SafeTI-HALCoGen-CSP 00.01.02

ABSTRACT

The SafeTI HALCoGen Compliance Support Package (CSP) was developed to provide documentation, reports and unit test capability to assist customers using HALCoGen generated software to comply with functional safety standards such as IEC 61508 and ISO 26262.

Contents

1   Introduction

The SafeTI-HALCoGen-CSP features unit level and functional test cases developed by TI and can be run using the included Test Automation Unit (TAU), which utilizes the LDRAUnit from LDRA. The SafeTI-HALCoGen-CSP also provides infrastructure for the customers to add their own test cases using Test XLS template and HALCoGen TAU. For more information, see the *SafeTI-HALCoGen-CSP User's Guide* (SPNU605).

2   New In This Release

The SafeTI-HALCoGen-CSP 00.01.02 is a 30Day Evaluation version released to customers that contains sample documentation, reports, test cases and the HALCoGen Test Automation Unit tool.

3   System Requirements

The system requirements for SafeTI HALCoGen CSP are as follows:
- Operating Systems – Windows® XP, Windows 7
- Memory – 1GB
- Disk Space – 750 MB

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4   Installing SafeTI-HALCoGen-CSP

The latest SafeTI-HALCoGen-CSP version can be downloaded from the following URL:
http://www.ti.com/tool/safeti-halcogen-csp.

The package gets installed by default into the directory c:\ti\Hercules\SafeTI-HALCoGen-CSP\vXX.YY.ZZ.

The LDRAUnit from LDRA is installed by default in the C:\Program Files (x86)\LDRA\ LDRAunit-TI-
Qual_C_CPP_9.x.x.

5   Uninstall HALCoGen

The HALCoGen can be uninstalled one version at a time.

All Programs → Texas Instruments → Hercules → SafeTI-HALCoGen-CSP → vXX.YY.ZZ → uninstall.

6   Release Contents

SafeTI-HALCoGen-CSP version 00.01.02 contains evaluation version of following:

- Software Requirement Document
- Software Architecture Document
- Software Safety Manual
- Dynamic Coverage Analysis Report
    - Statement Coverage
    - Branch Coverage
    - MC/DC Coverage
- Test Manager report
    - Quality Review Report - HIS Metrics
    - Code Review Report - MISRA C
    - Regression Report
- Test results reports
- Traceability report
- Test Automation Unit (TAU)
    - Graphical user interface (GUI) to choose and run the test in the user's environment on target hardware
    - User's Guide
    - Unit level and Functional test cases
    - 30 day evaluation version of LDRAunit version 9.4.3 from LDRA

7   Fixed In This Release

- Removed NDA restrictions in the documents

8   Known Issues and Limitations

None

9   User Notes

HALCoGenTAU is compatible with HALCoGen version 4.00.00 or greater. Some of the test cases will not
execute with HALCoGen versions prior to v4.00.00. The user must uncheck Test cases that are not
applicable with HALCoGen versions prior to v4.00.00 before executing.

10   References

- *SafeTI-HALCoGen-CSP User's Guide* (SPNU605)

IMPORTANT NOTICE

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