

GENESYS

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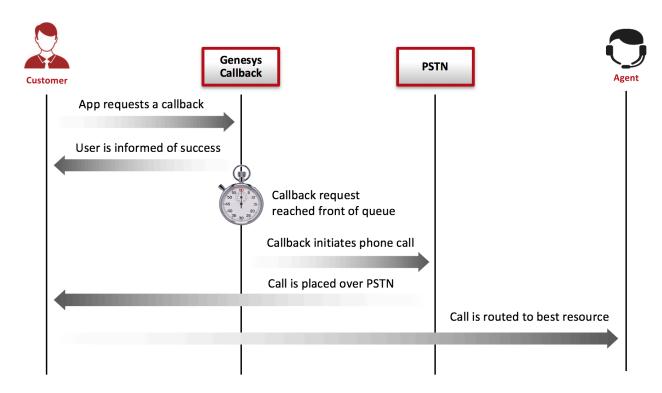
Callback User's Guide

User Terminated Delayed

User Terminated Delayed

Call flow

This Callback scenario is an outbound voice service that goes through the following stages:



Start Callback

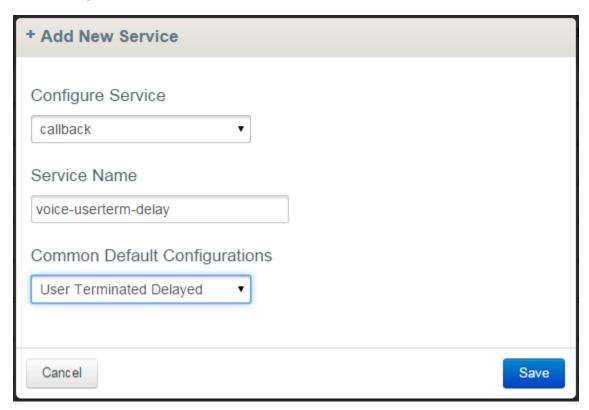
- Callback service: Returns session id to the user.
- Callback service: Waits for an agent to be available.
- Callback service: When an agent is available, notifies mobile device that agent is available.
- Next: Mobile device is expected to send connect request to confirm user's availability.

Connect

• Callback service: Returns a message to expect a call, to the mobile device.

- Callback service: Calls the mobile device.
- Mobile device: Accepts the call.
- Callback service: Identifies that a human has answered the call.
- · Callback service: Reserves target to route call.
- Callback service: Routes the call to the target.
- Callback service terminates.

Create your Scenario



In the **Admin UI > Services > Configured Services** tab, add a Callback service with User-Terminated-Delayed as the **Common Default Configuration** (see <u>Adding a Service</u> for details).

Enter a service name. This name is the callback execution name of your service and will be used in URLs to access this service. For example, if you set this name to voice-userterm-delay, your service URL will be:

http://host:port/genesys/l/service/callback/voice-userterm-delay

When you add this service and default configuration, many options are automatically populated with the appropriate default values.

Configuration Options

The table below lists the key options applicable to this scenario. Some options, however, will require you to enter your own values. See the **Comments** column in the following table for these details.

Pre-defined Values

The following options are the default values, which are automatically populated when selecting the pre-defined *User-Terminated-Delayed* service. You do not need to change their values.

Option	Description
_call_direction = USERTERMINATED	 This is a default value, automatically populated when using the predefined User-Terminated scenario. You do not need to change this value. If this option is set to USERORIGINATED, the customer's device will initiate the call to get connected to the agent. If this option is set to USERTERMINATED, the agent or the system will initiate the call to contact the customer.
_media_type = voice	Media type of the interaction that the service is expected to handle. This option enables URS to select an agent who has the appropriate media capabilities. This is a default value, automatically populated when using the predefined User-Terminated scenario. You do not need to change this value. This option is mandatory.
_wait_for_agent = true	True to wait for an agent to connect. If this option is set to true, the service will wait for the agent to initiate the interaction and to send the notification to the customer. If the option is set to false, the interaction can start right after the creation of the service instance. In voice scenarios, the access information will be returned immediately with the service ID. This option is mandatory.
_wait_for_user_confirm = true	True to wait for confirmation of the customer's availability. If this option is set to true, the service sends a push notification to the customer's device to get confirmation that the customer is ready to have a conversation with the agent. This scenario is possible only if the _wait_for_agent option is set to true.
_ttl = 86400	Duration (in seconds) for which the service will be kept in storage after the Desired Time is passed (Time To Live).

Option	Description
	Once expired, the service is removed from the system. For example, if you want the callbacks to be visible in the Service Management UI for one week past the execution time, then you should set 7 days of Time To Live, which means _ttl=604800. This option is mandatory.
_type = ors	 For Genesys Mobile Services-based services: builtin For Orchestration Server-based services: ors
_userterminated_first_connect_ = CUSTOMER	First party to connect when _call_direction is set to USERTERMINATED. Set this option to CUSTOMER to call the customer first; set this option to party This option is mandatory.

Additional Required Options

You must configure the following options. See the Universal Routing Server (URS) documentation for additional information about URS targets.

Option	Description
	Routing target that specifies the agent/queue resource that will process this request.
	 Starting in 8.5.108.02, you can set multiple targets in this option, limited to 5.
	• Starting in 8.5.114.09, the limit is increased to 15.
	Single Target
_target="MyTarget@StatServer.GA"	For a single target, format the string according to the URS target specification: <target string="">@<statserver name="">.<target type=""> where Target Type is one of the following:</target></statserver></target>
	A (Agent)
	AP (Agent Place)
	GA (Group of Agents)
	GP (Group of Places)
	GC (Campaign Group)
	<target string=""> can be a skill expression. In that case, <target string=""> must start with '?:'.</target></target>

Option	Description
	For example:
	 Billing@StatServer.GA—Routes to Agent Group "Billing".
	 ?:English=20&;Loans=2@StatServer.G A—Routes to any agent matching the skill expression.
	See the Universal Routing Server (URS) documentation for additional information about URS targets.
	Multiple Targets
	To set multiple targets, create a JSON-formatted string array of maximum 15 elements as follows:
	<pre>[</pre>
	you must choose one of the following values:RStatAgentsReadyvoice—agents ready for voice media.
	 RStatAgentsReady—agents ready for any media.
	 RStatAgentsTotal—agents logged in.
	 The stat_value property specifies the threshold for the statistic passed in stat_to_check. If the condition set by the combination of stat_to_check, stat_operator, and stat_value is met, the current target is skipped, except if it is the last target of the list.
	 If clear=true, the target will be overridden when switching to the next target; if clear=false, the target will be expanded with

Option	Description
	the next target.
	Important If you set multiple targets in this option, then _urs_queued_ttl should be set to the total queue time across all targets.
	more
_urs_virtual_queue="MyVirtualQueue"	Virtual queue (alias) to which the service request will be added.
_urs_prioritization_strategy = WaitForTarget _urs_strategy_update_sub_routine = SetRouteDelay	By default, these options respectively match the names of the URS strategy and subroutine that you imported into IRD. If you changed one of these names, update the corresponding option to reflect the correct name.

Customization

The options shown here and all of the options of the Voice User Terminated section are applicable for this scenario. You can use the default values, or you can set your own values. For the route point option, you must select a value from the drop-down list in the UI.

Option	Description	
Section: Voice User Terminated		
_on_user_confirm_timeout=CONNECT-ANYWAY	Selects the action to perform if the user does not submit his or her confirmation in response to the push notification. • CONNECT-ANYWAY will continue with the call. • CANCEL cancels the service request.	
_prefix_dial_out=91	Prefix required to perform a user-terminated (outbound) call from the system.	
_route_point={Route Point}@{Telephony Switch}	Route point from which the system can create a user-terminated (outbound) call. This option is mandatory.	
Section: Voice Treatment		

Option	Description
_treatment_call_failure_answering_machine	URI of the music file to play when a call is not answered by the customer and is forwarded to the answering machine. JSON-formatted strings can be used to specify hints to the RequestApplyTreatment. The following example makes the music start playing after the answering machine beep is detected: { "file": "file_url", "hints": { "am-beep-detection": "on"} } By default, the value of this option is empty and Callback uses the <gms installation="">//Resources/SampleTreatments/call_fail_ans_machine.wav file from the Callback template. To deactivate the play treatment, set the value of this option to { }.</gms>
_treatment_find_agent_fail = GMSApplications/ <treatmentfile1></treatmentfile1>	Music file to be played when the service fails to find the agent in the time specified by the Max Time To Wait For Agent on the Call parameter. This parameter accepts a URI as a string or as a JSON-formatted string. See also _treatment_waiting_for_agent. By default, this option has an empty value and Callback will use the <gms installation="">/Resources/SampleTreatments/all_agents_busy.wav file available in the callback template.</gms>
_treatment_waiting_for_agent = GMSApplications/ <treatmentfile2></treatmentfile2>	Music file to play when the customer is waiting for an agent. This parameter accepts a URI as a string or as a JSON-formatted string. If you do not set this option, Callback will use the default <gms installation="">/Resources/SampleTreatments/ next_customer_rep.wav file of the callback template.</gms>
_treatment_customer_connect = GMSApplications/ <treatmentfile3></treatmentfile3>	URI of the music file to play when the customer answers the callback. The JSON-formatted strings can be used to specify hints to the RequestApplyTreatment. For example: { "file": "file_url", "hints": {"hint1":"value"}}

Important

In the Voice Treatment section, the GMSApplications/<treatmentfile> path is

applicable if you are using the treatments builtin to the Callback strategy. If you are not using the builtin treatments, enter the path where you have placed your voice treatment files.

Sample Request and Response Sequence

Create outbound delay service

For instance, if your callback service is named voice-userterm-delay, create the following POST request:

```
Request URL:http://localhost:8080/genesys/1/service/callback/voice-userterm-delay
Request Method: POST
Status Code: 200 OK
Request Headersview source
Accept:*/*
Accept-Encoding:gzip,deflate,sdch
Accept-Language:en-US,en;g=0.8
Connection: keep-alive
Content-Length: 662
Content-Type:multipart/form-data: boundary=----WebKitFormBoundaryABpcDouIW05inBWl
Cookie: JSESSIONID=4ieeqn8sa8nilo2u2ndlbr8a4; BAYEUX BROWSER=8672lorubxaqcqhw0hj14cpyaqk2
qms user:b16416334828b1d26ef14f329628b55b5a8c631d8928a371a5584722dd7fb673
Host:localhost:8080
Origin:http://localhost:8080
Referer: http://localhost:8080/gmstester/chat.html
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.110 Safari/537.36
Request Payload
-----WebKitFormBoundaryABpcDouIWQ5inBWl
Content-Disposition: form-data; name=" customer number"
916504661232
-----WebKitFormBoundaryABpcDouIWQ5inBWl
Content-Disposition: form-data; name="usr customer name"
Bob Markel
-----WebKitFormBoundarvABpcDouIW05inBWl
Content-Disposition: form-data; name="usr reason"
billing question
-----WebKitFormBoundarvABpcDouIW05inBWl
Content-Disposition: form-data; name=" device notification id"
b16416334828b1d26ef14f329628b55b5a8c631d8928a371a5584722dd7fb673
-----WebKitFormBoundaryABpcDouIWQ5inBWl
Content-Disposition: form-data; name=" device os"
comet
-----WebKitFormBoundaryABpcDouIWQ5inBWl--
Response Headersview source
Cache-Control:no-cache
Cache-Control:no-store
Content-Type:application/json;charset=UTF-8
```

```
Content-Type:application/json;charset=UTF-8
Date:Tue, 30 Jul 2013 07:04:31 GMT
Expires:Thu, 01 Jan 1970 00:00:00 GMT
Pragma:no-cache
Set-Cookie:JSESSIONID=1b81btxjbrb1wybz5a93i24io;Path=/genesys
Transfer-Encoding:chunked

Response Body:
{
    "_id": "369-b100700a-4ce8-48f7-b1b0-1944b12359b9",
    "_text": "We will notify you when agent is available"
}

Push notification data:
{
    "_dialog_id": "0",
    "_action": "ConfirmationDialog",
    "_text": "You will receive the call shortly",
    "_ok_title": "0k",
    "_id": "369-b100700a-4ce8-48f7-b1b0-1944b12359b9"
}
```

Connect (user confirmation)

```
Request URL:http://localhost:8080/genesys/1/service/369-b100700a-4ce8-48f7-b1b0-1944b12359b9/connect
Request Method: POST
Status Code: 200 OK
Request Headersview source
Accept:*/*
Accept-Encoding:gzip,deflate,sdch
Accept-Language:en-US,en;g=0.8
Connection: keep-alive
Content-Length: 44
Content-Type:multipart/form-data: boundary=----WebKitFormBoundaryNY84ld7wm7oHB9fp
Cookie:JSESSIONID=1b81btxjbrblwybz5a93i24io; BAYEUX BROWSER=86721orubxaqcqhw0hj14cpyaqk2
qms user:b16416334828b1d26ef14f329628b55b5a8c631d8928a371a5584722dd7fb673
Host:localhost:8080
Origin:http://localhost:8080
Referer: http://localhost:8080/gmstester/chat.html
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.110 Safari/537.36
Request Payload
----WebKitFormBoundaryNY84ld7wm7oHB9fp--
Response Headersview source
Cache-Control:no-cache
Cache-Control:no-store
Content-Length: 26
Content-Type:application/json;charset=UTF-8
Content-Type:application/json;charset=UTF-8
Date: Tue, 30 Jul 2013 07:04:35 GMT
Expires:Thu, 01 Jan 1970 00:00:00 GMT
Pragma: no-cache
Set-Cookie:JSESSIONID=mjjvtphwb8lpce7io23ggxcu;Path=/genesys
Response Body:
    " dialog id": "0",
    " action": "ConfirmationDialog",
    "text": "You will receive the call shortly",
    " ok title": "0k",
    "id": "369-b100700a-4ce8-48f7-b1b0-1944b12359b9"
```

Sequence Diagram

Click the diagram to access full resolution.

