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Orchestration Server Developer's Guide

Work With E-Mail Or SMS

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Work With E-Mail Or SMS

The following SCXML strategy receives an inbound e-mail or SMS from a customer. It then sends an acknowledgement to the customer and calls submit to find an available agent. The e-mail or SMS is redirected to the agent and an e-mail response from the agent is sent to the customer. Any inbound e-mail delivery confirmation is also handled.

```
<scxml version="1.0" xmlns="http://www.w3.org/2005/07/scxml"
  xmlns:queue="http://www.genesyslab.com/modules/queue"
  xmlns:ixn="http://www.genesyslab.com/modules/interaction"
  xmlns:ws="http://www.genesyslab.com/modules/ws"
  xmlns:dialog="http://www.genesyslab.com/modules/dialog"
  _persist="false" >
  <datamodel>
    <data ID="reqid" expr="''"/>
    <data ID="childIxn" expr="''"/>
    <data ID="routetarget" expr="''"/>
  </datamodel>
  <initial>
    <transition target="listening">
    </transition>
  </initial>
  <state id="main" initial="listening">
    <state id="listening">
      <onentry>
        <log expr="'Listening ...'" />
      </onentry>
      <!-- This script handles email and sms interactions -->
      <transition event="interaction.present"
cond="_genesys.ixn.interactions[_event.data.interactionid].category == 'msgbased'"
target="arriving_ixn">
        <script>
          _data.ixnid = _event.data.interactionid;
        </script>
      </transition>
    </state>
    <state id="arriving_ixn">
      <onentry>
        <log expr="uneval( global )" />
        <if
cond="_genesys.ixn.interactions[_data.ixnid].msgbased.media == 'TMediaEMail'">
          <if
cond="_genesys.ixn.interactions[_data.ixnid].udata.FromAddress ==
'postmaster@genesyslab.com'">
            <!-- This looks to be a delivery
confirmation. -->
            <event name="handle.email.confirmation"/>
          <else/>
            <event name="send.email.ack"/>
          </if>
        <elseif
cond="_genesys.ixn.interactions[_data.ixnid].msgbased.media == 'TMediaNativeSMS'">
          <event name="send.sms.ack"/>
        </if>
      </onentry>
      <transition event="handle.email.confirmation" target="exit">
        <!-- Add logic here to handle the delivery confirmation... -->
        <!-- Terminate the confirmation interaction -->
      </transition>
    </state>
  </state>
</scxml>
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        <ixn:terminate interactionid="_data.ixnid" />
    </transition>
    <transition event="send.email.ack">
        <!-- Send an Email acknowledgment -->
        <!-- Acknowledgment text is a "Standard Response" with the
specified, 16-digit name. -->
        <ixn:createmessage requestid="_data.reqid"
type="acknowledgement"
media="_genesys.ixn.mediaType.TMediaEMail"
to="'_origin'" subject="'$USEURL'"
msgsrc="'gdata:config\\SR.0000Na5C1F3500JW'"
delivery="false" />
    </transition>
    <transition event="send.sms.ack">
        <!-- Send an SMS acknowledgment -->
        <ixn:createmessage requestid="_data.reqid"
type="acknowledgement"
media="_genesys.ixn.mediaType.TMediaNativeSMS"
to="'_udata\\_smsSrcNumber'" from="'8881234567'"
msgsrc="'Your request has been received and is being
processed'" />
    </transition>
    <transition event="msgbased.createmessage.done" target="find_agent"/>
    <transition event="error.msgbased.createmessage" target="ack_failed"/>
</state>
<state id="ack_failed">
    <transition target="find_agent">
        <log expr="Acknowledgement request failed and should be
handled here." />
    </transition>
</state>
<state id="find_agent">
    <onentry>
        <!-- Submit URS request to find an agent. -->
        <queue:submit route="false">
            <queue:targets>
                <queue:target name="'5'" type="agent"
statserver="'statserver'" />
                <queue:target name="'6'" type="agent"
statserver="'statserver'" />
                <queue:target name="'7'" type="agent"
statserver="'statserver'" />
            </queue:targets>
        </queue:submit>
    </onentry>
    <transition event="queue.submit.done" target="deliver_to_agent">
        <log expr="uneval( _event )" />
        <assign location="_data.routetarget"
expr="_event.data.resource" />
    </transition>
    <transition event="error.queue.submit" target="error">
        <log expr="uneval( _event )" />
    </transition>
</state>
<state id="deliver_to_agent">
    <onentry>
        <log expr="'Routing ...'" />
        <script>
            var hint = new Object();
            hint.outqueues = new Object();
            hint.outqueues.Orchestration_queue = "queue for
outbound response";
        </script>

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                                <!-- For redirect, the 'to' object is gotten from data
returned from queue:submit -->                                <ixn:redirect requestid="_data.reqid"
interactionid="_data.ixnid"                                from="'scxml'" to="_data.routetarget" hints="hint"/>
                                </onentry>
                                <transition event="interaction.redirect.done" target="responding">
                                    <log expr="uneval( _event )" />
                                </transition>
                                <transition event="error.interaction.redirect" target="error">
                                    <log expr="uneval( _event )" />
                                </transition>
</state>
<parallel id="responding">
    <onentry>
        <log expr="'Process Agent response...'" />
    </onentry>

    <state id="responding_outbound">
        <transition event="interaction.present"
cond="_genesys.ixn.interactions[_event.data.interactionid].msgbased.type == 'OutboundReply'"
                                <!-- This present occurs if agent sends outbound
response to queue which this ORS instance manages -->
                                <log expr="'Event Interaction Present...'" />
                                <assign location="_data.childIxn"
expr="_event.data.interactionid" />
                                <!-- Send agent's response to customer -->
                                <ixn:sendmessage interactionid="_data.childIxn"
delivery="true"/>
                                </transition>
                                <transition event="msgbased.sendmessage.done"
target="cleanup">
                                    <log expr="'Sending of outbound response
successful.'" />
                                    <ixn:terminate interactionid="_data.childIxn"
/>
                                </transition>
                                <transition event="error.msgbased.sendmessage"
target="requesterror">
                                    <log expr="'Error in sending outbound response.'" />
                                    <log expr="uneval( _event )" />
                                </transition>
</state>
<state id="responding_initial_interaction">
    <transition event="interaction.notcontrolled">
        <log expr="'Initial interaction is no longer
controlled by this scxml.'" />
    </transition>
    <transition event="interaction.deleted">
        <!-- Initial interaction is going away -->
        <!-- Wait up to 60 seconds for any response to be
processed (in parallel state). -->
        <send delay="'60s'" type="'scxml'"
event="'wait_is_over'" />
    </transition>
    <transition event="wait_is_over" target="cleanup" />
</state>
</parallel>
<state id="cleanup">
    <onentry>
        <log expr="'Cleanup logic goes here...'" />
    </onentry>
    <transition target="exit"/>

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        </state>
        <state id="requesterror">
            <onentry>
                <log expr="'Request error processing goes here...'" />
            </onentry>
            <transition target="error"/>
        </state>
    </state>
    <final id="error"/>
    <final id="exit"/>
</scxml>
```