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Genesys Mobile Services Developer's Guide

Genesys Mobile Engagement 8.1.1

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Welcome to the Developer's Guide!

This Developer's Guide contains information that will help you understand what sample applications are included with your Genesys Mobile Services installation, how to test those samples in your own environment, and what you can do to jump start your own development based on the example these applications provide. The overview page provides a quick outline of samples included with the release, or you can you go directly to the sample-specific documentation using the following links:

- InsureCo Sample
- ORS Samples Overview
- Custom Reporting

Downloads for each sample are provided on the respective documentation pages, and can also be found on the Sample Resources page.

Other Tasks and Resources

Before reading this material you may want to:

- Install Genesys Mobile Services.
- Ensure you have access to the latest version of the API Reference.
- Download the latest version of the Release Note (using links on the Genesys Mobile Services Product Page) to see the most recent news and updates about this product.

Sample Application Overview

This chapter provides an brief overview of the different sample applications included with Genesys Mobile Services. As additional sample applications are made available, this chapter will be updated to provide supporting information. For additional details, please refer to appropriate pages below.

InsureCo Sample

InsureCo Sample

InsureCo Sample Overview

This sample application allows a user to create an insurance claim, after which an option is given to either talk with an agent as soon as the claim is submitted or to wait and be notified when an agent becomes available. These scenarios demonstrate how to implement one basic (request-interaction) and one advanced (request-inbound-delay) service, as well as using APNS Push messages and Google C2DM from Genesys Mobile Services. The intended audience for this sample are Enterprise iPhone/ Android developers who plan to implement mobile services using thing Genesys Mobile Services platform.

Scenarios

- 1. In the basic scenario a call is placed immediately after the user creates and submits a claim, allowing that user to talk with an agent.
- 2. In the advanced scenario, a user creates a claim but is unable to contact an agent right away. When an agent becomes available, the application notifies the user, reserves the available agent, and offer appropriate call options.

In addition to these scenarios, you can use this sample to explore other features supported by Genesys Mobile Services such as sending the geolocation coordinates or storing and uploading images as part of your request to the Genesys Mobile Services server.

Related Information

Platform	Build Requirements	Runtime Requirements
iPhone	iOS 5.0 SDK	iOS 5.0
Android	 Android SDK (API level 13 and more) Apache Maven 3.x 	Android OS 2.2.1

InsureCo Sample System Requirements

Downloadable Files

- 🎄 Genesys Mobile Services Sample InsureCo Native Android

• 🎄 Genesys Mobile Services Sample ORS Samples

ORS Samples Overview

Downloadable Files

• 🎄 Genesys Mobile Services Sample ORS Samples

Custom Reporting

Basic Configuration for Real-Time and Historical Reporting Based on T-Server's UserEvent Mechanism

Prerequisites

- 1. ORS is connected to T-Server
- 2. StatServer is connected to the same T-Server (if you need real-time reporting)
- 3. Icon is connected to T-Server and configured to store user events to G_CUSTOM_DATA_P table (if you need historical reporting)

Architecture



Configuration instructions

- Create a new DN of type Extension. The name of the DN is not important, but it is used inside SCXML scripts so should be meaningful and recognizable.
 Example: Sip Switch -> DN -> REPORTING
- Make sure Icon and StatServer are connected to the T-Server that is servicing the switch specified in step 1.
 Example: Sip Server.
- In Icon configuration in Configuration Manager, add the 'custom-states' section under Options and create the GlobalData option there. List attached data fields you want to capture preceded with data

type. Example:

- Start Icon and StatServer (if not already started) and use logs to verify they registered on REPORTING DN.
- Add the following block of code to the beginning of your SCXML flow. This code will setup the _data.userevent_udata_to_send variable to store all significant state changes you want to capture from the point of view of reporting. Names should match Icon's GlobalData configuration option and StatServer/CCPulse reporting and statistics templates. Example:

<datamodel>

```
</datamodel>
<script>
         _data.userevent_udata_to_send = {
                  gms_SessionId': _sessionid,
                  'gms_SessionEventSeq':0,
                  'gms ServiceName': 'your service name here',
                  'qms UserId':,
                  'gms externalId':,
                  // service state change timestamps
                  'gms_ServiceStartAt': ,
'gms_WaitingForAgent':,
                  'gms AgentAvailable':,
                  'gms UserConnected':,
                  gms_AgentConnected':,
                  gms_IxnCompleted':,
                  'gms ServiceStoppedAt':
        };
```

```
</script>
```

• Add following block of code into your SCXML flow where significant state change is happening:

Example:

```
</script>
                 <ixn:userevent requestid="_data.userevent_reqid"
resource="({'switch':'SIP_Switch', 'dn':'REPORTING'})"
                                  udata=" data.userevent udata to send"/>
                 <queue:submit route="false" timeout="_data.queueSubmitTimeout">
                         <queue:targets type="agentgroup">
                                 <queue:target name=" data.defaultAgentGroup"/>
                         </queue:targets>
                 </queue:submit>
        </onentry>
        <transition event="gueue.submit.done" target="agentAvailable"/>
        <transition event="error.queue.submit" target="error">
        </transition>
        <transition event="service.ttl.expired" target="error">
        </transition>
</state>
```

Verifying reporting data

- Run your scenario by triggering Genesys Mobile Services and Orchestration Server (ORS) APIs directly.
- Make sure user events are being delivered to StatServer and Icon applications by checking T-Server logs. You should see something like this:

```
00:34:20.757 Int 04543 Interaction message "RequestDistributeUserEvent" received from 516
("OrchestrationServer")
 -- Absent ThisDN, REPORTING was used
@00:34:20.7570 [0] 8.1.000.62 send_to_client: message EventACK
         AttributeEventSequenceNumber
                                              000000000000000000ef8
                                     'Environment'
         AttributeCustomerID
         AttributeTimeinuSecs
                                      757000
                                     1348817660 (00:34:20)
         AttributeTimeinSecs
         AttributeReferenceID
                                      431
                                 'REPORTING'
         AttributeThisDN
         AttributeUserEvent
                                    RequestDistributeUserEvent
 00:34:20.757 Trc 04542 EventACK sent to [516] (00000003 OrchestrationServer
192,168,27,50;40727)
@00:34:20.7570 [0] 8.1.000.62 distribute user event: message EventUserEvent
         AttributeEventSequenceNumber
                                              0000000000000ef9
         AttributeCustomerID
                                     'Environment'
                                      757000
         AttributeTimeinuSecs
                                     1348817660 (00:34:20)
         AttributeTimeinSecs
         AttributeUserEvent
                                    EventUserEvent
                                   [347] 00 0c 00 00.
         AttributeUserData
                  gms AgentAvailable'
                                               '1348817660755'
                  'gms AgentConnected'
                  'gms_IxnCompleted'
                  gms_ServiceName'
                                            'inbound-delay'
                  'gms_ServiceStartAt'
'gms_ServiceStoppedAt'
                                               '1348817660553'
                  'gms SessionEventSeq'
                                               3
                  'gms SessionId'
                                         '65UA6ISSJH76R340BNDQ2DG0DG000036'
                  gms_UserConnected'
                  gms_UserId'
                  'gms WaitingForAgent'
                                               '1348817660744'
                  'gms_externalId'
                              '777'
         AttributeANI
         AttributeDNIS
                               '333'
         AttributeReferenceID
                                      431
```

AttributeThisDN 'REPORTING' 00:34:20.758 Trc 04542 EventUserEvent sent to [508] (0000000c Icon_Voice 192.168.27.50:42678) 00:34:20.758 Trc 04542 EventUserEvent sent to [588] (00000004 Stat_Server 192.168.27.50:40728) 00:34:20.758 Trc 04542 EventUserEvent sent to [592] (00000005 Universal_Routing_Server 192.168.27.50:40744)

 Check your Icon log and G_CUSTOM_DATA_P table and make sure data is recorded properly. Examples:

Icon log:

00:39:19.569 Int 04543 Interaction message "EventUserEvent" received from 65200 ("SIP_Server@REPORTING")

00:39:19.751 Int 04543 Interaction message "EventUserEvent" received from 65200 ("SIP_Server@REPORTING")

00:39:19.766 Int 04543 Interaction message "EventUserEvent" received from 65200 ("SIP_Server@REPORTING")

00:39:19.987 Trc 25016 Persistent Queue GUD: transaction 10929 is committed. 5 records written into the queue

00:39:19.987 Trc 25003 Database queue [GUD]: persistent queue transaction 10929 is being processed.

00:39:20.001 Trc 25004 Database queue [GUD]: persistent queue transaction 10929 is processed, committed and removed. 5 records are written.

Icon's G_CUSTOM_DATA_P table:

select * from dbo.G_CUSTOM_DATA_P

8 0 830 REPORTING 0 101 2012-09-28 1 07:43:09.443 1348818189 4496060 65UA6ISSJH76R340BNDQ2DG0DG000038 inbound-delay 1348818189441 1 9 0 830 REPORTING 0 101 1 2012-09-28 07:43:09.590 1348818189 4496060 65UA6ISSJH76R340BND02DG0DG000038 inbound-delay 1348818189441 1348818189590 2 10 0 830 REPORTING 0 101 1 2012-09-28 1348818189 65UA6ISSJH76R340BND02DG0DG000038 07:43:09.600 4496060 inbound-delay 1348818189441 1348818189590 3 1348818189596

• Start CCPulse and create a reporting template for monitoring REPORTING DN.

Congratulations: you are done!

Sample Resources

List of Genesys Mobile Services Code Samples

Sample	Description	Documentatio	on Resource
Orchestration Server Samples	A package of sample files (DFM, SCXML, and VXML) showcasing how Genesys Mobile Services and Orchestration Server interact.	ORS Samples Overview	Genesys Mobile Services Sample ORS Samples
InsureCo Sample Application	A sample application allows users to create an insurance claim and receive the option to either talk with an agent as soon as the claim is submitted, or to wait and be notified when an agent becomes available. Demonstrates how to implement one basic (request-interaction) and one Advanced (request-inbound-delay) service, as well as using Push messages from Genesys Mobile Services.	InsureCo Sample	 Genesys Mobile Services Sample InsureCo Native iOS Genesys Mobile Services Sample InsureCo Native Android
Interaction Workspace Test Plugin	Unzip the file in the <gms dir="" install="">/webapps folder.</gms>	Genesys Mobile Services Configuration	Genesys Mobile Services Interaction Workspace Test Plugin