

C and Cpp Analyzer 2.2

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Extension ID

com.castsoftware.cpp

What's new

Please refer [C and Cpp Analyzer 2.2 - Release Notes](#) for more information.

Description

This extension provides support for **C/C++**.



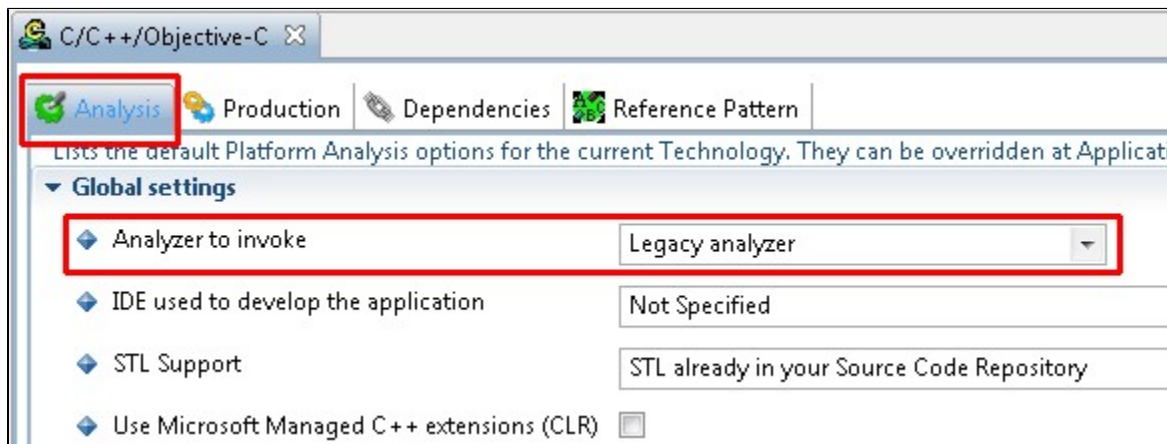
When installed, this extension **replaces** the C/C++ Analyzer embedded in CAST AIP and provides additional features and improved analysis capabilities.

In what situation should you install this extension?

If your application contains **C/C++** source code and you want to view these object types and their links with other objects, then you should install this extension.

Technical information

This extension will be used launched when the option **Analyzer to invoke** in the CAST Management Studio is set to **Legacy analyzer**. See [C and Cpp - Analysis configuration](#) for more information.



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	Security
✓	✓	✗

CAST AIP compatibility

This extension is compatible with:

CAST AIP release	Supported
8.3.3 and above	

Supported DBMS servers

This extension is compatible with the following DBMS servers:

CAST AIP release	CSS	Oracle	Microsoft
All supported releases			

Detailed technology support

Language support

- **C++ language** is supported up to [C++17](#)
- **C language** up to C99

Language extensions supported

- **Oracle Pro*C** and **IBM DB2 SQC** extensions (EXEC SQL commands embedded in C code)
- some **Microsoft C++ Component Extensions**:
 - **interface**
 - **property**
 - **for each**

Available project discoverers for the CAST Delivery Manager Tool

- Visual C++ 2003
- Visual C++ 2005
- Visual C++ 2008
- Visual C++ 2010
- Visual C++ 2012
- Visual C++ 2013 > The Analysis Unit generated for this project is mapped to a Visual C++ 2012 environment profile
- Visual C++ 2015 > The Analysis Unit generated for this project is mapped to a Visual C++ 2012 environment profile
- Visual C++ 2017 > The Analysis Unit generated for this project is mapped to a Visual C++ 2012 environment profile



Visual C++ 2013, 2015 and 2017 projects, will be discovered as a **Visual C++ 2012** project (i.e. the Analysis Unit generated for this project is mapped to a Visual C++ 2012 environment profile). You can therefore:

- either change the analysis options in the CAST Management Studio so that:
 - **"IDE used for this Analysis Unit"** is set to **"Not Specified"**
 - **"STL Support"** is set to **"Cast emulation"**
- or have **Visual C++ 2012** installed on the analysis machine and analyse the code as a Visual C++ 2012 project.






- See [C and Cpp - Technical notes and limitations](#) for a list of additional tips and information
- See [C and Cpp - Project discovery](#) for more information about how **discovery** functions.

Required third-party software

To successfully deliver and analyze C / C++ code, the following third-party software is required:

Install on workstation running the DMT (for extraction)	Install on workstation running CMS (for analysis)
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Nothing required	Software required
<p data-bbox="159 205 691 254"> Note that no project discoverer exists for Visual Studio 6.0, however, source code can still be packaged.</p>	<p data-bbox="776 184 1430 233">If you intend to use the CAST - VC++ XXX - Mandatory Part Environment Profile (usage is recommended), then you MUST install:</p> <ul data-bbox="792 254 1382 443" style="list-style-type: none">• All include files of third party libraries that are used.• The appropriate IDE depending on source code to be analyzed:<ul data-bbox="837 302 1081 443" style="list-style-type: none">• Visual Studio 6.0• Visual Studio .NET 2003• Visual Studio 2005• Visual Studio 2008• Visual Studio 2010• Visual Studio 2012 <p data-bbox="792 478 1419 527"> Note that if you do not install the appropriate IDE for your source code, then the analysis will fail.</p> <p data-bbox="792 590 1451 638"> Note that the above information does not apply to other source code (C/C++ compiler from vendors other than Microsoft).</p>

Download and installation instructions

Please see:

- [Download an extension](#)
- [Install an extension](#)

Packaging, delivering and analyzing your source code

Please see: [C and Cpp - Packaging, delivering and analyzing your source code](#) and all child pages:

- [C and Cpp - Project discovery](#)
- [C and Cpp - Analysis configuration](#)
- [C and Cpp - Analysis messages](#)

What analysis results can you expect?

Please see: [C and Cpp - Analysis results](#).

Rules

Please see: [C and Cpp - Structural rules](#).