

# Customizing Static Analysis Overview

Static analysis can be highly customized. Use the following table as a reference to determine how to achieve the customization effect you are seeking:

Desired Customization	Required Action	Reference
Define a set of rules to be used in static analysis	Change the rules settings in the <b>Static</b> tab of the Test Configuration(s) you want to apply	<a href="#">Static Tab Settings: Defining How Static Analysis is Performed</a>
Customize available rules	Edit rule parameters in the <b>Static &gt; Rules Tree</b> tab of the Test Configurations dialog, or Use RuleWizard to modify static code analysis rules	<a href="#">Customizing Existing Rules and Creating New Rules</a>
Modify settings for BugDetective data flow analysis	Change the BugDetective settings in the <b>Static</b> tab of the Test Configuration(s) you want to apply	<a href="#">Static Tab Settings: Defining How Static Analysis is Performed</a>
Customize rule groups, identifiers, titles, and severities to match your policy and priorities	Define the changes with rule mappings	<a href="#">Modifying Rule Categories, IDs, Names, and Severity Levels</a>
Create new (fully-custom) static analysis rules	Use RuleWizard to create custom static code analysis rules	<a href="#">Customizing Existing Rules and Creating New Rules</a>
Create new rule categories	Define the changes with rule mappings	<a href="#">Modifying Rule Categories, IDs, Names, and Severity Levels</a>
Change the default directory where C++test looks for user-defined rules	Set the desired <b>User rules location</b> in the <b>Configurations</b> page of the Preferences dialog.	<a href="#">C++test Configuration Overview</a>
Apply local rule suppressions	Suppress the task	<a href="#">Suppressing the Reporting of Acceptable Violations</a>
Modify static analysis settings, such as number of tasks reported per rule, whether analysis is performed on automatically-generated test classes, etc.	Change the analysis settings in the <b>Static</b> tab of the Test Configuration(s) you want to apply	<a href="#">Static Tab Settings: Defining How Static Analysis is Performed</a>

In addition, you can configure static analysis with advanced options. For example, you can specify encoding or customize the amount of allocated memory. See [Configuring Advanced Options](#) for details.