

# MISRA Compliance Pack for DTP 5.3.2

The Parasoft MISRA Compliance Pack is a set of artifacts and configurations for your DTP infrastructure that enable you to readily demonstrate compliance with MISRA development guidelines. The MISRA Compliance Pack can be adapted to support any version of the MISRA standard, but it is configured by default for MISRA C:2012. Contact your Parasoft representative for download and licensing information.

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## Background

MISRA began as a set of technical guidelines to help organizations create safety-critical software for automotive applications. The standard has since been adopted by embedded software development organizations in other safety-critical industries. MISRA C:2012 is the most recent implementation for development using the C programming language and includes 159 base guidelines. Amendment 1 is a supplemental set of 14 guidelines that expanded the total to 173.

One of the challenges associated with achieving MISRA compliance has been the lack of a standardized mechanism for demonstrating compliance. To address this issue, MISRA published "[MISRA Compliance 2016: Achieving Compliance with MISRA Coding Standards](#)," which provides a more concrete definition of "MISRA compliance" and identifies several deliverables required for demonstrating compliance with the MISRA standard.

The Parasoft MISRA Compliance Pack configures code analysis to run against MISRA guidelines and conforms the data to meet the following reporting specifications defined in MISRA Compliance 2016.

## Guideline Enforcement Plan

A guideline enforcement plan (GEP) lists each MISRA guideline to indicate how compliance is checked. In the context of MISRA compliance with Parasoft, the GEP maps MISRA guidelines to Parasoft code analysis rules and DTP functionality.

## Guideline Re-categorization Plan

A guideline re-categorization plan (GRP) documents agreed-upon changes to how MISRA guidelines are categorized. Guidelines are categorized as Mandatory, Required, and Advisory. A fourth category, Disapplied, may also be used for instances in which the guideline truly does not apply.

All mandatory guidelines must be followed to achieve compliance. Required guidelines should be followed, but documented exceptions are allowed (see Deviations report). Advisory guidelines are considered best practice.

Required and Advisory guidelines can be re-categorized into to stricter categories (e.g., Advisory to Required), but only Advisory guidelines can be re-categorized into less strict categories (i.e., to Disapplied).

## Deviations Report

A "deviation" is a documented violation of the guideline and supporting rationale for allowing the violation to remain. In the context of MISRA compliance with Parasoft, deviations take the form of suppressed code analysis violations. Your project can have deviations and still be considered compliant if the deviations are documented in the report and do not impact safety.

## Guideline Compliance Summary

A guideline compliance summary (GCS) is the primary record of overall project compliance. The GCS includes an entry for each guideline, its level of compliance, any deviations and/or re-categorizations, etc.

See [MISRA Compliance 2016: Achieving Compliance with MISRA Coding Standards](#) for additional details and information.

## How Parasoft Supports MISRA C:2012 Compliance

In addition to the MISRA Compliance Pack, the following Parasoft products are required:

- Development Testing Platform (DTP) Enterprise 5.3.2 or later
- DTP Extension Designer 5.3.2 or later (included with the DTP Enterprise license)
- C/C++test Desktop or C/C++test DTP Engine 10.3.2 with the Flow Analysis license feature enabled

## Process Overview

1. Deploy the MISRA Compliance Pack configuration files to DTP.
2. Connect an instance of C/C++test to DTP. This enables C/C++test to analyze code according to MISRA guidelines by using the configurations stored on DTP, as well as report code analysis data to DTP for processing.
3. Install, configure, and deploy the MISRA Compliance artifact into DTP Extension Designer. This enables DTP to process the code analysis data to output the compliance deliverables.
4. Analyze the project with C/C++test using the MISRA configurations and report violations to DTP.
5. The MISRA Compliance extension then generates DTP dashboard widgets and reports using the data.
6. Interact with the widgets and reports to identify code that needs to be fixed, as well as print out the reports for auditing purposes.

## What's Included in the Parasoft MISRA Compliance Pack

The Parasoft MISRA Compliance pack helps you create the documentation required for demonstrating compliance with MISRA C:2012. Download and unzip the pack to access the following artifacts.

### MISRA2012-Rulemap.xml

This file remaps the output from the built-in C/C++test static analysis rules to the appropriate MISRA guidelines. The rule map does not change what the rules analyze or how they analyze the code. When applying the MISRA Compliance rule map, violations are reported with new rule IDs. As a result, violations will appear as new violations and any existing suppressions and/or prioritization will not apply to the remapped violations.

This file is located in the <PACK>/MISRA Rules directory.

### MISRA C 2012 Compliance.properties

This is the test configuration that enables the rules specified in the rule map to run during code analysis. All Parasoft tools analyze code according to which rules are specified in a test configuration. C/C++test includes test configurations specifically for checking software security, for example. The MISRA Compliance Pack includes a test configuration that enables the Parasoft rules that validate MISRA's guidelines.

This file is located in the <PACK>/MISRA Rules directory.

### misra-compliance-<version>.zip

This is the DTP Workflow you must install and deploy in Extension Designer. It extends DTP's data processing functionality to produce MISRA-specific dashboard widgets and reports. It helps you track compliance status and document guideline enforcement, deviations, and rule re-categorization.

This artifact is located in the <PACK>/Extension Designer Artifact directory

### MISRA2012-Category.xml and MISRA2012-Guideline.xml

These configuration files enable additional compliance categories in DTP. The additional categories provide a place for the MISRA-specific dashboard widgets that are shipped with the MISRA Compliance extensions. DTP must be restarted after installing these.

These files are located in the <PACK>/DTP> conf> compliance directory.

### MISRA\_C\_2012\_Compliance.json

This dashboard template file provides a DTP dashboard containing a pre-defined set of MISRA-related widgets. Refresh your browser after installing the template.

This file is located in the <PACK>/DTP> grs> dashboard directory.

### MISRA C:2012 Compliance Data Sheet

This document shows the mapping between C/C++test rules and the guidelines they support. It shows the original C++test rule and the remapped rule.

## Configuring DTP for MISRA Compliance Reporting

MISRA guidelines are defined as either "rules" or "directives" and can be categorized as Mandatory, Required, or Advisory. Parasoft static and flow analysis rules report violations according to a category (e.g., Possible Bug, Interoperability, etc.) and severity (i.e. 1-5). In the MISRA rulemap, the analysis rules are remapped so that the Parasoft category matches the MISRA guideline and output presented in both static HTML reports and DTP maps to MISRA guidelines. Additionally, the MISRA Compliance test configuration enables C/C++test to execute only the rules related to the remapped MISRA rules.

1. Install the MISRA2012-Rulemap.xml configuration file as described in [Uploading Rule Map Files](#).
2. Install the MISRA C 2012 Compliance.properties test configuration file as described in [Managing Test Configurations](#).
3. Associate the rule map file with the test configuration file as described in [Associating Test Configurations with Rule Maps](#).



4. Deploy the MISRA2012-Category.xml and MISRA2012-Guideline.xml custom compliance configuration files as described in [Custom Compliance Categories](#).
5. Deploy the MISRA\_C\_2012\_Compliance.json dashboard template file as described in [Deploying Custom Dashboard Templates](#).
6. Restart DTP (see [Stopping DTP Services](#) and [Starting DTP Services](#)).

According to MISRA C:2012, there are four guidelines that cannot be statically analyzed. As a result, DTP will report 100% compliance against 169 guidelines.

## Configuring Extension Designer

### Installing the MISRA Compliance DTP Workflow

1. Enterprise Pack artifacts are usually downloaded and installed from the Parasoft Marketplace, but the MISRA Compliance workflow must be uploaded manually. See [Uploading Artifacts](#) for instructions.
2. Deploy the artifact after installation. See [Deploying Services](#) for instructions.

## Profile Configuration

The MISRA Compliance DTP Workflow ships with a model profile (see [Working with Model Profiles](#)) configured to monitor compliance with MISRA C:2012. The profile includes information necessary for generating compliance reports (see [Viewing MISRA Compliance Reports](#)). It includes a field for you to specify your compiler, as well as guideline categorization and re-categorization information. You can modify the profile if you want to re-categorize guidelines to meet your specific goals or specify additional metadata for your reports. Changes will be reflected in the [Guideline Re-categorization Plan](#).

## MISRA C 2012

[Edit](#)

### Profile Attributes

MISRA Compliance: MISRA C 2012

Compiler: ADD COMPILER

Analysis Tool: Parasoft C++test 10.3.2

### Profile Data

Guideline	Original MISRA Cate...	MISRA Category	Description
Dir 1.1	Required	Required	Any implementation-d...
Dir 2.1	Required	Required	All source files shall c...
Dir 3.1	Required	Required	All code shall be trace...
Dir 4.1	Required	Required	Run-time failures shall...
Dir 4.2	Advisory	Advisory	All usage of assembly ...
Dir 4.3	Required	Required	Assembly language sh...
Dir 4.4	Advisory	Advisory	Sections of code shoul...
Dir 4.5	Advisory	Advisory	Identifiers in the same ...
Dir 4.6	Advisory	Advisory	typedefs that indicate ...
Dir 4.7	Required	Required	If a function returns err...

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We recommend creating a copy of the default profile and modifying the copy.

1. Click **Export Profile** to download a copy.
2. Rename the copy and click **Import Profile**.
3. Browse for the copy and confirm to upload.
4. Click on a guideline and specify your changes. If you are changing MISRA categories, the following strings are acceptable:
  - Mandatory
  - Required
  - Advisory
  - Disapplied

Dir 4.7	Required	Required	If a function returns e...	+
Guideline:	<input type="text" value="Dir 4.7"/> *			
Original MISRA Category:	<input type="text" value="Required"/>			
MISRA Category:	<input type="text" value="Required"/>			
Description:	<input type="text" value="If a function returns error information, then"/> *			
Compiler:	<input type="text"/>			
Parasoft Category ID:	<input type="text" value="MISRA2012-DIR_4_7"/>			
Parasoft Rule ID:	<input type="text" value="MISRA2012-DIR_4_7-a MISRA2012-DIR_"/>			
Manual Review:	<input type="text" value="Undecidable - review finding and manage i"/>			

Making Mandatory and/or Required guidelines less strict will result in an invalid use of the guideline in the [Parasoft Guideline Re-categorization Plan Report](#) per the requirements outlined by MISRA (see [Guideline Re-categorization Plan](#)). Making required and advisory guidelines stricter is acceptable.

5. Click **Save**.

## Widget Configuration

Add the MISRA Compliance widgets to your dashboard (see [Adding Widgets](#)). The widgets will appear in the Compliance category in the Add Widget overlay:

### Add Widget

Build Results	Categories - Top 5 Table	<p><b>MISRA Compliance - Status</b></p> <p>1 x 1</p> <p>Displays the current MISRA C 2012 compliance status</p> <p><b>Title:</b></p> <input type="text" value="MISRA Compliance - Status"/> <p><b>Filter:</b></p> <input type="text" value="Dashboard Settings"/> <p><b>Period:</b></p> <input type="text" value="Dashboard Settings"/> <p><b>Build:</b></p> <input type="text" value="Latest Build"/> <p><b>Compliance Profile:</b></p> <input type="text" value="*"/>
Code	Compliance by Category	
Compliance	Compliance by Category/Severity	
Defects	MISRA C 2012 - Compliance	
Diagnosics	MISRA Compliance - Guidelines by Status	
Metrics	MISRA Compliance - Percentage	
Policies	MISRA Compliance - Status	
Process Intelligence	MISRA Violations by Category - TreeMap	
Project Center	OWASP Top 10 - Compliance	
Static Analysis (9.x)	Rules - Top 5 Table	
Static Analysis	Rules in Compliance - Summary	
Tests (9.x)		
Tests		
Custom		

### Native DTP MISRA Widget Vs. DTP Workflow

DTP ships with a native [MISRA C 2012 - Compliance widget](#) that is not a part of this artifact. You can view the documentation for this widget for additional information.

Specify the following information when adding the MISRA Compliance - Percentage, MISRA Compliance - Status, and MISRA Violations by Category - TreeMap widgets:

<b>Title</b>	You can rename the widget in the Title field.
<b>Filter</b>	Choose a specific filter or Dashboard Settings from the drop-down menu. See <a href="#">Creating and Managing Filters</a> for additional information.
<b>Period</b>	Choose a specific time period or Dashboard Settings from the drop-down menu.
<b>Build</b>	Choose a specific build from the drop-down menu. The last build is selected by default. See <a href="#">Using Build Administration</a> for additional information about understanding builds.
<b>Category</b>	This setting is available in the <a href="#">MISRA Compliance - Guidelines by Status</a> widget. Choose an individual category or All from the drop-down menu.
<b>Compliance Profile</b>	Specify a compliance profile (see <a href="#">Profile Configuration</a> ). The compliance profile data is used to generate some of the compliance reports.

# Viewing MISRA Compliance Widgets

Each widget provides a different review of the test and analysis data to help you achieve MISRA compliance. The following widgets are shipped with the MISRA Compliance DTP Workflow.

## MISRA Compliance - Status Widget

This widget shows you the general state of compliance. You can add multiple instances of the widget configured to use a different profile, e.g., a profile with disappplied guidelines, to view your current compliance status. Click on the widget to open the [MISRA Compliance Report](#).

The widget can show five possible states:

<p><b>Compliant</b></p> <p>Code meets all guidelines with no deviations or changes to the guideline categories.</p>	 <p>MISRA Compliance ... ☰</p> <p></p> <p><b>Compliant</b></p> <p>Build: atm-2017-06-05 Compliance: MISRA - Comp wit...</p>
<p><b>Missing rule(s) in analysis</b></p> <p>Parasoft code analysis rules documented in your <a href="#">profile</a> were not included in the specified build. Make sure all rules are enabled in C/C++test and re-run analysis.</p>	 <p>MISRA Compliance -... ☰</p> <p>Filter: bank</p> <p></p> <p><b>Missing rule(s) in analysis</b></p> <p>Build: bank-2017-04-11 Compliance: MISRA C 2012</p>
<p><b>Compliant with Deviations</b></p> <p>Code meets all guidelines, but deviations have been applied. Deviations are violations that you have determined to be acceptable (see <a href="#">Deviations Report</a> for additional information about deviations).</p>	 <p>MISRA Compliance ... ☰</p> <p></p> <p><b>Compliant with Deviations</b></p> <p>Build: atm-2017-06-05 Compliance: MISRA - Comp wit...</p>

<p><b>Compliant with Violations</b></p> <p>Code meets all mandatory and required guidelines, but contains violations for advisory guidelines.</p>	 <p>MISRA Compliance ...</p> <p><b>Compliant with Violations</b></p> <p>Build: atm-2017-06-05 Compliance: MISRA - Comp wit...</p>
<p><b>Not Compliant</b></p> <p>Code does not meet all mandatory and/or required guidelines.</p>	 <p>MISRA Compliance ...</p> <p><b>Not Compliant</b></p> <p>Build: atm-2017-06-05 Compliance: MISRA C 2012</p>

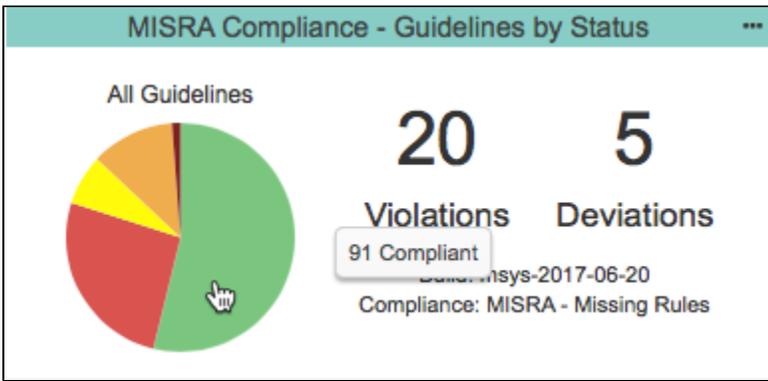
## MISRA Compliance - Percentage Widget

This widget shows the completeness of MISRA compliance as a percentage. Completeness is based on number of guidelines being enforced in the [profile](#). Click on the widget to open the [MISRA Compliance Report](#).



## MISRA Compliance - Guidelines by Status

This widget shows the compliance status for an individual guideline category (Mandatory, Required, or Advisory).



The pie chart can represent up to five different guideline statuses for the selected category:

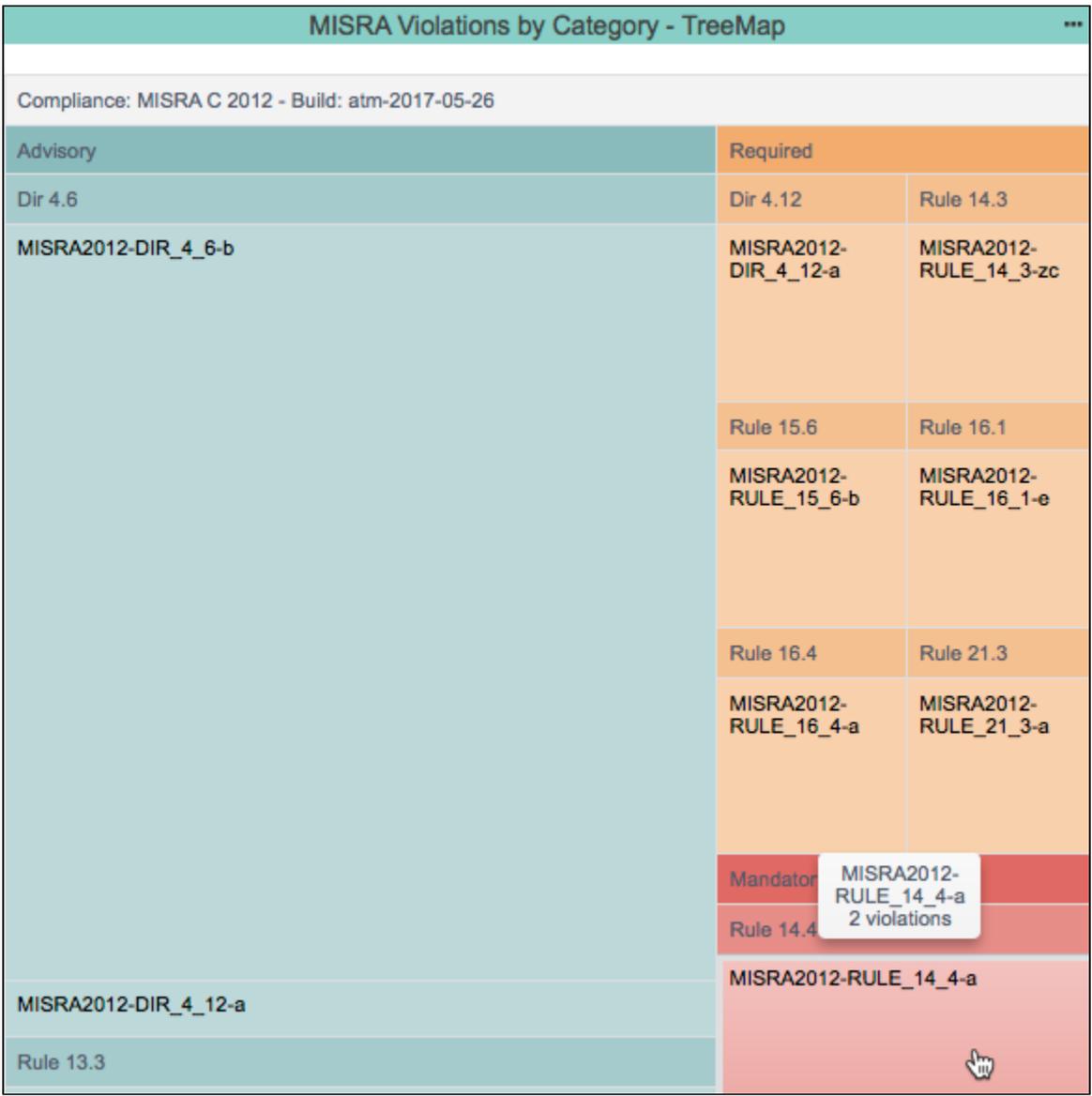
Green	Guidelines that your code is compliant.
Yellow	Guidelines that your code is deviating from but are still considered compliant. A deviation is when the guideline is not being followed according to the Parasoft static analysis rule, but is considered acceptable because it does not affect the safety of the software. Deviations represent Parasoft static analysis rules that have been suppressed.
Orange	Guidelines that your code is considered compliant with, even though the static analysis rules that enforce them contain violations. <b>Only advisory guidelines can have this status.</b>
Red	Guidelines that your code is not compliant with.
Maroon	Guidelines that are specified in the <a href="#">profile</a> , but the Parasoft rule that enforces the guideline are missing.

You can perform the following actions:

- Mouse over a pie slice to view details.
- Click on a section to open the [MISRA Compliance report](#) filtered by the category and status.
- Click on the number of violations counter to open the [MISRA Compliance report](#) filtered by the category and status.
- Click on the number of deviations counter to open the [Deviations Report](#) filtered by the category selected in the widget.

## MISRA Violations by Category - TreeMap Widget

This widget provides a representation of the highest concentration of static analysis violations per MISRA category (mandatory, required, and advisory). The widget also shows the guidelines (e.g., Dir 4.6, Rule 14.3, etc.) within each category in which violations were reported. Finally, the Parasoft rule(s) enforcing each guideline are also presented. Tiles are proportional to the number of static analysis violations reported for each rule.



The widget uses the hierarchy established in the [model profile](#) to correlate rules, guidelines, and categories. You can mouse over a tile in the widget to view the number of violations associated with each rule-guideline-category.

Click on a rule to see the violation in the [Violations Explorer](#).

## Viewing MISRA Compliance Reports

The MISRA Compliance Report provides an overview of your MISRA compliance status and serves as the primary document for demonstrating compliance.

# MISRA Compliance Report

Filter: msys Compliance Profile: MISRA C 2012 Compiler: ADD COMPILER Analysis Tool: Parasoft C++test 10.3.2 Build: msys-2017-06-20

Project Compliance: ✘ Not Compliant

[Guideline Enforcement Plan](#) [Guideline Re-categorization Plan](#) [Deviation Report \(Total: 1115\)](#) [Build Audit Report](#)

MISRA Category:  Compliance:

Guideline	MISRA Category	Compliance	# of Violations ▼	# of Deviations	
				In-Code Suppressions	DTP Suppressions
Rule 12.1	Advisory	<span style="color: orange;">▲</span> Compliant with Violations	2212	0	42
Rule 15.6	Required	<span style="color: red;">✘</span> Not Compliant	2085	0	87
Dir 4.6	Advisory	<span style="color: orange;">▲</span> Compliant with Violations	1255	112	150
Rule 17.7	Required	<span style="color: red;">✘</span> Not Compliant	1252	0	21
Rule 10.1	Required	<span style="color: red;">✘</span> Not Compliant	1170	0	88
Rule 10.4	Required	<span style="color: red;">✘</span> Not Compliant	1119	0	36
Rule 15.5	Advisory	<span style="color: orange;">▲</span> Compliant with Violations	1029	0	18
Rule 10.3	Required	<span style="color: red;">✘</span> Not Compliant	939	0	150
Rule 15.1	Advisory	<span style="color: orange;">▲</span> Compliant with Violations	865	0	0

You can perform the following actions:

- Use the drop-down menus to sort by MISRA Category or by Compliance status.
- Click on a link in the # of Violations, In-Code Suppression, or DTP Suppressions column to view the violations in the [Violations Explorer](#).
- Open one of the MISRA Compliance sub-reports.

The MISRA Compliance Report contains four supporting reports:

- [Guideline Enforcement Plan](#)
- [Guideline Re-categorization Plan](#)
- [Deviations Report](#)

## Guideline Enforcement Plan

The Guidelines Enforcement Plan (GEP) shows which static analysis rules are used to enforce the MISRA guidelines. It is intended to describe how you are enforcing each guideline.

This report uses the data specified in the compliance profile (see [Profile Configuration](#)). In the profile, you can add notes to the Compiler field, such as "no errors" or specific compiler settings that will be applied, to document your plan. These notes appear in the Compiler column.

The Analysis Tool column should refer to the static analysis rule. The Manual Review column should contain any manual verifications that will be performed in addition to the automated checks applied by the compiler and analysis tool.

## MISRA Guideline Enforcement Plan

Compliance Profile: MISRA C 2012    Compiler: ADD COMPILER    Analysis Tool: Parasoft C++test 10.3.2

Guideline	Category	Description	Compiler	Analysis Tool	Manual Review
Dir 1.1	Required	Any implementation-defined behaviour on which the output of the program depends shall be documented and understood			Peer code review procedure + Parasoft DTP Change Reviews
Dir 2.1	Required	All source files shall compile without any compilation errors	No errors		Review compilation errors
Dir 3.1	Required	All code shall be traceable to documented requirements			Parasoft DTP for traceability between tests and requirements and tests and code
Dir 4.1	Required	Run-time failures shall be minimized		MISRA2012-DIR_4_1-a MISRA2012-DIR_4_1-b MISRA2012-DIR_4_1-c MISRA2012-DIR_4_1-d MISRA2012-DIR_4_1-e MISRA2012-DIR_4_1-f MISRA2012-DIR_4_1-g MISRA2012-DIR_4_1-h MISRA2012-DIR_4_1-i MISRA2012-DIR_4_1-j	Undecidable - review finding and manage in Parasoft DTP
Dir 4.2	Advisory	All usage of assembly language should be documented		MISRA2012-DIR_4_2-a	Undecidable - review finding and manage in Parasoft DTP

## Guideline Re-categorization Plan

If you changed any of the MISRA guideline categories (see [Profile Configuration](#)), they will be processed and displayed in this report. Refer to the MISRA standard for additional information about guideline re-categorization plans.

## MISRA Guideline Re-Categorization Plan

Compliance Profile: MISRA C 2012    Compiler: ADD COMPILER    Analysis Tool: Parasoft C++test 10.3.2

MISRA			
Guideline	Description	Original Category	Revised Category
Dir 1.1	Any implementation-defined behaviour on which the output of the program depends shall be documented and understood	Required	Required
Dir 2.1	All source files shall compile without any compilation errors	Required	Required
Dir 3.1	All code shall be traceable to documented requirements	Required	Required
Dir 4.1	Run-time failures shall be minimized	Required	Required
Dir 4.2	All usage of assembly language should be documented	Advisory	Advisory
Dir 4.3	Assembly language shall be encapsulated and isolated	Required	Required
Dir 4.4	Sections of code should not be commented out <sup>***</sup>	Advisory	Advisory
Dir 4.5	Identifiers in the same namespace with overlapping visibility should be typographically unambiguous	Advisory	Advisory
Dir 4.6	typedefs that indicate size and signedness should be used in place of the basic numerical types	Advisory	Advisory

## Deviations Report

Your code can contain violations and still be MISRA-compliant as long as the deviations from the standard are documented and that the safety of the software is unaffected. Deviations are code analysis rules that have been suppressed either directly in the code with comments or in the DTP [Violations Explorer](#) by setting the prioritization to Do Not Show.

Click on the Deviations Report link in the MISRA Compliance report to open the Deviations Report.

## MISRA Deviation Report

Filter: msys Compliance Profile: MISRA C 2012 Compiler: ADD COMPILER Analysis Tool: Parasoft C++test 10.3.2 Build: msys-2017-06-20

MISRA Category: All

Dir 1.1 (Required) Any implementation-defined behaviour on which the output of the program depends shall be documented and understood ⊖ - No Rules Enabled

Dir 2.1 (Required) All source files shall compile without any compilation errors ⊖ - No Rules Enabled

Dir 3.1 (Required) All code shall be traceable to documented requirements ⊖ - No Rules Enabled

Dir 4.1 (Required) Run-time failures shall be minimized ✔ - No Deviations

Dir 4.2 (Advisory) All usage of assembly language should be documented ✔ - No Deviations

Dir 4.3 (Required) Assembly language shall be encapsulated and isolated ✔ - No Deviations

Dir 4.4 (Advisory) Sections of code should not be commented out ! - 4 Deviations

Rule ID: MISRA2012-DIR\_4\_4-a  
 Deviation Type: DTP Suppression  
 Action: Other  
 Risk/Impact: Extreme  
 Reference #: 1234

**Modification History**

User: admin Date: 2017-06-20 03:49:52 PM	Field: priority Old Value: Not Defined New Value: Do not show Comment: Making 250 more violations as do not show
User: admin Date: 2017-06-26 02:08:05 PM	Field: violationAction Old Value: None New Value: Fix
User: admin Date: 2017-06-26 02:08:10 PM	Field: classification Old Value: Undefined New Value: Extreme
User: admin Date: 2017-06-26 02:08:18 PM	Field: violationAction Old Value: Fix New Value: Other
User: admin Date: 2017-06-26 02:08:25 PM	Field: referenceNumber Old Value: N/A New Value: 1234

The Deviations Report shows all guideline IDs and headers, but guidelines that have been suppressed will show additional information.

You can also filter the report by MISRA category.

## Build Audit Report

The Build Audit Report shows an overview of code analysis violations, as well as test results and coverage information, associated with the build. This report also allows you to download an archive of the data, which is an artifact you can use to demonstrate compliance with MISRA during a regulatory audit.

### Runs

Download Archive ▾

To group by a specific column, drag and drop the desired column to this area.

Run Configuration Attributes						Run Information				
Run ID	Run Confi...	Setup P...	Project	Test Co...	Se	Machine	User	Run Date	Run Type	Reports
2014	105	0	atm	MISRA C 2012 Compliance	\$(s... nch)-win32_x86_64 DTP Engine for C/C++	cerberus	lgarg	2017-05-26 13:27:34	Static Analysis	XML   HTML   PDF

Download XML Archive

Download HTML Archive

Download PDF Archive

Download All Archive

In order to download an archive, the build has to be locked. See [Build Audit Report](#) for additional details about this report.