

jQuery - 1.3

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Target audience:

Users of the extension providing **jQuery** support for Web applications.



Summary: This document provides basic information about the extension providing **jQuery** support for Web applications.

Description

This extension provides support for **jQuery**.

In what situation should you install this extension?

If your Web application contains **jQuery** source code and you want to view these object types and their links with other objects, then you should install this extension:

- Creates jQuery events and access points to services:
 - jQuery events: they represent a query in DOM tree
 - jQuery access points to web services: `CAST_JQuery_GetResourceService`, `CAST_JQuery_PutResourceService`, `CAST_JQuery_PostResourceService`
- Creates links (direct or indirect) from jQuery events to jQuery access points to services (these links are created by the jQuery extension and the HTML5/JavaScript extension).
- Links from the jQuery access points to services to different servers written in other languages are then created by the WBSlinker extension (an internal extension).
- The following declarations will create a jQuery event:

```
$('#advancedLoginOptionsLink').bind('click', dm.login.toggle_advanced);
$('#advancedLoginOptionsLink').click(dm.login.toggle_advanced);
$('#advancedLoginOptionsLink').on('click', this.destroy.bind(this));...
```

- The following declaration will create objects "call to web service" (these calls are resolved to web service operations on the server side for the following supported frameworks: [Node.js](#), [JAX-RS](#), [Spring MVC](#)):

```
/* GET REQUEST USING AJAX OR GET ANNOTATIONS */
$.ajax({
  url: url,
  data: data,
  success: success,
  dataType: dataType
});

$.get( "ajax/test.html", function( data ) {
  $( ".result" ).html( data );
  alert( "Load was performed." );
});
```

```
/* POST REQUEST USING AJAX OR POST ANNOTATIONS */
$.ajax({
  type: "POST",
  url: url,
  data: data,
  success: success,
  dataType: dataType
});

$.post( "ajax/test.html", function( data ) {
  $( ".result" ).html( data );
});
```

Transaction configuration

Default entry point is the HTML file content.

Supported jQuery versions

- 1.0 - 3.0

Function Point, Quality and Sizing support

This extension provides the following support:

- **Function Points (transactions):** a green tick indicates that OMG Function Point counting and Transaction Risk Index are supported
- **Quality and Sizing:** a green tick indicates that CAST can measure size and that a minimum set of Quality Rules exist

Function Points (transactions)	Quality and Sizing
✓	✓

Comparison with existing support for JavaScript in CAST AIP

CAST AIP has provided support for analyzing JavaScript via its **J2EE and .NET analyzers** (provided out of box in CAST AIP) for some time now. The **HTML5/JavaScript extension** (on which the **jQuery** extension depends) also provides support for JavaScript but with a focus on web applications. CAST highly recommends that you use this extension if your Application contains JavaScript and more specifically if you want to analyze a web application, however you should take note of the following:

- You should ensure that you configure the extension to NOT analyze the back end web client part of a .NET or J2EE application.
- You should ensure that you configure the extension to ONLY analyze the front end web application built with the HTML5/JavaScript that communicates with the back end web client part of a .NET or J2EE application.
- If the back end web client part of a .NET or J2EE application is analyzed with the jQuery extension and with the native .NET/J2EE analyzers, then your results will reflect this - there will be duplicate objects and links (i.e. from the analyzer and from the extension) therefore impacting results and creating erroneous Function Point data.

CAST AIP compatibility

This extension is compatible with:

CAST AIP release	Supported
8.2.x	✓
8.1.x	✓
8.0.x	✓
7.3.4 and all higher 7.3.x releases	✓

Supported DBMS servers

This extension is compatible with the following DBMS servers:

CAST AIP release	CSS2	Oracle	Microsoft
All supported releases	✓	✓	✗

Prerequisites

- ✓ An installation of any compatible release of CAST AIP (see table above)

Dependencies with other extensions

Some CAST extensions require the presence of other CAST extensions in order to function correctly. The **jQuery** extension requires that the following other CAST extensions are also installed:

- [HTML5/JavaScript](#)
- **Web services linker service** (internal technical extension)

i Note that when using the **CAST Extension Downloader** to download the extension and the **Manage Extensions** interface in **CAST Server Manager** to install the extension, any dependent extensions are **automatically** downloaded and installed for you. You do not need to do anything.

Download and installation instructions

Please see:

- <http://doc.castsoftware.com/display/EXTEND/Download+an+extension>
- <http://doc.castsoftware.com/display/EXTEND/Install+an+extension>

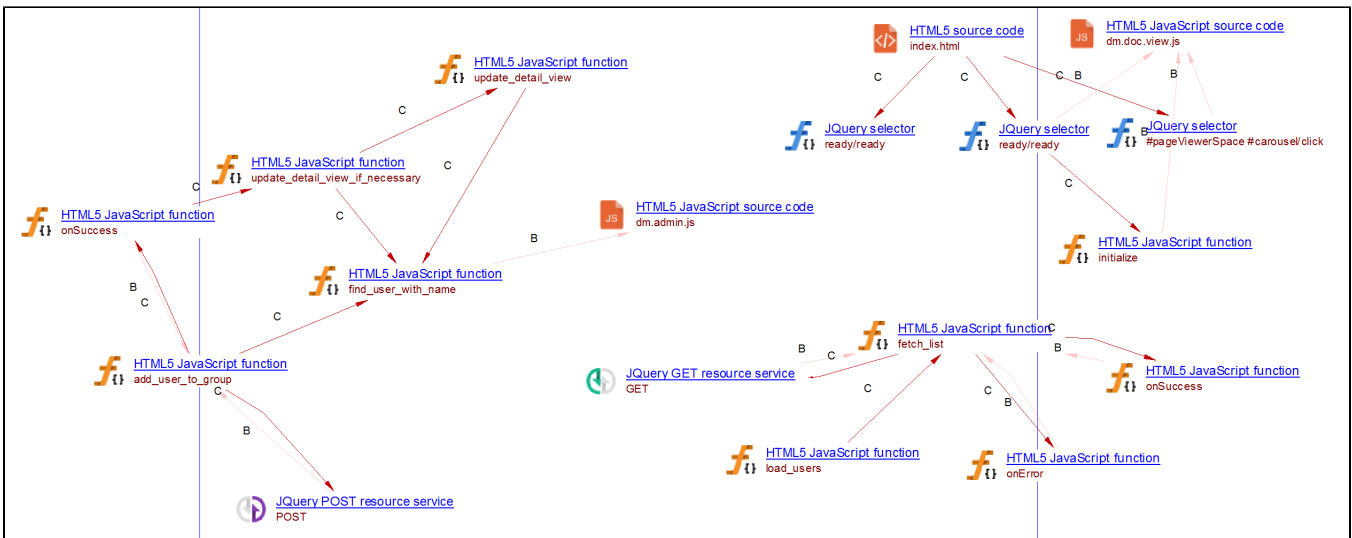
i The latest [release status](#) of this extension can be seen when downloading it from the CAST Extend server.

Packaging, delivering and analyzing your source code

Please see: [jQuery - Packaging, delivering and analyzing your source code](#)






What results can you expect?

Once the analysis/snapshot generation has completed, you can view the results in the normal manner (for example via CAST Enlighten). Click to enlarge:



Objects

The following specific objects are displayed in CAST Enlighten:

Icon	Description
	jQuery Selector
	jQuery \$.ajax, \$.get Get Resource Service
	jQuery \$.ajax, \$.post Post Resource Service
	jQuery \$.ajax Put Resource Service
	jQuery \$.ajax Delete Resource Service

Rules

List of rules is available here: <https://technologies.castsoftware.com/?rIH=extensions/com.castsoftware.jquery/1.3.0-funcrel.json>