

# **GENESYS**

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# Developer's Guide

Advanced Engagement Model

# Advanced Engagement Model

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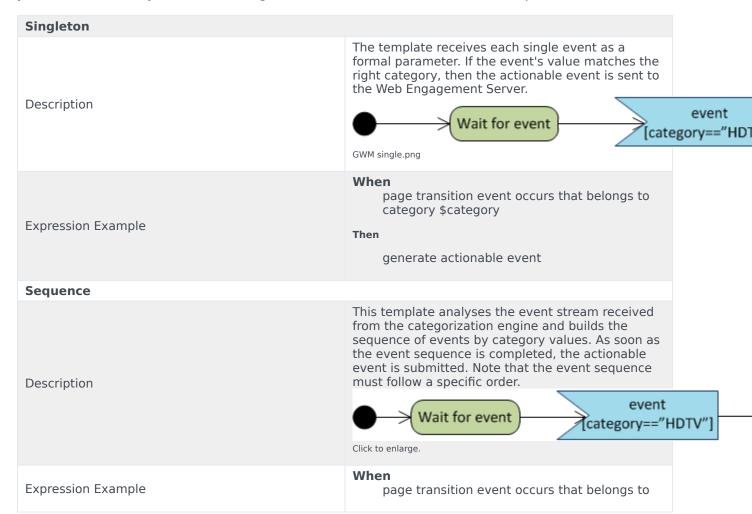
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## Overview

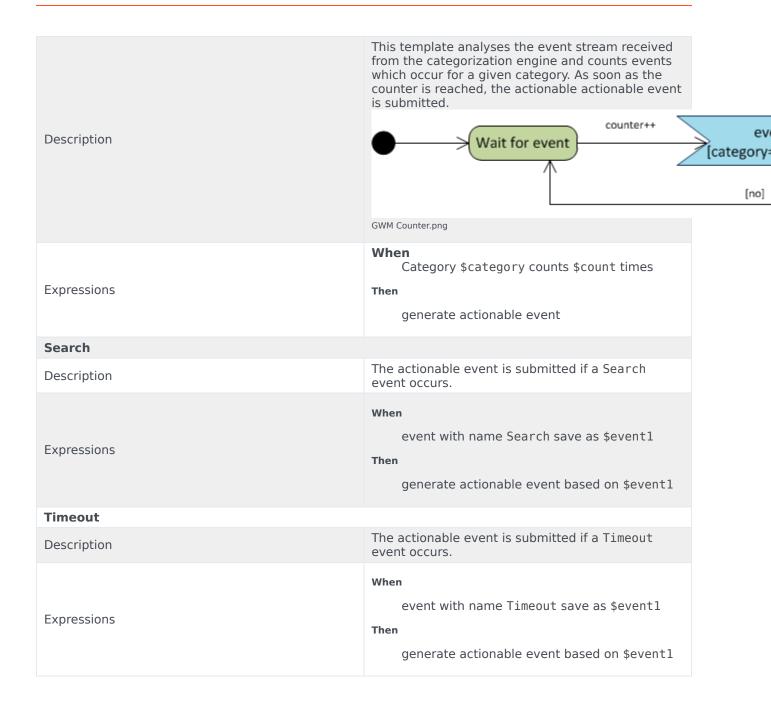
The Advanced Engagement Model enables customization based on Business events (read more about how the events are structured here). In Web Engagement 8.5.1, the default DSL contains the Timeout-30 event and a sample of a Search event. To customize the Advanced Engagement Model, you must first define your own events using the DSL, which is loaded in the Browser Tier Agents. Then, you can use the rule templates to create rules based on these events.

# Default Rule Templates

The default templates for the Advanced Engagement Model define how to process events sent from the Web Engagement Server. They define both the type of events and the action to perform. Later, you'll use the Genesys Rules Authoring Tool to create rules based on these templates.



	category \$category1 save as \$event1
	and
	event following \$event1 with category \$category2 save as \$event2
	() and
	event following \$event <sup>n-1</sup> with category \$category <sup>n</sup> save as \$event <sup>n</sup>
	Then
	generate actionable event based on \$event <sup>n</sup>
Set	
	This template analyses the event stream received from the categorization engine and collects the events by category values. As soon as the event set is completed, the actionable event is submitted. If you use this template, the event order is not taken into account.
	event
Description	[category=="HDTV
	Wait for event
	event
	category="Suppo
	GWM Set.png
	When (page transition event occurs that belongs to category \$category1
	and
	page transition event occurs that belongs to category \$category2)
	or
Expressions	(page transition event occurs that belongs to category \$category2
	and
	page transition event occurs that belongs to category \$category1)
	Then
	generate actionable event
Counter	



# Implementing the Advanced Engagement Model

Complete the steps below to implement the Simple Engagement Model:

- 1. Business Events Overview
- 2. Create Business Events by Customizing the DSL File

3. Optionally, you can Create Business Events by Using the Monitoring Agent API.

#### **Business Events Overview**

When you create an application, a set of Domain Specific Language (DSL) files that are used by your application is also created. These files are defined in the apps\Your application name\resources\ dsl\ directory. You can use the DSL to define Business events (read about the structure of these events here) that are specific to your solution needs.

#### Default domain-model.xml

The **domain-model.xml** is the main default DSL file for your application:

```
<?xml version="1.0" encoding="utf-8" ?>
cproperties>
    <events>
        <!-- Add your code here
        <event id="" name="">
        </event>
        <!-- This is template for your search event -->
        <! - -
        <event id="Search" name="Search">
            <trigger name="SearchTrigger" element="" action="click" url="" count="1" />
            <val name="searchString"
                                            value="" />
        </event>
        <event id="Timeout-30" name="Timeout-30" condition=""</pre>
postcondition="document.hasFocus() === true">
            <trigger name="TimeoutTrigger" element="" action="timer:30000" type="timeout"</pre>
url="" count="1" />
        </event>
    </events>
</properties>
```

By using the **<event>** element, you can create as many business events as you need. These events can be tied to the HTML components of your page and can have the same name, as long as they have different identifiers (these identifiers must be unique across the DSL file, to make a distinction between the events sent by the browser). It can be useful to associate several HTML components with the same event if these HTML components have the same function. For instance, you can define several events associated with a search feature and give all these events the same name: "Search".

For each event, you can define triggers which describe the condition to match in order to submit the event:

- Triggers can implement timeouts.
- Triggers can be associated with DOM events.
- You can define several triggers for the same event.

Each trigger should have an element attribute that specifies the document's DOM element to attach the trigger to, and the action attribute, which species the DOM event to track.

You can specify standard DOM events for the action:

- · Browser Events
- · Document Loading
- Keyboard Events
- Mouse Events
- Form Events

In addition to the standard DOM events, the DSL supports the following two values: timer and enterpress.

The following example generates a "Search" event if the visitor does a site search. The "searchString" value is the string entered in the "INPUT.search-submit" form.

If the DSL uses the optional condition attribute, the event's triggers are installed on the page if the condition evaluates to true. The following example creates a Business event with a time that can be triggered only if the text inside the <h1> tag is "Compare":

If the DSL uses an optional postcondition attribute, this can manage how an event is generated by checking a condition after the actions are completed. The following example creates a Business event timeout by timer if a page is in focus. In this case, the event does not generate if the page is opened in the background:

A DSL trigger can use the type attribute. This can have a value of either timeout or nomove, which specifies how the timer action works. If the type is timeout, then the timer interval begins after the page is loaded. If the type is nomove, then the timer resets each time the user moves the mouse.

You can also apply the optional url attribute. This attribute defines the URL of the specific page that raises the Business event. The Business event is not submitted if the current document's URL does not match the URL parameter.

Finally, you can apply the optional count attribute. This attribute specifies how many times the trigger needs to be matched before the event is generated and sent to the Web Engagement Server.

For more information about the DSL elements, see the Business Events DSL.

## Creating Business Events by Customizing the DSL File

You can edit the apps\Your application name\resources\dsl\domain-model.xml and add a list of events, with specific conditions, related to your web pages' content.

#### **Important**

Genesys recommends that you use the InTools application to help you modify your DSI.

The default **domain-model.xml** file includes two sample events to help you get started with your DSL customizations: **Timeout-30** and a prototype of the **Search** event (commented out by default). The following sections show you how you can customize these events to work on your website.

## Using the Search Event Template

By default, the **domain-model.xml** file contains commented code that you can implement to trigger a business event when a visitor tries to search for something on your website. Complete the following steps to customize the Search event for your website.

#### Start

1. Remove the comment characters that wrap around the event: <!- and -->. The event should look like the following:

2. Set the **element** attribute to the jQuery selector that triggers a search. For example, we have an input (id="search") with a submit button (id="search-submit").

3. Set the value attribute to the script to retrieve the search string. For example, our input id of "search".

Now the search event is triggered when a visitor clicks the **search-submit** button.

#### **End**

#### Using the Timeout Events

By default, the **domain-model.xml** file contains the **timeout-30** timeout event.

You can customize this event or disable it to suit your business needs. By default, this event is triggered with a 30-second delay after the tracking script is initialized on the page. The only difference between the events is the **action** attribute, which defines the timeout in milliseconds.

The default timeout event has the **postcondition** attribute set to "document.hasFocus() === true", which checks whether the focus is on the current page. The timeout event is only triggered if the **postcondition** returns true.

#### Creating Business Events by Using the Monitoring Agent API

You can also use the Monitoring JS API, which allows you to submit events and data from the HTML source code.

In this case, you can use the \_gt.push() method which allows you to decide when events should be submitted and which data they generate, directly from your web pages. See Monitoring JS API Reference for further details.

You should also consider using the API when you have more complex logic that can't be handled by DSL alone. For an example, see How To — Enable a trigger after another trigger.

#### **Next Steps**

- 1. Make sure the CEP Rule Templates are ready. See Publishing the CEP Rule Templates for details.
- 2. Finish any customizations to the SCXML strategies or Browser Tier Widgets.
- 3. Continue on with the Application Development Tasks.