

GENESYS

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Outbound Contact Deployment Guide

Architecture

Architecture

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 - 1.1 Application Server
 - 1.2 SCXML Engine/State Machine

In order to use SCXML-based treatments, Outbound Contact makes use of three components/applications:

- OCS (see Outbound Contact Server)
- Application Server
- SCXML engine/state machine built into OCS

Application Server

SCXML-based treatments are typically hosted/stored on an Application Server (along with other Genesys SCXML scripts, such as SCXML-based strategies) and provided to OCS based on parameters contained in HTTP requests. The treatment-uri option identifies the location of these scripts.

Application Server is a web server used to store and retrieve SCXML scripts. You deploy SCXML-based treatments to your production environment by publishing them to an Application Server. Upon an HTTP request, the Application Server is responsible for providing the treatment logic to OCS in the form of a document.

Document Retrieval from Web or Application Server

OCS connects to and retrieves SCXML documents (flexible treatments descriptions) from the Web or Application Server in the following ways:

- OCS uses a connection pool and HTTP 1.1 persistent connections. The size of the pool and connection timeout settings are controlled by the http-connection-pool-size and http-response-timeout options. Previously, OCS used HTTP 1.0 non-persistent connection to the Web or Application Server.
- OCS opens only a single connection to the given Web or Application Server to retrieve all SCXML documents from that server. Previously, OCS opened as many connections as there were simultaneous requests for SCXML documents from the loaded chains.
- OCS supports secure HTTP (HTTPS) with TLS protocol as a sub layer under regular HTTP for SCXML document retrieval from Web or Application Server. For more details about how to configure and use HTTPS, see Pre-Dial Validation Over Secure Connection.

Supported Application Servers

Genesys supports the following types of Application Server software:

- Microsoft Internet Information Services (IIS), formerly called Microsoft Internet Information Server).
 Genesys supports IIS 6..19.198.1.
- JBoss Application Server (or JBoss AS). This free software/open source Java EE-based Application Server is usable on any operating system that Java supports. Genesys supports version JBoss 8.1.
- IBM's WebSphere Application Server (WAS). This software Application Server, which is built using open standards (such as Java EE, XML, and Web Services) works with a number of web servers. Genesys supports IBM Websphere Application Server 5.0—8.1.
- Apache/Tomcat

Note:	While Web or Application Server is a more common and a more convenient way to store SCXML documents, you can simply place a file with the SCXML script in your file system. In this case, the absolute path to this file is configured as follows (example):
	<pre>treatment-uri=file:///C:/GCTI/OCS/Scripts/ sample01.scxml</pre>

SCXML Engine/State Machine

The SCXML engine is a subcomponent of OCS that leverages the Genesys SCXML library built into OCS, and which parses the SCXML treatment script. When each record or chain of records associated with the campaign is accessed for processing, the engine creates an instance of the state machine and requests the SCXML treatment from the Application Server. When the record is processed (for example, the call is answered and then completed), the associated state machine instance is stopped.

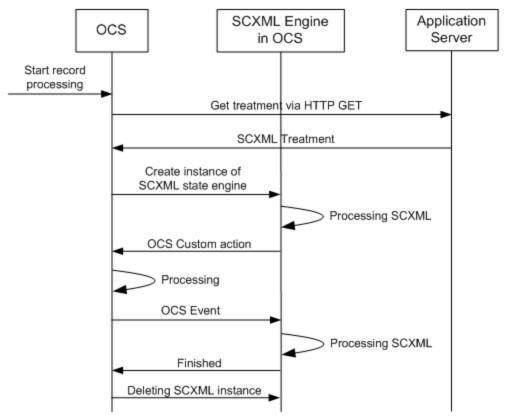
Note:	You specify the SCXML document that describes the treatment used by OCS in the treatment-uri option in the Campaign Group or Calling List object. For more information on configuring treatments, see Design and Configuration Task Summary.
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A state machine is an SCXML treatment script launched by the SCXML engine, that includes states, actions, events, and transitions, designed to inform OCS on how to contact customers during a campaign.

- States provide information on the current status. A state machine operates in one state at a time, until
 an OCS event provides information that requires a state change, according to the design of the
 treatment script.
- Actions are activities that the state machine performs, according to the treatment script.
- Events are messages that OCS sends to the state machine in response to an action.
- Transitions occur when the state changes in response to an event.

The following figure illustrates the scenario in which the SCXML engine is used to apply an SCXML treatment.

SCXML Engine/State Machine Treatment Processing describes the diagram.



SCXML Treatment Processing

SCXML Engine/State Machine Treatment Processing

- 1. OCS receives a request to start processing a record of a Calling List associated with a campaign.
- 2. As configured in the Campaign Group or Calling List object, OCS requests the associated treatment from Application Server.
- 3. Application Server provides OCS with the SCXML treatment.
- 4. OCS requests the Genesys SCXML engine to create and start an instance of the SCXML state machine for the record.
- 5. The SCXML engine creates and starts the instance and requests that OCS execute customer actions for the record, according to the SCXML treatment script.
- 6. OCS initiates the requested action (for example, make a call, go to the next record, delay, and so on); for more information on possible actions, see Outbound Contact Custom Actions and Events).
- 7. After completing each action, OCS sends an event communicating the action result of the action to the instance of the state machine that SCXML engine is running.
- 8. OCS continues processing the actions, as defined in the state machine.
- 9. When the processing of the chain of records is completed and chain is finalized, OCS deletes the instance of that state machine.

Note: A state machine may not be able to complete the

script for a chain of records if:
The campaign is unloaded.
OCS shuts down.

After a particular instance of the state machine is restored, OCS sends the ocs.daytime_change event to the instance so it can adjust its behavior according to the current daytime interval.

Outbound Contact Custom Actions and Events

The following tables describe the custom actions and events supported in Outbound Contact for SCXML treatments.

Custom Actions

Action	Action Details
timeout	Response event: ocs.timeout Element attribute: delayTimeout in seconds Child elements: none Description: Waits for the specified time. Examples • A five minute delay: <ocs:timeout delay="300"></ocs:timeout> • A delay to the nearest holiday: <ocs:timeout delay="HDAY"></ocs:timeout>
next_record	Reponse event: ocs.next_record Element attribute: repeat_chain (Optional) Controls whether the chain should be cycled again starting with the record at the beginning of the chain. Child elements: contact_info_type0 or more elements can be applied. Description: Requests the next record in the chain. The next record is selected according to the criteria defined by the contact_info_type child elements (for example, type_id or type_name). Note: An empty record_id indicates that there is no next record.
contact_info_type	type_idID of the contact information type, as specified in the contact_info_type field in the

Calling List

- type_name--Mnemonic name of the contact information type.
 The list identifies each possible IDs and its corresponding type name:
- 0--N0_TYPE
- 1--HOME
- 2--DIRECT BUSINESS
- 3--BUSINESS_WITH_EXTENSION
- 4--MOBILE
- 5--VACATION
- 6--PAGER
- 7--MODEM
- 8--VOICE MAIL
- 9--PIN PAGER
- 10--E-MAIL
- exclude--The value that determines whether records that match these criteria are excluded from the result. A value of no (the default) includes the records. A value of yes excludes the records.

Child elements: none

Description: Identifies the attribute for contact_type_info. At least one attribute (type_id or type_name) must be specified. If both are specified, type_id has priority.

Note: If both are specified, confirm that the type_id and type_name values match each other. Otherwise, a warning appears in the log.

Examples

```
Example 1, Getting Next Record with the Home Phone
<ocs:next_record>
<ocs:contact_info_type type_id=1 />
</ocs:next_record>
```

Example 2, Getting the Next Record with Phone Other than Home and Mobile <ocs:next_record>
<ocs:contact_info_type type_name="'HOME'"
exclude="'yes'" />
<ocs:contact_info_type type_name="'MOBILE'"
exclude="'yes'" />
</ocs:next_record>

Example 3, Getting the Next Record According to the Database Order

	<pre><ocs:next_record></ocs:next_record> Example 4, Cycling Through the Chain and Getting the Next Record from the Beginning of the Chain <ocs:next_record repeat_chain="'yes'"></ocs:next_record></pre>
	Request event: daytime_change
	Element attributes: none
<pre>get_daytime</pre>	Child elements: none
	Description: Requests information about the current daytime interval.
	Request event: ocs.info
	Element attributes:
	 what(Mandatory) A string with the type of information being requested. The supported value is TIMERANGE.
	 param(Optional) A string that is the parameter of the request. For the TIMERANGE type of information, valid values include:
	BBH: Before business hours on a weekday
	BH: Business hours on a weekday
get_info	ABH: After business hours on a weekday
	WEND: Weekend
	• HDAY: Holiday
	-
	Child events: none
	Description: Requests the execution of content- related information from OCS. TIMERANGE, param values = <bbh, abh,="" bh,="" hday="" or="" wend,=""> requests the time period (in seconds) when the specified param attribute timerange begins for the current record.</bbh,>
	<pre>Example<ocs:get_info param="'HDAY'" what="'TIMERANGE'"></ocs:get_info></pre>
make_call	Response event: ocs.callresult
	Element attribute: record_idID of the record for which the call will be made.
	Child elements: none
	Description: As a result of this action, OCS initiates a request to make a call using the contact information specified in this record.
	<pre>Example:<ocs:make_call record_id="record_id"></ocs:make_call></pre>
set_flex_attr	Response event: None if successfulError. Attribute if an invalid value is

configured

Element attributes: record_id--(Mandatory)
Defines the ID of the record (record handle) for
which the flexible attribute(s) (options, user data,
or Attribute Extensions) are configured. This
element can contain a special value of 0, which is
interpreted as for all records in chain. For
example, it specifies that the same flexible
attribute(s) (options) must be set for all the records
in the chain that are processed.

Child elements: flex_attrl or more elements can be defined.

Child element attributes:

 attr-- (Mandatory) Specifies the type of flexible attribute being configured.

Allowed value: OPTIONS, USERDATA, EXTENSIONS

 type--(Mandatory) Specifies the type of value that is used for the flexible attribute.

Allowed values: string or int

 key--(Mandatory) Specifies the mnemonic name of the flexible attribute.

(option name)* value--(Mandatory) Specifies the value that is assigned to the attribute. (option value)Element description: Defines a single option, including its name, type, and value.

Descriptions:

OPTIONS--This custom action can be used to set one or more options for the specified record in the chain or for all records in the chain. The actual options and values are defined by the flex attr child element(s).

USERDATA--Used to update any mandatory or user-defined field that belongs to the current record or chain of records. EXTENSIONS--Used to pass an arbitrary key-value pair in the AttributeExtensions field of the Dialing request that OCS sends to the dialer (for example, to T-Server).

- key specifies the key in the pair
- value specifies the value for the key

Examples:

	<pre>key="'UserField'" value="'UserValue'"/> <ocs:flex_attr attr="'EXTENSIONS'" key="'DialAttr'" type="'string'" value="'AttrValue'"></ocs:flex_attr> </pre>
	Response event: None if successfulError.Attribute if an invalid value is configured
	Element attributes:
	 flag(Mandatory) Defines the type of execution flag. Allowed Value: PostProcessing
set_exec_flag	 value(Mandatory) Defines the value of the execution flag. For PostProcessing flag type, valid values are: Finalize and Switch.
	Child elements: None
	Description: This custom action allows the flag, that controls SCXML treatment execution, to be set.
	 PostProcessing flagDetermines how the chain of records is processed when the SCXML treatment execution is completed.
	 Finalize(default) Processing of the chain is done, chain is finalized (marked completed) in the database.
	 SwitchProcessing of the chain continues after the SCXML treatment execution ceases, and traditional treatments (if configured) take over execution.
	Examples:
	1. Switch to traditional treatments: <:set_exec_flag_flag="'PostProcessing'" value="'Switch'"/> 2. Finalize chain processing: <:set_exec_flag_flag="'PostProcessing'" value="'Finalize'"/> Note: This custom action is available in OCS release 8.0.001 and beyond.

Events from OCS

Event	Event Details
ocs.callresult	Response for make_call
	Event properties: callresultThe result of the call. Values include:
	• 0k

- GeneralError
- SystemError
- RemoteRelease
- Busy
- NoAnswer
- SIT_Detected
- AnswMachine
- All_Trunks_Busy
- SIT_Invalid_Num
- SIT_Vacant
- SIT_Oper_Intercept
- SIT_Unknown
- SIT_No_Circuit
- SIT_Reorder
- Fax
- Abandoned
- Dropped
- DroppedNoAnswer
- Unknown
- Silence
- Answer
- NuTone
- NoDialTone
- NoProgress
- NoRingBack
- NoEstablished
- PagerDetected
- WrongParty
- DialError
- CallDropError
- SwitchError
- NoFreePortError
- TransferError

Stale AgentCallBackError GroupCallBackError GroupCallBackError DoNotCall CancelRecord WrongNumber Description: OCS notifies the state machine instance of the call result. OCS does not apply treatments to Unknown and OK call results. The only exception is the Power mode (SMSs and E-Mails) for which OCS applies a treatment to the OK call result. Response for get_daytime or an unsolicited request Event properties: daytime_code-Code that defines the current daytime interval. Values include: BBH: Before business hours on a weekday BH: Business hours on a weekday BH: Business hours on a weekday BH: After business hours on a weekday BH: Business hours on a weekday BH: After business hours on a weekday BH: Business hours on a weekday BH: After business hours on a weekday BH: Business hours on a weekday		
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		in the Calling List. If it is equal to NULL, no next record is available and no other event

	 contact_infoThe value of contact_info field for the record in the Calling List.
	 <pseudo-fields>Helper fields defined by OCS including:</pseudo-fields>
	 gsw_chain_attempts: (integer) Stores the number of attempts for each chain, which equals the sum of the attempts field values for all records that compose this chain.
	• gsw_preferred_flag: (string) Indicates whether the chain was prioritized by a custom field value, as defined by the treatment-preferred-contact-field option. Valid values for this event are yes and no.
	 tz_offset: (integer) Offset (time difference) in seconds between Universal Time Coordinated (UTC) and a particular time zone. It may contain different values throughout the year if Daylight Savings Time (DST) is used for the specified time zone.
	• gsw_list_name: (string) The name of the Calling List to which the record belongs.
	All other fields defined in the Calling List.
	Description: Returns the next record according to the criteria set in the next_record custom action.
	Response for timeout
ocs.timeout	Event properties: none
ocs. cimeout	Description: Indicates that the delay specified in the timeout custom action has expired.
	Response for any custom action.
	Event properties: Error_codeAn error code (integer) that specifies the error that occurred.
Error.Attribute	Description: Indicates that an incorrect attribute value is included in the custom action which triggered this eventfor example, if the timeout custom action includes a negative delay value or the make_call custom action includes a record_id value that does not exist.
Error.Configuration	Response for any custom action
	Event properties: error_codeAn error code (integer) that specifies the error that occurred.
	Description: Indicates a configuration errorfor example, if the timeout custom action includes a delay value of WEND but the Statistical Table for weekdays is not configured.