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Service Management UI Help

User Originated Delayed

12/16/2025

User Originated Delayed

Type: **ors** / **inbound voice service**

Scenario

The customer wishes to contact the Call Center and accepts to wait for an agent. The Callback service notifies the mobile when an agent is ready, then provides an access number and an access code (optional) that the customer can dial. Then, the customer's inbound call is processed and routed to an agent.

This Callback scenario is an inbound 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 the mobile device that agent is available.
- Next: the Mobile device is expected to send connect request to confirm the user's availability.

Connect

- Callback service: Returns access information immediately to the mobile device.
- Callback service: Waits for the voice call to arrive.
- Next: the Mobile device is expected to dial the access number.

Dial Access Number

- Inbound service: Locates the GMS service associated with the arrived voice call.
- Inbound service: Delegates the call to be processed by the Callback service.

- Callback service: Reserves target to route call.
- Callback service: Routes the call to the target.
- Callback service terminates.

How to Configure this Scenario

The sections below list the key options applicable to this scenario. Use the GMS Service Management UI to set the User Originated Delay service and configure options. On the *Services > Configured Services* tab, add a Callback service with *User-Originated-Delayed* as the Common Default Configuration (see [Configured Service](#)). When you add this service and default configuration, many options are automatically populated with the appropriate default values. Some options, however, will require you to enter your own values. See the Comments column in the following table for these details.

Default Values for User Originated Delay

These are the default values, which are automatically populated when using the pre-defined User-Originated-Immediate service. You must not change these values.

Option	Description
<code>_wait_for_agent = true</code>	<p>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.</p> <p>This option is mandatory.</p>
<code>_wait_for_user_confirm = true</code>	<p>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 <code>_wait_for_agent</code> option is set to</p>

Option	Description
	true.
<code>_call_direction = USERORIGINATED</code>	<p>This is a default value, automatically populated when using the predefined User-Terminated scenario. You do not need to change this value.</p> <ul style="list-style-type: none">• If this option is set to <code>USERORIGINATED</code>, the customer's device will initiate the call to get connected to the agent.• If this option is set to <code>USERTERMINATED</code>, the agent or the system will initiate the call to contact the customer.
<code>_userterminated_first_connect_party = CUSTOMER</code>	<p>First party to connect when <code>_call_direction</code> is set to <code>USERTERMINATED</code>. Set this option to <code>CUSTOMER</code> to call the customer first; set this option to <code>AGENT</code> to call the agent first.</p> <p>This option is mandatory.</p>
<code>_ttl = 86400</code>	<p>Duration (in seconds) for which the service will be kept in storage after the Desired Time is passed (Time To Live).</p> <p>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 <code>_ttl=604800</code>.</p> <p>This option is mandatory.</p>
<code>_type = ors</code>	<ul style="list-style-type: none">• For Genesys Mobile Services-based services: <code>builtin</code>• For Orchestration Server-based services: <code>ors</code>

Option	Description
<code>_provide_code = false</code>	If true, returns a randomly generated code to be used for the authentication of the user originated (inbound) call. This option is mandatory.
<code>_use_debug_push_certificate = false</code>	Use debug certificates for the push notification provider

Additional Required Options

You must enter a string value for the following options:

Option	Description
<code>_resource_group="DNIS"</code>	Resource group from which access number is to be allocated. This option is mandatory.
<code>_urs_virtual_queue="MyVirtualQueue"</code>	Virtual queue (alias) to which the service request will be added.
<code>_target="MyTarget@StatServer.GA"</code>	Routing target that specifies the agent/queue resource that will process this request. <ul style="list-style-type: none">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.

Option	Description
	<div><h3>Single Target</h3><p>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:</p><ul style="list-style-type: none">• A (Agent)• AP (Agent Place)• GA (Group of Agents)• GP (Group of Places)• GC (Campaign Group)<p><Target String> can be a skill expression. In that case, <Target String> must start with '?:'. For example:</p><ul style="list-style-type: none">• Billing@StatServer.GA—Routes to Agent Group "Billing".• ?:English=20&;Loans=2@StatServer.GA—Routes to any agent matching the skill expression.<p>See the Universal Routing Server (URS) documentation for additional information about URS targets.</p><h3>Multiple Targets</h3><p>To set multiple targets, create a JSON-formatted string array of maximum 15 elements as follows:</p><pre>[{ "target": "<Target String>@<StatServer name>.<Target Type>", "timeout": "<integer>", "clear":<true/false>, "stat_to_check": "<stat name>", "stat_operator": "< or >",</pre></div>

Option	Description
	<pre data-bbox="1131 316 1467 391"> "stat_value": "1" }] </pre> <ul data-bbox="1142 422 2049 965" style="list-style-type: none"> • The <code>timeout</code> property specifies how long to wait in seconds before switching of targets. • The <code>stat_to_check</code> property can be set to any of the values supported by the <code>Statistics</code> parameter passed to the <code>IRD</code> function <code>SData(Target, Statistics)</code>, unless <code>target</code> is a skill expression. If <code>target</code> is a skill expression, you must choose one of the following values: <ul data-bbox="1176 630 1904 750" style="list-style-type: none"> • <code>RStatAgentsReadyvoice</code>—agents ready for voice media. • <code>RStatAgentsReady</code>—agents ready for any media. • <code>RStatAgentsTotal</code>—agents logged in. • The <code>stat_value</code> property specifies the threshold for the statistic passed in <code>stat_to_check</code>. If the condition set by the combination of <code>stat_to_check</code>, <code>stat_operator</code>, and <code>stat_value</code> is met, the current target is skipped, except if it is the last target of the list. • If <code>clear=true</code>, the target will be overridden when switching to the next target; if <code>clear=false</code>, the target will be expanded with the next target. <div data-bbox="1142 997 1948 1093"> <p>Important</p> <p>If you set multiple targets in this option, then <code>_urs_queued_ttl</code> should be set to the total queue time across all targets.</p> </div> <p data-bbox="1971 1101 2060 1133">more...</p>
<pre data-bbox="168 1220 728 1300"> _urs_prioritization_strategy = WaitForTarget _urs_strategy_update_sub_routine = SetRouteDelay </pre>	<p data-bbox="1131 1220 2049 1308">These options respectively match the names of the URS strategy and subroutine that you imported into <code>IRD</code>. If you changed one of these names, update the corresponding option to reflect the correct name.</p>

Customization

All of the options in the section are applicable. You can use the default values, or you can set your own values.

Option	Description
Voice-User Originated	
<code>_booking_expiration_timeout = 30</code>	Used to book the access number resource for a period of time. The customer needs to make the call within the specified timeout to ensure a successful match. This option is mandatory.
<code>_provide_code= false</code>	If true, returns a randomly generated code to be used for the authentication of the user originated (inbound) call. This option is mandatory.
<code>_userorig_connect_limit=3</code>	Maximum number of times that the customer can request a connection or a reconnection.
Voice Treatment section	
<code>_treatment_find_agent_fail = GSMApplications/<treatmentfile1></code>	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 <code>_treatment_waiting_for_agent</code> . 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.

Option	Description
<code>_treatment_waiting_for_agent = GMSApplications/<treatmentfile2></code>	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.

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. This path may or may not point to files on a Genesys Media Server.

Sample Request and Response Sequence

Create inbound delay service

```
Request URL:http://localhost:8080/genesys/1/service/callback/voice-userorig-delay
Request Method:POST
Status Code:200 OK
Request Headersview source
Accept:*/*
Accept-Encoding:gzip,deflate,sdch
Accept-Language:en-US,en;q=0.8
Connection:keep-alive
Content-Length:753
Content-Type:multipart/form-data; boundary=---WebKitFormBoundary4KngrF26eEEFKIu5
Cookie:JSESSIONID=5lpxopl7oanu50iexlwaqrvq; BAYEUX_BROWSER=86721orubxagcqhwh0hj14cpyaqk2
```

User Originated Delayed

```
gms_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
-----WebKitFormBoundary4KngrF26eEEFKIu5
Content-Disposition: form-data; name="type"

Gold
-----WebKitFormBoundary4KngrF26eEEFKIu5
Content-Disposition: form-data; name="_customer_number"

6504661232
-----WebKitFormBoundary4KngrF26eEEFKIu5
Content-Disposition: form-data; name="usr_customer_name"

Bob Markel
-----WebKitFormBoundary4KngrF26eEEFKIu5
Content-Disposition: form-data; name="usr_reason"

billing question
-----WebKitFormBoundary4KngrF26eEEFKIu5
Content-Disposition: form-data; name="_device_notification_id"

b16416334828b1d26ef14f329628b55b5a8c631d8928a371a5584722dd7fb673
-----WebKitFormBoundary4KngrF26eEEFKIu5
Content-Disposition: form-data; name="_device_os"

iOS
-----WebKitFormBoundary4KngrF26eEEFKIu5--
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 06:51:31 GMT
Expires:Thu, 01 Jan 1970 00:00:00 GMT
Pragma:no-cache
Set-Cookie:JSESSIONID=fbnacjg4ginj1xlbzkcv5j7wq;Path=/genesys
Transfer-Encoding:chunked

Response Body:
```

User Originated Delayed

```
{
  "_id": "369-90f389cf-ae63-46ec-a3f7-7b76c0522e2f",
  "_text": "We will notify you when agent is available"
}
```

Push notification data:

```
{
  "id": "db508720258611e300006072543ed1ff",
  "message": {
    "_action": "get-dialog-user-confirmation-provide_code-false",
    "_id": "369-90f389cf-ae63-46ec-a3f7-7b76c0522e2f"
  },
  "tag": "service.agentavailable.369-90f389cf-ae63-46ec-a3f7-7b76c0522e2f"
}
```

Connect (user confirmation/request access info)

```
Request URL:http://localhost:8080/genesys/1/service/369-90f389cf-ae63-46ec-a3f7-7b76c0522e2f/connect
Request Method:POST
Status Code:200 OK
Request Headersview source
Accept:*/*
Accept-Encoding:gzip,deflate,sdch
Accept-Language:en-US,en;q=0.8
Connection:keep-alive
Content-Length:44
Content-Type:multipart/form-data; boundary=---WebKitFormBoundarylg0FYFBusYz5okcj
Cookie:JSESSIONID=febiiafprxsoln7bokxbrqwqv; BAYEUX_BROWSER=86721orubxagcqhwhj14cpyaqk2
gms_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
-----WebKitFormBoundarylg0FYFBusYz5okcj--
Response Headersview source
Cache-Control:no-cache
Cache-Control:no-store
Content-Length:312
Content-Type:application/json;charset=UTF-8
Content-Type:application/json;charset=UTF-8
```

User Originated Delayed

Date: Tue, 30 Jul 2013 06:54:21 GMT
Expires: Thu, 01 Jan 1970 00:00:00 GMT
Pragma: no-cache
Set-Cookie: JSESSIONID=1t65gbvy9mrwdwysh123gpb0f; Path=/genesys

Response Body:

```
{
  "_dialog_id": "0",
  "_label": "Connecting ...",
  "_action": "DialNumber",
  "_tel_url": "tel:6504663205",
  "_access_code": "n/a",
  "_access_number": "6504663205",
  "_expiration_time": "29",
  "_id": "369-90f389cf-ae63-46ec-a3f7-7b76c0522e2f"
}
```

Sequence Diagram

[Click the diagram to access full resolution.](#)

