

.NET Analyzer - 1.2 - Release Notes

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1.2.16

Resolved Issues

Customer Ticket Id	Details
34467	An unexpected exception occurred while loading project xxxxx Sequence contains more than one matching element.
31602	Net warning: DOTNET.0156: An unexpected exception occurred while loading project Net 5.
31022	False violation for rule (rule id: 8110): Use dedicated stored procedures when multiple data accesses are needed.
33194	Even when version 4.8 is installed, following message: "Required framework version is 4.8 but version 4.7.2 will be used instead" is displayed.

Other Updates

Details
Moving CommandData.json files raised an exception, when running the analysis a second time.
Generated .json files are analyzed incorrectly by the HTML5 and JavaScript extension, and this analysis leads to invalid results. After the fix, the generated .json files are stored in the LISA folder instead of the deployment folder hence they do not get analyzed by the HTML5 and JavaScript extension.
The exception "PathTooLongException" is not caught hence the analysis is stopped with the DOTNET.0156 warning. With the fix, the exception is caught, and the analysis continues without any warning message.

Rules

Rule Id	New Rule	Details
8108	FALSE	The rule "Avoid missing release of stream connection after an effective lifetime" has been modified to reduce false positive violations by excluding streams in constructor arguments of classes inheriting from IDisposable.
8110	FALSE	False violation for rule "Avoid not using dedicated stored procedures when processing multiple data accesses" is removed. Now the rule uses dedicated stored procedures when multiple data accesses are needed.

1.2.15

Resolved Issues

Customer Ticket Id	Details
29725	Transaction are deleted due to missing dll file reference: compilation conflicts between extractions and references
33077	Missing Reference to Datarow even though the dll is present causing GUID changes between versions

33518	Missing Reference to Datarow even though the dll is present causing GUID changes between versions
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Other Updates

Details
General Protection Fault crash on code "QUAL_SACS".
False positive on rule: "Avoid missing release of stream connection after an effective lifetime" with some methods of classes File and Stream.
Update the analyzer, to provide a list of the .NET frameworks managed by default in a .json file.

Rules

Rule Id	New Rule	Details
8108	FALSE	False positive on rule "Avoid missing release of stream connection after an effective lifetime" with some methods of classes File and Stream.

1.2.14

Resolved Issues

Customer Ticket Id	Details
30747	Drop in FP, due to changes in .NET TCCSetup file.

1.2.13

Resolved Issues

Customer Ticket Id	Details
28876	.NET Analysis crash --- com.castsoftware.dotnet.1.3.1-funcrel\DotNetCmd.exe exited with code -1073741571

Other Updates

Details
TCC config delivered by .NET extension is referring to package="Dotnet_Extension" instead of package="Base_DotNet".

Rules

Rule Id	New Rule	Details
1027008	FALSE	False violation for "Always Revert After Impersonation" on stored instances of classes implementing IDisposable.

1.2.12

Resolved Issues

Customer Ticket Id	Details
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28888	Modified Transactions due to links alternating to objects with same fullname in different folders.
28054	False violation (rule id: 1027012): "Avoid storing Non-Serializable Object as HttpSessionState attributes".
29262	The rule (rule id: 8156): "Persistent classes should implement GetHashCode() and Equals()" should not apply for Entity Framework.

Other Updates

Details
"System.Threading.Task" should be exception to the QR (rule id: 8086): "Avoid types that own disposable fields and are not disposable".

Rules

Rule Id	New Rule	Details
1027012	FALSE	Fixed false positive due to wrong resolution of symbol (compiler error BC30560)
8156	FALSE	Fixed false positive due to rule formerly applied to entities of EF
8086	FALSE	Fixed false positive due to rule formerly applied to "System.Threading.Task"

1.2.11

Resolved Issues

Customer Ticket Id	Details
27654	DOTNET.0156: An unexpected exception occurred while loading project xxxx. Project excluded from analysis.
25822	False Positive in the QR: "Avoid having lock on this object".
27762	False positive in the QR: "Avoid missing release of stream connection after an effective lifetime". Close the outermost stream ASAP.
28018	Objects not coming part of module causing transactions to be "Deleted"
26749	ASPX Transactions deleted
24427	Wrong Violations in the rule: "Avoid missing release of stream connection after an effective lifetime" in .NET
26766	False violation in the QR: "Avoid missing release of stream connection after an effective lifetime".
28276	False positives produced in the QR: "Avoid missing release of stream connection after an effective lifetime".
27617	Objects not coming as part of module is causing transactions to be "Deleted".

Other Updates

Details
False positives for the QR: "Avoid missing release of stream connection after an effective lifetime" when the syntax, "using declaration" is used
Correct bookmark for the QR: "Avoid missing release of stream connection after an effective lifetime"

1.2.10

Resolved Issues

Customer Ticket Id	Details
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26236	Aspx Source File Object has reduced due to object being external
24396	No SQL QR are triggered for links that are created between C# objects and SQL Analyzer objects when links are grep

1.2.9

Note

.NET Analyzer - 1.2.9 is now in LTS (Long Term Support).

1.2.9-funcrel

Resolved Issues

Customer Ticket Id	Details
23232	Missing link from client objects to SQL Script subpackage object

Other Updates

Details
DOTNET.0142: Dependency System.Xml not found
Resolution impossible with 3rd party NuGet packages versionned with -beta2
DOTNET.0150 for symbols already defined in ressources.fwe - case of Microsoft.AspNetCore.Http
Analysis crashes in connection less mode and prevent launch of no regression test
Missing warning when recursive dependent package are missing

1.2.8-funcrel

Resolved Issues

Customer Ticket Id	Details
21878	Analysis of .NET application blocked during Run_CSV_generation with .Net Analyzer 1.2.3-funcrel due to Lambda expression
24329	Defects are duplicated for .Net violations in dashboard
24260	DOTNET.0012: Could not load assembly ACME.Enterprise Library.

Other Updates

Details
Getting warning in .net log for "Error BC30002 Type is not defined"
Adding .NET SOAP operation/service as default entry point for TCC
All blackbox files are loaded regardless of APPLICATION_NAME with AIP 8.3.17 and .NET Analyzer 1.2.1-funcrel
Some objects within "external " source code are marked as "internal".

1.2.7-funcrel

Resolved Issues

Following issues are resolved in this release of the analyzer.

Internal ID	Call ID	Description	Impact?
DOTNET-986	-	Non Regression Tests setup for .Net	After the fix, Non Regression Tests runs fine, irrespective of the number of times it is run.
DOTNET-997	-	Random failures of Non Regression Tests for .Net due to random projects execution	Random order of projects during execution is fixed.
DOTNET-1005	-	NRT Failures when xaml files are present in Test app	The fix handles the differences between the multiple analysis' on same version caused due to generated Files of .Net.
DOTNET-1094	-	NullReferenceException during devirtualization	Exception is fixed.

1.2.6-funcrel

Resolved Issues

Following issues are resolved in this release of the analyzer.

Internal ID	Call ID	Description	Impact?
DOTNET-913	20646	Massive increase in warnings mainly of the type GUID duplicate found : CAST_DotNet_ClassExternal after upgrading extension.	Regression fixed, but few GUID duplicate warnings are remaining.
DOTNET-965	-	Uncaught exception while processing target EntryPoint	Exception does not occur anymore.
DOTNET-969	-	SSL in .Net extension	A change has been implemented in preparation for the future support of encrypted SSL connections to CAST Storage Service/PostgreSQL.
DOTNET-971	22353	DOTNET.0156: An unexpected exception occurred while loading project	The exception was occurring when the .NET analyzer was installed in a folder containing spaces characters. The issue is fixed.
DOTNET-981	22535	Analysis of XXX.csproj has failed. An unexpected error happened leaving the analysis in an unknown state	Exception does not occur anymore.
DOTNET-988	-	CS0433 errors related to extractions	These errors were related to two conflicting extraction, errors removed.
DOTNET-990	-	On local functions we get the warning: DOTNET.0020: Error while processing visitor: MethodBodyVisitor	This error was occurring on local functions with the arrow syntax. We do not generate any more CASTIL code for these local function until some other fixes on lambdas.
DOTNET-995	22791	DOTNET.0156: An unexpected exception occurred while loading project	Exception does not occur anymore.
DOTNET-996	22793	.NET analysis is failing with warning: System.ArgumentException: Illegal characters in path	Exception does not occur anymore.

1.2.5-funcrel

Updates

New technology support

This extension now supports:

- .NET Core 3.1, implicitly also supporting:
 - ASP.NET Core 3.1
 - WinForms and WPF for .NET Core
- .NET Standard 2.1

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-974	-	create_link call crashing with entity 1.4.4 extension	The analyzer no longer crashes
DOTNET-984	-	get_inherited_types() method is broken	In Python extensions the method get_inherited_types() was not working for some base types, depending on the analysis configuration. This is now fixed.

1.2.4-funcrel

Updates

Packages.config file support

This extension now supports 'packages.config files' which gives more accurate analysis (less messages in DOTNET.0150 and DOTNET.0151).

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-899	-	SQL injection target methods for C/S links is not aligned with User Input Security requirement and needs	Improved accuracy for User Security Input analyses.
DOTNET-937	-	Support of conditional member access syntax	The analyzer no longer crashes.
DOTNET-940	-	.Net 1.0/1.1 analysis fail with warning DOTNET.0155: Unrecognized format of project file	.NET 1.x projects may be analyzed again.
DOTNET-947	21787	.NET analysis is failing with several warnings in the analysis log and hence links not created between the artifacts	A NullReferenceException was occurring in an attempt to draw a devirtualization link in a lambda as a field initializer. The link is now created from all constructors of the class.
DOTNET-948	-	DOTNET.0020: Error while processing visitor: AvoidStreamResourceLeaks, AlwaysRevertImpersonation	No more crash with message DOTNET.0020.

1.2.3-funcrel

Updates

.NET Core and ASP.NET Core support

This extension now supports:

- .NET Core 3.0
- ASP.NET Core 3.0

QR name of the rule '8108' is revised

Earlier name of '8108': Close outermost stream ASAP

Current name of 8108': Avoid missing release of stream connection after an effective lifetime

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-865	19708	False positive for .net rule "Close outermost stream ASAP", now "Avoid missing release of stream connection after an effective lifetime"	Before the 'null conditional operator' was not recognized and false violations were displayed. After the fix, 'null conditional operator' is handled hence no false violations displayed.
DOTNET-925	21127	.Net analysis is frozen	An infinite loop was occurring during the analysis. After the fix, the analysis completes successfully.

DOTNET-926	21198	.NET Analyzer 1.2.2 funcrel - Unable to analyze complete code	While loading projects, analysis was crashing. After the fix, analysis does not crash. In the future if any exception is raised during the load of project, only projects failing to load will be excluded from analysis.
DOTNET-929	21245	AIP_CONSOLE OnBoarding : All C# classes are not analyzed.	A crash was occurring when the target framework of a project was an empty string. The crash is fixed. After the fix, in case of an empty string we select the default framework version (which is the highest framework version supported).

1.2.2-funcrel

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-296	-	Support of C#7 and VB :: tuple syntax	New links are created and the user input security will go through the instructions using tuples.
DOTNET-902	-	Fix required for 4 DOTNET.0020 warnings in analysis log file	Under specific conditions, a crash could occur during the analysis of the web services. Due to this some methods were not recognized as web methods. After the fix, the crash does not occur.
DOTNET-907	-	Some recursive package dependencies are not found	Some recursive dependencies were not found and interoperability between system frameworks were not taken into account resulting in missed package dependencies. Missing package dependencies may have impact as: missing links toward external objects and less accurate user input security. The issue is fixed after the upgrade.
DOTNET-909	-	Missing objects expected from Edmx files	Edmx files are now saved as additional documents of a project, allowing extensions to leverage that information.
DOTNET-917	-	Crash during computation of diag Avoid weak encryption key size	After the fix, crash does not happen hence no missing violations.

1.2.1-funcrel

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-611	-	Invalid CASTIL generation for ASP.NET pages	After upgrading, intermediate CastIL code related to web forms (.aspx) and web controls (.ascx) is now generated correctly for the User Security Input. Therefore after an upgrade to this version of the extension and the generation of a post upgrade consistency snapshot, results may change: more User Input Security related violations may be identified.
DOTNET-612	-	Missing devirtualization links when type instantiations are involved	Devirtualization links are now created properly in the context of type instantiations. Therefore after an upgrade to this version of the extension and the generation of a post upgrade consistency snapshot, results may change: more accurate transaction information will be produced.
DOTNET-869	-	Missing type conversion calls for the CastIL generation via Roslyn	Implicit calls to ToString() methods were not generated in CASTIL (for dataflow). Therefore after an upgrade to this version of the extension and the generation of a post upgrade consistency snapshot, results may change: more User Input Security related violations may be identified.
DOTNET-887	-	Violations are missing in AED when compared with 1.0.14 extension	Violations were not reported on Page_Load methods in a web application. Therefore after an upgrade to this version of the extension and the generation of a post upgrade consistency snapshot, results may change: increased number of violations producing greater accuracy.
DOTNET-896	-	Missing dependency toward netstandard.dll facade may cause name resolution errors	Name resolution errors are fixed.
DOTNET-897	-	Resolution errors because of dependencies added twice	Name resolution errors are fixed.

1.2.0-funcrel

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-784	-	"C# Property" objects are "synthetic", but their children (setters and getters) are internal	<p>A change has been made to the status of certain objects resulting from .NET analyses. The following objects are all now considered as "generated code" when required:</p> <ul style="list-style-type: none"> accessors of generated files event fields <p>Previously, these objects were not considered as "generated code" and therefore violations found in them were included in grade and violation counts. After an upgrade to 1.2.0-funcrel and the generation of a post upgrade consistency snapshot on unchanged source code, results may be impacted due to this change: grades may change due the non-inclusion of violations caused by these objects. In addition, other metrics may change such as the total number of violations and Line of Code count (generated objects do not contribute to these).</p> <p>Finally, the Engineering Dashboard will now report identical values for the total number of all violations in the Risk Model tile and in the Application Components tile.</p>
DOTNET-855		Error while processing visitor: MethodBodyVisitor	<p>In 1.2.0-funcrel a change has been made to display a warning message instead of an error message:</p> <ul style="list-style-type: none"> Previously: "Error while processing visitor: MethodBodyVisitor" In 1.2.0-funcrel: "DOTNET.0103: An exception occurred while generating code for method {method mangling}" <p>The consequence of this change is that previously the generated code for the entire file was lost (skipped due to the error), however, now the generated code is lost only for the specific method mentioned in the warning message.</p>
DOTNET-856		Error while processing visitor: LinqToSQLVisitor	<p>After upgrading to 1.2.0-funcrel, warning message is not displayed.</p>

1.2.0-beta5

Updates

Support added for DbDataAdapter in CAST Transaction Configuration Center

The .TCCSetup file provided in the extension has been configured to recognize End points for DbDataAdapter.

Dependencies in nupkg files not taken into account

Nuget package may have some dependencies toward other packages (specified in the nupec file). We should take these dependencies into account to include them as dependent packages.

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-833	19400	Crash in .Net analyzer	After upgrading to 1.2.0-beta5, .Net analyzer does not crash due to duplicate Keys in dictionaries.
DOTNET-780	18569	Analysis warning: DOTNET.0020:Error while processing visitor: NumberOfBreaksInForLoops	After upgrading to 1.2.0-beta5, you will not get false warning message related to NumberOfBreaksForLoops
DOTNET-825	19152	Receiving false positives reporting dead code for code that is in use	<p>This issue has been fixed by disabling the rules listed below. These rules often produce a significant number of false violations thereby reducing their usefulness. These rules are multi-techno and are embedded in AIP Core, therefore they are only disabled specifically and only for .NET technologies when using CAST AIP 8.3.16. As a result of this change, results may be impacted - no violations will be triggered for any of these rules, therefore potentially impacting grades and existing results:</p> <ul style="list-style-type: none"> Avoid unreferenced Classes - 7832 Avoid unreferenced Data Members - 7912 Avoid unreferenced Methods - 7908
DOTNET-843		Devirtualization should create a link to all overrides at least	After upgrading to 1.2.0-beta5, .Net analyzer creates a link to all overrides when devirtualization of a call do not find a single link.

1.2.0-beta4

Updates

Support for Xamarin.Forms in CAST Transaction Configuration Center

The .TCCSetup file provided in the extension has been configured to recognize Entry points for Xamarin.Forms and End points for SQLite. And thus Transaction can now be seen in CAST Transaction Configuration Center.

Single warning for each unresolved type

A single warning is now displayed in the log file for each unresolved type.

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-808	19086, 19229	Snapshot error - 'Error while executing Procedure'	After upgrading to 1.2.0-beta4, no error is displayed.
DOTNET-789		There should be fatal error instead Warning message "Analysis failure, could not load a type. The following assemblies could not be loaded as well:"	After upgrading to 1.2.0-beta4, fatal error message is displayed instead of warning message.
DOTNET-820		DOTNET.0020:Error while processing visitor: WebServiceVisitor	After upgrading to 1.2.0-beta4, no error while processing "WebServiceVisitor"
DOTNET-742		FALSE VIOLATION FOR RULE- "Close the outermost stream ASAP"	Methods returning streams will not be considered for violation. After an upgrade to the current version of the extension and the generation of a post-upgrade consistency snapshot, results may changed for this rule - less false violations providing more accuracy.
DOTNET-805		Workaround for "Nupkg files exclusion in Nuget packaging"	Xamarin.Forms libraries were not getting referenced as while packaging Files and folders starting with '.' or ending with '.nupkg' are excluded by default. This problem is solved by shipping the '.nupkg' as '.castpkg'.
DOTNET-819	17666	FALSE VIOLATIONS FOR "Avoid improper processing of the execution status of data handling operations"	The current rule is not violated in the below cases: Either empty catch blocks, catch blocks with comments only, or only write to a stream are violating the rule. Appropriate logging or other treatment of exception are said to be valid.

1.2.0-beta3

Updates

The MAV2 metric "Length of the longest line" has been removed for .NET related analyses as a consequence it will no longer appear in the object properties list in CAST Enlighten.

Resolved Issues

Internal ID	Call ID	Description	Impact?
DOTNET-779	-	CASTONCAST: snapshot fails with ERROR: duplicate key value violates unique constraint "dss_objects_pk"	The snapshot failed due to a duplicate checksum for certain objects (when shared projects were present in the sources). This has now been fixed and the snapshot will complete correctly.
DOTNET-708	-	When both the iOS and android and UWP application are present in the same solution not finding the Xamarin reference	Missing links to framework dependencies for Xamarin projects will now be created
DOTNET-577	-	DOTNET.0048:Error while loading XML document	Documentation updated to clarify scenario of an empty configuration file in project
DOTNET-709	-	Not finding the Xamarin reference for the WatchOS App, can find the Xamarin WatchOS reference in web config	Missing links to framework dependencies for Xamarin projects will now be created
DOTNET-783	-	EOF counted as line of code	The EOF is no longer counted as a line of code, therefore a change in the number of lines of code is to be expected after upgrade to this release.

1.2.0-beta2

Updates

New feature

- Support for .NET Core 2.2: The .NET Analyzer now analyzes the code that uses .NET Core 2.2

New rule

The following rule has been added in this release - see: https://technologies.castsoftware.com/rules?sec=srs_dotnet&ref=||1.2.0-beta2

1027012	Avoid storing Non-Serializable Object as HttpSessionState attributes
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Resolved issues

Internal ID	Call ID	Description	Impact?
DOTNET-621	-	Bug in the quality rule "avoid instantiations inside loops"	No false violation message The creation of an object to be added to a collection that has a life cycle longer than the loop should be not considered as a violation.
DOTNET-745	-	Regression: Snapshot failed with ERROR: duplicate key value violates unique constraint "dss_objects_pk"	There were 2 CRCs saved on some objects, now there is only 1 CRC.
DOTNET-763	18245	LOC increase post migration	The analyzer was previously including empty lines in the lines of code (LOC) value therefore producing an erroneous value for this metric. This bug has been fixed (blank lines are no longer included in the LOC value) and therefore after an upgrade to the current version of the extension and the generation of a post-upgrade consistency snapshot on unchanged source code, the LOC value will reduce.

1.2.0-beta1

Resolved issues

Internal ID	Call ID	Description	Impact?
DOTNET-718	17275	FALSE VIOLATION FOR RULE- Close the outermost stream ASAP	After upgrading to 1.2.0-beta1: No false violation for the rule - Close the outermost stream ASAP. Upgrading to 1.2.0-beta1 will affect the analysis results.

1.2.0-alpha2

Updates

New rules

The following rules have been added in this release - see https://technologies.castsoftware.com/rules?sec=srs_dotnet&ref=||1.2.0-alpha2:

1027004	Avoid using deprecated XmlTextWriter .NET API
1027008	Always Revert After Impersonation
1027010	Avoid weak encryption providing sufficient key size (.NET)

DOTNET-682 - Adopt Roslyn 3.0

The .NET Analyzer now uses the Roslyn 3.0 compiler/analyzer which brings a first level of support for:

- C# 8.0

- VB.NET 15.8
- Visual Studio 2019

DOTNET-724 - PostgreSQL connectivity

A change has been implemented to introduce a connectivity layer compatible with PostgreSQL 10 and 11.

1.2.0-alpha1

Prerequisites

In order to use the .NET Analyzer extension for analysis purposes, the .NET Framework **4.7.2** must be installed in order for the analysis to function. A check will be done when the analysis starts and a message will be produced if the minimum .NET Framework cannot be found. See also **Required third-party software** in [.NET Analyzer - 1.2.](#)

Updates

Xamarin support

First level of support for Xamarin (links to Xamarin API objects will be resolved) for:

- Android
- iOS
- TvOS
- WatchOS
- UWP

New rules

The following rules have been added in the this release - see https://technologies.castsoftware.com/rules?sec=srs_dotnet&ref=|1.2.0-alpha1:

1027000	Avoid Managed type declaration for Win32 API using Overlapped IO
1027002	Avoid exposing methods that use Platform Invocation Services to access unmanaged code

New icons for CAST Enlighten

A new set of icons has been provided for display in CAST Enlighten.

Resolved issues

Internal ID	Call ID	Description	Impact?
DOTNET-673	16172	False positive for rule 'Avoid using Keywords' for 'C# Property Set' and 'C# Property Get'	After an upgrade to 1.2.0 and then generation of a new snapshot on unchanged source code, results of the rule Avoid using Keywords' for 'C# Property Set' and 'C# Property Get' may be impacted: less false violations providing greater accuracy.