/services/6739/states/5362/end
{

```
"interaction_id":"00001a57JGQ00BVS",
"disposition": 10,
"disposition_desc": "SUCCESS",
   "application_type":400,
   "application_id":40,
   "resource_type":200,
   "resource_id":20,
   "media_type":2,
   "Feedback":
   {
      "FeedbackType":"survey",
      "rating":7,
      "notes":"warm welcome at frontdesk, thanks for the nice trip"
   }
}
```

#### Result

200 OK

#### Operation

The following sample completes a state and updates the associated single-valued extension "Feedback". It assumes that you configured business values, which allow string values.

```
POST /services/6739/states/5362/end
{
    "interaction_id":"00001a57JGQ00BVS",
    "disposition": 10,
    "disposition_desc": "SUCCESS",
    "application_type":"customer_online_survey",
    "application_id":40,
    "resource_type":"html",
    "resource_id":20,
    "media_type":"webform",
    "Feedback":
    {
        "FeedbackType":"survey",
         "rating":7,
         "notes":"warm welcome at frontdesk, thanks for the nice trip"
     }
}
```

#### Result

200 OK

#### Operation

The following sample completes a state and updates the associated single-valued extension "Feedback" and multi-valued extension "Satisfaction".

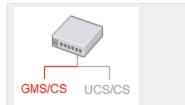
```
POST http://localhost:8080/genesys/1/cs/services/6739/states/5362/end
{
    "interaction_id":"00001a57JGQ00BVS",
    "disposition": 10,
    "disposition_desc": "SUCCESS",
    "application_type":"customer_online_survey",
    "application_id":40,
    "resource_type":"html",
    "resource_id":20,
    "media_type":"webform",
```

```
"FeedbackType":"survey",
    "rating":7,
    "notes":"warm welcome at frontdesk, thanks for the nice trip"
},
"Satisfaction": [
{
    "rating":2,
    "pertinence":8,
    "usefull":true,
    "place":"Terranova mexico resort"
},
{
    "rating":8,
    "pertinence":4,
    "usefull":false,
    "place":"Fancy resort Paris"
}
]
```

#### Result

200 OK

# Complete Task



POST /genesys/1/cs/ services/\${service\_id}/tasks/\${task\_id}/end

### Description

This operation completes the task of a given type for the given service. The type is one of the enumerated values recorded for the corresponding business attribute. See Business Attributes in Context Services for further details.

- UCS assigns auto-incrementing identifiers to tasks, similar to the case of services and tasks.
- States and tasks are assigned 32-bit identifiers.

### Operation

ID	CV.WS.SRV.9		
Method	POST		
URL	/genesys/1/cs/services/\${	service_id}/tasks/\${task	_id}/end
Field Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	integer	yes	The unique 64-bit ID of the service.
\${state_id}	integer	no	The unique 32-bit ID of the state.
\${task_id}	integer	yes	The unique 32-bit ID of the task.
<b>Body:</b> Task End Event <ref>This body contains fields from the Task End Event resource.</ref>			
session_id	string	no	The ID of the related session, for instance, the orchestration session, or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by

ID	CV.WS.SRV.9		
			other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business">Refer to Configuration Options for more details on Business Attribute mapping.</ref> of application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (e.g. Genesys DB ID) for the application issuing the event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (e.g. GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given task, for instance, e-mail, voice, chat, etc.
disposition	long or string	no	The unique ID for the business disposition <ref< td=""></ref<>

ID	CV.WS.SRV.9		
			name="business"/> assigned to the given service/state/task. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions.
disposition_desc	string	no	The text description which provides additional context on the business disposition.
timestamp	date/time	no	The UTC time at which the service event was raised, with a precision of milliseconds, using the ISO 8601 <pre>ref name="iso8601"&gt;See http://en.wikipedia.org/wiki/ISO_8601 // wiki/ISO_8601 // representation: [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [SSS]  Important If the application does not specify this timestamp, the server adds it when the service event is processed.</pre>
<extension key=""></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	204
HTTP message	No Content

# Example

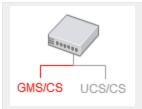
### **Operation**

```
POST http://localhost:8080/genesys/l/cs/services/95/tasks/3/end
{
    "interaction_id":0000CSS0FXZUP6UR,
    "state_id":24,
    "disposition": 10,
    "disposition_desc": "SUCCESS",
    "Survey":
    {
        "url":"http://ourServer/storage/userAnswers",
        "question1":7,
        "question2":true,
        "question3":"will be better with cable tv and on-demand video"
},
    "Proposal": [
        {
            "car type":"cabriolet",
            "price":25 000,
            "seats":2,
            "comments":"200 cv, hardtop"
        },
        {
            "car type":"S.U.V.",
            "price":70 000,
            "seats":8,
            "comments":"4wd, leather seats"
        }
    ]
}
```

#### Result

204 No Content

# Delete Service By ID



DELETE /services/\${service\_id}

# Description

Enables your application to delete a service if its ID is known.

### **Important**

Your appalication needs a WRITE role to perform this request.

# Operation

Method	DELETE		
URL	/genesys/1/cs/services/ <b>\${service_id}</b>		
Field Name	Type Mandatory Description		
URI Parameters			
\${service_id}	integer	yes	The service ID.

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK

<references />

# Example

**Operation** The following operation deletes the given service with its active states and tasks.

DELETE http://localhost:8080/genesys/1/cs/services/361-a3793cef-d559-4f9f-a95d-64555a4ba371

#### Result

200 OK

In case of error, the result would have been:

```
400 Bad Request
{
    "message": "There are no service found for : 361-a3793cef-d559-4f9f-a95d-64555a4ba371",
    "exception": "com.genesyslab.gsg.services.contextservices.exceptions.NotFoundException"
}
```

# Export Services to JSON Stream by Date



### Description

Your application can use this operation to export service data to a JSON stream for a given time range. You can filter the list of returned services according to their date, inner state, or even events. The service information is returned in the response's body and can include service information in addition to service IDs.

See also the export features page for further details about filters and usage of this query.

### **Important**

According to the amount of data to return, in particular, if you include service information, this query can take long to provide your application with a response. In this case, you should rather export a list of service IDs, then use the standard Query Service by ID to retrieve information.

### Operation

#### **Export services to a JSON stream**

Method	GET			
URL	/genesys/1/cs/maintenance/services/stream			
Name	Type Mandatory Description			
<b>URI Parameters</b>	URI Parameters			
time_from	date/time[1]	yes	Filters the service IDs which match the event and/or state filters starting from the given date/time.	

Method	GET		
			Example: 2014-09-02T08:00:00.000Z
time_to	date/time[1]	no	Filters the service IDs which match the event and/or state filters ending to the given date/time.  By default, current time is taken as end range. Example: 2014-09-02T08:00:00.000Z
filter_events	any, started, completed	no	Filters on either types of service event occurrence.  • any (default): The response includes the services for which an event occurred in the given time range.  • started: The response includes services for which a start event occurred during the given time range.  • completed: The response includes services for which a complete event occurred during the given time range.
export_content	boolean	no	<ul> <li>"true" to include all service data in the JSON response.</li> <li>"false" (default) to include service IDs only.</li> </ul>
filter_state	any, active, inactive	no	Important You can use this parameter only if the export_content parameter is set to true.  • any (default): The

Method	GET
	response includes the service information for all of the selection.
	active: The response includes the conversation (or service information) if some event (specified by the filter_events parameter) occurred during the specified time range AND if the service is still active at the time of the request.
	• inactive: The response includes the conversation (or service information) if some event (specified by the filter_events parameter) occurred during the specified time range AND if the conversation is completed at the time of the request.

<references />

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

### Response

HTTP code	200
HTTP Title	OK
Body	String[]

## Example

#### **Operation**

The following code sample associates the customer with a service, and specifies attached data as json arrays for "Feedback" and "Satisfaction".

```
GET http://localhost:8080/genesys/1/cs/maintenance/services/stream?time_from=2014-07-22T12:00:00.000Z&time_to=2014-07-22T18:00:00.000Z&export_content=false
```

#### Result

```
200 OK
[
    "361-93ae6d6b-8ea6-476a-bc2f-235ddc029994",
    "361-b552fb93-4b10-4761-9d50-850890bcab02",
    "361-0aaa7023-2db6-4fd3-8cf6-8e32619a0df8"
    "361-0b6b586f-1815-47b8-8a84-16d66162ff1c"
    "361-96d081b2-1918-46a5-b497-c235f882b33f"
    "361-9131cb94-2829-4fb0-9ae2-f9fd53639d1c",
    "361-5a4db9b7-8ee4-4848-97e7-7144cabe6790"
    "361-acf20476-d938-4583-b3cc-8b1568309247"
    "361-c1f24f0d-3e74-4194-90bb-5d330a9614c8"
    "361-cdd9bf74-4fb4-403a-aeb3-0d8875f963bb",
    "361-lef7641d-6003-4210-b4d0-cc1cafa8411d",
    "361-1ee58ee2-4b54-4d22-8cbc-d000363b2282",
    "361-3ab5e8bc-adc1-494a-a4c6-b925da319dcc",
    "361-6fee8b55-607b-4731-aba5-6681a992d184",
    "361-ddd8e44a-3fdc-4da8-91a7-c709ba654877"
    "361-b021209c-f86c-4ea5-b991-51d6b848d920",
    "361-66808d00-6328-4332-a4c7-936094babdb6",
    "361-fe54ea55-f7e9-44d1-aafd-0a213a9b1bd1",
    "361-604b6ad4-308d-4d60-8a2a-ba59cc3d84cd"
    "361-c4925764-cef0-4ce0-b4d7-4e96023d1c62"
    "361-7d8caf1f-0136-483e-bfef-bf2257e4a25c",
    "361-a222846a-67f5-47e5-b5c9-d5c88bd2775b",
    "361-779d75da-7d64-4ffd-808b-9ccd6cf39a66"
```

# Export Services to File by Date



### Description

Your application can use this operation to export service data to the JSON or CSV file format for a given time range. You can filter the list of returned services according to their date, inner state, or events. The query creates a file per type of data exported (service, states, tasks), for instance:

- "C:/export20140813\_160508\_183\_services.csv"
- "C:/export20140813 160508 183 states.csv"
- "C:/export20140813\_160508\_183\_tasks.csv"

### **Important**

This operation includes the service data for each resources returned.

See also the export features page for further details about the state and event filters.

# Operation

#### **Export services to files**

Method	POST			
URL	/genesys/1/cs/maintenance/services/files			
Name	Type Mandatory Description			
<b>URI Parameters</b>	URI Parameters			
time_from	date/time[1]	yes	Filters the service IDs which match the event and/or state filters starting from the given date/time.	

Method	POST		
			Example: 2014-09-02T08:00:00.000Z
time_to	date/time[1]	no	Filters the service IDs which match the event and/or state filters ending to the given date/time.  By default, current time is taken as end range. Example:
			2014-09-02T08:00:00.000Z
			Filters on either types of service event occurrence.
	any, started, completed		<ul> <li>any (default): The response includes the services for which an event occurred in the given time range.</li> </ul>
filter_events		no	<ul> <li>started: The response includes services for which a start event occurred during the given time range.</li> </ul>
			<ul> <li>completed: The response includes services for which an end event occurred during the given time range.</li> </ul>
filter_state	any, active, inactive	no	<ul> <li>any (default): The response includes the conversation (or service information) if some event (specified by the filter_events parameter) occurred during the specified time range.</li> </ul>
			<ul> <li>active: The response includes the conversation (or service information) if some event (specified by the</li> </ul>

Method	POST		
			filter_events parameter) occurred during the specified time range AND if the service is still active.  • inactive: The response includes the conversation (or service information) if some event (specified by the filter_events parameter) occurred during the specified time range AND if the service is completed.
file_prefix	String	yes	Specifies the file destination path and prefix. For example, if you set file_prefix to 'C:/export', the server generates the following one or three files:  • "C:/export20140813_160508_183  • "C:/export20140813_160508_183
compression	String	no	<ul> <li>Values:</li> <li>uncompressed (default)</li> <li>zip</li> <li>gzip</li> <li>If the compression is enabled, the server generates the export file with the accurate file extension.</li> </ul>
separator	String	no	Specifies the separator used in the exported CSV file to separate the column data in a CSV file line.  • Default: ","

Method	POST		
format	json or csv	no	Specifies the format of the exported file. Default value is: csv.

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP Title	OK
Body	String[]

### Example

#### Operation

The following code sample associates the customer with a service, and specifies attached data as json arrays for "Feedback" and "Satisfaction".

POST http://localhost:8080/genesys/1/cs/maintenance/services/ file?time from=2014-07-22T12:00:00.000Z&time to=2014-07-22T18:00:00.000Z&file prefix=C:/export&format=csv

#### Response

202 Accepted

#### C:/export 20140902 125024 170 services.CSV file

377-fffa514f-75b4-45b8-a417-550337719328,9,111861477473,,true,692,3,7PH0C3M0MF,4,5VFB3U7F9F,3,689,5,0R7H63Q24D9 mexico resort, 4, false, 8, Fancy resort Paris, 2015-03-17 377-aa4abd74-db0e-4026-9adc-01fea18978b6,3,111639426401,,true,928,6,0F80DRNFV0,7,PUCPBS2MCP,2,481,9,UY05AV5G2KF mexico resort, 4, false, 8, Fancy resort Paris, 2015-03-17 377-ee9920b1-32a6-4900-b8be-

b3f7ed328a6d,1,112956879726,,true,713,1,KER4FX089X,10,GNAYQTYRJA,2,256,7,Y61ED4QHTDK6AQ80,1,2014-09-02T12:29:58 mexico resort, 4, false, 8, Fancy resort Paris, 2015-03-17 service\_id,service\_type,contact\_key,customer\_id,started\_anonymous,est\_duration,disposition,disposition\_desc,sta

C:/export 20140902 125024 170 states.CSV file

377-ee9920b1-32a6-4900-b8beb3f7ed328a6d,377-c47423ca-4aed-458b-8fde-49b8435e7953,6,,25,5,K0GQKRSYGG,9,1845768615,1,256,9,112956879726,3,20 is the weather?, http://survey.genesys.com 377-ee9920b1-32a6-4900-b8be-b3f7ed328a6d,377-3b58e66cf499-4765-a1ff-860e8b2d12e2,2,,6,9,7YHBF2VX0G,9,1845768615,5,256,4,112956879726,3,2014-09-02T12:29:58.551Z,1845

is the weather?, http://survey.genesys.com

```
377-ee9920b1-32a6-4900-b8be-b3f7ed328a6d,377-c7ec4edf-f4d6-4b76-8d99-aae94b9e92fd,7,,54,10,FPWOYDY8HW,6,1845768615,2,256,3,112956879726,3,2014-09-02T12:29:58.863Z,18 is the weather?,http://survey.genesys.com
377-ee9920b1-32a6-4900-b8be-b3f7ed328a6d,377-fd30f203-3b62-465a-90e6-d2f6c7332c78,1,,55,3,XPJH03AV37,7,1845768615,5,256,5,112956879726,4,20 is the weather?,http://survey.genesys.com
377-ee9920b1-32a6-4900-b8be-b3f7ed328a6d,377-c8503d05-784d-4037-aadc-e70874a5c053,10,,35,5,C6K8NTU2UC,9,1845768615,3,256,8,112956879726,4,2014-09-02T12:29:59.178Z,1845768615,2014-0 is the weather?,http://survey.genesys.com
service_id,state_id,state_type,previous_state_id,est_duration,disposition,disposition_desc,start_resource_type,
```

```
C:/export 20140902 125024 170 tasks.CSV file
377-ee9920b1-32a6-4900-b8be-b3f7ed328a6d,,377-e438be2b-c3a8-4c2d-
aa2b-018cc860df88,3,65,9,KC8TNWEQK8,5,1845768615,3,256,10,112956879726,5,2014-09-02T12:29:59.850Z,1845768615,20
377-ee9920b1-32a6-4900-b8be-
b3f7ed328a6d,,377-931a6f65-2f76-4675-b892-492c24680a7d,5,16,10,Y15M9U1SVB,8,1845768615,3,256,8,112956879726,10,
377-ee9920b1-32a6-4900-b8be-
b3f7ed328a6d,,377-ebff6032-1306-461b-9234-99315d836eed,9,57,7,VXF9BW8YJ9,2,1845768615,4,256,9,112956879726,7,20
377-ee9920b1-32a6-4900-b8be-
b3f7ed328a6d,,377-bfbabd29-3384-4926-b275-43e0f538c454,2,97,8,SPYF4CB6PT,9,1845768615,5,256,7,112956879726,10,2
377-ee9920b1-32a6-4900-b8be-
b3f7ed328a6d,,377-378ae588-d76b-4567-8557-e976032e2d0c,2,46,10,058GAT2KSY,6,1845768615,4,256,6,112956879726,1,2
377-ee9920b1-32a6-4900-b8be-b3f7ed328a6d,,377-f63d0dc7-4ac2-4135-ad4c-
377-ee9920b1-32a6-4900-b8be-
b3f7ed328a6d,,377-9f83dbf4-e9cc-4a47-9531-f6d9dcba9595,7,48,3,B7N0C0Q8US,5,1845768615,5,256,7,112956879726,10,2
377-ee9920b1-32a6-4900-b8be-
b3f7ed328a6d,,377-67ce4f33-16db-47c1-adb9-3eb61b25e795,7,55,1,MNX8V1U2KT,3,1845768615,2,256,9,112956879726,4,20
service id, state id, task id, task type, est duration, disposition, disposition desc, start resource type, start sessi
```

# Perform State Transition



# Description

Performs a state transition for a given service. In many cases, your application is responsible for completing a given state and starting a new state, both in the context of a single interaction. In that context, your application can use this operation (instead of two separate Start State and Complete State operations) to reduce both the data duplication and the overall UCS services workload.

# Operation

ID	CV.WS.SRV.7		
Method	POST		
URL	/genesys/1/cs/services/\${service_id}/states/transition		
Field Name	Type Mandatory Description		
<b>URI Parameters</b>			
service_id	integer	yes	The unique ID of the related service.
<b>Body:</b> State Transition Ev	ent <ref>This body contains</ref>	s fieds from the <mark>StateTransi</mark>	tionEvent.
from	hash	yes	The hash of the following fields describing the state from which the service is transitioning:  • state_id (mandatory) : The 32-bit ID of the state to complete.  • disposition (optional): The unique ID for the business disposition assigned to the

ID	CV.WS.SRV.7			
			given state. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions <ref name="business">  Refer to Configuration Options for more details on Business Attribute mapping. • disposition_desc (optional): The text description which provides additional context on the business disposition. Limited to 64 characters.</ref>	
to	hash	yes	The hash of the following fields, which describe the state into which the service is transitioning:  • state_type (mandatory): The unique ID associated with the type of service, typically the DB ID of a value in the Service Type Business Attribute <ref name="business"></ref> .  • est_duration (optional): The estimated service duration in seconds.	
Important The following fields apply both to the state to complete and the state to start.				
session_id	string	no	The ID of the related session. For example, the orchestration session or any other business session.	
interaction_id	string	no	The ID of the related	

ID	CV.WS.SRV.7		
			Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (Genesys DB ID) for the application issuing the service event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (such as GVP, Agent Desktop, or Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given state. For example: e-mail, voice, chat, etc.
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of

ID	CV.WS.SRV.7		
			milliseconds, using the ISO 8601 <pre>ISO 8601</pre> name="ISO 8601">http://en.wikipedia.org wiki/ISO_8601 representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS]  Important If the application does not specify this timestamp, the server does it when the event is processed.
<extension key=""></extension>	Any JSON type	no	State attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See <a href="http://https://htt

#### Response

HTTP code	201
HTTP message	Created
Header	Location: /service/\${service_id}/states/\${state_id} where:  • \${service_id} is the service ID.  • \${state_id} is the ID of the created state.
Body	{"state_id": <b>\${state_id}</b> } where: \${state_id} is the created state ID.

# Example

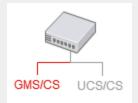
### **Operation**

```
POST http://localhost:8080/genesys/1/cs/services/735692/states/transition
  "interaction id": "123ABC908ABFFD8080",
   "from": {
    "state_id": 1001,
    "disposition": 1,
    "disposition desc": "SUCCESS",
    "Feedback":
      { "FeedbackType":"survey","rating":7,
   "notes":"warm welcome at frontdesk, thanks for the nice trip"
   "Satisfaction": [
   {
     "rating":2,
     "pertinence":8,
     "usefull":true,
     "place": "Terranova mexico resort"
    },
    "pertinence":4,
     "useful":false,
     "place": "Fancy resort Paris"
 },
"to": {
   "state_type": 8,
   "est duration": 500,
   "Sponsoring": { "Rank":"first", "expire":7,
      "notes":"give customer free meal" }
 }
POST http://localhost:8080/genesys/1/cs/services/735692/states/transition
 "interaction_id": "123ABC908ABFFD8080",
 "from": {
   "state_id": 1001,
   "disposition": 1,
"disposition_desc": "SUCCESS",
   "Feedback": { "FeedbackType": "survey", "rating": 7,
          "notes":"warm welcome at frontdesk, thanks for the nice trip" },
   },
"to": {
   "state_type": 8,
   "est duration": 500,
   "Satisfaction": [
    "pertinence":3,
     "usefull":false,
     "place": "Australian beach resort complex"
    },
      "rating":9,
     "pertinence":8,
```

### Result

```
201 Created
{"state_id":15158}
```

# Purge Services



**POST** /maintenance/purge

# Description

Purge the services which received a started and/or a completed event prior to a limit date. Use this query if your application needs to remove old services from the database.

### **Important**

Your application needs a WRITE role to perform this request.

# Operation

Method	POST			
URL	/genesys/1/cs/maintenance/purge			
Field Name	Type Mandatory Description			
<b>URI Parameters</b>				
limit	String	yes	Specifies the time limit for the service deletion.  Example: 2014-09-02T08:00:00.000Z	
operation	String	yes	Specifies the type of operation to be performed when the purging process runs.  • purge.service.all to purge all the services which received a started event prior to the	

Method	POST	
Method	POST	limit date.  • purge.service.sta rted.anonymous to purge the anonymous services which received a started event prior to the limit date and are not completed at the date of the purge.  • purge.service.sta rted to purge the services which received a started event prior to the
		event prior to the limit date and are not completed at the date of the purge.  • purge.service.com pleted to purge the services which received a started event prior to the limit date and are completed at the date of the purge.  • purge.service.com
		pleted.anonymous to purge the anonymous services which received a started event prior to the limit date and are completed at the date of the purge.

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

### Response

HTTP code	200
HTTP message	OK

<references />

# Example

**Operation** The following operation deletes the given service with its active states and tasks.

```
POST http://localhost:8080/genesys/1/cs/maintenance/purge
{
"limit": "2014-09-26T16:50:00.000Z",
"operation":"purge.service.all"
}
```

#### Result

200 OK

# Query Business Attribute Schema



# Description

Returns the schema for the list of available business attributes.

# Operation

ID	CV.WS.CONFIG.BA			
Method	GET			
URL	<ol> <li>All: /metadata/business-attributes</li> <li>/metadata/business-attributes/\${business-attribute-name}</li> <li>/metadata/business-attributes?cv-attribute=\${attribute-full-name}</li> </ol>			
Parameter	Type Mandatory Description			
\${business-attribute- name}	string	no	The name of the business attribute, in order to retrieve its schema only.	
\${attribute-full-name}	string	yes if ?cv-attribute= is part of the URL	The full name of a Context Services' business attribute in order to retrieve its schema. Examples:  • Service.type,  • Task.disposition,  • State.media_type	

<references />

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

НТТР	code	200	
HTTP message		OK	
Parameter	Туре	Mandatory	Description
<b>Body</b> Business Attribute of	or BusinessAttribute[]		
name	string	yes	The business attribute's name.
dbid	string	yes	The business attribute's database ID.
display_name	string	yes	The business attribute's display name.
description	string	yes	The description.
map_name	boolean	no	<ul> <li>true means that the Business         Attribute Value         Names is returned         instead of DB IDs in         the responses for         GET operations.</li> <li>false means that         DB IDs are returned         in the responses for         GET operations. See         also [business-         attributes] Section.</li> </ul>
cv_attributes	string[]	no	The associated Context Services attributes.
values	BusinessAttribute[]	no	Nested possible attributes values.

# Example

#### **Operation**

 ${\tt GET\ /metadata/business-attributes/MediaType}$ 

### Result

```
200 OK {
```

```
"display_name" : "Media Type",
"values" : [ {
    "display_name" : "email",
    "description" : "Media EMail",
    "name" : "email",
    "dbid" : 1003
}, {
    "display_name" : "chat",
    "description" : "Media Chat",
    "name" : "chat",
    "dbid" : 1006
}, {
    "display_name" : "voice",
    "description" : "Media Voice",
    "name" : "voice",
    "dbid" : 1001
}, {
    "display_name" : "fax",
    "description" : "Media Fax",
    "name" : "fax",
    "description" : "Media Fax",
    "name" : "fax",
    "dbid" : 1014
}],
    "description" : "Media type identifier",
    "name" : "MediaType",
    "dbid" : 1001,
    "map_name" : false,
    "cv_attributes" : [ "Service.media_type", "State.media_type", "Task.media_type" ]
}
```

# Query Service by ID



# Description

Enables your application to query a service if its ID is known. By default, no tasks or states are returned. The example below shows how your application can use optional parameters to customize its request to specify which nested tasks and states of the service should be part of the response.

# Operation

ID	CV.WS.SRV.14			
Method	GET			
URL	/genesys/1/cs/services/\${	service_id}		
Field Name	Туре	Type Mandatory Description		
<b>URI Parameters</b>				
\${service_id}	integer	yes	The service ID.	
active_states	bool	no	<ul> <li>"true" to include information on this service's active states in the results</li> <li>"false" (default)</li> </ul>	
completed_states	bool	no	<ul> <li>"true" to include information on this service's completed states in the results</li> <li>"false" (default)</li> </ul>	
active_tasks	bool	no	"true" to include information on this	

ID	CV.WS.SRV.14		
			service's active tasks in the results • "false" (default)
completed_tasks	bool	no	<ul> <li>"true" to include information on this service's completed tasks in the results</li> <li>"false" (default)</li> </ul>
extensions	string	no	List of extension names separated with commas, which will be returned with the service. For example:  e.g. http://localhost:8010/genesys/1/cs/services/383-f9a62aec-e6f2-45cb-aa01-0d9404f905bd?active  You can also prefix the extension name with the a "State" or "Task" entity name followed by dot and extension name. For example:  http://localhost:8010/genesys/1/cs/services/383-f9a62aec-e6f2-45cb-aa01-0d9404f905bd?active_CC: Alternatively, all extensions can be returned with specifying extensions=*, or simply entity extensions with specifying for example extensions=State.*

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

### Response

HTTP code	200		
HTTP message	OK		
Field Name	Туре	Mandatory	Description
<b>Body:</b> Service <ref>This rID.</ref>	response includes the repre	sentation of the Service ass	sociated with the service
service_type	long or string	yes	The unique ID associated with the service type, typically the DB ID of a value in the Service Type Business Attribute.  Refer to Configuration Options for more details about Business Attribute mapping.
service_id	integer	yes	The service's unique ID. <ref name="toplevel">Only top-level objects include this field. For instance, if your application retrieves a service which includes nested states and tasks, only the top-level service object contains this ID.</ref>
started	Service Start Event	yes	Start event (see Start Service). This event does not include the "est_duration" field, if "est_duration" is specified at the service level of the response.
completed	Service End Event	no	The related end event if the service is completed (see Complete Service). This event does not include the "disposition" and "disposition_desc" fields if they are specified at the service level of the response.
customer_id	string	no	The customer's unique ID <ref name="toplevel"></ref> . If the service has no customer ID, the service is AnonymousService.
est_duration	integer	no	The estimated time for completing the service, in seconds.

HTTP code	200		
duration	integer	no	The total duration in milliseconds.  Important Only relevant for completed services.
disposition	integer	no	ID of the Business disposition ID.  Important Only relevant for completed services.
disposition_desc	string	no	The reason for assigning the business disposition with the service element. Limited to 256 characters.
active_states	State[]	no <ref name="option">The field is returned if the corresponding option was set to true in the request.</ref>	The array of the started states which are not completed.
completed_states	State[]	no <ref name="option"/&gt;</ref 	The array of completed states through which the service has made transitions.
active_tasks	Task[]	no <ref name="option"/&gt;</ref 	The array of the started tasks which are not completed.
completed_tasks	Task[]	no <ref name="option"/&gt;</ref 	The array of the tasks which are completed as part of the service delivery.
interactions	Interaction[]	no <ref name="option"/&gt;</ref 	The array of the interactions which are associated with this service.
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key- value pairs as needed.

<sup>&</sup>lt;references />

## Example

**Operation** The following operation retrieves the given service (ID=2000) with its active states and tasks to resume the activity.

GET http://localhost:8080/genesys/1/cs/services/
3005?active\_states=trueCleted\_states=true~tive\_tasks=trueCleted\_tasks=true&extensions=ClientInfo,relatedOffers

#### Result

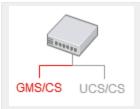
```
"completed_tasks" : [ {
    "service_id" : 3005,
    "duration" : 82937,
    "disposition_desc" : "normal ending",
    "task_id" : 2001,
"task_type" : 55,
    "est duration" : 540,
    "started" : {
    "timestamp" : "2010-06-03T08:49:53.053Z",
       "interaction_id" : "587"
    "completed" : {
       "timestamp" : "2010-06-03T08:51:15.990Z",
       "interaction_id" : "587"
  } ],
  "service id" : 3005,
  "active_states" : [ {
    "service_id" : 3005,
    "state_id" : 4000,
    "state_type" : 100,
    "est duration" : 60,
    "started" : {
      "timestamp" : "2010-06-03T08:48:18.257Z",
      "application_type" : 400,
"resource_id" : 20,
      "media_type" : 2,
"resource_type" : 200,
       "application_id" : 40,
       "interaction_id" : "51"
  "ClientInfo" : {
    "userAgent": "Mozilla/5.0 (Windows; U; Windows NT 5.1; fr; rv:1.9.2) Gecko/20100115
Firefox/3.6 (.NET CLR 3.5.30729)",
    "clientIp" : "192.168.1.1",
"contentType" : "Content-Type : application/json;charset=UTF-8"
  },
  "active_tasks" : [ {
    "service_id" : 3005,
    "state i\overline{d}" : 4001,
    "task_id" : 2000,
    "task_type" : 55,
    "est duration" : 540,
    "started" : {
       "timestamp" : "2010-06-03T08:49:45.943Z",
       "interaction_id" : "587"
  } ],
```

```
"service_type" : 100,
"est_duration" : 300,
"started" : {
   "timestamp": "2010-09-07T07:58:16.313Z",
  "application_type" : 400,
"resource_id" : 10,
"media_type" : 2,
  "resource_type" : 200,
"application_id" : 40,
   "interaction_id" : "56"
"service_id" : 3005,
"state_id" : 4001,
   "duration" : 182907,
   "disposition_desc" : "normal ending",
"state_type" : 200,
"est_duration" : 300,
   "started" : {
     "timestamp": "2010-06-03T08:48:51.473Z",
     "application_type" : 400,
     "resource_id" : 6000,
     "media_type" : 3,
"resource_type" : 100,
"application_id" : 40,
     "interaction id" : "8001"
   "disposition" : 5,
   "completed" : {
     "timestamp" : "2010-06-03T08:51:54.380Z",
     "interaction_id" : "1587"
} ],
"relatedOffers" : [ {
    "offer_name" : "VIP credit card black ed.",
   "type": "9",
"comments": "proposed to all client"
}, {
  "offer_name" : "3 times payment GOLD",
  "type" : "4",
  "comments" : "limited offer"
}, {
   "offer_name" : "life insurance",
   "type": "3",
   "comments" : "healt check to be done before approval"
"contact_key" : "bob"
```

#### Additional comments:

- The service=2000 does not contain completed values. It is an active service.
- There was no active states for this service.
- There is a single active task.

# Query Services



- GET /genesys/1/cs/services/ anonymous/\${contact\_key}
- GET /genesys/1/cs/ customers/\${customer id}/services

### Description

The operations on this page allow users to query for active and/or completed services, either for a specific customer or for anonymous services matching a contact key. The latter case primarily addresses service resumption use cases for services in which the customer is not yet identified. For example, consider the following:

- The customer calls in from phone number 408-832-7799.
- The application starts a service, noting contact key "408-832-7799" for further reference.
- The application is not able to identify the caller based on the phone number.
- IVR identifies that the customer is calling to set up a new wireless account.
- The customer is placed in an agent queue. After 10 minutes, the call is dropped.
- The customer calls back in from the same number. The application still cannot identify the customer based on that number.
- The application looks up whether there are any outstanding services with identification token "408-832-7799"--one is returned.
- The application asks the customer whether he or she is calling back in regards to the previous request or for a new wireless request. Upon confirmation, the customer is placed back in the agent queue.

### Operations

### **Query Anonymous Services**

### **Important**

This operation queries anonymous services only.

ID	CV.WS.SRV.10		
Method	GET		
URI	<ol> <li>Active: /genesys/1/cs/services/anonymous/\${contact_key}/active</li> <li>Completed: /genesys/1/cs/services/ anonymous/\${contact_key}/completed</li> <li>All: /genesys/1/cs/services/anonymous/\${contact_key}</li> </ol>		
Field Name	Туре	Mandatory	Description
URI Parameters	, , , , , , , , , , , , , , , , , , , ,	,	-
\${contact_key}	string	yes	The "contact key" is supplied at the service creation if the service is started before the customer's identification. This key can be used to look up the service with this method, or for further association once the customer is identified (see Associate Service).
started_from	date/time <ref name="ISO 8601"&gt;http://en.wikipedia wiki/ISO_8601 representation: [YYYY]- [MM]- [DD]T[HH]:[mm]:[ss].[S</ref 	no	Filters the services started on or after the given date/time.
started_to	date/time	no	Filters the services started prior to the given date/time.
completed_from	date/time <ref name="ISO 8601"/&gt;</ref 	no	Filters the services that were completed on or after the given date/ time. Only applicable when querying service history.
completed_to	date/time <ref name="ISO 8601"/&gt;</ref 	no	Filters the services completed prior to the given date/time. Only applicable when querying service history.
service_types	integer	no	Filters the services by the application-defined service type <ref name="business">  Refer to Configuration Options for more details on Business Attribute mapping.</ref> .

ID	CV.WS.SRV.10		
			your application can specify several types separated by a comma, as follows: service_types=1,3,45
active_states	bool	no	<ul> <li>"true" to include information on the service's active states in the results.</li> <li>"false" by default.</li> </ul>
active_tasks	bool	no	<ul> <li>"true" to include information on the service's active tasks in the results.</li> <li>"false" (default).</li> </ul>
completed_states	bool	no	<ul> <li>"true" to include information on the service's completed states in the results.</li> <li>"false" (default).</li> </ul>
completed_tasks	bool	no	<ul> <li>"true" to include information on the service's completed tasks in the results.</li> <li>"false" (default).</li> </ul>
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

# **Query Customer Services**

### **Important**

This operation queries services which are not anonymous, that is, services which are associated with a customer id.

ID	CV.WS.SRV.10		
Method	GET		
URIS	<ol> <li>Active Services: /genesys/1/cs/customers/\${customer_id}/services/active</li> <li>Completed Services: /genesys/1/cs/customers/\${customer_id}/services/completed</li> <li>All Services: /genesys/1/cs/customers/\${customer_id}/services</li> </ol>		
Parameter	Туре	Mandatory	Description
URI Parameters	, , ,	,	
\${customer_id}	string	yes	The Customer ID, to get associated active or completed services. Note that a customer can be associated with a service either at the service creation or later in the process (see Associate Service).
started_from	date/time <ref name="ISO 8601"&gt;http://en.wikipedia wiki/ISO_8601 representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[9</ref 	no	Filters the services started on or after the given date/time.
started_to	date/time <ref name="ISO 8601"/&gt;</ref 	no	Filters the services started prior to the given date/time.
completed_from	date/time <ref name="ISO 8601"/&gt;</ref 	no	Filters the services that were completed on or after the given date/ time. Only applicable when querying service history.
completed_to	date/time <ref name="ISO 8601"/&gt;</ref 	no	Filters the services completed prior to the given date/time. Only applicable when querying service history.
service_types	long or string	no	Filters the services by the application-defined service type <ref name="business">  Refer to Configuration Options for more details on Business Attribute mapping.</ref> .
active_states	bool	no	• "true" to include

ID	CV.WS.SRV.10		
			<ul><li>information on the service's active states in the results.</li><li>"false" by default.</li></ul>
active_tasks	bool	no	<ul> <li>"true" to include information on the service's active tasks in the results.</li> <li>"false" (default).</li> </ul>
completed_states	bool	no	<ul> <li>"true" to include information on the service's completed states in the results.</li> <li>"false" (default).</li> </ul>
completed_tasks	bool	no	<ul> <li>"true" to include information on the service's completed tasks in the results.</li> <li>"false" (default).</li> </ul>
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key- value pairs as needed.

<references />

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

### Response

HTTP code	200
HTTP message	OK
Body	Service[].

# Example

### **Operation**

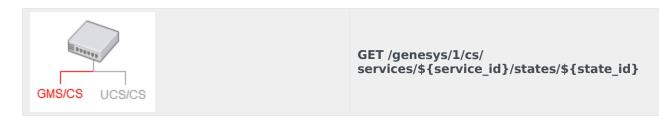
GET /genesys/1/cs/customers/ABC1234/services/active?active\_states=true

#### Response

### **Important**

In the above example, the inline State objects do not include active/completed tasks.

# Query State by ID



# Description

This operation allows you to retrieve a single state for a given service. By default, no task information in returned with the state representation. Optional URI parameters enable to include the state's nested tasks in the response.

# Operation

ID	CV.WS.SRV.15		
Method	GET		
URL	/genesys/1/cs/services/\${	service_id}/states/\${stat	:e_id}
Field name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	integer	yes	The service ID.
\${state_id}	integer	yes	The state ID.
active_tasks	bool	no	<ul> <li>true to include information on the service's active tasks in the results.</li> <li>false (default)</li> </ul>
completed_tasks	bool	no	<ul> <li>true to include information on the service's completed tasks in the results.</li> <li>false (default)</li> </ul>
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You

ID	CV.WS.SRV.15	
		can add as many keyvalue pairs as needed.

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See <a href="http://https://htt

#### Response

HTTP code	200		
HTTP message	OK		
Field Name	Туре	Mandatory	Description
<b>Body:</b> State <ref>This res</ref>	sponse includes the State re	epresentation with the state	e ID.
state_id	integer	yes	The 32-bit integer ID of the state, assigned by the UCS when the state is started.
			The unique ID associated with the state type. For instance, this ID can be the DB ID of a value in the Service Type Business Attribute.  Enumerated values could be
			one of the following:  1. Customer identification  2. Service identification
			3. Assign service agent
state_type	long or string	yes	Waiting for service agent
			5. Offering another service while waiting for agent
			6. Offering callback
			7. Callback pending
			8. Delivering service
			9. Waiting for customer input
			10. Offering another

HTTP code	200		
			service while delivering service  Refer to Configuration Options for more details on Business Attribute mapping.
service_id	integer	yes if not nested in service resource	The service's unique ID if the state is not part of a top-level service resource which includes a service ID. <ref name="toplevel">Only top-level representations include this field. For instance, if your application retrieves a service which includes nested states and tasks, only the top-level service resource contains this ID.</ref>
started	State Start Event	yes	Related start event. This event should not contain the "est_duration" field, if it already exists at the state level.
completed	State End Event	no	The related end event if the state is completed. This event should not repeat the "disposition" and "disposition_desc" fields if they already exist at the state level.
customer_id	string	no	The customer's unique ID <ref name="toplevel"></ref> .
est_duration	integer	no	The estimated time for completing the state, in seconds.
duration	integer	no	The total duration in milliseconds.  Important Only relevant for completed states.
disposition	long or string	no	ID of the Business Disposition ID.

HTTP code	200		
			Important Only relevant for completed states.
disposition_desc	string	no	The reason for assigning the business disposition with the service element. Limited to 256 characters.
active_tasks	Task[]	no <ref name="option">This field is returned if the corresponding option is set to true in the URI parameters.</ref>	The array of tasks that are started but not yet completed.
completed_tasks	Task[]	no <ref name="option"/&gt;</ref 	The array of Tasks that are completed.
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

# Example

#### **Operation**

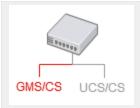
GET /genesys/1/cs/services/2/states/
1?active\_tasks=trueCleted\_tasks=true&extensions=Feedback,Satisfaction

#### Result

```
200 OK
[ // array of one or more state object
{
    "service_id" : 1,
    "state_id" : 0,
    "state_type" : 100,
    "est_duration" : 60,
    "started" : {
        "timestamp" : "2010-05-18T15:23:34.447Z",
        "application_type" : 400,
        "resource_id" : 20,
        "media_type" : 2,
        "resource_type" : 200,
        "application_id" : 40,
        "interaction_id" : "51"
    },
    "Feedback":
        {"FeedbackType":"survey",
        "rating":7,
```

```
"notes": "warm welcome at frontdesk, thanks for the nice trip"}
 "Satisfaction": [
  {
    "rating":2,
   "pertinence":8,
"usefull":true,
    "place": "Terranova mexico resort"
  },
  {
    "rating":8,
   "pertinence":4,
   "usefull":false,
"place":"Fancy resort Paris"
  ],
   "active_tasks": [
     \ensuremath{//} in cluded given specification of "results" attribute
     { // array of one or more Task objects
        "task id": 25080,
        "task_type": 5, // application-defined task type
        "est duration": 300,
        "started": {
          "timestamp": "2009-05-07T12:08:53.298",
     }
   "completed_tasks": [
     { "task_id": 24027,
 "task_type": 2, // e.g. task for processing quote
 "disposition": 10, // e.g. quote completed
 "disposition_desc": "<text describing quote result>",
        "started": {
    "timestamp": "2009-05-07T12:02:23.715",
          "interaction id": "123ABC908ABFFD8080"
        },
        "completed": {
    "timestamp": "2009-05-07T12:06:23.715",
          "interaction id": "157C9A208AFD523D01"
    }
  ]
},
  "service id" : 1,
  "state_id" : 1,
  "state type" : 100,
  "est_duration" : 60,
  "started" : {
    "timestamp" : "2010-05-18T15:23:41.977Z",
     "application_type" : 400,
     "resource_id" : 20,
     "media_type" : 2,
     "resource_type" : 200,
"application_id" : 40,
"interaction_id" : "51"
  }
```

# Query States



GET /genesys/1/cs/genesys/1/cs/ services/\${service\_id}/states

# Description

This operation queries the states for a given service. By default, all the states are returned, but your application can filter the results to retrieve only active or completed states, based on the specified URI. Additional URI parameters enable to include task information in the response.

# Operation

#### **Query states**

ID	CV.WS.SRV.12		
Method	GET		
URL	<ol> <li>All (default): /genesys/1/cs/services/\${service_id}/states</li> <li>Active States: /genesys/1/cs/services/\${service_id}/states/active</li> <li>Completed States: /genesys/1/cs/services/\${service_id}/states/completed</li> </ol>		
Field Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	string	yes	The service ID generated from the Start Service operation.
state_types	integer	no	Filters specific service state types. The possible enumerated values are available in the filter field of the State resources. You can specify several state_type values separated by commas.

ID	CV.WS.SRV.12		
active_tasks	bool	no	<ul> <li>true to include information the service's active tasks in the results.</li> <li>false (default)</li> </ul>
completed_tasks	bool	no	<ul> <li>true to include information on the service's completed tasks in the results.</li> <li>false (default)</li> </ul>
<extension></extension>	Any JSON type	no	State attached data as key-value pairs. You can add as many key-value pairs as needed.

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK
Body	State[]

### Example

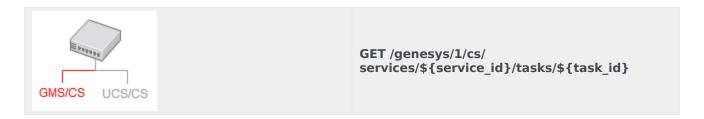
#### **Operation**

GET /genesys/1/cs/services/ABC1235XZY/states/ active~tive\_tasks=trueCleted\_tasks=true&extensions=Feedback

**Result** The following output shows a possible response for the previous request:

```
"started" : {
 "timestamp": "2010-05-18T15:23:34.447Z",
 "application_type" : 400,
"resource_id" : 20,
 "media_type" : 2,
"resource_type" : 200,
 "application_id" : 40,
 "interaction_id" : "51"
 "Feedback":
  { "FeedbackType": "survey",
    "rating":7,
"notes":"warm welcome at frontdesk, thanks for the nice trip"}
 "active_tasks": [
  // included given specification of "results" attribute
  { // array of one or more Task objects
     "task_id": 25080,
     "task_type": 5, // application-defined task type
     "est duration": 300,
    "started": {
     "timestamp": "2009-05-07T12:08:53.298",
  }
 ]
 "completed_tasks": [
  { "task_id": 24027,
    "task_type": 2, // e.g. task for processing quote
"disposition": 10, // e.g. quote completed
"disposition_desc": "<text describing quote result>",
     "started": {
       "timestamp": "2009-05-07T12:02:23.715",
       "interaction_id": "123ABC908ABFFD8080"
     "completed": {
       "timestamp": "2009-05-07T12:06:23.715",
       "interaction_id": "157C9A208AFD523D01"
     }
  }
 ]
"service_id" : 1,
"state_id" : 1,
"state_type" : 100,
"est_duration" : 60,
"started" : {
"timestamp" : "2010-05-18T15:23:41.977Z",
"application_type" : 400,
 "resource_id" : 20,
"media_type" : 2,
"resource_type": 200,
"application_id": 40,
"interaction_id" : "51"
```

# Query Task by ID



## Description

Queries a task by its ID for the given service.

# Operation

ID	CV.WS.SRV.16		
Method	GET		
URL	/genesys/1/cs/services/ <b>\${</b>	service_id}/tasks/\${task	_id}
Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	integer	yes	The service ID.
\${task_id}	integer	yes	The task ID.
<extension key=""></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

Field Name	Туре	Mandatory	Description
HTTP message	OK		
HTTP code	200		

HTTP code	200			
Body: Task <ref>This response includes the Task representation associated with the task ID.</ref>				
state_id	integer	no	The 32-bit integer ID for the state service associated with the task.	
task_id	integer	yes	The 32-bit integer ID of the task, assigned by the UCS when the task is started.	
task_type	long or string	yes	The unique ID associated with the type of service <ref name="business">Refer to Configuration Options for more details on Business Attribute mapping.</ref>	
service_id	integer	yes if not specified in top-level resources <ref name="toplevel">Only top-level representations include this field. For instance, if your application retrieves a service which includes nested states and tasks, only the top-level service representations contains this ID.</ref>	The service's unique ID if the task is not part of a top-level state or service resource which includes a service ID.	
started	Task Start Event	yes	Related start event. This start event does not contain the "est_duration" field, if this field is already specified at the task level.	
completed	Task End Event	no	The related end event if this task is completed. This end event does not include the "disposition" and "disposition_desc" fields if they are already specified at the task level.	
customer_id	string	no	The customer's unique ID <ref name="toplevel"></ref> .	

HTTP code	200		
est_duration	integer	no	The estimated time for completing the item, in seconds.
duration	integer	no	The total duration in milliseconds. Only relevant for completed tasks.
disposition	long or string	no	ID of the Business Disposition ID <ref name="business"></ref> . Only relevant for completed tasks.
disposition_desc	string	no	The reason for assigning the business disposition with the service element. Limited to 256 characters.
<extension key=""></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

# Example

#### **Operation**

GET /genesys/1/cs/services/942/tasks/12?extensions=Survey,Proposal

#### Result

```
{
  "interaction_id":42,
  "est_duration":460,
  "state_id":24,
  "task_type":55,
  "Survey":
  {
    "url":"http://ourServer/storage/userAnswers",
    "question1":7,
    "question2":true,
    "question3":"will be better with cable tv and on-demand video"
  },
  "Proposal": [
    {
        "car type":"cabriolet",
        "price":25 000,
        "seats":2,
        "comments":"200 cv, hardtop"
    },
    {
}
```

```
"car type":"S.U.V.",
   "price":70 000,
   "seats":8,
   "comments":"4wd, leather seats"
}
]
}
```

# Query Tasks



## Description

This operation queries the tasks for a given service. By default, all the tasks are returned, but your application can filter the results to retrieve only active or completed tasks, based on the specified URI. Your application can also filter the returned tasks with additional URI parameters to select one or more task type and a given state.

# Operation

ID	CV.WS.SRV.13		
Method	GET		
URL	<ol> <li>All (default): /genesys/1/cs/services/\${service_id}/tasks</li> <li>Active Tasks: /genesys/1/cs/services/\${service_id}/tasks/active</li> <li>Completed Tasks: /genesys/1/cs/services/\${service_id}/tasks/completed</li> </ol>		
Field Names	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	string	yes	The service ID generated from the service creation.
state_id	integer	no	Used to filter tasks by state ID. To filter both on the state id and the task_type, your application can also use this field identically to task_type.  For example: /genesys/1/cs/services/\${service_id}/tasks/completed?task_types=1,3&state

ID	CV.WS.SRV.13		
task_types	long or string	no	Filters specific service task types separated by commas.
extensions	string	no	Names, separated by commas, of the task extension keys to return with the matching task resources. By default, no extension is returned.

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK
Body	Task[].

### Example

### Retrieve completed tasks

**Operation** Retrieve completed tasks for service 6001:

GET /genesys/1/cs/services/15/tasks/completed?task\_types=STT-DefineCustomerNeed%2CSTT-FillCustomerInfo&state\_id=5&extensions=Survey

#### Result

```
[ {
  "service_id" : 1,
  "state_id" : 2,
  "task_id" : 0,
  "task_type" : 55,
  "est_duration" : 55,
  "started" : {
     "timestamp" : "2010-05-20T15:41:52.380Z",
     "interaction_id" : "65"
},
  "Survey":
     {"url":"http://ourServer/storage/userAnswers",
     "question1":7, "question2":true,
     "question3":"will be better with cable tv and on-demand video"
```

#### Retrieve active tasks

#### **Operation** Retrieve active tasks for service 6001:

GET /genesys/1/cs/services/6001/tasks/active

#### Result

```
[ {
   "service_id" : 6001,
   "task_id" : 15001,
   "task_type" : 1433,
   "started" : {
       "timestamp" : "2010-04-25T16:07:12.133Z",
       "application_type" : 1426,
       "media_type" : 1010,
       "resource_type" : 1423
   }
}
```

#### **Operation** Retrieve all tasks for service 6001:

GET /genesys/1/cs/services/6001/tasks

#### Result

```
[ {
    "service_id" : 6001,
    "duration" : 0,
    "task_id" : 15000,
    "task_type" : 1433,
    "started" : {
        "timestamp" : "2010-04-25T16:07:12.133Z",
```

```
"application_type" : 1426,
   "media_type" : 1010,
   "resource_type" : 1423
},
"completed" : {
   "timestamp" : "2010-04-25T16:07:12.133Z",
   "application_type" : 1426,
   "media_type" : 1010,
   "resource_type" : 1423
}
},{
   "service_id" : 6001,
   "task_id" : 15001,
   "task_type" : 1433,
   "started" : {
        "timestamp" : "2010-04-25T16:07:12.133Z",
        "application_type" : 1426,
        "media_type" : 1010,
        "resource_type" : 1423
}
}
```

# Start Service



### Description

Starts a service based on:

- The service type passed in the body.
- The contact information available (customer ID or contact key for later lookup).

If your application does not assign a customer ID, your service is anonymous. In that case, your application must assign a contact key. For further information, read the following pages:

- · Anonymous Service
- Service Start Event

### **Important**

Your application is not responsible for the service ID creation. UCS automatically assigns 64-bit integer IDs to the created services.

#### Attached Data

You can attach data to the service by adding key-value pairs to the JSON body of the POST action. Key-value pairs replace 8.1 extensions, do not need schema definition like in 8.1, and ensure backward compatibility with 8.1.

### Operation

#### Start Service

ID	CV.WS.SRV.1
Method	POST

ID	CV.WS.SRV.1		
URL	/genesys/1/cs/services/start		
Field Name	Туре	Mandatory	Description
<b>Body</b> : Service Start Event Start Event.	<ref>The body of this oper</ref>	ration is mandatory and ma	kes use of the Service
customer_id	string	yes if no <i>contact_key</i>	The unique ID of the customer associated with the given service.  Services with no customer_id are anonymous. In this case, the event should include a contact_key.
contact_key	string	yes if no customer_id	Key for later lookup of the service. This contact_key is mandatory if no customer ID is specified. For example, the application might store a PIN or ANI as the contact key when the service is first started. Later, if the customer is identified then the contact key is used to lookup the existing service record and associate it with the customer.
service_type	long or string	yes	The unique ID associated with the type of service, typically the DB ID of a value in the Service Type Business Attribute < ref name="business">  Refer to Configuration Options for more details on Business Attribute mapping..
session_id	string	no	The ID of the related session, for instance, the orchestration session, or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.

ID	CV.WS.SRV.1		
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (Genesys DB ID) for the application issuing the service event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (such as GVP, Agent Desktop, or Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given service, for instance, e-mail, voice, chat, etc.
est_duration	integer	no	The estimated service duration in seconds.
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of milliseconds, using the ISO 8601 ref name="ISO 8601">http://en.wikipedia.com

ID	CV.WS.SRV.1		
			wiki/ISO_8601 representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS If the application does not specify this timestamp, the server does it when the event is processed.
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key- value pairs as needed.

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See <a href="https://ht

#### Response

HTTP code	201
HTTP message	Created
Header	Location: \${base_uri}/service/\${service_id} where:  • \${base_uri} is the URI of the created service.  • \${service_id} is the service ID.
Body	<pre>{"service_id": \${service_id}} where: • \${service_id} is the service ID.</pre>

# Example

#### **Operation**

```
POST http://localhost:8080/genesys/1/cs/services/start
{
   "timestamp": "2009-05-12T12:05:12.145Z",
   "interaction_id": "123ABCAADFJ1259ACF",
```

```
"application_type":400,
  "application_id":40,
  "est_duration":60,
  "contact_key":"42",
  "service_type":100,
"media_type": 1,
"resource_id": 5005,
  "resource_type": 2,
"disposition": 10,
  "coupon": {
    "coupon_name": "DISCOUNTCODE15"
  "satisfaction": {
    "score": 85,
    "agentID": 2025
 },
"relatedOffers": [
           {
  "offer_name":"VIP credit card black ed.",
            "type":9,
             "comments": "proposed to all client"
           },
           {
    "offer_name":"3 times payment GOLD",
            "type":4,
            "comments":"limited offer"
            }
           ,{
  "offer_name":"life insurance",
            "type":3,
            "comments": "health check to be done before approval"
}
```

#### Result

```
HTTP 201 Created
location: /genesys/1/cs/services/12349857
{"service_id": 12349857}
```

# Start State



# Description

Starts a service state of a given type for a given service. UCS assigns auto-incrementing identifiers to the states, just like to services and tasks. States and tasks are assigned 32-bit identifiers.

# Operation

ID	CV.WS.SRV.5		
Method	POST		
URL	/genesys/1/cs/services/\${	service_id}/states/start	
Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	integer	yes	The service ID is specified in the request URI.
Body: State Start Event<	ref>This body contains fiel	ds from the State Start Eve	nt resource.
			The unique ID associated with the state type. Typically, the DB ID of a value in the Service Type Business Attribute <ref name="business"></ref>
state_type	long or string	yes	Refer to Configuration Options for more details on Business Attribute mapping. Enumerated values could be one of the following: <ol> <li>Customer identification</li> <li>Service identification</li> </ol>

ID	CV.WS.SRV.5		
			<ol> <li>Assign service agent</li> <li>Waiting for service agent</li> <li>Offering another service while waiting for agent</li> <li>Offering callback</li> <li>Callback pending</li> <li>Delivering service</li> <li>Waiting for customer input</li> <li>Offering another service while delivering service</li> </ol>
previous_state_id	integer	no	The ID of the previous state.
session_id	string	no	The ID of the related session; for instance, the orchestration session or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (Genesys DB ID) for the application issuing the service event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID

ID	CV.WS.SRV.5		
			associated with the type or class <ref name="business"></ref> of resource which provides the service (such as GVP, Agent Desktop, or Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"/&gt; applicable to the given state; for instance, e- mail, voice, or chat.</ref 
est_duration	integer	no	The estimated state duration in seconds.
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of milliseconds, using the ISO 8601 <pre>ISO 8601 8601"&gt;http://en.wikipedia.org.wiki/ISO_8601 //ref&gt; representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS]: If the application does not specify this</pre>
			timestamp, the server does it when the event is processed.
<extension key=""></extension>	Any JSON type	no	State attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	201
HTTP message	Created
	Location: \${base_uri}/service/\${service_id}/states/\${state_
	where:
Header	• \${base_uri} is the URI of the created service.
	• \${service_id} is the service ID.
	• \${state_id} is the ID of the created state.
	{"state_id": <b>\${state_id}</b> }
Body	where:
	• \${state_id} is the stateID.

### Example

#### **Operation**

```
POST /genesys/1/cs/services/12345/states/start
"application_type":400,
 "application_id":40,
 "resource_id":20,
 "media_type":2,
 "est_duration":60,
 "state_type":100,
 "Feedback":
   "FeedbackType": "survey",
  "rating":7,
"notes":"warm welcome at frontdesk, thanks for the nice trip"
 "Satisfaction": [
 "pertinence":8,
  "usefull":true,
  "place": "Terranova mexico resort"
 },
 {
```

```
"rating":8,
  "pertinence":4,
  "usefull":false,
  "place":"Fancy resort Paris"
}
]
```

#### Result

```
{"state_id": 1258276}
```

# Start Task



## Description

This operation starts a task of a given type for the given service. The type is one of the enumerated values recorded for the corresponding business attribute. See Business Attributes in Context Services for further details. UCS assigns auto-incrementing identifiers to states, services, and tasks. For states and tasks, the assigned identifiers are 32-bit integers; for services the identifier is a 64-bit integer.

## Operation

ID	CV.WS.SRV.8		
Method	POST		
URL	/genesys/1/cs/services/\${	service_id}/tasks/start	
Field Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	integer	yes	The unique 64-bit ID of the service.
<b>Body:</b> Task Start Event <r< td=""><td>ef&gt;This body contains field</td><td>s from the Task Start Event</td><td>resources.</td></r<>	ef>This body contains field	s from the Task Start Event	resources.
state_id	integer	no	The 32-bit integer ID of the state. See ServiceState.
task_type	long or string	yes	The unique ID associated with the type of task, typically the DB ID of a value in a Business Attribute representing customer service tasks for the given organization <ref name="business">  Refer to Configuration Options for more details on Business Attribute mapping.</ref> .

ID	CV.WS.SRV.8		
session_id	string	no	The ID of the related session, for instance, the orchestration session or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (Genesys DB ID) for the application issuing the event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (such as GVP, Agent Desktop, or Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given

ID	CV.WS.SRV.8			
			task; for instance, e- mail, voice, or chat.	
est_duration	integer	no	The estimated task duration in seconds.	
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of milliseconds, using the ISO 8601 <pre>ISO 8601</pre> ref name="ISO 8601">http://en.wikipedia.com/is/iso_8601 representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SS] If the application does not specify this timestamp, the server does it when the event is processed.	
<extension key=""></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key-value pairs as needed.	

<sup>&</sup>lt;references />

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	201
HTTP message	Created
	Location: \${base_uri}/service/\${service_id}/tasks/\${task_id}
	where:
Header	• \${base_uri} is the URI of the created service.
	• \${service_id} is the service ID.
	• \${task_id} is the created ID for the new task.
Body	{"task_id": <b>\${task_id}</b> }

HTTP code	201
	where: • \${task_id} is the task ID.

### Example

#### **Operation**

#### Result

```
{"task_id": 15928}
```

# Update Service Extension



# Description

This operation replaces the extension value with a new extension value. The former value of the extension is lost.

### **Important**

In 8.5, extensions are JSON key-value pairs. This ensures backward compatibility and simplifies the management of extensions.

This operation supports the update of multi-valued extensions.

# Operation

#### Updates a service's extension value

ID	CV.WS.SRV.4		
Method	PUT		
URL	/services/\${service_id}/extensions/\${ext_name}		
Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	integer	yes	The ID of the service.
\${ext_name}	string	yes	The name of the extension
Body			
<extension> or <extension>[]</extension></extension>	Any JSON type	yes	Attached data as key- value pairs or array of key-value pairs.

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK

### Example

#### Operation

The following operation updates the single-valued extension "score".

```
PUT /services/8389/extensions/score
{
    "score": 85,
    "agentID": 2025
}
```

#### **Operation**

The following operation updates the multi-valued extension "relatedOffers".

#### Result

200 OK

# Update State Extension



PUT /genesys/1/cs/ services/\${service\_id}/states/\${state\_id}/extensions/\${extensions

### Description

This operation replaces the extension value with a new extension value. The former value of the extension is lost.

# Operation

#### Updates a state's extension value

ID	CV.WS.SRV.17			
Method	PUT	PUT		
URL	/genesys/1/cs/ services/\${service_id}/states/\${state_id}/extensions/\${ext_name}			
Name	Туре	Mandatory	Description	
<b>URI Parameters</b>				
\${service_id}	integer	yes	The ID of the service.	
\${state_id}	integer	yes	The ID of the state.	
\${ext_name}	string	yes	The name of the extension.	
Body				
<extension> or <extension>[\</extension></extension>	value	yes	Values for one or more extensions.	

# Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK

## Example

#### Operation: Update a multi-valued extension

```
PUT /genesys/1/cs/services/8389/states/1/extensions/Satisfaction
[
    {
        "rating":2,
        "pertinence":8,
        "usefull":true,
        "place":"Terranova mexico resort"
},
    {
        "rating":8,
        "pertinence":4,
        "usefull":false,
        "place":"Fancy resort Paris"
}
```

#### Result

200 OK

#### Operation: Update a single-valued extension

```
PUT /genesys/1/cs/services/8389/states/1/extensions/Feedback
{
    "FeedbackType":"survey",
    "rating":7,
    "notes":"warm welcome at frontdesk, thanks for the nice trip"
}
```

#### Result

200 OK

# Update Task Extension



## Description

This operation replaces the extension value with a new extension value. The former value of the extension is lost.

## Operation

#### Updates a state's extension value

ID	CV.WS.SRV.18		
Method	PUT		
URL	/genesys/1/cs/ services/\${service_id}/tasks/\${task_id}/extensions/\${extension_name}		
Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${service_id}	integer	yes	The ID of the service.
\${task_id}	integer	yes	The ID of the task.
\${extension_name}	string	yes	The name of the extension
Body			
<extension n=""></extension>	Any JSON type	yes	Values for one or more extension attached data.

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further

details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK

# Example

#### Operation

Update a multi-valued extension.

#### Result

200 OK

#### Operation

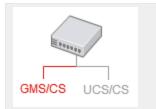
Update a single-valued extension.

```
PUT /services/8389/tasks/42/extensions/Survey
{
    "url":"http://ourServer/storage/userAnswers",
    "question1":7,
    "question2":true,
    "question3":"will be better with cable tv and on-demand video"
}
```

#### Result

200 OK

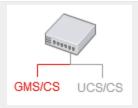
# Service Resources



Groups the Service resources.

- End Event List: List of the end events that your application can receive if a service, state, or task is terminated.
- Extension: JSON extension for the service API.
- State Transition Event: Your application can receive this event if a service performs a transition between two states.
- Service: The service resource, which is a container for nested states and tasks.
- State: The state resource.
- Start Event List: List of the start events that your application can receive if a service, state, or task is started.
- Task: The task resource.

# End Event List



**Purpose:** Lists the End Event resources used to describe the end of a service, state, or task.

### Service End Event

Field	Туре	Mandatory	Description
service_id	integer	yes	The unique 64-bit ID of the given service.
session_id	string	no	The ID of the related session (for instance, the orchestration session or any other business session). Limited to 32 characters.
interaction_id	string	no	The ID of the interaction at the service event's creation. Limited to 50 characters.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business">fckLRRe to Configuration Options for more details on Business Attribute mapping.</ref> of application which issued the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The Genesys DB ID for the application which issues the service event, such as a GVP VoiceXML application, Orchestration SCXML application, and so on.
resource_type	long or string	no	The unique ID

Field	Туре	Mandatory	Description
			associated with the type or class <ref name="business"></ref> of resource providing the service (for example, GVP, Agent Desktop, Orchestration).
			The unique DB ID for the specific resource which provides the service. For instance:
resource_id	integer	no	<ul> <li>The Genesys DB ID of a specific GVP or orchestration platform</li> </ul>
			<ul> <li>The DB ID of a given agent, according to the context</li> </ul>
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given service, such as e-mail, voice, chat, and so on.
disposition	long or string	no	The unique ID for the business disposition <ref name="business"></ref> assigned to the given service. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions.
disposition_desc	string	no	A text description that provides additional information about the business disposition. Limited to 64 characters.
timestamp	date/time	no	The UTC time at which the service event was raised, with a precision of milliseconds, using the ISO 8601 <pre>representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SS]</pre>

Field	Туре	Mandatory	Description
			If the application does not specify this timestamp, the server adds it when the service event is processed.
<extension></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

## **Related Operations**

• Complete Service

## State End Event

Field	Туре	Mandatory	Description
service_id	integer	yes	The unique 64-bit ID of the given service.
state_id	integer	yes	The 32-bit ID of the given state.
session_id	string	no	The ID of the related session (for instance, the orchestration session or any other business session). Limited to 32 characters.
interaction_id	string	no	The ID of the interaction at the service event's creation. Limited to 50 characters.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business">fckLRRe to Configuration Options for more details on Business Attribute mapping.</ref> of application which issued the state event. May be used to group related applications, potentially across resource types.

Field	Туре	Mandatory	Description
application_id	integer	no	The Genesys DB ID for the application which issues the state event, such as a GVP VoiceXML application, Orchestration SCXML application, and so on.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource providing the related service (for example, GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the related service. For instance:  • The Genesys DB ID of a specific GVP or orchestration platform  • The DB ID of a given agent, according to the context
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given state, such as e-mail, voice, chat, and so on.
disposition	long or string	no	The unique ID for the business disposition <ref name="business"></ref> assigned to the given state. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions.
disposition_desc	string	no	A text description that provides additional information about the business disposition. Limited to 64 characters.
timestamp	date/time	no	The UTC time at which the service event was

Field	Туре	Mandatory	Description
			raised, with a precision of milliseconds, using the ISO 8601 <pre>ref name="iso8601"&gt;See http://en.wikipedia.org/ wiki/ISO_8601 // ref&gt; representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[S  If the application does not specify this timestamp, the server adds it when the service event is processed.</pre>
<extension></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

### **Related Operations**

• Complete State

## Task End Event

Field	Туре	Mandatory	Description
service_id	integer	yes	The unique 64-bit ID of the given service.
			The ID of the related state.
state_id	integer	no	Important  If the task is optional, you have no obligation to associate it with a state. For instance, you can associate this task with a higher service level.
task_id	integer	yes	The ID of the given task.
session_id	string	no	The ID of the related session (for instance, the orchestration session or any other business session). Limited to 32 characters.

Field	Туре	Mandatory	Description
interaction_id	string	no	The ID of the interaction at the service event's creation. Limited to 50 characters.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business">fckLRRe to Configuration Options for more details on Business Attribute mapping.</ref>
application_id	integer	no	The Genesys DB ID for the application which issues the service event, such as a GVP VoiceXML application, Orchestration SCXML application, and so on.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource providing the service (for example, GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • The Genesys DB ID of a specific GVP or orchestration platform  • The DB ID of a given agent, according to the context
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given task, such as e-mail, voice, chat, and so on.
disposition	long or string	no	The unique ID for the business disposition <ref< td=""></ref<>

Field	Туре	Mandatory	Description
			name="business" /> assigned to the given task. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions.
disposition_desc	string	no	A text description that provides additional information about the business disposition. Limited to 64 characters.
timestamp	date/time	no	The UTC time at which the service event was raised, with a precision of milliseconds, using the ISO 8601 <pre>ref name="iso8601"&gt;See http://en.wikipedia.org/wiki/ISO_8601 representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SS]  If the application does not specify this timestamp, the server adds it when the service event is processed.</pre>
<extension></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

## **Related Operations**

• Complete Task

# Extension



Purpose: Describes an extension.

### Description

An extension is an attached data, available as a key-value pair where the key is a string and the value a JSON type (object, array, numbers, etc.) You can add, remove, and update extensions added to services, states, and tasks. In 8.5 and further releases, there is no schema definition for extensions. Your application can create and add extension records when dealing with standard services, states, and task operations. For instance, if you start a task, you can specify extensions in your operation body as shown in the following query:

```
POST /genesys/1/cs/services/21456878/tasks/start
{
  "interaction_id":42,
 "est duration":460,
 "state_id":24,
 "task_type":customer info,
 "Survey":
   "url": "http://ourServer/storage/userAnswers",
   "question1":7,
   "question2":true,
   "question3": "will be better with cable tv and on-demand video"
  },
"Proposal": [
            "car type":"cabriolet",
            "price":25 000,
"seats":2,
            "comments": "200 cv, hardtop"
            "car type":"S.U.V.",
            "price":70 000, 
"seats":8,
            "comments": "4wd, leather seats"
}
```

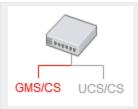
There is no specific field for service extensions. In the API reference, you can see that extensions are available when the <extension key> parameter is present, as follows:

#### Service/State/Task Extension

Field	Туре	Mandatory	Description
<extension key=""></extension>	Any JSON type	no	Attached data as key- value pairs. You can use as many key-value pairs as needed.

<references />

# State Transition Event



**Purpose:** State Transition event used to describe the transition of a state.

## Description

Combines state event resources to describe the completion of a given state and the start of a new state in a single request, rather than issuing separate start and end requests.

#### Resource

#### **Important**

When your application deals with this resource, parts of the *from* and *to* fields are shared. See below.

#### **State Transition Event**

Field	Туре	Mandatory	Description
service_id	integer	yes	The unique ID of the related service.
from	hash	yes	The hash of the following fields describing the state from which the service is transitioning:  • state_id (mandatory): The 32-bit ID of the state to complete.  • disposition (optional): The unique ID for the business disposition

Field	Туре	Mandatory	Description
			assigned to the given state. For instance, this can be the DB ID of a Business Attribute used to enumerate a given organization's business dispositions <ref name="business">.   Refer to Configuration Options for more details on Business Attribute mapping.</ref> • disposition_desc (optional): The text description which provides additional context on the business disposition. Limited to 64 characters.
to	hash	yes	The hash of the following fields, which describe the state into which the service is transitioning:  • state_type (mandatory): The unique ID associated with the type of service, typically the DB ID of a value in the Service Type Business Attribute <ref name="business"></ref> .  • est_duration (optional): The estimated service duration in seconds.
The following fields ap	ply both to the state to com	nplete and the state to start	:
session_id	string	no	The ID of the related session, for instance, the orchestration session, or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction.

Field	Туре	Mandatory	Description
			This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (e.g. Genesys DB ID) for the application issuing the service event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (for example, GVP, Agent Desktop, or Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"/&gt; applicable to the given service/state/task, for instance, e-mail, voice, chat, etc.</ref 
timestamp	date/time	no	The UTC time at which the event was raised,

Field	Туре	Mandatory	Description
			with a precision of milliseconds, using the ISO 8601 <pre> ref name="ISO 8601"&gt;http://en.wikipedia.wiki/ISO_8601</pre> representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SS] If the application does not specify this timestamp, the server does it when the event is processed.
<extension></extension>	Any JSON type	no	State attached data as key-value pairs. You can add as many key-value pairs as needed.

<sup>&</sup>lt;references />

# Related Operations

• Perform State Transition

## Service



**Purpose:** Describes the Service resource.

### Description

### **Important**

Provides a consolidated view of the service information.

Services are customer commitments defined by the business application (IVR, Orchestration, Agent, etc.) which interacts with the customer. Each service potentially spans multiple interactions over a variety of media channels. Each service can be divided into States which include a list of Tasks. The service is completed once the states and their tasks are completed. Your application is responsible for state transitions and task management. The service resources (creation, start, or end) are managed through Service Operations, which update the service information through service events (Start Event and End Events).

#### Resource

This table lists the resource fields that your application can deal with through operations. According to the operation, your application may not use the totality of the resource.

Field	Туре	Mandatory	Description
service_type	long or string	yes	The unique ID associated with the type of service, typically, the DB ID of a value in the Service Type Business Attribute.  Refer to Configuration Options for more details about Business Attribute mapping.
service_id	integer	yes	The service's unique

Field	Туре	Mandatory	Description
			ID. <ref name="toplevel">Only top-level objects include this field. For instance, if your application retrieves a service which includes nested states and tasks, only the top-level service object contains this ID.</ref>
started	Service Start Event	yes	Start event (see Start Service). This event should not include the "est_duration" field, if it already exists at the service level.
completed	Service End Event	no	The related end event if the service is completed (see Complete Service).  Important This field should not include the "disposition" and "disposition_desc" fields if they already exist at the service level.
customer_id	string	no	The customer's unique ID <ref name="toplevel"></ref> . If the service has no customer ID, the service is Anonymous Service.
est_duration	integer	no	The estimated time for completing the service, in seconds.
duration	integer	no	The total duration in milliseconds. Only relevant for completed services.
disposition	long or string	no	ID of the Business disposition ID. Only relevant for completed services.
disposition_desc	string	no	The reason for assigning the business disposition with the service element. Limited to 256 characters.
active_states	State[]	no	The array of the started states which are not

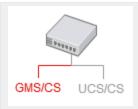
Field	Туре	Mandatory	Description
			completed.
completed_states	State[]	no	The array of completed states through which the service has made transitions.
active_tasks	Task[]	no	The array of the started tasks which are not complete.
completed_tasks	Task[]	no	The array of the tasks which are complete as part of the service delivery.
interactions	Interaction[]	no	The array of the interactions which are associated with this service.
<extension></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

# Related Operations

- Query Services
- Query Service by ID

# State



**Purpose:** Describes a State Resource.

## Description

Describes one of the service states.

Throughout their lifecycle, services go through states such as:

- · customer identification
- · agent assignment
- · service delivery

The exact sequence of states depends on the steps which your customer service application implements (for example, IVR, orchestration, or agent application). Your application is responsible for starting and completing states, but also for managing state transitions. Each State can also contain nested Task resources (zero or more) that your application should manage as well.

#### Resource

This table lists the resource fields that your application can deal with through operations. According to the operation, your application may not use the totality of the resource.

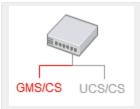
Field	Туре	Mandatory	Description
state_id	integer	yes	The 32-bit integer ID of the state, assigned by the UCS when the state is started.
state_type	long or string	yes	The unique ID associated with the state type. For instance, this ID can be the DB ID of a value in the Service Type Business Attribute.  Enumerated values could be

Field	Туре	Mandatory	Description
			one of the following:  1. Customer
			identification
			2. Service identification
			3. Assign service agent
			Waiting for service agent
			5. Offering another service while waiting for agent
			6. Offering callback
			7. Callback pending
			8. Delivering service
			9. Waiting for customer input
			10. Offering another service while delivering service
			Refer to Configuration Options for more details on <i>Business</i> Attribute mapping.
service_id	integer	yes/no	The service's unique ID if the state is not part of a top-level service resource which includes a service ID. <ref name="toplevel">Only top-level representations include this field. For instance, if your application retrieves a service which includes nested states and tasks, only the top-level service resource contains this ID.</ref>
started	State Start Event	yes	Related start event. This field should not repeat the "est_duration" field, if it already exists.
completed	State End Event	no	The related end event if the state is completed. This field should not

Field	Туре	Mandatory	Description
			repeat the "disposition" and "disposition_desc" fields if they already exist.
est_duration	integer	no	The estimated time for completing the state, in seconds.
duration	integer	no	The total duration, in milliseconds. Only relevant for completed states.
disposition	long or string	no	ID of the Business disposition ID. Only relevant for completed states.
disposition_desc	string	no	The reason for assigning the business disposition with the service element. Limited to 256 characters.
active_tasks	Task[]	no	The array of tasks that are started but not yet complete.
completed_tasks	Task[]	no	The array of Task that are complete.
<extension></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<sup>&</sup>lt;references />

# Start Event List



**Purpose:** Lists the Start Event resources used to describe the start of a service, state, or task.

### Service Start Event

**Description** This resource describes information useful to manage the start or the creation of a service.

Field	Туре	Mandatory	Description
customer_id	string	yes if no contact_key	The unique ID of the customer associated with the given service.  Important Services with no customer_id are anonymous. In this case,
			the event should include a contact_key.
contact_key	string	yes if no customer_id	Key for later lookup of the service. This contact_key is mandatory if no customer ID is specified. For example, the application might store a PIN, or the ANI, as the contact key when the service is first started. Later, if the customer is identified, the contact key is used to lookup the existing service record and associate it with the customer.
service_type	long or string	yes	The unique ID associated with the type of service, typically the DB ID of a value in the Service Type Business Attribute <ref name="business">.</ref>

Field	Туре	Mandatory	Description
			Refer to Configuration Options for more details on Business Attribute mapping..
session_id	string	no	The ID of the related session, for instance, the orchestration session, or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID, for example, Genesys DB ID, for the application issuing the service event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (for example, GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given

Field	Туре	Mandatory	Description
			agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given service, for instance, e-mail, voice, chat, etc.
est_duration	integer	no	The estimated service duration, in seconds.
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of milliseconds, using the ISO 8601 <pre> ref name="ISO 8601"&gt;http://en.wikipedia.or wiki/ISO_8601 representation: [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [SSS If the application does not specify this timestamp, the server does it when the event is processed.</pre>
<extension></extension>	Any JSON type	no	Service attached data as key-value pairs. You can add as many key- value pairs as needed.

<references />

### **Related Operations**

- Start Service
- Associate Service

### State Start Event

### **Description** This resource describes the start of the service state.

Field	Туре	Mandatory	Description
service_id	integer	yes	The unique 64-bit ID of the service.
state_type	long or string	yes	The unique ID

Field	Туре	Mandatory	Description
			associated with the state type, typically, the DB ID of a value in the Service Type Business Attribute <ref name="business">.</ref>
			Refer to Configuration Options for more details on Business Attribute mapping.. Enumerated values may be from the following:
			Customer identification
			2. Service identification
			3. Assign service agent
			Waiting for service agent
			5. Offering another service while waiting for agent
			6. Offering callback
			7. Callback pending
			8. Delivering service
			Waiting for customer input
			<ol> <li>Offering another service while delivering service</li> </ol>
previous_state_id	integer	no	The ID of the previous state.
session_id	string	no	The ID of the related session, for instance, the orchestration session, or any other business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of

Field	Туре	Mandatory	Description
			application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID, for example, Genesys DB ID, for the application issuing the service event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (for example, GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service, for instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given state, for instance, e-mail, voice, chat, etc.
est_duration	integer	no	The estimated state duration in seconds.
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of milliseconds, using the ISO 8601 <pre>representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SS]</pre>

Field	Туре	Mandatory	Description
			If the application does not specify this timestamp, the server does it when the event is processed.
<extension></extension>	Any JSON type	no	State attached data as key-value pairs. You can add as many key-value pairs as needed.

<references />

## **Related Operations**

- Complete State
- Perform State Transition
- Query State by ID
- Query States
- Start State

### Task Start Event

### **Description**: Describes the start of a Task.

Field	Туре	Mandatory	Description
service_id	integer	yes	The unique 64-bit ID of the service.
state_id	integer	no	The 32-bit integer ID of the state. See State.
task_type	long or string	yes	The unique ID associated with the type of task, typically the DB ID of a value in a Business Attribute representing customer service tasks for the given organization <ref name="business"> Refer to Configuration Options for more details on Business Attribute mapping.</ref> .
session_id	string	no	The ID of the related session, for instance, the orchestration session, or any other

Field	Туре	Mandatory	Description
			business session.
interaction_id	string	no	The ID of the related Genesys interaction. This ID can be used by other Genesys reporting products such as Stat Server, URS, Composer, and GVP.
application_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of application issuing the service event. May be used to group related applications, potentially across resource types.
application_id	integer	no	The unique ID (e.g. Genesys DB ID) for the application issuing the event, such as a GVP VoiceXML application or an Orchestration SCXML application.
resource_type	long or string	no	The unique ID associated with the type or class <ref name="business"></ref> of resource which provides the service (for example, GVP, Agent Desktop, Orchestration).
resource_id	integer	no	The unique DB ID for the specific resource which provides the service. For instance:  • the Genesys DB ID of a specific GVP or orchestration platform.  • the DB ID of a given agent, according to the context.
media_type	long or string	no	The media type <ref name="business"></ref> applicable to the given task, for instance, e-mail, voice, chat, etc.
est_duration	integer	no	The estimated task duration, in seconds.

Field	Туре	Mandatory	Description
timestamp	date/time	no	The UTC time at which the event was raised, with a precision of milliseconds, using the ISO 8601 <pre>ref name="ISO 8601"&gt;http://en.wikipedia.wiki/ISO_8601 // representation: [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [S If the application does not specify this timestamp, the server does it when the event is processed.</pre>
<extension></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

<sup>&</sup>lt;references />

# Task



Purpose: Represents a Task.

### Description

#### Describes one task.

Tasks allow your application to divide a State into a collection of tasks, each with its own disposition. Zero or more tasks can be executed as part of the Service Delivery state. Your application is responsible for managing these tasks.

#### **Important**

If the state is optional, your application can associate the task with a service instead of a state.

#### Resource

This table lists the resource fields that your application can deal with through operations. According to the operation, your application may not use the totality of the resource.

Field	Туре	Mandatory	Description
state_id	integer	no	The 32-bit integer ID for the state associated with the task.
task_id	integer	no	The 32-bit integer ID of the task, assigned by the UCS when the task is started.
service_id	integer	no	The service's unique ID if the task is not part of a top-level state or service resource which includes a service

Field	Туре	Mandatory	Description
			ID. <ref name="toplevel">Only top-level representations include this field. For instance, if your application retrieves a service which includes nested states and tasks, only the top-level service representations contain this ID.</ref>
started	Task Start Event	yes	Related start event. This event should not include the "est_duration" field, if it already exists at the task level.
completed	Task End Event	no	The related end event if this task is completed. This event should not repeat the "disposition" and "disposition_desc" fields if they already exist at the task level.
customer_id	string	no	The customer's unique ID <ref name="toplevel"></ref> .
est_duration	integer	no	The estimated time for completing the item, in seconds.
duration	integer	no	The total duration, in milliseconds. Only relevant for completed tasks.
disposition	long or string	no	ID or name of the Business Disposition ID associated with the task. See Business Attributes for further details. Only relevant for completed tasks.
disposition_desc	string	no	The reason for assigning the business disposition with the service element. Limited to 256 characters.
<extension></extension>	Any JSON type	no	Task attached data as key-value pairs. You can add as many key-value pairs as needed.

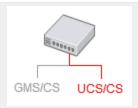
<references />

# Related Operations

- Complete Task
- Query Task by ID
- Query Tasks
- Start Task

Customer Profile API Service Resources

# Customer Profile API



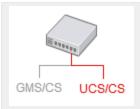
This icon identifies all the queries related to data managed on the UCS side. These queries cover interactions, identification and profile management.

- Profile Operations
  - POST /profiles
  - GET /profiles
  - POST /profiles/\${customer id}/extensions
  - GET /profiles/\${customer id}
  - PUT /profiles/\${customer id}
    - PUT /profiles/\${customer id}/extensions/\${ext name}/by/unique
    - PUT /profiles/\${customer id}/extensions/\${ext name}/delete/by/unique
    - PUT profiles/\${customer\_id}/merge/\${src\_id}/
- · Schema and Identification Key Operations
  - GET /metadata/profiles/
  - POST /metadata/profiles/extensions
  - GET /metadata/profiles/extensions
  - GET /metadata/identification-keys
  - POST /metadata/identification-keys
  - GET \${content-type} /metadata
  - DELETE /metadata/profiles/extensions/\${extension-name}
  - DELETE /metadata/identification-keys/\${id\_key-name}
- Interaction Resources
  - · Chat Interaction
  - · Callback Interaction
  - E-mail Interactions
  - Phone Call Interaction
- · Profile Resources
  - Customer Profile

Customer Profile API Service Resources

- Profile Extension
- Identification Key

# Interaction Operations



**Purpose:** Groups operations which handle multimedia interactions.

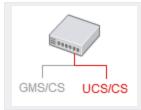
#### Interaction Resources

- Callback Interaction
- Chat Interaction
- E-mail Interaction
- Phone Call Interaction

## Interaction Operations

- GET /customers/\${customer id}/interactions
- GET /services/\${service id}/interactions
- GET /interactions/\${interaction id}

# Query Interactions



- GET /customers/\${customer\_id}/interactions
- GET /interactions/\${interaction\_id}

## Description

Retrieves multimedia interactions and their data.

# Operation

#### **Queries Multimedia Interactions**

ID	CV.WS.IXN.2		
Method	GET		
URL	<ol> <li>By Customer: /customers/\${customer_id}/interactions</li> <li>By Interaction ID: /interactions/\${interaction_id}</li> </ol>		
Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${customer_id}	string	yes if query is by customer.	Customer ID, required for URI 1.
\${service_id}	integer	yes if query is by service.	Service ID, required for URI 2.
\${interaction_id}	integer	yes if query is by interaction.	Service ID, required for URI 3.



### **Important**

The output sample shows a "structured\_text" parameter which provides a URL to the structured text content (which is not returned as part of the query): the user application performs a separate GET to the given URL.

Similarly, the following URLs are available for GETting interaction content:

- /interactions/\${interaction id}/plain text
- /interactions/\${interaction\_id}/structured\_text
- /interactions/\${interaction\_id}/binary\_content

#### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK
Body	An array of one or more Interaction Resources.

### Example

#### **Operation**

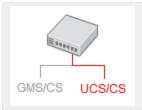
GET http://ucshost:8080/interactions/00001a57JGQ00BW8

#### Result

```
"external_id" : "00AF4A7951D60009",
"established_date" : "2009-08-05T09:33:15.000Z",
"text" : "http://ucshost:8080/interactions/00001a57JGQ00BW8/plain_text",
"media_type" : "chat",
"udata" : {
    "RTargetTypeSelected" : "2",
    "RRequestedSkillCombination" : "",
    "ChatServerHost" : "SUITE80",
    "CustomerSegment" : "default",
    "RTargetObjectSelected" : "Agent Group Everybody",
    "RTargetRuleSelected" : "Place_1002",
    "RTargetPlaceSelected" : "Place_1002",
    "RTargetAgentGroup" : "Agent Group Everybody",
    "RTargetObjSelDBID" : "123",
    "ServiceType" : "default",
    "_smsSrcNumber" : "+33298143456",
    "RTargetAgentSelected" : "1002",
    "RTenant" : "defaultTenant",
    "RVQID" : "",
```

```
"CBR-contract_DBIDs" : "",
  "CBR-Interaction_cost" : "",
  "ChatServerPort" : "23874",
  "_smsDestNumber" : "+33298143322",
  "RTargetRequested" : "Agent Group Everybody",
  "CBR-IT-path_DBIDs" : "",
  "RStrategyDBID" : "480",
  "CBR-actual_volume" : "",
  "RStrategyName" : "sms-session-inbound"
},
  "binary_content" : "http://ucshost:8080/interactions/00001a57JGQ00BW8/binary_content",
  "structured_text" : "http://ucshost:8080/interactions/00001a57JGQ00BW8/structured_text",
  "status" : 3,
  "subject" : "SMS chat",
  "timeshift" : 1,
  "type" : "Inbound",
  "interaction_id" : "00001a57JGQ00BW8",
  "allow_children" : true,
  "end_date" : "2009-08-05T09:34:04.140Z",
  "owner_id" : 124,
  "sub_type" : "InboundNew",
  "released_date" : "2009-08-05T09:33:59.000Z",
  "entity_type" : 2,
  "creator_app_id" : 175,
  "thread_id" : "00001a57JGQ00BW9",
  "start_date" : "2009-08-05T09:33:10.000Z",
  "structured_text_mime" : "text/xml",
  "customer_id" : "00001a57JGQ00BVU"
}
```

# Interaction Resources



Lists interaction resources.

- Callback Interaction
- Chat Interaction
- E-mail Interaction
- Phone Call Interaction

# Callback Interaction

## Purpose

Provides context information relevant to a given multimedia callback interaction. A customer can ask for a callback if he or she is not available for the moment. In that case, based on the application's inputs, the system schedules the callback interaction at a time which meets the user's expectations.

#### Resource

Field	Туре	Mandatory	Description			
Callback-related inforn	Callback-related information					
callback_status	integer	no	Status for the callback.  O-UNKNOWN  1-RECEIVED  2-TIMER  3-QUEUED  4-DISTRIBUTED  5-SUBMITTED_TO_AGT  6-REJECTED_BY_AGT  7-CANCELED_BY_AGT  8-PROCESSED_BY_AGT  9-FINAL  10-NOT_QUEUED  11-ERROR  12-REPLACED  13-AGT_TRANSFER  14-ENDTIME_EXPIRED			
desired_response_type	string	yes	Possible types:  • Voice  • VoIP  • Email			

Field	Туре	Mandatory	Description
start_time	date/time	yes	Time for starting the callback.
end_time	date/time	no	Limit time for executing the callback.
customer_number	string	yes	Contact information for the customer. Depends on the media type (i.e. phone number, IP address for VoIP, or email address).
attempts	integer	yes	The number of callback attempts that have been made.
dn	string	no	The DN to which the CallBack server sent the request.
location	string	no	Name of the switch to which the DN belongs.
callback_server_id	string	no	Identifies the CallBack server that handled the request.
			One of the following results:
			• 0 - OK
			• 1 - TRANSFERRED
			• 2 - CONFERENCED
			• 3 - GENERAL_ERROR
			• 4 - SYSTEM_ERROR
			• 5 - REMOTE_RELEASE
			• 6 - BUSY
call_result	integer	no	• 7 - NO_ANSWER
			8 - SIT_DETECTED
			<ul> <li>9 - ANSWERING_MACHINE</li> </ul>
			• 10-
			ALL_TRUNKS_BUSY • 11-
			SIT_INVALID_NUM
			• 12- SIT_VACANT
			• 13- SIT_OPER_INTERCEPT

	cription
• 15- SIT_I • 16- SIT_I • 16- SIT_I • 17- SIT_FAX. • 18- QUEI • 19- CLEA • 20- OVEI • 21- ABAI • 22- RBAI • 22- FORI • 24- CON • 25- PICK • 26- DRO • 27- DROPPE • 28- UNK! • 29- COV • 30- CON • 31- BRID • 32- SILEI • 33- ANU_I • 35- NO_I • 36- NO_I • 37- NO_I • 38- NO_ESTI • 39- PAGER_I • 40- WRC • 41- DIAL	UNKNOWN NO_CIRCUIT REORDER  (_DETECTED EUE_FULL ARED ERFLOWED ANDONED DIRECTED EWARDED ANDONED DIRECTED EWARDED ANSWER KNOWN VERED AVERSE_ON DGED ENCE EWER TONE DIAL_TONE PROGRESS RING_BACK TABLISHED ONG_PARTY

Field	Туре	Mandatory	Description
			<ul> <li>43- SWITCH_ERROR</li> <li>44- NO_FREE_PORT_ERROR</li> <li>45- TRANSFER_ERROR</li> <li>46- STALE</li> <li>47- AGT_CALLBACK_ERROR</li> <li>48- GRP_CALLBACK_ERROR</li> <li>49- DEAFENED</li> <li>50- HELD</li> <li>51- DO_NOT_CALL</li> <li>52- CANCEL_RECORD</li> <li>53- WRONG_NUMBER</li> </ul>
callback_type	integer	no	Possible types:  • 0-UNKNOWN  • 1-ASAP  • 2-SCHEDULED
Common interaction fie	elds		
customer_id	string	yes	The ID of the customer.
interaction_id	string	yes	The Genesys GUID (or Call ID) for the interaction.
status	integer	yes	Possible statuses:  • 0-NEW  • 1-PENDING  • 2-IN_PROCESS  • 3-STOPPED
entity_type	integer	yes	Possible types:  • 0-EMAIL_IN  • 1-EMAIL_OUT  • 2-CHAT

Field	Туре	Mandatory	Description
			<ul><li>3-PHONE_CALL</li><li>5-CALLBACK</li><li>6-COBROWSE</li><li>7-INTERACTION (open media)</li></ul>
type	string	yes	The type of the interaction (e.g. inbound, outbound, etc.)
sub_type	string	no	The application-specific subtype which further classifies the attribute "type".
media_type	string	yes	The media type of the interaction:  • voice  • email  • chat  • callback  • and so on.
parent_id	string	no	The ID of the parent interaction, if applicable.
thread_id	string	no	The ID of the thread to which this interaction should be appended, or the ID of the interaction at the root of the thread.
external_id	string	no	The reference identifier for an external system.
owner_id	integer	no	The DB ID of the Person who owns the interaction. (The Person is an object defined in the Genesys Configuration Server.)
creator_app_id	integer	yes	The DB ID of the application that created the interaction.
start_date	date/time	yes	The UTC time of the interaction's creation, using the ISO 8601 representation <ref< td=""></ref<>

mame="so8601">http://en.wikipedia   wiki/SO_8601>*entp./en.wikipedia   wiki/SO_8601>*entp./en.wikipedia   wiki/SO_8601>*entp./en.wikipedia   wiki/SO_8601>*entp./en.wikipedia   wiki/SO_8601>*entp./en.wikipedia   wiki/SO_8601>*entp./en.wikipedia   the ISO_8601   representation=ref   enteraction*s end, using the IsO_8601 representation=ref   enteraction*s end, using the IsO_8601 representation=ref   enteraction*s end, using the IsO_8601 representation=ref   enteraction*s end, using the IsO_8601 representation=ref   enteraction*s end for the interaction of the substract from the specified   UTC <=ref   name="iso8601" /> time in order to get the local time in the pecified   UTC <=ref   name="iso8601" /> time in order to get the local time of the interaction post of the interaction with the desktop's manual override.  The category_assigned   to this interaction by the Classification Server or the desktop's manual override.  True if child interactions can be added.	Field	Туре	Mandatory	Description
end_date  date/time  no  interaction's end, using the ISO 8601 representation timeshift  integer  no  The number of minutes to add to or to substratt from the specified UTC timeshift  integer  no  allow_children  Boolean  Boolean  no  Boolean  no  The category assigned to this interaction by the Classification Server or the desktop's manual override.  True if child interactions can be added.  Pefault value is true.  subject  string  no  An arbitrary textual subject for the interaction.  The application-specified reason for which the interaction ended.  text  text  text  no  Plain text for the interaction ended.  The URL of the interaction ended.  The Will of the interaction ended.  The URL of the interaction ended.  The mime type structured_text  url  no  structured_text  text  text  yes if structured_text  true,  The mime type structured text, if specified (e.g. text) thm), Mandatory if the parameter "structured text." is specified (e.g. text) thm), Mandatory if the parameter "structured text." is specified (e.g. text) thm), Mandatory if the parameter "structured text." is				[YYYY] - [MM] -
timeshift  integer  no  from the specified UTC <ref name="iso8601"></ref> time in order to get the local time of the interaction's creation.  The category assigned to this interaction by the Classification Server or the desktop's manual override.  True if child interactions can be added.  Default value is true.  subject  string  no  string  no  allow_children  Boolean  no  An arbitrary textual subject for the interaction.  The application-specified reason for which the interaction ended.  text  text  no  Plain text for the interaction.  The URL of the interaction.  The URL of the interaction's structured text.  The mime type <ref name="mime"> true "mime"&gt; true "mime"&gt; true "he mime type</ref> for the structured text.  The mime type Jassignments/media-types Jass	end_date	date/time	no	interaction's end, using the ISO 8601 representation <ref name="iso8601" /&gt;: [YYYY] - [MM] -</ref 
category_id string no Classification Server or the desktop's manual override.  It will be desktop's manual override.  Boolean no True if child interactions can be added.  Default value is true.  An arbitrary textual subject for the interaction.  The application-specified reason for which the interaction ended.  text text no Plain text for the interaction.  The URL of the interaction.  The URL of the interaction's structured text.  The mime type  The mime type  The mime type  The massignments/mediatypes  The mime type  The mime type  The massignments/mediatypes  The mime type  The mime type  The massignments/mediatypes  The mime type  The massignments/mediatypes  The mime type  The mime type  The massignments/mediatypes  The mime type  The particular devention as the classified (e.g. text/)  Thum). Mandatory if the parameter  "structured_text" is	timeshift	integer	no	to add to or to substract from the specified UTC <ref name="iso8601"></ref> time in order to get the local time of the
allow_children  Boolean  no  can be added.  Default value is true.  An arbitrary textual subject for the interaction.  The application-specified reason for which the interaction ended.  text  text  no  Plain text for the interaction.  The URL of the interaction's structured text.  The mime type <ref name="mime">http://www.iana.org/assignments/mediatypes structured_text  structured_text  yes if structured_text  parameter "structured_text" is</ref>	category_id	string	no	to this interaction by the Classification Server or the desktop's manual
subject string no subject for the interaction.  The application-specified reason for which the interaction ended.  text text no Plain text for the interaction.  The URL of the interaction's structured text.  The mime type <ref name="mime">http://www.iana.org/assignments/mediatypes</ref> structured_text_mime string yes if structured_text for the interaction structured text.	allow_children	Boolean	no	can be added.  Postport Default value is
stopped_reason string no specified reason for which the interaction ended.  text text no Plain text for the interaction.  The URL of the interaction's structured text.  The mime type <ref name="mime">http://www.iana.org/assignments/mediatypes</ref> structured_text for the interaction.  The URL of the interaction's structured text.  The mime type <ref name="mime">http://www.iana.org/assignments/mediatypes</ref> structured text, if specified (e.g. text/html). Mandatory if the parameter "structured_text" is	subject	string	no	subject for the
structured_text url no interaction.  The URL of the interaction's structured text.  The mime type <ref name="mime">http://www.iana.org/assignments/media-types</ref> for the structured text, if specified (e.g. text/html). Mandatory if the parameter "structured_text" is	stopped_reason	string	no	specified reason for which the interaction
structured_text url no interaction's structured text.  The mime type <ref name="mime">http://www.iana.org/assignments/mediatypes</ref> for the structured text, if specified (e.g. text/html). Mandatory if the parameter "structured_text" is	text	text	no	
structured_text_mime  string  yes if structured_text  yes if structured_text  name="mime">http://www.iana.org/ assignments/media- types for the structured text, if specified (e.g. text/ html). Mandatory if the parameter "structured_text" is	structured_text	url	no	interaction's structured
	structured_text_mime	string	yes if structured_text	name="mime">http://www.iana.org/ assignments/media- types for the structured text, if specified (e.g. text/ html). Mandatory if the parameter "structured_text" is

Field	Туре	Mandatory	Description
binary_content	url	no	The URL of the the interaction's binary content
binary_content_mime	string	yes if binary_content	The mime type <ref name="mime">http://www.assignments/media-types</ref> for the binary content, if specified (e.g. text/html).
binary_content_size	integer	yes if binary_content	The size of the binary content in bytes. Mandatory if the parameter "binary_content" is specified.
udata	hash	no	A hash of key value pairs for the user data attached to the interaction.

# References

<references />

# Chat Interaction

# Purpose

Describes chat data for a multimedia interaction.

### Resource

Name	Туре	Mandatory	Description	
Chat-related information				
established_date	date/time <ref name="iso8601"&gt;UTC Time, using the ISO 8601 representation: [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS</ref 	no 5]Z	The date/time when the chat session was established with a contact center resource.	
released_date	date/time <ref name="iso8601"/&gt;</ref 	no	The date/time when the chat session was released from the contact center resource.	
Common Interaction fie	elds			
customer_id	string	yes	The ID of the customer.	
interaction_id	string	yes	The Genesys GUID (or Call ID) for the interaction.	
status	integer	yes	Possible statuses:  • 0-NEW  • 1-PENDING  • 2-IN_PROCESS  • 3-STOPPED	
entity_type	integer	yes	Possible types:  • 0-EMAIL_IN  • 1-EMAIL_OUT  • 2-CHAT  • 3-PHONE_CALL	

Name	Туре	Mandatory	Description
			<ul><li>5-CALLBACK</li><li>6-COBROWSE</li><li>7-INTERACTION (open media)</li></ul>
type	string	yes	The type of the interaction (e.g. inbound, outbound, etc.)
sub_type	string	no	The application-specific subtype which further classifies attribute "type".
media_type	string	yes	The media type of the interaction:  • voice  • email  • chat  • callback  • and so on.
parent_id	string	no	The ID of the parent interaction, if applicable.
thread_id	string	no	The ID of the thread to which this interaction should be appended, or the ID of the interaction at the root of the thread.
external_id	string	no	The reference identifier for an external system.
owner_id	integer	no	The DB ID of the Person who owns the interaction. (The Person is an object defined in the Genesys Configuration Server.)
creator_app_id	integer	yes	The DB ID of the application that created the interaction.
start_date	date/time <ref name="iso8601"/&gt;</ref 	yes	The UTC time of the interaction's creation.
end_date	date/time <ref name="iso8601"/&gt;</ref 	no	The UTC time of the interaction's end.
timeshift	integer	no	The number of minutes

Name	Туре	Mandatory	Description
			to add to or to substract from the specified UTC < ref name = "iso8601" /> time in order to get the local time of the interaction's creation.
category_id	string	no	The category assigned to this interaction by the Classification Server or the desktop's manual override.
allow_children	boolean	no	True if child interactions can be added.  Default value is true.
subject	string	no	An arbitrary textual subject for the interaction.
stopped_reason	string	no	The application- specified reason for which the interaction ended.
text	text	no	Plain text for the interaction.
structured_text	url	no	The URL of the interaction's structured text.
structured_text_mime	string	yes if structured_text	The mime type <ref name="mime"&gt;http://www assignments/media- types for the structured text, if specified (e.g. text/ html). Mandatory if the parameter "structured_text" is specified.</ref 
binary_content	url	no	The URL of the the interaction's binary content
binary_content_mime	string	yes if binary_content	The mime type <ref name="mime">http://www assignments/media-types</ref> for the binary content, if specified (e.g. text/html).
binary_content_size	integer	yes if binary_content	The size of the binary content in bytes.

Name	Туре	Mandatory	Description
			Mandatory if the parameter "binary_content" is specified.
udata	hash	no	A hash of key value pairs for the user data attached to the interaction.

<references />

# E-mail Interactions

## Purpose

Provides information for e-mail address and interaction management.

### E-mail Address

#### E-Mail Address Fields

Field	Туре	Required	Description
address	string	yes	The e-mail address.
personal	string	no	The personal part of the e-mail address, for instance, a displayable such as a localized name.

### Inbound E-mail

Inbound e-mails are e-mail interactions which are received by the application or the Genesys Solution.

#### E-mail In

Field	Туре	Required	Description
Inbound-specific fields			
from	E-mail Address	no	The sender's e-mail address.
reply_to	E-mail Address	no	The address used to reply.
to	E-mail Address[]	no	The list of recipient addresses, as an array of e-mail addresses.
СС	E-mail Address[]	no	The list of addresses for copied recipients, as an array of e-mail addresses.
sent_date	date/time	no	The UTC <ref name="iso8601">Wikiped ISO 8601</ref> date/

Field	Туре	Required	Description
			time at which the e-mail was sent.
Common Interaction fie	elds		
customer_id	string	yes	The ID of the customer.
interaction_id	string	yes	The Genesys GUID (or Call ID) for the interaction.
status	integer	yes	Possible statuses:  • 0-NEW  • 1-PENDING  • 2-IN_PROCESS  • 3-STOPPED
entity_type	integer	yes	Possible types:  O-EMAIL_IN  1-EMAIL_OUT  2-CHAT  3-PHONE_CALL  5-CALLBACK  6-COBROWSE  7-INTERACTION (open media)
type	string	yes	The type of the interaction (e.g. inbound, outbound, etc.)
sub_type	string	no	The application-specific subtype which further classifies the attribute "type".
media_type	string	yes	The media type of the interaction:  • voice  • email  • chat  • callback  • and so on.
parent_id	string	no	The ID of the parent interaction, if

Field	Туре	Required	Description
			applicable.
nread_id	string	no	The ID of the thread to which this interaction should be appended, or the ID of the interaction at the root of the thread.
xternal_id	string	no	The reference identifier for an external system.
owner_id	integer	no	The DB ID of the Person who owns the interaction. (The Person is an object defined in the Genesys Configuration Server.)
creator_app_id	integer	yes	The DB ID of the application that created the interaction.
start_date	date/time	yes	The UTC time of the interaction's creation, using the ISO 8601 representation <ref name="iso8601">http://ewiki/ISO_8601</ref> : [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss].[
end_date	date/time	no	The UTC time of the interaction's end, using the ISO 8601 representation <ref name="iso8601"></ref> : [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss].[S
timeshift	integer	no	The number of minutes to add to or to substract from the specified UTC <ref name="iso8601"></ref> time in order to get the local time of the interaction's creation.
category_id	string	no	The category assigned to this interaction by the Classification Server or the desktop's manual override.
allow_children	Boolean	no	True if child interactions can be added.  Pofault value is true.

Field	Туре	Required	Description	
subject	string	no	An arbitrary textual subject for the interaction.	
stopped_reason	string	no	The application- specified reason for which the interaction ended.	
text	text	no	Plain text for the interaction.	
structured_text	url	no	The URL of the interaction's structured text.	
structured_text_mime	string	yes if structured_text	The mime type <ref name="mime">http://www.assignments/media-types</ref> for the structured text, if specified (e.g. text/html). Mandatory if the parameter "structured_text" is specified.	iana
binary_content	url	no	The URL of the the interaction's binary content	
binary_content_mime	string	yes if binary_content	The mime type <ref name="mime">http://www.assignments/media-types</ref> for the binary content, if specified (e.g. text/html).	iana
binary_content_size	integer	yes if binary_content	The size of the binary content in bytes. Mandatory if the parameter "binary_content" is specified.	
udata	hash	no	A hash of key value pairs for the user data attached to the interaction.	

<references />

## Outbound E-mail

Outbound e-mails are e-mail interactions which are sent from the application or from the Genesys

Solution.

#### E-mail Out

Field	Туре	Mandatory	Description	
Outbound-Specific fields				
from	E-mail Address	no	The sender's e-mail address.	
reply_to	E-mail Address	no	The e-mail address used to send a reply.	
to	E-mail Address[]	no	The list of recipient addresses, as an array of e-mail addresses.	
СС	E-mail Address[]	no	The list of addresses for copied recipients, as an array of e-mail addresses.	
bcc	E-mail Address[]	no	The list of addresses for blind-copied recipients, as an array of e-mail addresses.	
sent_date	date/time	no	The UTC <ref>http://en.wikipedwiki/ISO_8601</ref> date/time at which the e-mail was sent.	
reference_id	integer	no	Contains the external identifier (message ID) of the parent interaction.	
reviewer_id	integer	no	The application- specified ID of the Person who reviewed the e-mail.	
standard_response_id	string	no	The ID of the standard response item from which this e-mail was generated.	
Common Interaction fie	elds			
customer_id	string	yes	The ID of the customer.	
interaction_id	string	yes	The Genesys GUID (or Call ID) for the interaction.	
status	integer	yes	Possible statuses:  • 0-NEW  • 1-PENDING  • 2-IN_PROCESS	

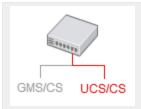
Field	Туре	Mandatory	Description
			• 3-STOPPED
entity_type	integer	yes	Possible types:  • 0-EMAIL_IN  • 1-EMAIL_OUT  • 2-CHAT  • 3-PHONE_CALL  • 5-CALLBACK  • 6-COBROWSE  • 7-INTERACTION (open media)
type	string	yes	The type of the interaction (e.g. inbound, outbound, etc.)
sub_type	string	no	The application-specific subtype which further classifies the attribute "type".
media_type	string	yes	The media type of the interaction:  • voice  • email  • chat  • callback  • and so on.
parent_id	string	no	The ID of the parent interaction, if applicable.
thread_id	string	no	The ID of the thread to which this interaction should be appended, or the ID of the interaction at the root of the thread.
external_id	string	no	The reference identifier for an external system.
owner_id	integer	no	The DB ID of the Person who owns the interaction. (The Person is an object defined in

Field	Туре	Mandatory	Description
			the Genesys Configuration Server.)
creator_app_id	integer	yes	The DB ID of the application that created the interaction.
start_date	date/time	yes	The UTC time of the interaction's creation, using the ISO 8601 representation <ref name="iso8601">http://en.wikwiki/ISO_8601 [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [SSS]Z</ref>
end_date	date/time	no	The UTC time of the interaction's end, using the ISO 8601 representation <ref name="iso8601"></ref> : [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS]Z
timeshift	integer	no	The number of minutes to add to or to substract from the specified UTC <ref name="iso8601"></ref> time in order to get the local time of the interaction's creation.
category_id	string	no	The category assigned to this interaction by the Classification Server or the desktop's manual override.
allow_children	Boolean	no	True if child interactions can be added.  Default value is true.
subject	string	no	An arbitrary textual subject for the interaction.
stopped_reason	string	no	The application- specified reason for which the interaction ended.
text	text	no	Plain text for the interaction.
structured_text	url	no	The URL of the interaction's structured text.
structured_text_mime	string	yes if structured_text	The mime type <ref< td=""></ref<>

Field	Туре	Mandatory	Description
			name="mime">http://www.iana.org/ assignments/media- types for the structured text, if specified (e.g. text/ html). Mandatory if the parameter "structured_text" is specified.
binary_content	url	no	The URL of the the interaction's binary content
binary_content_mime	string	yes if binary_content	The mime type <ref name="mime"&gt;http://www.iana.org/ assignments/media- types for the binary content, if specified (e.g. text/ html).</ref 
binary_content_size	integer	yes if binary_content	The size of the binary content in bytes. Mandatory if the parameter "binary_content" is specified.
udata	hash	no	A hash of key value pairs for the user data attached to the interaction.

<sup>&</sup>lt;references />

# Phone Call Interaction



Purpose: Describes phone call fields.

# Description

Provides fields for a phone call interaction.

### Resource

Field	Туре	Mandatory	Description
duration	integer	no	The duration of the call in seconds.
outcome	string	no	The application- specified outcome of the call.
phone_number	string	no	The phone number called.
tconnection_id	string	no	The connection ID assigned to the call by the Genesys T-Server.
customer_id	string	yes	The ID of the customer.
interaction_id	string	yes	The Genesys GUID (or Call ID) for the interaction.
status	integer	yes	Possible statuses:  • 0-NEW  • 1-PENDING  • 2-IN_PROCESS  • 3-STOPPED
entity_type	integer	yes	Possible types:

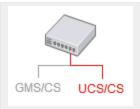
Field	Туре	Mandatory	Description
			<ul> <li>0-EMAIL_IN</li> <li>1-EMAIL_OUT</li> <li>2-CHAT</li> <li>3-PHONE_CALL</li> <li>5-CALLBACK</li> <li>6-COBROWSE</li> <li>7-INTERACTION (open media)</li> </ul>
type	string	yes	The type of the interaction (such as inbound, outbound, and so on).
sub_type	string	no	The application-specific subtype which further classifies attribute "type".
media_type	string	yes	The media type of the interaction, including:  • voice  • email  • chat  • callback
parent_id	string	no	The ID of the parent interaction, if applicable.
thread_id	string	no	The ID of the thread to which this interaction should be appended, or the ID of the interaction at the root of the thread.
external_id	string	no	The reference identifier for an external system.
owner_id	integer	no	The DB ID of the Person who owns the interaction. (The Person is an object defined in the Genesys Configuration Server.)
creator_app_id	integer	yes	The DB ID of the application that created the interaction.

Field	Туре	Mandatory	Description
start_date	date/time	yes	The UTC time of the interaction's creation, using the ISO 8601 representation <pre>ref name="iso8601"&gt;http://en.wikipewiki/ISO_8601</pre> /ref>: [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [SSS]Z
end_date	date/time	no	The UTC time of the interaction's end, using the ISO 8601 representation <ref name="iso8601"></ref> : [YYYY]-[MM]- [DD]T[HH]:[mm]:[ss].[SSS]Z
timeshift	integer	no	The number of minutes to add to or substract from the specified UTC <ref name="iso8601"></ref> time in order to get the local time of the interaction's creation.
category_id	string	no	The category assigned to this interaction by the Classification Server or the desktop's manual override.
allow_children	Boolean	no	Default value of true indicates that child interactions can be added.
subject	string	no	An arbitrary textual subject for the interaction.
stopped_reason	string	no	The application- specified reason for which the interaction ended.
text	text	no	Plain text for the interaction.
structured_text	url	no	The URL of the interaction's structured text.
structured_text_mime	string	yes if structured_text	The mime type <ref name="mime">http://www.iana.o assignments/media-types</ref> for the structured text, if specified (text/html). Mandatory if the

Field	Туре	Mandatory	Description
			parameter "structured_text" is specified.
binary_content	url	no	The URL of the the interaction's binary content.
binary_content_mime	string	yes if binary_content	The mime type <ref name="mime"&gt;http://ww assignments/media- types for the binary content, if specified (text/html).</ref 
binary_content_size	integer	yes if binary_content	The size of the binary content in bytes. Mandatory if the parameter "binary_content" is specified.
udata	list	no	A list of key-value pairs for the user data attached to the interaction.

<sup>&</sup>lt;references />

# Profile Operations



**Purpose:** Groups operations which handle profiles.

- POST /profiles
- GET /profiles
- POST /profiles/\${customer id}/extensions
- GET /profiles/\${customer id}
- PUT /profiles/\${customer id}
  - PUT /profiles/\${customer id}/extensions/\${ext name}/by/unique
  - PUT /profiles/\${customer id}/extensions/\${ext name}/delete/by/unique
  - POST /profiles/import
  - DELETE /profiles/\${customer\_id}
  - PUT profiles/\${customer\_id}/merge/\${src\_id}/

# Bulk Profile Import



### Description

Imports several customer profiles in a single operation. Your application should use this operation if you need to import a large number of profiles into the UCS database.

- The operation supports the import of .csv files if the file is already uploaded on UCS' local file system.
- · The operation manages:
  - Database consistency (data type conversion according to metadata).
  - Propagation of identification keys.
  - · Backward compatibility with the APIs.

You cannot submit the profiles as a JSON array.

The operation's description of the supported format must be compliant with RFC4180:

- The first record must contain the column name for each field.
- There is one record per line and each line terminates with a line feed.
- Commas separate fields by default; if you wish to use another separator, set up the delimiter field of your operation.
- Spaces are considered as part of a field and will not be ignored (trimmed).

This operation returns the list of contacts which were not imported, with descriptions of the errors or ambiguities which prevented the server from adding them to the database.

#### Roles

If role-based access control is enabled in your environment, your application will need to be assigned the following roles in order to successfully perform a bulk import:

- UCS.Customer.executeBulkImport (Perform Bulk Import)
- UCS.Customer.createProfile (Create Customer Profile)
- UCS.Customer.createProfileExtension (Create Profile Extension)

Your application must be assigned the UCS.Customer.createProfileExtension role only if profile extensions will be created by the bulk import.

## Operation

#### **Prerequisites:**

• The Customer Profile Schema exists.

Your operation's header must comply with the following requirements:

- Content-Type is set to 'multipart/form-data'.
- Request is composed of a first part of type 'application/json', named 'description' and containing the JSON body as described below.

ID	CV.WS.PROF.IMPORT.1		
Method	POST		
URL	/profiles/import		
Parameter	Туре	Mandatory	Description
Body			
format	"JSON"  Not supported  "CSV"	yes	Defines the format of the submitted data.
profiles	string	no	File path, for instance 'C:/profiles.csv'. Your application is responsible for uploading the file on the server's local filesystem.
id-key	string	no	A valid identification key. If specified, the server checks to see whether the profile already exists prior to the insertion. If the profile does exist in the database, the record containing the duplicate profile is skipped.
delimiter	char or	no	Defines the character

ID	CV.WS.PROF.IMPORT.1		
	"," by default		used to separate the submitted profiles.
batch-size	integer 64 by default	no	The number of records to insert or update before a database COMMIT is issued (default to 64).
max-errors	integer	no	The number of errors to allow before ending the bulk load. An error can indicate that a given record was not parsed correctly, or that an ambiguity exists with an existing customer record (see response below).
encoding	string	no	Encoding character to use for file import. Default is UTF-8 UTF-8 without BOM, see related bug http://bugs.sun.com/view_bug.do;jsessionid=fd
start-from-index	integer	no	The record number from which to start importing.
create-log	boolean	no	This flag turns extended import results logging on or off. The log data is written to an output file that has the same name as the input file, with an extension of .log appended. The default value is false.

# Response

The Context Management Service API answers every request with an HTTP code. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

HTTP code	200
HTTP message	OK
Body	{"errors": [     {"index": '''\$index_idl''', "reason": '''\$reason_1'''},

HTTP code	200
	{"index": '''\$index_id2''', "reason": '''\$reason_2'''}], "ambiguous": [     {"index": '''\$index_id2''', "reason": '''\$reason_3'''}] }
	where:
	<ul> <li>\${index_idn} is the index of the imported record in the source array.</li> </ul>
	<ul> <li>"Ambiguous" lists the source data items which were ignored because of <i>Unresolved identity</i>: The given identification key is not uniquely identifying the customer; for instance, attempting to use "Name" to identify the customer, but there are more than one customer with the same name.</li> </ul>
	<ul> <li>"Ambiguous" lists the source data items which were invalid for some reason. The reason description is one of the errors which can occur when inserting a profile (see Create Customer Profile).</li> </ul>

## Examples

#### Raw HTTP

### **Operation**

```
POST /cv/profiles/import HTTP/1.1
Keep-Alive: 10
Content-Length: 320
Content-Type: multipart/form-data; boundary=zaHf8xb3LfV0XZ0o2KUyqWD4Zlfumh0R9uyMN
Host: localhost:9090
Connection: Keep-Alive
Expect: 100-Continue

--zaHf8xb3LfV0XZ0o2KUyqWD4Zlfumh0R9uyMN
Content-Disposition: form-data; name="description"
Content-Type: application/json; charset=UTF-8
Content-Transfer-Encoding: 8bit

{"delimiter":",","profiles":"D:/successContentProfiles.csv","format":"csv","max-errors":20}
--zaHf8xb3LfV0XZ0o2KUyqWD4Zlfumh0R9uyMN--
Here is a sample .csv file containing 10 records:
```

 $FirstName, \ LastName, \ Phone Number [2], \ Phone Number [1], \ Email Address, \ Address. Address Type, \ A$ 

Address.PostCode,Address.Address.County, Address.City, Address.Country

```
kertuleordi,qusch,1-355-530-4087,1-204-489-2084,kertuleordi@qusch.net,7,4703,"25,
et malesuada vulputate Proin", Pomona, Germany, Fullerton
danye, hna,1-551-483-3810,1-455-658-9039, danye@hna.net,6,5101, "blabl \nDonec", Kailua, East
Duluth
 almady, vanah, 1-215-196-0375, 1-632-596-1889, almady@vanah.net, 0,4602, facilisis fermentum
lacus., Irving, Cambodia, Jackson
julaudricelsa, mosessaglowsket, 1-363-017-4320,
1-600-591-2531, julaudricelsa@mosessaglowsket.net,
4,2644,id bibendum,Fort Lauderdale,Sudan,Orem
clemara,gonebali,1-334-657-4832,1-226-703-2238,clemara@gonebali.net,6,6552,
aliquet rutrum nonummy pellentesque ac, Chula Vista, Jamaica, Waterbury
lonni,mi,1-021-445-4631,1-716-116-8811,lonni@mi.net,7, 102,Duis vulputate lacus.
 felis eu eu et sagittis ut, Allentown, Russian Federation, North Charleston
louignaelgarcecio, jecklettorneimermandetett, 1-615-348-3144, 1-161-040-
1742, louignaelgarcecio@jecklettorneimermandetett.net, 1, 6533,
nisl Suspendisse imperdiet, Jacksonville, Italy, Baltimore
jantasie, jachils, 1-324-661-2865, 1-220-082-1681, jantasie@jachils.net, 5, 0171, neque lacus.
Donec mauris Donec facilisis metus. est, Columbia,
Central African Rep, Thousand Oaks
hizellaighie, wollosch, 1-207-086-4460, 1-160-603-4275, hizellaighie@wollosch.net,
4,9653, Vestibulum ipsum eu sit, Albuquerque, Romania, Philadelphia
```

#### HTML Example

#### Operation

Consider the following code sample embedding the JSON request, which enables you to select the .csv file:

**Result** The service might return the following information:

```
{
  "errors": [
    {
      "index": 3,
      "reason": "Bad parameter 'Importing profile' reason : number of profile attributes
cannot be different than declared"
    },
    {
      "index": 4,
      "reason": "Bad parameter 'Invalid value' reason : \"no-integer\" is an invalid value for
type 'Integer'"
    }
    "ambiguous": [
```

```
{
   "index": 12,
   "reason": "Some customer(s) are already matching this profile : idProfile1, idProfile2"
},
   {
   "index": 14,
   "reason": "Some customer(s) are already matching this profile : idProfile15, idProfile232"
   }
}
```

#### Apache Example

The following code sample shows how to write an HTTP client for Apache which enables an import.

```
DefaultHttpClient client = new DefaultHttpClient();
HttpRequestRetryHandler retryHandler = new HttpRequestRetryHandler() {
 public boolean retryRequest(IOException exception, int executionCount, HttpContext context) {
 return false;
 }
client.setHttpRequestRetryHandler(retryHandler);
HttpPost httpPost = new HttpPost("http://localhost:9090/profiles/import");
JSONObject parameters = new JSONObject();
parameters.put("format", "csv");
parameters.put("profiles", "D:/myProfiles.csv");
parameters.put("delimiter", ",");
parameters.put("max-errors", 20);
MultipartEntity reqEntity = new MultipartEntity(HttpMultipartMode.STRICT);
regEntity.addPart("description", new StringBody(parameters.toString(),
MediaType.APPLICATION_JSON.toString(), Charset.forName("UTF-8")));
httpPost.setEntity(reqEntity);
HttpResponse response = client.execute(httpPost);
HttpEntity resEntity = response.getEntity();
String res = EntityUtils.toString(resEntity, "UTF-8");
client.getConnectionManager().shutdown();
```

### References

<references />

# Create Customer Profile



# Description

Creates a Customer Profile and returns the ID created by UCS.

# Operation

### **Prerequisites:** The Customer Profile Schema exists.

ID	CV.WS.PROF.3		
Method	POST		
URL	/profiles		
Parameter	Туре	Mandatory	Description
<b>Body:</b> Customer Profile <ref>See Customer Profile for more information about the Customer Profile.</ref>			
customer_id	string	yes	The unique ID of the given customer. Limited to 16 characters.
<attribute n=""></attribute>	<ul><li>string</li><li>datetime</li></ul>	yes	Customer attributes, where <b><attribute< b=""> n&gt;is the attribute name<ref>See the configuration options for further details.</ref>. Attributes are not part of a separated array, see the example below.  The date/time formats are ISO 8601<ref>Wikipedia ISO 8601</ref>:[YYYY]-[MM]-[DD]T[HH]:[mm]:[ss].[SSS]Z. Do not use Unauthorized Strings as attribute values.</attribute<></b>
<extension n=""></extension>	Profile Extension or	no	Extensions, where

ID	CV.WS.PROF.3	
	Profile Extension[]	<extension n=""> corresponds to the unique name of the profile extension resource.  • For single-valued extensions, the extension's value is a single extension object (see Profile Extension).  • For multi-valued extensions, the extension's value is an array of zero or more Profile Extensions.</extension>

<references />

### Response

The Context Management Service API answers every request with an HTTP code. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	201
HTTP message	Created
Header	Location: /profiles/ <b>\${customer_id}</b> where: • \${customer_id} is the created customer ID.
Body	<pre>{"customer_id": \${customer_id}} where:</pre>

## Example

**Operation** The following operation would create the customer profile for "Bruce Banner," as well as

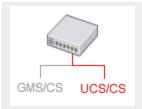
three associated telephone records that are grouped in the "Phone" extension. The e-mail address bruce.banner@marvelous.com is the primary e-mail attribute, while the other e-mail address is non-primary.

```
POST /profiles/
    "FirstName": "Bruce",
"LastName": "Banner",
    "DOB": "1962-05-10",
    "EmailAddress": [
          "bruce.banner@marvelous.com",
          "b.banner@hulk.dom"
    "Phone": [
    {
         "PhoneType":0,
        "prefix":"+33",
"PhoneNumber":"3145926535",
"description":"family phone",
         "start_availabilty":"2009-12-18T18:30:00.000Z",
"end_availabilty":"2009-12-18T21:40:00.000Z"
         "PhoneType":2,
         "prefix":"+33"
         "PhoneNumber": "6543210",
         "description": "businness calls only, no sales",
         "start_availabilty":"2009-12-18T09:30:00.000Z",
"end_availabilty":"2009-12-18T17:45:00.000Z"
         "PhoneType":5,
        "prefix":"+33",
"PhoneNumber":"951357456",
"description":""
```

#### Result

```
\label{location} \textbf{http://ucsserver.mycompany.com:} 8080/path/profiles/00038b5SCVPU0007 \\ \{"customer_id":"0004Va58A92T0017"\}
```

# Delete Customer Profile



**DELETE** /profiles/\${customer\_id}

### Description

Deletes a customer profile and all it's extension records and identifications keys records.

#### **Important**

Starting with the 8.5.0 release, service, state, and task data are no longer handled in UCS and therefore will not be deleted.

## Operation

ID	CV.WS.PROF.8		
Method	DELETE		
URI	/profiles/\${customer_id}		
Parameter	Tymo	Mandatoni	Decembelon
rarameter	Туре	Mandatory	Description

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following tables show the correct response for a successful request, and the response if the customer cannot be deleted. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

Res	n	0	n	50
nes	μ	u	ш	56

HTTP code	200
HTTP message	Success
Response	
HTTP code 404	
HTTP message	Not Found

# Example

**Operation** The following operation deletes a particular customer:

DELETE /profiles/0004Va58A92T0018

#### Result

200 Success

# Delete Record From Profile Extension



## Description

Deletes a single record in a multi-valued extension. You must specify the list of 'unique' attributes which identify the record to delete. See **Unique Attributes** for further information.

## Operation

**Prerequisites:** The extension record exists.

ID	CV.WS.PROF.7		
Method	PUT		
URL	/profiles/\${customer_id}/extensions/\${ext_name}/delete/by/unique		
Parameter	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${customer_id}	string	yes	The unique ID of the given customer. Limited to 16 characters.
\${ext_name}	string	yes	The name of the Profile Extension to modify.
<b>Body</b> Unique attributes of the Profile Extension record.			
<attribute n=""></attribute>	<ul><li>string</li><li>integer</li><li>long</li><li>double</li><li>date</li><li>datetime</li><li>currency</li></ul>	yes	<attribute n=""> corresponds to the attribute name defined 'unique' in the Extension Schema.</attribute>

ID	CV.WS.PROF.7	
	• boolean	

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	204
HTTP message	No Content

## Example

**Operation** The following operation updates the Phone record associated with the unique "PhoneNumber": "3145926535".

```
PUT /profiles/0000Sb5U97XE000Y/extensions/Phone/delete/by/unique {"PhoneType":0, "prefix":"+33", "PhoneNumber":"3145926535", "description":"family phone", "start_availability":"2009-12-18T18:30:00.000Z", "end_availability":"2009-12-18T21:40:00.000Z"}
```

#### Result

204 No Content

# Identify Customer



## Description

Identifies a customer based on the Identification Key information submitted with the query. In addition to the identified customer ID, your application can retrieve profile and extension information based on the query fields. Query strings should be URL Encoded<ref>http://en.wikipedia.org/wiki/URL\_encoding</ref>. If the "id\_key" parameter is not specified, then UCS<ref name="ucs">Universal Contact Server</ref> uses the following algorithm:

- 1. Starting with the identification key with the lowest ID, UCS determines the number of attributes in the key which are covered by the data specified in the "expr" parameter.
- 2. If all attributes are covered, then use this key. Otherwise, record the number of sequential attributes covered, starting from the left. For example, if key 1 consists of attributes (a, b, c), and "expr" contains (a, b) then the score is 2.
- 3. If no key is selected after iterating through all the defined keys, choose the key with the highest score from Step 2. In the event of a tie, UCS selects the key with the smallest ID.

## Operation

### **Prerequisites**

· The identification keys exist.



ID	CV.WS.CUSTID.1		
Method	GET		
URL	/profiles		
Field Name	Type	Mandatory	Description
Field Name	Туре	Manuatory	Description
URI Parameters	туре	Manuatory	Description

ID	CV.WS.CUSTID.1		
			UCS can infer the key based on the attributes included in the "expr" parameter. However, explicitly specifying the identification key with your application improves performance.
include_profile	token	no	<ul> <li>"no" (default) to return the list of customers IDs without their profile attributes.</li> <li>"yes" to return all the profile attributes of the identified customers.</li> </ul>
extensions	string	no	The names of the extension to return with the customer profiles. Your application can specify multiple values separated with comas, such as: extensions=contacts,purchases
include_extensions	token	no	<ul> <li>"always" (default) to return the extensions specified with the field "extension" if one or more customers are identified.</li> <li>"unique" to return the extensions identified in parameter "extensions" if a unique customer is identified.</li> </ul>
<attribute name=""></attribute>	string	yes	One or more identification keys used to identify the customer, for instance: last_name=Doe&first_name=Jane  Attribute names with no prefix are supposed to be profile attributes. To refer to the attributes of an extension,

ID	CV.WS.CUSTID.1	
		your application must use the extension name as a prefix for the attribute: <ext-name>.<attribute-name></attribute-name></ext-name>

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK
Body	<ul><li>One result: Customer Profile</li><li>Several results: Customer Profile[]</li><li>No result: []</li></ul>

## Example

#### **Operation**

```
GET /profiles/contacts.phone_number=408-888-3214&extensions=contacts,purchasesEclude_profile=yes Eclude extensions=unique
```

#### **Result: Multiple profiles**

If multiple customers called from the specified phone number, then the output contains profiles for each matched customer:

```
200 OK
[{"customer_id": "2DC255C02AF", "name": "Doe, John", "birthdate": "1976-05-10"},
{"customer_id": "DDF295802AF", "name": "Doe, Jane", "birthdate": "1978-02-25"}]
```

#### **Result: One profile**

If a single customer is called from the specified phone number, then the complete profile for that customer is returned.

```
200 OK
{ "customer_id": "0004Va58A92T0017 ",
   "name": "Doe, John",
   "birthdate": "1976-05-10",
   "EmailAddress": [
   "john.doe@genesyslab.com",
```

#### **Result: No result**

If no customers match the specified criteria, then the output is an empty array:

[]

<references />

# Insert Extension Records



## Description

This operation inserts one or more extension records, which replace former records if they already exist.

## Operation

ID	CV.WS.PROF.4			
Method	POST			
URL	/profiles/\${customer_id	/profiles/\${customer_id}/extensions		
Parameter	Туре	Mandatory	Description	
<b>URI Parameters</b>				
\${customer_id}	string	yes	The unique ID of the given customer. Limited to 16 characters.	
Body				
<extension n=""></extension>	Profile Extension or Profile Extension[]	no	Profile extensions, where <extension n=""> corresponds to the unique name of the profile extension resource.  • For single-valued extensions, the extension's value is a single Profile extension.  • For multi-valued extensions, the extensions, the extension's value is an an array of zero</extension>	

ID	CV.WS.PROF.4	
		or more Profile Extension.

<references />

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK

## Example

#### **Operation**

```
POST /profiles/0004Va58A92T0017/extensions
  {
  "customer_id":"0004Va58A92T0017",
  "Phone": [
    {"PhoneType":0,
    "prefix":"+33",
    "number":"3145926535",
    "description":"family phone",
    "start_availabilty":"2009-12-18T18:30:00.000Z",
    "end_availabilty":"2009-12-18T21:40:00.000Z"},
    {"PhoneType":2,
    "prefix":"+33",
    "number":"6543210",
    "description":"business calls only, no sales",
    "start_availabilty":"2009-12-18T09:30:00.000Z",
    "end_availabilty":"2009-12-18T17:45:00.000Z"},
    {"PhoneType":5,
    "prefix":"+33",
    "number":"951357456",
    "description":"",
    ] }
}
```

#### Result

200 OK

UCS added the phone extension to the extensions of the specified customer.

# Merge Customer Profile



## Description

Merges two profiles together, transferring all relative data from one to the other (attributes and extensions).

### **Important**

This operation is not reversible and the source profile will be deleted. Starting with the 8.5.0 release, service, state, and task data are no longer handled in UCS and therefore will not be merged.

## Operation

ID	CV.WS.PROF.MERGE.1		
Method	PUT		
URI	/profiles/\${customer_id}/i	merge/\${src_id}	
Parameter	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${customer_id}	string	yes	The customer ID where the data is to be merged.
\${src_id}	string	yes	The customer ID of the source customer data to be merged. This ID will be deleted once the merge is complete.
Body Parameters			
keep_uniq_from_src	boolean	no	If there are duplicate attributes, determines

ID	CV.WS.PROF.MERGE.1		
			<ul> <li>which attribute to keep:</li> <li>true—Keeps the attribute from the source.</li> <li>false—Keeps the attribute from the destination (default).<ref name="keep_uniq_from_src">         For single valued profile extensions, and profile extension with unique attributes, the default is to keep the values from the destination profile. If keep_uniq_from_sr c is set to true, the source values will be kept, and the destination values will be discarded. Multi-valued extension content is copied to destination profile.</ref></li> </ul>
keep_active_service_only	boolean	no	Determines whether to merge the active records:  • true—Merge active service records only.  • false—Merge active and completed records (default).

<references /> At the end of the operation the source profile will be deleted with all completed
services if the keep\_active\_service\_only is set to true. The default operation is to transfer all
active and completed services to the destination profile. Duplicate core attributes will be discarded.
Core attribute duplication is determined by a case sensitive comparison of their values. If mixed
behavior is needed where some unique/single extension values must be kept from the source and
others from the destination, it is recommended to update the destination profile before merging the
profiles. Profile merging is transactional, either the whole operation is a success or nothing is
changed. If a source profile has a lot of services assigned (hundreds)to it, the merge operation can
take a while, set your client timeouts accordingly.

## Example

#### **Operation**

```
/profiles/00001b8BBKDX000D/merge/00001b8BBKDX000H
Method: PUT
{
    "keep_active_service_only": false,
    "keep_uniq_from_src": false
}
```

#### Result

Status: Status (204) - The server has fulfilled the request but does not need to return an entity-body, and might want to return updated meta-information
Reference: http://localhost:8222/profiles/00001b8BBKDX000D
Transfer-Encoding: null
Content-Type: application/octet-stream

# Query Customer Profile



## Description

Queries the Customer Profile based on the customer ID parameter. According to the query's fields, your application can retrieve profile and extension attributes in addition to the identified customer ID. The response always contains all attributes of the customer profile resource, and all attributes of the specified extensions, to avoid ambiguity in further updates (see Update Customer Profile). To get the schema of the profile and extension attributes, use the Query Profile Schema operation.

## Operation

# **Prerequisites:** A Customer Profile Schema (a list of Attribute Schema) is available.

ID	CV.WS.PROF.1		
Method	GET		
URL	/profiles/\${customer_id}	}	
Field Name	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${customer_id}	string	yes	Specified in the URI, the ID of the customer.
extensions	string	no	The list of extensions to return within the result. Your application can specify multiple extension names, separated with comas. For instance: extensions=contacts, purc

<references />

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200		
HTTP message	OK		
Field Name	Туре	Mandatory	Description
		tains parts of the profile or comer Profile for further info	
customer_id	string	yes	The unique ID of the given customer. Limited to 16 characters.
<attribute n=""></attribute>	<ul><li>string</li><li>datetime</li></ul>	yes	Customer attributes, where <b><attribute n=""></attribute></b> is the attribute name <ref>See the configuration options for further details.</ref> . Attributes are not part of a separated array, see the example below.  The date/time formats are ISO 8601 Wikipedia ISO 8601 (DD)T[HH]:[mm]:[ss].[SSS]Z.
<extension n=""></extension>	Extension or Extension[]	no	By default, no extension is returned. The returned extensions are specified in the parameters of the request. For further details, see Extension.

<references />

## Example

For example, the customer profile (id=0004Va58A92T0017) has three attributes: "name", "birthdate" and "EmailAddress". This profile also has two defined extensions:

- contacts: one or more phone numbers (a multi-valued extension).
- preferences: a single-valued extension representing customer preferences for receiving a weekly newsletter, receiving notification of new offers, and the desired e-mail type.

#### **Operation**

GET /profiles/0004Va58A92T0017?extensions=contacts,preferences

#### Result

```
200 OK
{ "customer_id": "0004Va58A92T0017 ",
   "name": "Doe, John",
   "birthdate": "1976-05-10",
   "EmailAddress": [
    "john.doe@genesyslab.com",
    "jd34@hotmail.dom"],
   "contacts": [
    {"phone": "408-555-1234", "ext": "1234"},
    {"phone": "408-832-7712"} ],
   "preferences": { "newsletter": "y", "new_offers": "n", "email": "html" }
}
```

# Update Customer Profile



## Description

Overrides the attributes of the customer profile: prior attribute values are lost and replaced with the attribute list specified in the body of the request. This operation uses the standard convention for HTTP PUT, which requires you to update the profile with the complete profile to avoid losing information. Your application should use this operation in conjunction with the <a href="QueryCustomerProfile">QueryCustomerProfile</a> operation:

- 1. Query the Customer Profile,
- 2. Modify the Customer Profile data,
- 3. Update the Customer Profile.

Extensions can be part of the profile used for the update:

- If your application does not include any extensions in the body, no modification occurs on extensions.
- If your application specifies extension values, extension information is overriden. Your application must specify the complete extension set to avoid losing data.

## Operation

#### **Prerequisites**

- The profile schema exists (see Query Profile Schema).
- Your application retrieved the Customer Profile (see Query Customer Profile).

ID	CV.WS.PROF.2		
Method	PUT		
URL	/profiles/ <b>\${customer_id}</b>		
Parameter	Туре	Mandatory	Description
<b>URI Parameters</b>			

CV.WS.PROF.2		
string	yes	The ID of the customer. Limited to 16 characters.
		presentation, compliant
string	yes	The unique ID of the given customer.
<ul><li>string</li><li>datetime</li></ul>	yes	The complete set of customer attributes, where <b><attribute< b=""> n&gt;is the attribute name<ref>See the configuration options for further details.</ref>. The date/time formats are ISO 8601<ref>Wikipedia ISO 8601</ref>: [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [SS]. [SS] Attributes will be overriden. This representation must contain all the profile attributes' values, including those that weren't modified.</attribute<></b>
Profile Extension or Profile Extension[]	no	Extensions, where <extension n=""> corresponds to the unique name of the profile extension resource.  If you specify extensions, extensions are overriden. If you wish to modify an extension value, this representation must contain all the profile extensions, including those that weren't modified.</extension>
	string  le information <ref>The cohema (see QueryProfileSchema (see QueryProfileSchema string)  • string  • datetime  Profile Extension or</ref>	string yes  le information <ref>The complete CustomerProfile rephema (see QueryProfileSchema). string yes  • string yes  • datetime  Profile Extension or</ref>

<references />

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See <a href="https://example.codes.nde.codes.nde.codes.codes.nde.codes.

#### Response

HTTP code	200
HTTP message	OK

## Example

The following example assumes that:

- FirstName, LastName, DOB are existing attributes.
- · Address is an extension.

#### **Operation**

#### Result

The above representation is now the profile of the customer whose id is 00027a52JCGY000M.

```
HTTP 200 OK []
```

# Update Record In Profile Extension



## Description

Updates the content of a single record in a multi-valued extension. The attributes which are part of the 'unique' list specified at the Extension Schema creation are passed in the body and used to find the correct record to update. This update cannot change the values of the attributes which are part of the 'unique' list of the Extension Schema; 'unique' attributes are used as identifiers for the given record. Workaround: If you wish to update a value for an attribute stamped as unique, you must delete the concerned record, then recreate this record with its correct values.

## Operation

### **Prerequisites:** The extension record exists.

ID	CV.WS.PROF.6		
Method	PUT		
URL	/profiles/ <b>\${customer_id</b> }	/extensions/ <b>\${ext_name</b> }	/by/unique
Parameter	Туре	Mandatory	Description
<b>URI Parameters</b>			
\${customer_id}	string	yes	The unique ID of the given customer. Limited to 16 characters.
\${ext_name}	string	yes	The name of the Profile Extension to update.
Body <ref>Record for the Profile Extension.</ref>			
<attribute n=""></attribute>	<ul><li> string</li><li> integer</li><li> long</li><li> double</li></ul>	yes	Individual attributes defined in the Profile Extension Schema. <attribute n=""> corresponds to the attribute name defined in the schema.</attribute>

ID	CV.WS.PROF.6	
	<ul><li>date</li><li>datetime</li><li>currency</li><li>boolean</li></ul>	<ul> <li>If the attribute is unique, its value is used to select the record to update. It is not updated.</li> <li>If the attribute is not unique, its value is updated.</li> </ul>

<references />

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	204
HTTP message	No Content

## Example

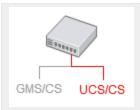
**Operation** The following operation updates the Phone record associated with the unique "PhoneNumber": "3145926535".

```
PUT /profiles/0000Sb5U97XE000Y/extensions/Phone/by/unique {
   "PhoneType":0,
   "prefix":"+33",
   "PhoneNumber":"3145926535",
   "description":"family phone",
   "start_availabilty":"2009-12-18T18:30:00.000Z",
   "end_availabilty":"2009-12-18T21:40:00.000Z"
}
```

#### Result

204 No Content with empty body

# Profile Resources



**Purpose:** Groups profile resources, which include metadata to manage attributes and extensions.

- Customer Profile
- Profile Attribute Schema
- Profile Extension

# Customer Profile

## Description

Describes a customer profile. Customer profiles are built on top of legacy UCS Contact Attributes. They are multi-valued and support the primary attributes. If an attribute has several values, the first one of the JSON array is the primary attribute, the others are non-primary. Each customer profile consists in a list of attributes defined via business attributes, see the configuration options for further details. These attributes share the same level with the customer\_id field (provided by the UCS to identify the customer).

In addition to these attributes, your application can add extensions (whose schema is defined with Schema Operations). See the table and example below.

#### Resource

Field	Туре	Mandatory	Description
customer_id	string	yes	The unique ID of the given customer. Limited to 16 characters.
<attribute n=""></attribute>	<ul><li>string</li><li>datetime</li></ul>	yes	Customer attributes, where <b><attribute n=""></attribute></b> is the attribute name <ref>See the configuration options for further details.</ref> . Attributes are not part of a separated array, see the example below.  The date/time formats are ISO 8601 <ref>Wikipedia ISO 8601</ref> :[YYYY]-[MM]-[DD]T[HH]:[mm]:[ss].[SSS]Z.
<extension n=""></extension>	Profile extension or Profile extension[]	no	Profile extensions, where <extension n=""> corresponds to the unique name of the profile extension resource.  • For single-valued extensions, the result is a single Profile Extension.</extension>

Field	Туре	Mandatory	Description
			<ul> <li>For multi-valued extensions, the field value is an an array of zero or more Profile extension.</li> </ul>

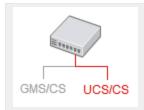
<references />

## Example

The following output sample presents the representation for the customer *John Doe*. It includes 2 attributes: FirstName and LastName. The EmailAddress is an extension which contains two contact records.

```
{
    "FirstName": "John",
    "LastName": "Doe",
    "EmailAddress": [
        "john.doe@genesyslab.com",
        "jd34@hotmail.dom"
    ]
}
```

## Profile Attribute Schema



Purpose: Describes a Profile Attribute schema.

## Description

Describes a Profile Attribute. Each attribute field of the profile corresponds to a recorded schema which details the attribute name, type, and content. Select in "Tenant" the item *specific configuration*, and under "Business Attributes" 'Contact Attributes'. Then, create a new Business Attribute Value. By default the new Attribute is of type string. To assign another type to the schema, in Annex, create a section "settings", and a key "type" with value "string" or "date".

#### Predefined Attributes Schema

Default Attributes visible in the Configuration Server are the following:

- First Name (string)
- Last Name (string)
- Phone Number (string)
- · E-mail Address (string)
- Title (string)

Default 'internal' Attributes (not visible in the Configuration Server) are the following:

- LastCalledAgent EmployeeID (string)
- LastCalledAgent TimeStamp (date)
- PreferredAgent\_EmployeeID (string)

Additional attributes are available for each active media defined in the Business Attribute "Media Type" of the Configuration Manager:

- LCA EmplID <media> (string)
- LCA TimeStamp <media> (date)
- Pref\_EmpIID\_<media> (string)

Attributes of type date/time are formatted in UTC ISO 8601: "yyyy-MM-dd'T'HH:mm:ss.SSS'Z""

Example: "1981-03-17T02:00:00.000Z"

## Resource

Field	Туре	Mandatory	Description
			The name is unique for each attribute within the given profile.  • Starts with a letter, and can be followed with letters, numbers, or underscores.
name	string	yes	<ul> <li>Is restricted to a         maximum of 30         characters         (Maximum         RDBMS</li> <li>"RDBMS"&gt;http://en.wikipedia.owiki/         Relational_database_managementshared limit)</li> </ul>
			In profile attribute schemas, the name is <b>not</b> case-sensitive.
type	token	yes	The attribute type, which can be one of the following types:  Boolean  String  Integer  Long  Double
5,40			<ul> <li>Date</li> <li>DateTime</li> <li>Currency</li> <li>Notes:</li> <li>1. The constraints on these types (the minimum and maximum values</li> </ul>

Field	Туре	Mandatory	Description
			supported for the integer type) vary with the RDBMS <ref name="RDBMS"></ref> [1] 2. Customer profiles are built on top of UCS' Contact Attributes, and support only String and DateTime attribute types. However, all attribute types are supported for profile extensions.
default	numeric or string	no	Provides a default value for the attribute. For numeric attributes, you do not need quotation marks. Quotation marks are for string, date, and datetime attributes. By default, the date/time format is ISO 8601 UTC <ref>Wikipedia ISO 8601</ref> : [YYYY] - [MM] - [DD]T[HH]: [mm]: [ss]. [SSS
length	integer	no	Reserved to attributes of type String. Defines the maximum number of characters for the string.  • Default length is 256;  • Maximum length is 4000.
encrypt	Boolean	no	<ul> <li>false by default.</li> <li>true if the server must encrypt the attribute value before saving it to the UCS database.</li> </ul>
mandatory	Boolean	no	• false by default;

Field	Туре	Mandatory	Description
			<ul> <li>true if the attribute is mandatory when inserting a new Profile Extension record.</li> </ul>

<references />

# Related Operation

• Query Profile Schema

# Profile Extension



Purpose: Describes an extension.

## Description

Each extension fulfills the contract of an Extension Schema that your application created in anterior operations. Your application can create schemas for the following extensions:

• Profile extensions, created through the Create Profile Extension Schema operation, which provides extensions for profiles.

Once the extension schema is defined, your application can create and add extension records when dealing with standard profile, services, states, and task operations. For instance, if you start a task, you can specify extension records in your operation body as shown in the example section.

## Profile Extension

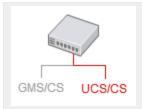
#### **Profile Extension**

Field	Туре	Mandatory	Description
customer_id	string	yes if not nested in a profile	This field is mandatory if the extension is <b>not</b> nested inside a Customer Profile.
name	string	yes	The unique, case- insensitive name of the extension.  • Starts with a letter to which you can append letters, numbers, or underscores.  • Restricted to a

Field	Туре	Mandatory	Description
			maximum of 26 characters. (Maximum RDBMS shared limit on index creation.)
<attribute n=""></attribute>	<ul> <li>string</li> <li>integer</li> <li>long</li> <li>double</li> <li>date</li> <li>datetime</li> <li>currency</li> <li>boolean</li> </ul>	yes	Individual attributes, defined in the Extension Schema. <attribute n=""> corresponds to the attribute name defined in the schema.</attribute>

<sup>&</sup>lt;references />

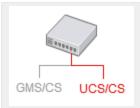
# Schema Operations



**Purpose:** Groups operations which handle schemas for both identification keys and profile extensions.

- · Schema Operations
  - GET /metadata/profiles/
  - POST /metadata/profiles/extensions
  - GET /metadata/profiles/extensions
  - GET /metadata/identification-keys
  - POST /metadata/identification-keys
  - GET \${content-type} /metadata
  - DELETE /metadata/profiles/extensions/\${extension-name}
  - DELETE /metadata/identification-keys/\${id\_key-name}

# Create Identification Key



POST /metadata/identification-keys

## Description

Creates the key used to identify customers. Your application must define the Identification Key prior to any customer identification attempt. You can build identification keys as a combination of attributes:

- · One or more attributes of the customer profile.
- · One or more attributes of an extension.

#### **Important**

Your application cannot create Identification keys with a blend of profile attributes and extension attributes.

The following identification key representation identifies customers based on the PhoneNumber attribute.

```
{ "name": "idPhone",
   "attributes": ["PhoneNumber"]}
```

Let's imagine that the phone number is part of the **contactExt** extension; the corresponding object is:

```
{ "name": "idPhone",
  "source": "contactExt",
  "attributes": ["PhoneNumber "]}
```

This example assumes that one or more customers can share the same phone number, which could apply to members of a family for instance, and makes the identification key not unique across the calling customers. To make it unique, use the "unique" field of the identification key (see the Identification Key for further details).

# Operation

## **Prerequisites:** The server is in Maintenance mode.

 $\begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$ 

#### **Create Identification Key**

ID	CV.WS.PROF.META.7		
Method	POST		
URL	/metadata/identification-keys		
Parameter	Туре	Mandatory	Description
Body: Includes the identi	fication key to create. This l	body contains the <mark>Identifica</mark>	tionKey resource.
name	string	yes	The unique, case- insensitive name of the key. The name must start with a letter, and can be followed with letters, numbers, or underscores. The name is restricted to a maximum of 26 characters. (Maximum RDBMS shared limit on creation of index.)
source	string	no	Can take on one of the following values:  • "profile" (default value): indicates that the attributes specified in parameter "attribute" belong to the core customer profile.  • The unique name of the given Profile Extension, used to create the Identification Key.
attributes	string[]	yes	The array names of one or more attributes of the extension or of the profile.
unique	bool	no	<ul><li> "false" by default.</li><li> "true" to indicate that the given</li></ul>

ID	CV.WS.PROF.META.7
	attributes of the profile or extension are unique across all customers.

### Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	201
HTTP message	Created
	Location: metadata/identification-keys/ <b>\${key-name}</b> where:
Header	<ul> <li>\${key-name} is the name specified in the submitted identification key resource.</li> </ul>
Rody	{"name": " <b>\${key-name}</b> "} where:
Body	• \${key-name} is the name of the created key.

## Example

The following sample creates a key which identifies the customer based on the provided phone ID. After this key is created, the further profile creations are indexed based on the Customer Phone ID. **Operation** 

```
POST /metadata/identification-keys
{
   "name": "idPhone",
   "extension": "contacts",
   "attributes": ["phone_number"]
}
```

#### **Result**

```
HTTP 201 Created
{"name": "idPhone"}
```

# Create Profile Extension Schema



## Description

Creates a profile extension schema resource, which is mandatory to query and use profile extension schemas.

• Read more about Extensions.

## Operation

#### **Create Profile Extensions Schema**

ID	CV.WS.PROF.META.4		
Method	POST		
URL	/metadata/profiles/extensions		
Parameter	Туре	Mandatory	Description
<b>Body:</b> The schema to cre	ate. <ref>This is the Profile</ref>	Extension Schema to create	e.
name	string	yes	The unique, case- insensitive name of the extension. The name must start with a letter, and can be followed with letters, numbers, or underscores.  The name is restricted to a maximum of 26 characters (Maximum RDBMS shared limit on creation of index).
type	<ul><li>token</li><li>"single-valued"</li><li>"multi-valued"</li></ul>	yes	Extensions come in the following forms:  • Single-valued: a single extension

ID	CV.WS.PROF.META.4		
			record is associated with a given customer.  • Multi-valued: multiple extension records can be associated with a given customer.
attributes	Attribute Schema[]	no	The array of zero or more attributes. Empty when type="classifier".
unique	string[]	no	Lists attributes which are unique in the scope of a given customer. The customer profile cannot include several extension records with identical values for these attributes. For example, let's consider a contact extension with the attributes "phone_num", "ext", "time_of_day". To ensure that a given customer does not have two contact extensions with the same phone number, set the following in the extension schema:  unique = ["phone_num", "ext"]

<references />

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	201
HTTP message	Created
Header	Location: <b>\${base_uri}</b> /profiles/

HTTP code	201
	extensions/\${extension-name}
	where
	<ul> <li>\${extension-name} is the name of the extension provided in the request's entity body.</li> </ul>
	• \${base_uri} is the base URI of Context Services.
	{ "name": " <b>\${extension-name}</b> "}
	where:
Body	<ul> <li>\${extension-name} is the name of the created extension.</li> </ul>

## Example

#### **Operation**

```
POST http://ucsserver.mycompany.com:8080/cms/profiles/extensions
{
   "name":"Address",
   "type":"single-valued",
   "attributes": [
        {"name":"AddressType","type":"integer","default":0},
        {"name":"AddressType","type":"string","length":256},
        {"name":"City","type":"string","length":32},
        {"name":"County","type":"string","length":32},
        {"name":"PostCode","type":"string", "length":10},
        {"name":"Country","type":"string","length":32}
    ]
}
```

#### Result

```
201 Created
Content-Location http://ucsserver.mycompany.com:8080/cms/profiles/extensions/Address
{"name":"Address"}
```

# Change Metadata Cache



## Description

Enables the reload of metadata cache. Metadata cache holds information for the definition of identification keys.

# Operation

ID	CV.WS.META.CACHE.PUT		
URI	/metadata/cache		
Method	PUT		
Parameter	Туре	Mandatory	Description
reload	token	yes	Any value triggers a reload.

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	No Content

# Example

The following operation reloads the metadata cache from the database.

## Operation

PUT /cv/metadata/cache/
{reload:true}

## Result

 $\operatorname{HTTP}/1.1$  200 OK with an empty body.

<references />

# Delete Metadata Identification Keys



## Description

Allows the deletion of Identification keys. The records in metadata table are removed, and the related table is dropped (if any). An identification key can be created based on the core profile attribute, but in this case a table is not created. Therefore, no table is dropped when it is deleted.

## Operation

ID	CV.WS.PROF.META.8			
URI	/metadata/identification-k	/metadata/identification-keys/\${id_key-name}		
Method	DELETE			
Parameter	Туре	Mandatory	Description	
<b>URI Parameter</b>				
\${id_key-name}	string	yes	The metadata identification key name to delete.  1 This name is <b>not</b> casesensitive.	

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

### Response

HTTP code	204
HTTP message	Success No Content

# Example

The following operation deletes an identification key.

## Operation

DELETE /metadata/identification-keys/idNickName

## Result

HTTP/1.1 204 OK Success No Content

## **Important**

If nothing was deleted, HTTP status code 404 ("Not Found") is sent.

# Delete Metadata Profile Extensions



## Description

Allows the deletion of a profile extension. The records in the profile extension table are deleted, the table is deleted, and the definition of the profile extension is erased. If identification keys exist based on the specified extension, it will not be deleted, and an error will be returned.

## Operation

ID	CV.WS.PROF.META.5		
URI	/metadata/profiles/extensions/\${extension-name}		
Method	DELETE		
Parameter	Туре	Mandatory	Description
<b>URI Parameter</b>			
			The metadata extension name to delete.
\${extension-name}	string	yes	Important This name is <b>not</b> case-sensitive.

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	204
HTTP message	Success No Content

# Example

The following operation deletes a profile extension.

## Operation

DELETE /metadata/profiles/extensions/CustomName

## Result

HTTP/1.1 204 OK Success No Content

## **Important**

If nothing was deleted, HTTP status code 404 ("Not Found") is sent.

# Get Identification Keys



# Description

Returns the identification keys.

# Operation

## **Get Identification Keys**

ID	CV.WS.PROF.META.6		
Method	GET		
URL	<ul> <li>All: /metadata/identification-keys</li> <li>Key: /metadata/identification-keys/\${key-name}</li> </ul>		
Name	Туре	Mandatory	Description
URI Parameter			
\${key-name}	string	no	The unique, case- insensitive name of the key. The name must start with a letter, and can be followed with letters, numbers, or underscores. The name is restricted to a maximum of 26 characters. (Maximum RDBMS shared limit on creation of index.)  Important If you do not specify this parameter, all keys are returned.

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK
Body	<ul> <li>/metadata/identification-keys: Identification Key[] <ref>Length can be 0.</ref></li> <li>/metadata/identification-keys/\${key-name}: Identification Key</li> </ul>

<references />

## Example

The following request retrieves all the identification keys: **Operation** 

GET /metadata/identification-keys

### Result

Let's consider a customer profile which consists of the customer's name, the date of birth, and the external ID (the customer's ID in an external system such as a CRM). Further assume that a single extension, Contacts, include various attributes such as the phone\_number. If you set up the Context Management Server to allow the customer identification via name+birthdate, external ID, or phone number, then the returned result is the following:

```
[{"name": "idNameBD", "attributes": ["name", " birthdate"]},
{"name": "idExt", "attributes": ["external_id"], "unique": true},
{"name": "idPhone", "attributes": ["phone_number"]}
{"name": "idExtension", "attributes": ["ext.code","ext.date"]}]
```

If the identification key was created off an extension, attributes that are part of the extension are prefixed with the extension name. In the previous example, "idExtension" was built on the extension "ext".

# Get Metadata



# Description

Returns the location for the list of available metadata resources.

# Operation

#### **Get Metadata**

ID	CV.WS.META.1		
Method	GET		
URL	/metadata		
HEADER	\${content-type}		
Parameter	Туре	Mandatory	Description
\${content-type}	<ul><li>"Content-type:text/ html"</li><li>"Content- type:application/ json"</li></ul>	yes	The formatting for the returned result.

<references />

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

### Response

HTTP code	200	
HTTP message	OK	
	GET "Content-type:text/html" /metadata	
	Returns an HTML page, containing a list of resource links as follows:	
	<html><body><h1>Available Resources</h1>  <a href="http://localhost:8080/ metadata/\${resource}">\${resource-name}  </a></body></html>	
	where:	
	• \${resource} is the location of the resource.	
Body	• \${resource-name}, the name of the resource.	
	GET "Content-type:application/json" /metadata	
	Returns a JSON table, containing a list of resource links as follows:	
	<pre>{\${resource-name-1}:\${resource-1}, \${resource-name-2}:\${resource-2},, \${resource-name-n}:\${resource-n} }</pre>	
	where:	
	• \${resource_i} is the location of the resource-i.	
	<ul> <li>\${resource-name_i} is the name of the resource-i.</li> </ul>	

## Example

### **Operation**

GET "Content-type:text/html" /metadata

#### Result

```
200 OK {
    <html><body><h1>Available Resources</h1><br/>
<a href="http://localhost:8080/metadata/identification-keys">
    identification-keys schemas<br/>
    identification-keys schemas<br/>
<a href="http://localhost:8080/metadata/tasks/extensions">Tasks Extensions<br/>
    identification-keys schemas<br/>
<a href="http://localhost:8080/metadata/tasks/extensions">Tasks Extensions<br/>
    identification-keys schemas<br/>
<a href="http://localhost:8080/metadata/tasks/extensions">Tasks Extensions<br/>
    identification-keys schemas<br/>
    identification-keys">
    identification-keys">
    identification-keys schemas<br/>
    identification-keys">
    identification-keys">
    identification-keys">
    identification-keys schemas<br/>
    identification-keys">
    identification-keys schemas<br/>
    identifi
```

### **Operation**

```
GET "Content-type:application/json" /metadata
```

#### Result

# Query Metadata Roles



## Description

This method provides convenient access to roles as configured in Configuration Server.

## Operation

-

ID	CV.WS.SRV.META.x
URI	/metadata/roles
Method	GET

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200	
HTTP message	OK	
Name	Туре	Description
role_name	String	The name of the given role.
role_dbid	String	The unique ID of the given role.
role_enabled	Boolean	<ul><li>enabled</li><li>disabled</li></ul>

HTTP code	200	
task	JSON Array	A task is made up of the following:  NameThe name of the task.  CapabilityIndicates whether
		the role can perform the task.

<references />

## Example

The following operation returns the configured roles with the state and capability.

## Operation

GET /metadata/roles

### Result

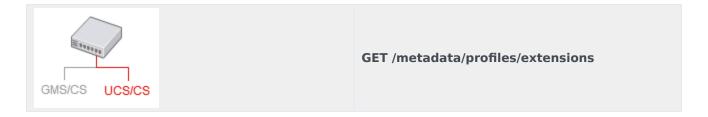
On success, the operation returns an array of zero or more JSON objects.

```
[ {
    "role_DBID" : 108,
  "role_enabled" : true,
  "tasks" : [ {
    "capableOf" : true,
    "name" : "UCS.Customer.createProfile"
  "role_name" : "Ucs_BigBrother"
"role_enabled" : true,
  "tasks" : [ {
    "capableOf" : true,
    "name" : "UCS.SchemaMgt.readServiceExtensionSchema"
  }, {
   "capableOf" : true,
    "name" : "UCS.Service.readServiceExtension"
  }, {
   "capableOf" : true,
    "name" : "UCS.Service.createServiceExtension"
  }, {
    "capableOf" : true,
    "name" : "UCS.Service.deleteServiceExtension"
  }, {
   "capableOf" : true,
    "name" : "UCS.SchemaMgt.readTaskExtensionSchema"
  }, {
   "capableOf" : true,
   "ucc Servi
    "name" : "UCS.Service.startService"
  }, {
```

```
"capableOf" : true,
    "name" : "UCS.SystemMgt.readServerInfo"
  }, {
    "capableOf" : true,
   "name" : "UCS.Service.readService"
 }, {
    "capableOf" : true,
    "UCS Syst."
    "name" : "UCS.SystemMgt.changeServerMode"
  "role_name" : "ucs_roleForAgents"
}, {
    "role_DBID" : 111,
  "role_enabled" : true,
  "tasks" : [ {
     "capableOf" : true,
    "name" : "UCS.SchemaMgt.handleMetadata"
  }, {
    "capableOf" : true,
    "name" : "UCS.SystemMgt.readServerInfo"
  }, {
   "capableOf" : true,
    "name" : "UCS.SchemaMgt.readGenAdminRole"
  } ],
"role_name" : "uselessRole"
}, {
    "role_DBID" : 112,
  "role_enabled" : true,
  "tasks" : [ {
    "capableOf" : true,
    "name" : "UCS.SystemMgt.readServerInfo"
  "role_name" : "anotherUselessRole"
} ]
```

<references />

# Query Profile Extension Schema



## Description

Queries the schemas of the given profile extension.

# Operation

**Prerequisites:** The Profile Extension Schema resource exists.

## **Important**

To create the profile extension schema, use the Create Profile Extension Schema operation.

#### Query Profile Extensions Schema

ID	CV.WS.PROF.META.3		
Method	GET		
URL	<ul><li>All: /metadata/profiles/extensions</li><li>/metadata/profiles/extensions/\${extension-name}</li></ul>		
Name	Type Mandatory Description		
<b>URI Parameter</b>			
\${extension-name}	string	no	The extension name, if a specific extension should be returned.  Important This name is not casesensitive.

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

#### Response

HTTP code	200
HTTP message	OK
	/metadata/profiles/extensions
	Returns an array of the following fields:
	name: the unique extension name.
	• type: "single-valued" or "multi-valued".
Body	required: true or false
	• attributes: Attribute Schema[].
	/metadata/profiles/extensions/\${extension-name}
	Extension Schema or Extension Schema[]

## Example

### Get all extension schemas

### **Operation**

GET /metadata/profiles/extensions

#### Result

## Get a single extension schema

### **Operation**

GET /metadata/profiles/extensions/Phone

#### Result

# Query Profile Schema



## Description

Queries the schema which describes the customer profiles. If the profile schema is not defined, this operation returns the HTTP Status Code 404 (Not Found). See Configuration Options for further details.

## Operation

## **Prerequisites:**

• The profile schema is already defined.

### **Query Profile Schema**

ID	CV.WS.PROF.META.1
Method	GET
URL	/metadata/profiles/

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

### Response

HTTP code	200
HTTP message	OK
Body	Attribute Schema[]

## Example

#### **Operation**

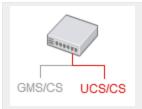
GET /metadata/profiles/

#### Result

```
200 OK
  [{"encrypt":false, "name": "PIN", "length": 256, "type": "string"},
  {"encrypt":false, "name": "Title", "length": 256, "type": "string"},
 { encrypt : Tatse, name : Titte , tength : 256, type : String },
{"encrypt":false, "name":"CustomerSegment", "length":256, "type":"string"},
{"encrypt":false, "name":"LastName", "length":256, "type":"string"},
{"encrypt":false, "name":"FirstName", "length":256, "type":"string"},
{"encrypt":false, "name":"PhoneNumber", "length":256, "type":"string"},
{"encrypt":false,"name":"PhoneNumber","length":256,"type":"string"},
{"encrypt":false,"name":"ContactId","length":256,"type":"string"},
{"encrypt":false,"name":"EmailAddress","length":256,"type":"string"},
{"encrypt":false,"name":"Title","length":256,"type":"string"},
{"encrypt":false,"name":"PIN","length":256,"type":"string"},
{"encrypt":false,"name":"ContactId","length":256,"type":"string"},
{"encrypt":false,"name":"homeaddress","length":256,"type":"string"},
{"encrypt":false,"name":"EmailAddress","length":256,"type":"string"},
{"encrypt":false,"name":"PhoneNumber","length":256,"type":"string"},
{"encrypt":false,"name":"AccountNumber","length":256,"type":"string"},
{"encrypt":false,"name":"LastName","length":256,"type":"string"},
{"encrypt":false,"name":"CustomerSegment"."length":256."type":"string"},
 {"encrypt": ratse, "name": "FirstName", "tength": 256, "type": "string"},
{"encrypt": false, "name": "CustomerSegment", "length": 256, "type": "string"},
{"encrypt": false, "name": "LastCalledAgent_EmployeeID", "length": 256, "type": "string"},
{"encrypt": false, "name": "PreferredAgent_EmployeeID", "length": 256, "type": "string"},
{"encrypt": false, "name": "LCA_EmplID_workitem", "length": 256, "type": "string"},
  {"encrypt":false,"name":"LCA_TimeStamp_workitem","length":0,"type":"datetime"},
 {"encrypt::Tatse, "name:: LCA_TIMEStamp_workItem", tength::0, type:: datetime; {
"encrypt":false, "name":"Pref_EmplID_workitem", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_auxwork", "length":0, "type":"datetime"},
{"encrypt":false, "name":"Pref_EmplID_auxwork", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_imchat", "length":256, "type":"string"},
 {"encrypt::false, name::LCA_EmplID_Imchat, tength::256, type::string},
{"encrypt":false, "name":"LCA_TimeStamp_imchat", "length":0, "type":"datetime"},
{"encrypt":false, "name":"Pref_EmplID_imchat", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_outboundpreview", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_TimeStamp_outboundpreview", "length":0, "type":"datetime"},
{"encrypt":false, "name":"Pref_EmplID_outboundpreview", "length":256, "type":"string"},
  {"encrypt":false, "name": "ref_EmptID_outboundpreview", tength :250, type : s
{"encrypt":false, "name": "LCA_EmplID_vmail", "length":256, "type": "string"},
{"encrypt":false, "name": "Pref_EmplID_vmail", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_smail", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_smail", "length":256, "type": "string"},
{"encrypt":false, "name":"LCA_EmplID_smail", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_TimeStamp_smail", "length":256, "type":"datetime"},
{"encrypt":false, "name":"Pref_EmplID_smail", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_cobrowsing", "length":256, "type":"datetime"},
{"encrypt":false, "name":"LCA_TimeStamp_cobrowsing", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_cobrowsing", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_webform", "length":256, "type":"datetime"},
{"encrypt":false, "name":"LCA_TimeStamp_webform", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_busevent", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_TimeStamp_busevent", "length":0, "type":"datetime"},
{"encrypt":false, "name":"LCA_EmplID_busevent", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_busevent", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_busevent", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_EmplID_busevent", "length":256, "type":"string"},
  {"encrypt":false, "name":"LCA_EmplID_voice", "length":256, "type":"string"},
{"encrypt":false, "name":"LCA_TimeStamp_voice", "length":0, "type":"datetime"},
  {"encrypt":false, "name": "Pref_EmplID_voice", "length": 256, "type": "string"},
```

```
{"encrypt":false, "name": "LCA_EmplID_appsharing", "length":256, "type": "string"},
{"encrypt":false, "name": "Pref_EmplID_appsharing", "length":26, "type": "string"},
{"encrypt":false, "name": "Pref_EmplID_email", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_email", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_email", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_chat", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_chat", "length":0, "type": "datetime"},
{"encrypt":false, "name": "LCA_ImmeStamp_chat", "length":0, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_any", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_any", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_any", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_fax", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_fax", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_fax", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_video", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_video", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_ImmeStamp_video", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_wideo", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_wideon', "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_wideon', "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_wideon', "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_alert", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_alert", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_sms", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID_sms", "length":256, "type": "string"},
{"encrypt":false, "name": "LCA_EmplID
```

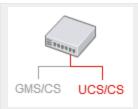
# Schema Resources



Lists the schema resources available for profile management.

- Attribute Schema
- Identification Key
- Profile Extension Schema

# Attribute Schema



**Purpose:** Describes an attribute schema, which can be part of an Extension Schema or of a Profile Schema.

## Description

Your application can retrieve or manage the definitions of the attributes that compose some resources of the Context Services. Each attribute schema defines an attribute, its name, its type, and associated properties such as the default value of the attribute (if it exists). For instance, the following attribute schema defines that the Address Type attribute accepts integer values and is equal to 0 by default:

{"name": "AddressType", "type": "integer", "default":0}

#### **Profile Attributes**

Profile attributes correspond to a recorded schema which details the attribute name, type, and content. In the 8.0.1 release, the configuration of a new attribute schema is performed in the Configuration Manager. Select in "Tenant" the item *specific configuration*, and under "Business Attributes" the item 'Contact Attributes'. Then, create a new Business Attribute Value. By default, the new Attribute is of type string. To assign another type to the schema, in Annex, create a section "settings", and a key "type" with the value "string" or "date". The default predefined attributes visible in the Configuration Server are the following:

- First Name (string)
- Last Name (string)
- · Phone Number (string)
- E-mail Address (string)
- Title (string)

Default 'internal' Attributes (not visible in the Configuration Server) are the following:

- LastCalledAgent EmployeeID (string)
- LastCalledAgent\_TimeStamp (date)
- PreferredAgent EmployeeID (string)

Additional attributes are available for each active media defined in the Business Attribute "Media

Type" of the Configuration Manager:

- LCA\_EmpIID\_<media> (string)
- LCA\_TimeStamp\_<media> (date)
- Pref\_EmpIID\_<media> (string)

Attributes of type date/time are formatted in ISO 8601 UTC <ref>>Wikipedia ISO 8601</ref>: [YYYY]-[MM]-[DD]T[HH]:[mm]:[ss].[SSS]Z

Example: "1981-03-17T02:00:00.000Z"

## Service, State, and Task extension attributes

Your application can define service, states, and tasks extension resources, based on extension schema which use an array of Attribute Schemas to define the content of the extension. See Extension Schema for further details.

## Resource

### **Attribute Schema**

Field	Туре	Mandatory	Description
			The name is unique for each attribute within the given extension.  • Starts with a letter, and can be followed with letters, numbers, or underscores.  • Is restricted to a maximum of 30
name	string	yes	characters (Maximum RDBMShttp://en.wikipediawiki/ Relational_database_manage shared limit.)  In profile attribute schemas, the name is not case-sensitive.
type	token  • boolean  • string	yes	The constraints on these types (the minimum and maximum values

Field	Туре	Mandatory	Description
	<ul><li>integer</li><li>long</li><li>double</li><li>date</li><li>dateTime</li><li>currency</li></ul>		supported for the integer type) vary with the RDBMS <ref name="RDBMS"></ref> .  2. Customer profiles are built on top of UCS' Contact Attributes, and support only String and DateTime attribute types. However, all attribute types are supported for profile extensions.
default	numeric or string	no	Provides a default value for the attribute. For numeric attributes, you do not need quotation marks. Quotation marks are for string, date, and datetime attributes. By default, the date/time format is ISO 8601 UTC <ref>Wikipedia ISO 8601 8601  </ref>
length	integer	no	Reserved to attributes of type String. Defines the maximum number of characters for the string.  • Default length is 256  • Maximum length is 4000.
mandatory	boolean	no	<ul> <li>false by default;</li> <li>true if the attribute is mandatory when inserting a new Profile Extension record.</li> </ul>

<references />

# Identification Key

## Purpose

Describes the Identification Key Resource.

## Description

The Identification Key is a combination of attributes used to identify a customer. These attributes (one or more) belong to the Customer Profile or to its extensions. Your application is responsible for creating the identification keys that are alter use to identify customers. See Create Identification Key for further details.

Identification keys cannot be issued from both the profile and its extensions.

Some identification key samples:

- An identification key consisting of attributes "name" and "birthdate" in the Profile.
- A key based on attribute "pin" of a single-valued extension used to hold customer pass codes.
- A key based on attribute "number" of a multi-valued extension used to record the phone numbers we
  have seen a customer call from.

When the UCS receives a new customer profile and the associated extension data, it builds the indexing structures based on the specified identification keys, in order to ensure efficient customer identification.

## Resource

#### **Identification Key**

Field	Туре	Mandatory	Description
name	string	yes	The unique, case- insensitive name of the key. The name must start with a letter, and can be followed with letters, numbers, or underscores. The name is restricted to a maximum of 26 characters. (Maximum RDBMS shared limit on

Field	Туре	Mandatory	Description
			creation of index.)
source	string	no	Can take on one of the following values:  • profile (default value): indicates that the attributes specified in parameter "attribute" belong to the core customer profile.  • The unique name of the given Extension, used to create the Identification Key.  • If none, it means that the attributes specified in the parameter attributes are not sourced from either the profile or an extension. In this case, you must manage manually the identification table in UCS.
attributes	string[]	yes	The array names of one or more attributes of the extension or of the profile.
unique	bool	no	<ul> <li>false by default.</li> <li>true to indicate that the given attributes of the profile or extension are unique across all customers.</li> </ul>

# Example

The following identification key is a phone number.

```
{ "name": "idPhone",
  "attributes": ["phone_number"]}
```

The following sample defines "FirstName" and "LastName" as a "primary key" instead of "indexed

key".

```
{"name":"idFirstNameLastName", "unique":true, "attributes":["FirstName","LastName"]}
```

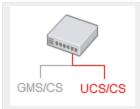
The combination of both parameters is unique. If your application tries to insert twice the same values, the operation will return an error. 

The use of a "primary key" instead of an "indexed key" makes the identification queries faster. It also prevents from creating two profiles with the same email address for example.

## Related operations

- Get Identification Keys
- Create Identification Key
- Update Identification Key

# Profile Extension Schema



**Purpose:** Describes the schema for any service, state, or task extension.

# Description

Describes one of the ProfileExtension resources.

- Profile extensions are supported. Before your application can start adding extensions to a given profile, your application must define this extension's schema, which includes its nested attributes.
- Service extensions are supported and multi-valued extensions are allowed.

## Resource

Field	Туре	Mandatory	Description
name	string	yes	The unique, case-insensitive name of the extension. The name must start with a letter, and can be followed with letters, numbers, or underscores (_).  The name is restricted to a maximum of 26 characters (Maximum RDBMS shared limit on creation of index).
type	token  • "single-valued"  • "multi-valued"  • "classifier"	yes	Extensions come in the following forms:  • Single-valued: a single extension record is associated with a given customer.  • Multi-valued: multiple extension records can be

Field	Туре	Mandatory	Description
			<ul><li>associated with a given customer.</li><li>Classifier: the single-valued extension has no attribute.</li></ul>
attributes	Attribute Schema[]	no	The array of zero or more attributes. Empty when type="classifier".
unique	string[]	no	Lists attributes which are unique in the scope of a given customer. The customer profile cannot include several extension records with identical values for these attributes.  For example, let's consider a contact extension with the stributes stributes with the stributes stributes stributes.
			attributes "phone_num", "ext", "time_of_day". To ensure that a given customer does not have two contact extensions with the same phone number, set the following in the extension schema: unique = ["phone_num", "ext"] Each item of this array is either a single attribute, or an array of two or more attributes.

# Examples

## Schema of a Single-Valued Extension

## Schema of a Multi-valued Extension

```
{
    "attributes": [
```

```
{"name":"car type","type":"string","length":"50","mandatory":"true"},
    {"name":"price","type":"integer","mandatory":"true"},
    {"name":"seats","type":"integer"},
    {"name":"comments","type":"string","length":"1024"}
    ],
    "name":"Proposal",
    "type":"multi-valued"
}
```

### Schema of a Profile Extension

The following schema describes the Address extension.

# Server Operations



**Purpose:** Lists the operations that your application can perform on UCS.

# Server Operations

- GET /server/status
- POST /server/mode

# Set Server Mode



#### POST /server/mode

## Description

Manages the UCS Mode for the Context Services. Two modes are available: Maintenance and Production.

- If the server switches from maintenance to production mode, the system waits a configured amount of time (default 1 minute) for the completion of all schema management requests (see Schema Operations).
- If the server switches from production to maintenance mode, the system waits for outstanding profile or service-related functions to complete.
   While the system is attempting to switch modes, all web service requests are denied with HTTP Status Code 503 (Service Unavailable).

Read the Server Mode page of the developer's guide for further details about maintenance and production mode.

## Operation

ID	CV.WS.MODE		
Method	POST		
URL	/server/mode		
Parameter	Туре	Mandatory	Description
mode	<ul><li>token</li><li>maintenance</li><li>production</li></ul>	yes	The mode to set (case-insensitive).

## Response

The UCS Server status is returned as a JSON object with the following fields: The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTP Response Codes and Errors for further details on the possible codes that this operation can return.

## Response

HTTP code	200
HTTP message	OK
Header	Location /server/status
Body	{"server changed":"\${mode}"} where:
	<ul> <li>\${mode} is the string for the new UCS mode (production or maintenance).</li> </ul>

# Example

## Operation

POST /server/mode
{"mode":"production"}

## Result

{"server changed":"production"}

# Query Server Status

<sup>a</sup> <b>b</b> <sup>c</sup>	GET /server/status
	Available since 8.0.100.00

## Description

Queries the status of the Universal Contact Server (UCS). The status that is returned includes in particular the Server Mode (production or maintenance), but it also includes additional information and valuable counters to analyse the activity of the UCS. ① Some counters, such as "request\_today", "client\_errors\_today", and "server\_errors\_today", are not persistent. They are automatically reset if the UCS is restarted.

## Operation

### **Query Server Status**

ID	CV.WS.STAT
Method	GET
URL	/server/status

## Response

The Context Management Service API answers with HTTP codes for every request. The following table shows the correct response for a successful request. See HTTPResponseCodesandErrors for further details on the possible codes that this operation can return.

### Response

HTTP code	200	
HTTP message	OK	
Name	Туре	Description
Body		
version	string	The version of the UCS.
system_time	date/time <ref name="format"&gt;The date/time format is "yyyy-MM- ddTHH:mm:ss.SSSZ".</ref 	The system time

HTTP code	200	
mode	<ul><li>token</li><li>production</li><li>maintenance</li></ul>	The Server Mode.
max_memory	long	The maximum amount of memory the JVM will attempt to use, in KB.
allocated_memory	integer	The amount of memory currently in use by the JVM, in KB.
free_memory	integer	The total memory available to the JVM, in KB.
started	date/time <ref name="format"></ref>	Start date of the UCS.
last_request	date/time <ref name="format"></ref>	The time of the last web service request.

<references />

# Example

### Operation

GET /server/status

### Result

```
"max_memory" : 518464,
"server_errors_today" : 0,
"client_errors_today" : 0,
"request_today" : 0,
"system_time" : "2010-02-24T15:56:46.369Z",
"used_memory" : 7947,
"allocated_memory" : 63936,
"started" : "2010-02-24T14:35:28.668Z",
"free_memory" : 55989,
"last_request" : "2010-02-24T14:35:27.964Z",
"mode" : "production",
"version" : "8.0.100.11"
```