RESORT Static Analysis Toolset

❑ **Tool Name**

- RESORT for C,
  C++, C#
  Java(JSP), R
  Python, JavaScript,
  Flex, ABAP
- RESORT for iOS
  (Swift, Objective-C)
- RESORT for
  Android (Android-
  Java, Kotlin)
- RESORT for JavaFP

❑ **Using RESORT Toolset**

- Source Code
- Build **X**
- Code Analysis
- Code Verification
- Defect Detection
- Defect Report

Based on the uncompiled source code only, RESORT static analysis tool is an integrated static analysis that simultaneously checks Reliability(Coding Standard), Safety(Run-time Error) and Security(Security Vulnerability), and code metrics based on inter-procedural path analysis.

❑ **RESORT Product Features**

- **(No Compile Step)** Works on source code only using "RESORT Code Analysis" technology without building (compile) step
- **(No False Positive)** Inter-procedural Path Analysis
- **(Fully Code Assurance)** All detection of Reliability, Safety, Security, Quality
  - Supporting One Guide to One Rule for readability
- **(Tool Qualification)** ISO26262, IEC61508, EN50128, CWE Compatibility

Reliability (Coding Standard)

- (Automobile) MISRA-C:2012/2004, MISRA-C++:2008
- (Aerospace) JSF++, JPL Java/C, BSSC Java/C
- Java, JS, Python, R, Flex, ABAP, Mobile App (iOS, Android)
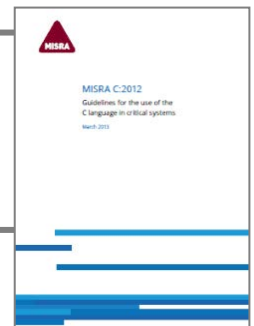
Safety (Run-time Error)

- CWE-658(for C), CWE-659(for C++), CWE-660(for Java), etc.

Security (Security Vulnerability)

- CWE/OWASP(C, C++, C#, Java, JS, Python, R, iOS, Android)
- CERT-C/C++/Java

Code & Quality Metrics

- MISRA Software Metrics, HIS Source Code Metrics
- ISO 9126 Maintainability Quality Metrics

Function Point

- Java Function Point Counting based on IFPUG

Web Dashboard
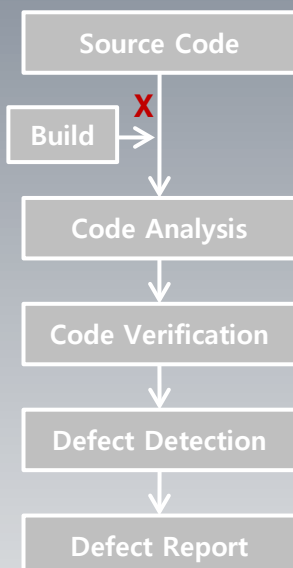
- Code Defect Analysis & Statistics: Assessment of Rule Compliance, etc.
- Code Defect Exception Transaction: Request & Acknowledgment

Coding Standard (MISRA etc.)	Run-time Error (CWE-658, etc.)	Security Vulnerability (CWE List)	Code Defect Repository

RESORT for C, C++, Java Static Analysis Tool	RESORT Dashboard

Reliability	Safety	Security	Code Defect Analysis

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