HTML5 and JavaScript - 2.1 - Release Notes

2.1.13-funcrel

Resolved Issues

Customer Ticket Id	Details
36490	JQUERY - AJAX missing resource services.
36514	Mock and SAPUI5 should be automatically excluded of CAST AIP quality results.
36338	Missing links between JS functions, leads to false violations.

Other Updates

Details

Support of resolution when modules are defined through "define".

2.1.12-funcrel

Resolved Issues

Customer Ticket Id	Details
36037	Fixed bad evaluation for some AngularJS services.
35910	Fixed false Violations for the rule (1020092): "Avoid direct definition of JavaScript Functions in a Web page (JavaScript /HTML5)".

Other Updates

Details
Fixed an issue where "export default" is badly parsed for a function defined with "=>".
Fixed an internal issue where "get_ast_caller" was returning the wrong ast node.
Fixed an issue causing a regression in the resolution of an identifier.

Rules

Rule Id	New Rule	Details
1020092	FALSE	Avoid direct definition of JavaScript Functions in a Web page (Javascript/HTML5).

2.1.11-funcrel

Resolved Issues

Customer Ticket Id	Details
35630	Missing link between UI and Backend layer.
35535	HTML5 analyzer creates POST/GET Operations with wrong name and no links to Struts Operations.
35539	JQuery analyzer creates POST/GET Resource Services with wrong name and no links to Struts Operations.
35577	Support of function calls in Kendo framework in CSHTML files.

Other Updates

Details
Skip libraries from analysis.
Add methods to know if a framework is used (technical).
Support of evaluation in "for" statement (including support of list evaluation).
PB with stack overflow with new version of Python.
Missing links from CSHTML files in LMS application.

New Support

Summary	Details
Support of new logical assignment operators (&&=, ||=, and ??=)	They are processed as the '=' assignment, evaluation will work with them now.

2.1.10-funcrel

Resolved Issues

Customer Ticket Id	Details
34386	CAST HTML Analysis stuck on a js file.
34589	Missing links from Javascript Method and NodeJS MongoDB collection.
34289	Missing links from JS to DotNet Controller Action.
34785	Missing links between JavaScript methods.
34976	Missing links between JavaScript methods.
34995	Extension com.castsoftware.html5 has encountered an issue : token = next(self.tokens) StopIteration.
34246	Remediation missing in the description of the rule "Avoid return statement in finally block (Javascript)".

2.1.9-funcrel

Resolved Issues

Customer Ticket Id	Details
31080	False positive for rule (rule id: 1020084): "Avoid unreferenced (Functions Javascript/ HTML5)".
33966	Rule name (rule id: 1020060): "Avoid using console.log()" should be renamed according to technology as "Avoid using console.log() (Javascript)".
33688	False positives for rule (rule id: 1020092): "Avoid direct definition of JavaScript Functions in a Web page (Javascript/HTML5)"
33381	Deleted JQUERY GET resource service.
33595	False positive for the rule (rule id: 7388): "Avoid artifacts having recursive calls".
33450	Extension com.castsoftware.html5 has encountered an issue: Traceback (most recent call last):MemoryError .
33255	Transactions change due to deleted link between HTML5 ASP content.
33169	Added and Modified Transaction due to added and deleted HTML5 Get HTTPREquest objects.

Rules

Rule Id	New Rule	Details
1020084	FALSE	False positives removed for the rule: "Avoid unreferenced (Functions Javascript/ HTML5)".
1020092	FALSE	False positives removed for the rule: "Avoid direct definition of JavaScript Functions in a Web page (Javascript/HTML5)".
1020060	FALSE	Rule name: "Avoid using console.log()" is renamed according to technology as "Avoid using console.log() (Javascript)".
7388	FALSE	False positives removed for the rule: "Avoid artifacts having recursive calls".

New Support

Summary	Details

Support for Dojo web service calls	See documentation: https://doc.castsoftware.com/display/TECHNOS/HTML5+and+JavaScript+-+2.1#HTML5andJavaScript2.1-dojo

2.1.8-funcrel

Resolved Issues

Customer Ticket Id	Details
32225	HTML analysis is stuck for long time while analyzing one of the JSP file.
32926	False violation for the rule: "Avoid using unsecured cookie" (Javascript) (Rule ID: 1020096).

Other Updates

Details
Support for sprintf-js for evaluating strings.
Evaluation problem when evaluating several struct members when one points to an unknown variable.
Many errors of type Traceback in log file in debug mode.
Several property 'Total code lines count' (id 1020073) values found on CAST_HTML5_JavaScript_SourceCode_Fragment.

Rules

Rule Id	New Rule	Details
1020096	FALSE	"Avoid using unsecured cookie (Javascript)" - Removed false positives.

2.1.7-funcrel

Resolved Issues

Customer Ticket Id	Details
30758	Missing Razor objects from CSHTML leading to missing links to Dotnet Controller action.
31243	False positive for rule: "Avoid hardcoded passwords(Javascript)."
31521	No resource service is created for href=@Url.Action("Index", "ProcessSelection") in CSHTML file.
31709	Upload sources to Local db is failing due to multiple values in table ObjFilRef for HTML5 CSS Fragment objects.
31628	Missing links to HTML5 JS methods from JS functions.
30598	Analysis is taking too long, taking lot of time to analyze JS files.
31801	Missing links from HTML5 JavaScript function to other JavaScript Functions.
30784	False violation for the rule Avoid hard-coded network resource names (Javascript).
31046	HTML analysis crash: most files not being analyzed properly.
31402	False positive for the rule: "Avoid using a break statement in 'for' loops".
30741	CSHTML files were skipped after upgrading HTML extension.
31831	HTML Analysis got stuck at a JSP file.

Other Updates

Details
Add filtering of libraries.
Remove METRICABLE inheritance from HTML like objects.
Add a method to get the declaration of a variable (get_declarations).
Better name resolution for 'HTML5 Get HttpRequest service' Object when url is like "something?action=something_else".

2.1.6-funcrel

Resolved Issues

Customer Ticket Id	Details
30063	Missing Get HttpRequest Service after analysis.

Other Updates

Details
No HttpRequest service should be created when property binding is used in angular app
Broadcast *.template file for extensions above HTML5 (as NodeJS)
Error CAST AIP Console: [com.castsoftware.html5] HTML5-005 Internal issue in parsing one statement
Blocking recursion (for NodeJS)

2.1.5-funcrel

Resolved Issues

Customer Ticket Id	Details
29756	Missing JavaScript Methods after analysis.
29267	HTML5 service name is wrong for certain objects with href="@Url.RouteUrl

Link Improvements

Callee Type	Caller Type	Details
.NET WEB operations	CSHTML files	These links are now more complete.

Other Updates

Details
Front end objects of CSHTML in ASP.NET Core MVC project not appearing in AIP console

Transaction Improvements

Type	Framework
Links from CSHTML files to .NET WEB operations	razor

2.1.4-funcrel

Resolved Issues

Customer Ticket Id	Details
29278	The rule, 1020006: "Avoid calling a function in a termination loop" not in the correct technical criteria.

Other Updates

Details
Add filtering of libraries
Links from html fragments should have the fragment as caller instead of the method containing the fragment.
Resolution corrections on HTML5
Bad evaluations for some urls
Problem with parsing with html files when an attribute name is bracketed (ex: [href]="myurl")'

New Support

Summary	Details
Add support for pug files	Add support for .pug files, these files are now transaction entry-points.

2.1.3-funcrel

Resolved Issues

Customer Ticket Id	Details
28065	Missing link from JavaScript method "getAuditDetails" to "getEngagementDetails".
28407	Wrong links to JS functions from ASPX files or other JS Functions in HTML5 analysis.
28116	HTML5-005: Internal issue in parsing one statement.
28591	HTML5 analysis crash warning: Extension com.castsoftware.html5 has encountered an issue.

2.1.2-funcrel

Resolved Issues

Customer Ticket Id	Details
26922	HTML warning: [com.castsoftware.html5] HTML5-005 Internal issue in parsing one statement
26932	REACT Warning : [com.castsoftware.reactjs] REACTJS-001 Internal issue in <source file path>
27481	Missing Angular Resource services
26876	JQUERY Post resource service object that is not created
27128	HTML5 Get HTTPRequest Object Deleted in current run
27299	HTML5-005 Internal issue in parsing one statement
27423	NodeJS Objects not discovered and missing links in an NodeJS application
26221	HTML analysis warning: HTML5-005 Internal issue in parsing one statement

Other Updates

Details
Functions that are dynamically called are not being resolved. This issue is now fixed.
Following files must be skipped (libraries).
A callLink between function and returned function when returned function has no name has been added.
Performance issue in HTML5 extension for executing query in remove_files_with_no_children. This is now fixed.
Error in parsing nodejs syntax (function*() {}). This is now fixed.

2.1.1-funcrel

Resolved Issues

Customer Ticket Id	Details
25924	PB:[COFACE][COFANET]Console : Onboarding : HTML5-005 Internal issue in parsing one statement
26452	PB:[AT&T][BD]Issue with transactions due to missing 10K+ HTML HTTPRequest Service objects after migration from 2.0.10 to 2.0.19
25962	HTML analysis is taking long time and it is stuck while parsing one JS file
26087	HTML Warning: [com.castsoftware.html5] HTML5-005 Internal issue in parsing one statement
26041	PB:Missing links between XHTML files and java methods and link between xhtml file of JEE to HTML source code of html5..

Other Updates

Details
Preparation for api publication
aspx improvement (links to OnInit and OnLoad)
JSX contents must be added in diags definitions where JS contents are included (total).
Remove traceback errors from logs
Some classes are not parsed as classes (class PurposeField extends React.Component<PurposeFieldProps> {})
Some reactjs files are badly parsed because jsx parts are found when it should not.
Support of import statement with default keyword in curly brackets
Fix false violations of unreferenced functions in last version of Imaging
Following libraries must be skipped: cypress, fastclick.js
Methods are not detected in some reactjs classes because some jsx ends are not well detected.
Better support of iteration protocol "..."
HTML5 has to handle vuejs mixins
resolution through imports enhancement
Support of resolution through different components (package.json)
Support of resolution through imports redirections (jsconfig.json)
Exporting a list of object does not work

2.1.0-funcrel

Note

This release of the extension contains a large number of rule related improvements, which will have a significant impact on any existing analysis results generated with a previous release of the extension. When re-analyzing existing and unchanged source code with this new extension, you should therefore expect grade and violation changes. When using AIP Console, if you do not want this extension to be used, you should ensure that you implement an extension strategy to prevent the automatic download and installation of the extension. If you are onboarding a new application, CAST actively encourages you to use this new release to take advantage of the improvements that have been implemented.

Resolved Issues

Customer Ticket Id	Details
24807	Missing links between HTML5 POST service operation to Struts Operation
24781	HTML5 missing resource service object when src attribute with iframe tag is used
24586	HTML analysis: missing resource service object due to which link is not created to struts operation
24732	HTML analysis warning: HTML5-005 Internal issue in parsing one statement
25060	Missing link between jsp page and js function
25503	HTML analysis Warning: HTML5-005 Internal issue in parsing one statem

Rules

Rule Id	New Rule	Details
1020070	FALSE	Avoid hardcoded network resource names in Javascript (updated contribution)
1020094	FALSE	Avoid creating cookie without setting httpOnly option (Javascript) (updated contribution)
1020096	FALSE	Avoid using unsecured cookie (Javascript) (updated contribution)
1020098	FALSE	Avoid creating cookie with overly broad path (Javascript) (updated contribution)
1020100	FALSE	Avoid having cookie with an overly broad domain (Javascript) (updated contribution)
1020002	FALSE	Avoid programs with low comment/code ratio (HTML5/Javascript) (updated thresholds)
1020004	FALSE	Avoid to use querySelectorAll (updated thresholds)
1020006	FALSE	Avoid to call a function in a termination loop (updated thresholds)
1020008	FALSE	Avoid for-in loop (updated thresholds)
1020010	FALSE	Avoid using forEach() (updated thresholds)
1020012	FALSE	Avoid using a web service with WebSocket inside a loop (updated thresholds)
1020014	FALSE	Avoid using a web service with XMLHttpRequest inside a loop (updated thresholds)
1020016	FALSE	Avoid using too much dot notation in loop (updated thresholds)
1020018	FALSE	Avoid using Web SQL databases (updated thresholds)
1020020	FALSE	Avoid blocking page loading with synchronous Javascript import (updated thresholds)
1020022	FALSE	Avoid using submitted markup containing "form" and "formaction" attributes (updated thresholds)
1020024	FALSE	Avoid "id" attributes for forms as well as submit (updated thresholds)
1020026	FALSE	Avoid using autofocus and onfocus in submitted markup (updated thresholds)
1020028	FALSE	Avoid using autofocus and onblur in submitted markup (updated thresholds)
1020030	FALSE	Avoid using javascript or expression in the CSS file (updated thresholds)
1020032	FALSE	Avoid using video poster attributes in combination with javascript (updated thresholds)
1020034	FALSE	Avoid hosting HTML code in iframe srcdoc (updated thresholds)
1020036	FALSE	Avoid using onscroll event with autofocus input (updated thresholds)

1020038	FALSE	Avoid defining and calling functions inside loops (updated thresholds)
1020040	FALSE	Avoid using delete with no object properties (updated thresholds)
1020042	FALSE	Avoid having iframe inside a tag (updated thresholds)
1020044	FALSE	Avoid using setData in ondragstart with attribute draggable set to true (updated thresholds)
1020046	FALSE	Avoid using oninput in body containing input autofocus (updated thresholds)
1020048	FALSE	Avoid using source tag in video/audio with event handler (updated thresholds)
1020050	FALSE	Avoid white-listing the "dirname" attribute in user generated content (updated thresholds)
1020052	FALSE	Avoid using import with external URI (updated thresholds)
1020054	FALSE	Avoid using delete on arrays (updated thresholds)
1020056	FALSE	Avoid using Javascript Document.all collection (updated thresholds)
1020060	FALSE	Avoid using console.log() (updated thresholds)
1020062	FALSE	Avoid using non thread-safe Javascript singleton pattern (updated thresholds)
1020064	FALSE	Avoid Superclass knowing Subclass in Javascript (updated thresholds)
1020066	FALSE	Avoid using Javascript Function constructor (updated thresholds)
1020068	FALSE	Avoid return statement in finally block (updated thresholds)
1020072	FALSE	Avoid direct access to Database Tables in Javascript (updated thresholds)
1020074	FALSE	Avoid enabling autocomplete "on" for inputs/forms (updated thresholds)
1020076	FALSE	Avoid Artifacts with too many parameters (Javascript) (updated thresholds)
1020078	FALSE	Avoid using setTimeout() (updated thresholds)
1020080	FALSE	Avoid using setInterval() (updated thresholds)
1020094	FALSE	Avoid creating cookie without setting httpOnly option (Javascript) (updated thresholds)
1020096	FALSE	Avoid using unsecured cookie (Javascript) (updated thresholds)
1020098	FALSE	Avoid creating cookie with overly broad path (Javascript) (updated thresholds)
1020100	FALSE	Avoid having cookie with an overly broad domain (Javascript) (updated thresholds)
1020104	FALSE	Avoid hardcoded passwords (Javascript) (updated thresholds)