

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	1
2	New In This Release	1
3	System Requirements	1
4	Installing SafeTI-HALCoGen-CSP	2
5	Uninstall HALCoGen	2
6	Release Contents	2
7	Fixed In This Release	2
8	Known Issues and Limitations	2
9	User Notes	2
10	References	2

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

4 Installing SafeTI-HALCoGen-CSP

The latest SafeTI-HALCoGen-CSP version can be downloaded from the following URL:

<http://www.ti.com/tool/safeti-halco-gen-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

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as "components") are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of significant portions of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have **not** been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

Products

Audio	www.ti.com/audio
Amplifiers	amplifier.ti.com
Data Converters	dataconverter.ti.com
DLP® Products	www.dlp.com
DSP	dsp.ti.com
Clocks and Timers	www.ti.com/clocks
Interface	interface.ti.com
Logic	logic.ti.com
Power Mgmt	power.ti.com
Microcontrollers	microcontroller.ti.com
RFID	www.ti-rfid.com
OMAP Applications Processors	www.ti.com/omap
Wireless Connectivity	www.ti.com/wirelessconnectivity

Applications

Automotive and Transportation	www.ti.com/automotive
Communications and Telecom	www.ti.com/communications
Computers and Peripherals	www.ti.com/computers
Consumer Electronics	www.ti.com/consumer-apps
Energy and Lighting	www.ti.com/energy
Industrial	www.ti.com/industrial
Medical	www.ti.com/medical
Security	www.ti.com/security
Space, Avionics and Defense	www.ti.com/space-avionics-defense
Video and Imaging	www.ti.com/video

TI E2E Community

e2e.ti.com