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Orchestration Server Developer's Guide

[Route to Agent Using Statistic](#)

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Route to Agent Using Statistic

The following SCXML strategy routes an interaction to one of two agents based on a statistic. It requests the statistic value first, waits for this value to become available using a special state called delay, and then uses this value for routing.

```
<scxml version="1.0" xmlns="http://www.w3.org/2005/07/scxml"
  xmlns:queue="www.genesyslab.com/modules/queue"
  xmlns:dialog="www.genesyslab.com/modules/dialog"
  xmlns:statistic="www.genesyslab.com/modules/statistic"
  initial="initial">
  <state id="initial">
<!--
    <transition event="interaction.added" target="statistics"/>
-->
    <transition event="interaction.added" target="subscribe"/>
  </state>
<!--
  <state id="routing">
    <onentry>
      <queue:submit orderstat="'StatTimeInReadyState'" ordertype="'max'" priority="5"
clearontimeout="true" timeout="0">
        <queue:targets type="agent">
          <queue:target name="'az'"/>
          <queue:target name="'bz'"/>
        </queue:targets>
      </queue:submit>
    </onentry>

    <transition event="queue.submit.done" target="error"/>
    <transition event="error.queue.submit" target="delay"/>
  </state>
-->
<!--
  <state id="statistics">
    <onentry>
      <script>
        var t1 = _genesys.statistic.sData('az@.A', 'StatTimeInReadyState');
        var t2 = _genesys.statistic.sData('bz@.A', 'StatTimeInReadyState');
      </script>
    </onentry>

    <transition target="delay"/>
  </state>

  <state id="delay">
    <onentry>
      <send event="'delay'" target="_sessionid" targettype="'scxml'" delay="'2s'"/>
    </onentry>
    <transition event="delay" target="routing"/>
  </state>
-->
  <state id="subscribe">
    <onentry>
      <statistic:subscribe object="'az@.A'" statistic="'StatTimeInReadyState'" interval="0"/>
      <statistic:subscribe object="'bz@.A'" statistic="'StatTimeInReadyState'" interval="0"/>
    </onentry>
```

```
<transition event="statistic.subscribe.done" target="delay"/>
<transition event="error.statistic.subscribe" target="error"/>
</state>
<state id="delay">
  <onentry>
    <send event="'delay'" target="_sessionId" targettype="'scxml'" delay="'2s'"/>
  </onentry>
  <transition event="delay" target="routing"/>
</state>
<state id="routing">
  <onentry>
    <queue:submit orderstat="'StatTimeInReadyState'" ordertype="'max'" priority="5"
timeout="20">
      <queue:targets type="agent">
        <queue:target name="'az'"/>
        <queue:target name="'bz'"/>
      </queue:targets>
    </queue:submit>
  </onentry>

  <transition event="queue.submit.done" target="exit">
    <log expr="'DONE'"/>
    <log expr="_genesys.ixn.interactions[0].voice.ani"/>
    <log expr="'DONE'"/>
    <log expr="_event.data.targetselected"/>
  </transition>
  <transition event="error.queue.submit" target="error"/>
</state>

<final id="exit"/>
<final id="error"/>
</scxml>
```