**Generic SCons**

**Release Notes**

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| 0.7 | 04-Aug-2015 | Release AL\_ETK\_SCT\_01.14.00 |
| 0.8 | 04-Aug-2015 | Minor modifications in Section 1.2 |
| 0.9 | 01-Sep-2015 | Release AL\_ETK\_SCT\_01.15.00 |
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| 0.15 | 31-May-2016 | Release AL\_ETK\_SCT\_01.20.00 & information about Intermediate release AL\_ETK\_SCT\_01.19.01 |
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| 0.19 | 31-Mar-2017 | Release AL\_ETK\_SCT\_01.24.00 |
| 0.20 | 19-Jul-2017 | Release AL\_ETK\_SCT\_MAINSTREAM\_01.03.00 |
| 0.21 | 02-Feb-2018 | Intermediate Release AL\_ETK\_SCT\_MAINSTREAM\_01.03.05 |

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# Release Notes for AL\_ETK\_SCT\_MAINSTREAM\_01.03.05 – 02 Feb 2018

# Overview

Generic SCons Release AL\_ETK\_SCT\_MAINSTREAM\_01.03.05 contains the following bug fixes.

## Minor Items

* **TaskID pattern matching error:** Task ID mismatch between the components PC and PCA. (Issue 762857& RO 762903 released in AL\_ETK\_SCT\_01.03.05).

# Activation/Usage of new features in GenericScons

It is **strongly** recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Compatibilities

The following tools-versions or later ones are recommended for use under 02\_Development\_Tools:

* **ti\_tools**

[http://ims-adas:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Tools/ti%5ftools/project.pj&projectRevision=1.17](http://mks-psad:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Tools/ti%5ftools/project.pj&projectRevision=1.17)

**Label:** TI\_TOOLS\_02.00.04\_ALGO

* **pdo\_tool**

[http://ims-adas:7001/si/viewproject?projectName=/nfs/projekte1/tools/custom/pdo/distribution/project.pj&projectRevision=1.37](http://mks-psad:7001/si/viewproject?projectName=/nfs/projekte1/tools/custom/pdo/distribution/project.pj&projectRevision=1.37)

**Label:** PDO\_2.14

* **doxygen**

[http://ims-adas:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/STP%5fSharedToolProjects/04%5fEngineering/doxygen/project.pj&projectRevision=1.28](http://mks-psad:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/STP%5fSharedToolProjects/04%5fEngineering/doxygen/project.pj&projectRevision=1.28)

**Label:** AL\_STP\_V01.10.00\_20131030

* **sdlcompiler**

[http://ims-adas:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/STP%5fSharedToolProjects/04%5fEngineering/sdl/project.pj&projectRevision=1.32](http://mks-psad:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/STP%5fSharedToolProjects/04%5fEngineering/sdl/project.pj&projectRevision=1.32)

**Label:** AL\_STP\_V01.10.00\_20131030

* **visual\_studio\_scripts**

[http://ims-adas:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/ETK%5fEngineeringToolKit/04%5fEngineering/CMD%5fTools/visual%5fstudio%5fscripts/project.pj&projectRevision=1.15](http://mks-psad:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/ETK%5fEngineeringToolKit/04%5fEngineering/CMD%5fTools/visual%5fstudio%5fscripts/project.pj&projectRevision=1.15)

**Label:** AL\_ETK\_CMD\_01.03.02\_INT-1

* **movpy**

[http://ims-adas:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/STP%5fSharedToolProjects/04%5fEngineering/movpy/project.pj&projectRevision=1.17](http://mks-psad:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/STP%5fSharedToolProjects/04%5fEngineering/movpy/project.pj&projectRevision=1.17)

**Label:** MOVPY\_PYTHON\_27\_TEST

The following tools-versions are recommended for use under under 05\_Testing:

* **05\_Testing\05\_Test\_Environment\algo\modtests\qac\_tests\common**

<http://IMS-ADAS:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Tools/QAC/project.pj&projectRevision=1.42>

**Label:** AD\_QAC\_CONFIG\_02.02.00\_RELEASED

* **05\_Testing\05\_Test\_Environment\algo\modtests\qacpp\_tests\common**

<http://IMS-ADAS:7001/si/viewproject?projectName=/nfs/projekte1/REPOSITORY/Tools/QACPP/project.pj&projectRevision=1.27>

**Label:** AD\_QACPP\_CONFIG\_02.01.00\_RELEASED

# Release Notes for AL\_ETK\_SCT\_MAINSTREAM\_01.03.00 – 19 Jul 2017

# Overview

Generic SCons Release AL\_ETK\_SCT\_MAINSTREAM\_01.03.00 contains the following new features and bug fixes.

## Major Items

* **Project specific files in mainstream:** Add 'project' parameter in Scons build command for mainstream projects to choose which project to build. (Issue 620240 & RO 641095 released in AL\_ETK\_SCT\_MAINSTREAM\_01.03.00).

## Minor Items

* **Project specific deliverables path:** Deliverable dll’s will be copied in project specific paths. (Issue 640831 & RO 645222 released in AL\_ETK\_SCT\_MAINSTREAM\_01.03.00).

# Release Notes for AL\_ETK\_SCT\_01.24.00 – 31 Mar 2017

# Overview

Generic SCons Release AL\_ETK\_SCT\_01.24.00 contains the following new features and bug fixes.

## Major Items

* **Disable Polyspace 2016a support:** POLYSPACE –Update SCONS polyspace environment for for building DSP library. (Issue 566208 & RO 566210 released in AL\_ETK\_SCT\_01.24.00).
* **Auto integration support:** Introduced setup for auto integration of Generic SCons to component. (Issue 538129 & RO 539820 released in AL\_ETK\_SCT\_01.24.00).

## Minor Items

* **Accelerate Build:** Introduced no\_attrib option from command line to stop launching attrib.exe for read only directories. (Issue 566440 & RO 583953 released in AL\_ETK\_SCT\_01.24.00).
* **Support for Visual studio 2010 setup, FCT\_EBA, GS\_GlobalScheduler and GIA:** QAC/QACPP tool version update is required for full support of Visual Studio 2010 support, Scons build environment setup for FCT\_EBA component for "MFC431" variant in "EUNCAP18" function project. (Issue 554842, 488883, 296372, 562070 released in AL\_ETK\_SCT\_01.24.00).
* **QAC Manual Update:**  QAC manual update with new location of QAC/QACPP setup. (Issue 441807 & RO 566178 released in AL\_ETK\_SCT\_01.24.00).

## Remarks

A new check point of **QAC Tools** is to be included to use the release AL\_ETK\_SCT\_01.19.00 onwards (Ref. section 3) and for using visual studio 2010 solution generated by Generic SCons AL\_ETK\_SCT\_01.22.00.

# Release Notes for AL\_ETK\_SCT\_01.23.00 – 30 Nov 2016

# Overview

Generic SCons Release AL\_ETK\_SCT\_01.23.00 contains the following new features and bug fixes.

## Major Items

* **Automated Polyspace 2016a implementation:** POLYSPACE - Update SCONS environment for Polyspace Code Prover 2016a for DSP only. (Issue 462200 & RO 471514 released in AL\_ETK\_SCT\_01.22.00).

## Minor Items

* **VS2010 improvement:** Visual studio 2010 support fails & Visual Studio 2010 project creation creates .vcxproj files incompatible with visual studio 2015. (Issue 517516, 528143 & RO 518298, 535407 released in AL\_ETK\_SCT\_01.23.00).
* **Support UDW:** MFC431 Algo UDW - Scons support for Algo project framework. (Issue 501003 released in AL\_ETK\_SCT\_01.23.00).

## Remarks

A new check point of **QAC Tools** is to be included to use the release AL\_ETK\_SCT\_01.19.00 onwards (Ref. section 3) and for using visual studio 2010 solution generated by Generic SCons AL\_ETK\_SCT\_01.22.00.

# Release Notes for AL\_ETK\_SCT\_01.22.00 – 06 Oct 2016

# Overview

Generic SCons Release AL\_ETK\_SCT\_01.22.00 contains the following new features and bug fixes.

## Major Items

* **Automated VS2010 solution generation:** Automated visual studio 2010 solution from Generic SCons. (Issue 488074 & RO 513256 released in AL\_ETK\_SCT\_01.22.00).

## Minor Items

* **Enhanced enum parser for RTA xml file**: Covered trailing comma case at the end of last element while parsing enum for generating RTA\_ID\_xxx.xml. (Issue 440274 & RO 491839 released in AL\_ETK\_SCT\_01.22.00).
* **scons.bat improvement:** Activation of @echo off in shared scons.bat file to remove unwanted comments.(Issue 483693 & RO 513255 released in AL\_ETK\_SCT\_01.22.00).

## Remarks

A new check point of **QAC Tools** is to be included to use the release AL\_ETK\_SCT\_01.19.00 onwards (Ref. section 3) and for using visual studio 2010 solution generated by Generic SCons AL\_ETK\_SCT\_01.22.00.

# Release Notes for AL\_ETK\_SCT\_01.21.00 – 02 AUG 2016

# Overview

Generic Scons Release AL\_ETK\_SCT\_01.21.00 and intermediate release AL\_ETK\_SCT\_01.20.01 contain the following new features, changes and bug fixes.

## Major Items

* **Error and Exception Handling :** An exception handler for all configuration items in Generic SCons is implemented for debugging and improving the quality of the tool. (Issue 359009 & RO 480371 released in AL\_ETK\_SCT\_01.21.00).
* **Design documentation:** Final version of Generic SCons design document has been prepared through reverse engineering. (Issue 332445 & RO 465001 Released in AL\_ETK\_SCT\_01.21.00)
  + The following file is updated at docs\generic\_scons\design\_documentation:
    - gscons\_code\_documentation.chm: Source code documentation

**Note:** Design document will be updated depend on the future functional changes.

## Minor Items

* **Polyspace improvements:** Resolved bugs in generated psprj file for Polyspace 2012 & 2014 and "scons -c" command will not remove Ployspace files and folders. (Issue 464422 and RO 466430 released in AL\_ETK\_SCT\_01.20.01 and Issue 487102 and RO 488349 released in AL\_ETK\_SCT\_01.21.00).
* **Cantata improvements:** Resolved bugs in generated MSVC project fie and cleaning of generated results for Cantata unit test. (Issue 443821, 473378 and RO 470578, 486476 released in AL\_ETK\_SCT\_01.21.00).
* **QAC/QACPP improvement for Jenkins Server:** As part of continuous improvement for Jenkins Server prerequisite steps are documented and updated in testing process document. (Issue 476469 & RO 486569 released in AL\_ETK\_SCT\_01.21.00).  
  **Note:** Remote machine LUD4B3DG has been upgraded with recent working sandboxes and supported tools revision as part of periodic maintenance.

## Remarks

Issue 448381 has been cancelled after discussing with initiators. Refer this issue for reason.

# Release Notes for AL\_ETK\_SCT\_01.20.00 – 31 May 2016

# Overview

Generic Scons Release AL\_ETK\_SCT\_01.20.00 and intermediate release AL\_ETK\_SCT\_01.19.01 contain the following new features and bug fixes.

## Major Items

* **RAM/ROM for VME and VH28:** For calculating RAM/ROM, wrappers files are now included and introduced a configurable option for files other than wrapper and aliases are grouped for VME and VH28 cores (Issue 424062 & RO 456540 released in AL\_ETK\_SCT\_01.19.01). Also RAM/ROM summary displayed in console (Issue 462262 & RO 462295 released in AL\_ETK\_SCT\_01.20.00).
* **Stand alone Cantata:** Visual studio removed in the process with configurable option and cantata IDE alone would be used to create test reports and generate test reports. However, the backward compatibilities still exists. (Issue 439749 & ROs 440846 and 462273)
* **GSCons Design documentation:** An initial version of Generic SCons design document has been prepared through reverse engineering. This document would refer the source code documentation in CHM file that is generated using Doxygen tool. (Issue Issue 332445 & RO 462237 released in AL\_ETK\_SCT\_01.20.00)
  + The following files are configured at docs\generic\_scons\design\_documentation:
    - gscons\_design\_documentation.docx: GSCons Design documentation
    - gscons\_code\_documentation.chm: Source code documentation
    - gscons\_doxygen\_config.dox: Doxygen configuration file
    - make\_gscons\_documentation.bat: A batch file which generates the GSCons source code documentation
    - doxy\_style\adcfooter.html: Footer used in Doxygen
    - doxy\_style\conti.png: Continental image file

## Minor Items

* **Common Configuration update**: common\_config.scfg of Generic SCons has been updated to set the compilation flag **fp:strict** globally for the simulation build. (Issue 456002 & RO: 457414 released in AL\_ETK\_SCT\_01.19.01)

## Remarks

A new check point of **QAC Tools** is to be included to use the release AL\_ETK\_SCT\_01.19.00 onwards (Ref. section 3).

# Activation/Usage of new features in GenericScons

It is **strongly** recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Release Notes for AL\_ETK\_SCT\_01.19.00 – 05 Apr 2016

# Overview

Generic Scons Release AL\_ETK\_SCT\_01.19.00 contains the following new features and bug fixes.

## Major Items

* **Polyspace integration:** There are few improvements in the polyspace feature:
  + Polyspace projects are now generated with Generic SCons for all cores C66xx, ARP32, A15, A8, M4 and M3. (Issue 319860 & RO 428587) . This will support to generate for C and CPP source for Polyspace version 2012 and 2014.

Note: Polyspace user guide prepared and configured at docs\generic\_scons\_features\polyspace\GenericScons\_Polyspace\_Integration.pptx

## Minor Items

* **EVM HIL Cortex A15 target**: Resolved a bug on dependency of ECU Lib of Cortex A15. (Issue 377993 (part 2) & RO: 418492)
* **VS Errors and Warnings**: A new feature to display Visual Studio Error and Warnings summary report in build log [sconsbuild.log] for the scons targets. (Issue 410287 & RO: 431678)

Note:Refer the updated document configured at docs\ generic\_scons\ SCons\_build\_environment.docx

* **QAC Improvements:** There is an update for ARM GCC in the QAC feature:
  + Added the missing compiler includes for ARM GCC. (Issue 434255 & RO 440843)
* **Cantata Module tests**: Resolved a bug on Generic SCons in which 'env' is not defined cause by module tests. (Issue 425151 & RO: 437967)

## Remarks

A new check point of **QAC Tools** is to be included to use this release (Ref. section 3).

Issues 332894 and 410306 have been cancelled after discussing with initiators. Refer these issues for reasons.

# Activation/Usage of new features in GenericScons

It is **strongly** recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Release Notes for AL\_ETK\_SCT\_01.18.00 – 22 Jan 2016

# Overview

Generic Scons Release AL\_ETK\_SCT\_01.18.00 contains the following new features and bug fixes.

## Major Items

* **QAC Improvements:** There are few improvements in the QAC features:
  + GSCons common configuration file for adapting new file names of QAC compiler personalities. (Issue 413533 & RO 413535)

Note: scons\_common\_config\common\_config.scfg has been updated with the effect of QAC Tool release (Refer the section 1.3)

* + A bug is resolved by adding xxx\_qac\_ti\_arp32 build target in visual studio. (Issue 354091 & RO 411753)
  + Fixed an error in qac\_ti\_arp32\_analyze\_file for single file QAC analysis from Visual Studio . (Issue 408846 & RO 413672)
* **Auto-release:** Updated GSCons auto release feature to work with new PTC Integrity client (new version of MKS). (Issue 296372 & RO: 413531)

Note: These updates are only tested with CIPP and HLA components.

## Minor Items

* **EVM HIL ARP32 target**: Resolved a bug when cleaning and re-building EVM HIL arp32 target also re-builds dependent ECU arp32 lib. (Issue 345297 & RO: 413110)
* **EVM HIL A8-only target**: Resolved a bug when rebuilt of Sysbios library in EVM HIL A8-Only target. (Issue 378006 & RO 414029)
* Issue 382573 has been cancelled as it was resolved in the release AL\_ETK\_SCT\_01.16.00 itself.
* **GSCons issues:** The following issues are fixed and released as intermediate delivery in AL\_ETK\_SCT\_01.17.01:
  + QAC Issue with EM component (Issue 396753 & RO: 397463)
  + Script error in SEMO component for semo\_algo\_ti\_cortex\_a8 target (Issue 400644 & RO: 400864)

## Remarks

A new check point of **QAC Tools** is to be included to use this release (Ref. section 3).

# Activation/Usage of new features in GenericScons

It is **strongly** recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Release Notes for AL\_ETK\_SCT\_01.17.00 – 05 Nov 2015

# Overview

Generic Scons Release AL\_ETK\_SCT\_01.17.00 contains the following new features and bug fixes.

## Major Items

* **QAC Improvements:** There are few improvements in the QAC features:
  + Generated header files (from .k files) for ARP32 are added into analyzer personality (Issue 391165 & RO: 393387),
  + Source file list are filtered for APR32 (Issue 383395 & RO: 393388),
  + Resolved a bug in QAC on ARP32 (Issue 381668 & RO: 393389),
  + QAC GUI and analyzed result by Generic SCons are linked (Issue 379054 & RO: 393386)

Note: Resolved a bug in cleaning QAC targets.

* **New build target for an ARP32:** A new build target for ARP32 has been integrated which will be used for debugging in EVM HIL simulation environment. (Issue 230582 & RO: 392739). This new feature would be enabled by using configuration item “eve\_hil\_miniapp\_used”, refer the following template files at
  + scons\_templates\03\_Workspace\algo\xxx\ sconstruct\_config.scfg
  + scons\_templates\03\_Workspace\algo\xxx\_sim\xxx\_evm\_hil\vme\evm\_hil\_projects\arp32\ hil\_env\_config.scfg

## Minor Items

* **DebugServerScripting.js:** Resolved a bug in loading EVM HIL VME c674x core when M3 and c674x are enabled. (Issue 377129 & RO: 393421).
* **Directory/File name with dot**: Resolved a bug when a directory or file name with dot (Issue 387069 & RO: 381591)

## Remarks

A new check point of **TI Tools** is to be included to use this release (Ref. section 3).

# Activation/Usage of new features in GenericScons

It is **strongly** recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Release Notes for AL\_ETK\_SCT\_01.16.00 – 30 Sep 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.16.00 contains the following new features and bug fixes.

## Major Items

* **TI-Tools Extractions** (Issue 327173 & ROs: 379758, 380788).
  + Remove standard call of unzip\_tools.bat from build.
  + TI-Tools are recognized as SCons build targets and built when needed.
  + For further details, please refer to scons\_tools\docs\generic\_scons\_features\extract\_archives\GenericScons\_extract\_archives.pptx
* **Auto-release:** As an initial step, GSCons enabled the auto release feature. (Issue 374848 & RO: 374890)

Note: This feature has been tested with CIPP component only.

## Minor Items

* **Ram/Rom allocation:** include FUSI-RAM and -ROM in Lib. (Issue 357109 & RO: 380452)

Note: Bug has been fixed due to FUSI-RAM and -ROM inclusion in GSCons and released as an intermediate delivery AL\_ETK\_SCT\_01.15.01 (Issue 375156 & RO: 375157)

* **QAC single file analysis for M3/M4**: Batch files have been included for QAC single file analysis for M3/M4 via visual studio. (Issue 379046 & RO: 381591). Batch files configured at the below locations in MKS:
  + scons\_common\_scripts\batch\scons\_qac\_ti\_cortex\_m3\_analyze\_file.bat
  + scons\_common\_scripts\batch\scons\_qac\_ti\_cortex\_m4\_analyze\_file.bat
* **Cantata: Error for deleted source:** Bug has been resolved in GSCons for deleted sources from Cantata integration (Issue 348427 & RO 380505)
* **RTA XML format**: Bug has been fixed in GSCons for showing correct XML format in Notepad. (Issue 380147 & RO: 380152)
* **PC simulation plugins and utils**: A new generic feature added for copying all PC simulation plugins and utils for TSA and GS. (Issue 372882 & RO: 379400). Template in GSCons has been updated and configured in MKS at scons\_templates\03\_Workspace\algo\xxx\_sim\sim\_swc\_xxx\simenv\_config.scfg

## Remarks

A new check point of **TI Tools to** be included to use this release.

# Activation/Usage of new features in GenericScons

It is **strongly** recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Release Notes for AL\_ETK\_SCT\_01.15.00 – 01 Sep 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.15.00 contains the following new features and bug fixes.

## Major Items

* **RTA-XML-file generation**: RTA-XML in the location 05\_Deliverables\cfg\algo generated which contains all the enum definitions by parsing the header files configured in sim\_swc\_config.scfg. (Issue 305338 & RO 371281). Refer docs\SCons\_build\_environment.docx, Section 4.1.4.1 for further details.
* **Generic SCons Coding Standard:** Python coding style guidelines added for team to follow and maintain consistency during development. This will improve the code readability and maintainability. (Issue 369291 & RO 371566)
  + MKS Location: docs\generic\_scons\_training\generic\_scons\_coding\_guidelines.pptx

## Minor Items

* **Generic Scons:** Bug related Help menu is fixed. (Issue 364416 & RO 369119)
* **QAC compatibility with M3/M4**: Compatibility issue with M3/M4 builds found in the last QAC integration for Generic SCons release AL\_ETK\_SCT\_01.14.00 is fixed. (Issue 369105 & RO 371591)

## Remarks

The following issues are included in this release:

* **Task 371465 (RO: 371467):**  QAC Manual has been updated with changes done in restructuring the QAC-integration for GenericSCons release AL\_ETK\_SCT\_01.14.00.
* **Issue 309697:** This issue has been cancelled as there is no issue found (Refer **Cancel Reason** in the issue)

# Activation/Usage of new features in GenericScons

It is recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Release Notes for AL\_ETK\_SCT\_01.14.00 – 04 Aug 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.14.00 contains the following new features and bug fixes.

## Major Items

* **QAC restructure:**. QAC build is now fully constructed based on the source-generates-target paradigm. i.e., QAC targets now checking all cpp-files and produce the corresponding .err and a .met files. The report uses these .err and .met files to generate the html and depends on the source files. (Issue 326261 & RO 361687)

**QAC Multi-core feature:** QAC now support multi-core if one specify scons.bat -j N, with N > 1. This leads to reduce the build time and complexity (Issue 328032 & RO 361688 and Issue 337969)

The removal of pal.exe (Issue 337969) from GSCons also done while implementing on the issue 326261 (RO 361687)

Note: generic\_scons\_features\qac\QAC\_manual.docx will be updated later.

* **CortexM3/M4 integration:** CortexM3/M4 library and evmhil are integrated and DebugServer scripting updated for both M3/M4. (Issue 351970 & RO 351977)

## Minor Items

* **CCS EVM Hil-Projects:** LCF-Files added to files displayed in project explorer. (Issue 309970 & RO 356572)
* **Scons:** Bug related to g++ modulesin mingw-module removed. (Issue 320655 & RO 355224)
* **Visual Studio compiler:** handling of incompatible compiler options improved, e.g. out of multiply chosen different warning levels, the highest one is used. (Issue 351514 & RO 353994)
* **GSCons Polyspace integration :** After discussion on the queries and requirements on initial release, there are few improvements done while creating polyspace project for c674x depends on polyspace version and configuration. **(Ref.** Issue: 319860 & RO: 362983)
* **Measfreeze size report generation:** Measfreeze size from SDLs are extracted during build and generated a report. (Issue 314253 & RO 362668) (Note: not included for SR)
* **Generic SCons Lessons Learned document**: An initial template has been added for team to update their experiences during Generic SCons development, maintenance and management for continuous improvement. (Issue 353087 & RO 358908)
  + MKS Location: docs\generic\_scons\ GenericSCons\_Lessons\_Learned.docx

## Remarks

The following issues are included in this release:

* **Issue 345598:**  Supported to adopt GenericScons environment for utilities in TSA.
* **Issue 298970:** This issue has been cancelled as there is no warning found after realizing the new QAC integration (Refer to section 1.1)

# Activation/Usage of new features in GenericScons

It is recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# Release Notes for AL\_ETK\_SCT\_01.13.00 – 29 Jun 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.13.00 contains the following new features and bug fixes.

## Major Items

* **GSCons Supporting Documents:** As part of ETK SCT\_sconstool project, processes for release, testing and quality checklists of release and testing for developers have been defined. (Issue 320535 and ROs 349422 & 344998)
  + docs\processes\GenericSCons\_Release\_Process.docx
  + docs\processes\GenericSCons\_Testing\_Process.docx
  + docs\templates\Issue\_NNNNNN\_Checklist.xlsx
  + docs\templates\Release\_NNNNNN\_Checklist.xlsx
  + docs\release\_notes\checklists\Issue\_Checklists.xlsx
  + docs\release\_notes\checklists\Release\_Checklist.xlsx

## Minor Items

* **Issue 309522 (RO 350035) :** Added built in macros of compilers arp32, arm and c66xx for visual studio project properties as defined for other build targets like c674x and etc.,
* **Issue 350851 (RO 351070):** Enabled TEMPFILE support for TMS470 archive commands
* **Issue 320651 (RO 350940):** Add revision label with module description for all GSCons files.

## Remarks

The following issues have been cancelled:

* **Issues 309532 and 300568**: Refer the issue for reason.

# Activation/Usage of new features in GenericScons

It is recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# 

# Release Notes for AL\_ETK\_SCT\_01.12.00 – 08 Jun 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.12.00 contains the following new features and bug fixes.

## Major Items

* **GSCons Polyspace integration:** As part of applying GSCons Polyspace Integration for all Components, polyspace project has been created for c674x target for all components as an initial implementation for further discussion.

## Minor Items

* **scons.bat:** Modifid shared  scons.bat and scons\_templates\scons.bat files have been updated to remove unwanted comment in console. Please also refer:
  + Issue 334973 and RO 340096
* **Cantata test default behavior:** The default behavior for generate\_html\_use\_data\_option=1 in unit\_test.scfg is set. Please also refer:
  + Issue 312301 and RO 343648
* **Cleaning EVM HIL:** When calling EVMHIL build target with option '-c' the corresponding library will not be cleaned now, rest of the behavior remain the same with EVM HIL targets.
  + Issue 298092 and RO 343711

## Remarks

The following issue has been cancelled:

* **Issue 289320**: **PDO long path Issue,** Refer scons\_tools\docs\SCons\_build\_environment.docx, Section 3 for further details.

# Activation/Usage of new features in GenericScons

It is recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# 

# Release Notes for AL\_ETK\_SCT\_01.11.00 – 23 Apr 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.11.00 contains the following new features and bug fixes.

## Major Items

* **scons.bat:** New Generic version of scons.bat file has been introduced in **scons\_tools\scons\_templates\03\_Workspace\algo\xxx** to optimize the use of shared scons.bat present in **scons\_tools\scons\_common\_scripts\batch**. Component should take the latest checkpoint for revision from 03\_Workspace\algo\xxx, please also refer:
  + scons\_tools\docs\SCons\_build\_environment.docx, Sections 3, 5.1.8.1 and 5.1.8.2
  + Issue 320645 and RO 327965
* **Additional feature for GS component:** As part of applying GSCons for GS Component, an additional features have been included
  + More flexible copy of dlls
* **Canatata:** Support check of sources under 00\_Custom via command line

## Minor Items

None.

## Remarks

None.

# Activation/Usage of new features in GenericScons

It is recommended to replace the existing **04\_Engineering\03\_Workspace\algo\xxx\scons.bat** by **04\_Engineering\02\_Development\_Tools\scons\_tools\scons\_templates\03\_Workspace\algo\xxx\scons.bat**

# 

# Release Notes for AL\_ETK\_SCT\_01.10.00 – 20 Mar 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.10.00 contains the following new features and bugfixes.

## Major Items

## Minor Items

* **Fingerprint**: Add missing dependency between pc simulation and fingerprint files
* **Ram/Rom-allocation**: Bug Fix
* **QAC**: .prj-files contain relative path to .p\_a-file
* **Cantata**:
  + Correction in Coverage in HTML summary
  + Copy of input files from project directory to test execution directory

Please refer to the Release issue 303790 or to

<http://mks-psad:7001/si/viewrevision?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/ETK%5fEngineeringToolKit/04%5fEngineering/SCT%5fSconstools/docs/project.pj&selection=generic%5fscons%5fchange%5flog.txt> for more detailed information on the changes.

## Remarks

* If not done yet, please substitute the existing **03\_Workspace\algo\xxx\scons.bat** in your component by the generic version of scons.bat which can be found under:

**02\_Development\_Tools\scons\_tools\scons\_common\_scripts\batch\scons.bat**

**Advantages:**

* + Help menu will always be up-to-date.
  + No necessity to maintain this file for the component’s team.
* If not done yet, please move to the newest Visual Studio support, see: Chapter IX.

# Activation/Usage of new features in GenericScons

No extra steps are necessary in order to use the new release as is.

In view of Cantata, in order to profit from the changes there, please review the updated version of template

<http://mks-psad:7001/si/viewrevision?projectName=/nfs/projekte1/REPOSITORY/Base%5fDevelopment/05%5fAlgorithm/ETK%5fEngineeringToolKit/04%5fEngineering/SCT%5fSconstools/scons%5ftemplates/05%5fTesting/05%5fTest%5fEnvironment/algo/modtests/cantata%5ftests/xxx/project.pj&selection=unit%5ftest.scfg> .

# Release Notes for AL\_ETK\_SCT\_01.09.00 – 20 Feb 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.09.00 contains the following new features and bugfixes.

## Major Items

* **Default compiler flags:** Compiler flags, which are set per default in GenericScons, have been revised and updated, please check with
  + scons\_tools\docs\SCons\_build\_environment.docx, Section 4.5 and/or
  + scons\_tools\scons\_common\_config\common\_config.scfg
* **QAC:** Additional features, see scons\_tools\docs\qac\QAC\_manual.docx, Sections 2.3.2 and 3.1.4.
* **CCS projects:** New structure in the project explorer, adapted to the one from Visual Studio.

## Minor Items

* **Fingerprint:** Only header files from 01\_Source\_Code\algo\xxx, which are included in the source code, are added to the fingerprint.
* **CCS Projects:** Minor adaption of viewing the source code, seeSection 4.4.3. of scons\_tools\docs\SCons\_build\_environment.docx

Please refer to the Release issue 297475 for more detailed information on the changes.

## Remarks

* If not done yet, please substitute the existing **03\_Workspace\algo\xxx\scons.bat** in your component by the generic version of scons.bat which can be found under:

**02\_Development\_Tools\scons\_tools\scons\_common\_scripts\batch\scons.bat**

**Advantages:**

* + Help menu will always be up-to-date.
  + No necessity to maintain this file for the component’s team.
* If not done yet, please move to the newest Visual Studio support, see: Chapter IX.

# Activation/Usage of new features in GenericScons

No extra steps are necessary. However, reviewing component-specific compiler flags and their suitability to the newly set default flags is **highly** recommended!

# Release Notes for AL\_ETK\_SCT\_01.08.00 – 27 Jan 2015

# Overview

GenericScons Release AL\_ETK\_SCT\_01.08.00 contains the following new features and bugfixes.

## Major Items

* **Default compiler flags:** Compiler flags, which are set per default in GenericScons, have been revised and updated, please check with
  + scons\_tools\docs\SCons\_build\_environment.docx, Section 4.5 and/or
  + scons\_tools\scons\_common\_config\common\_config.scfg

## Minor Items

* **Help Menu:** display of aliases for individual unittests is suppressed.
* **Cantata integration:** New option to support large html summary reports
* **Ram/Rom allocation:** bugfix.
* **Scons-Clean:** bugfix

Please refer to the Release issue 290273 for detailed information.

# 

# Release Notes for AL\_ETK\_SCT\_01.07.00 – 12 Dec 2014

# Overview

GenericScons Release AL\_ETK\_SCT\_01.07.00 contains the following new features and bugfixes.

## Major Items

* **Visual Studio solution:** IntelliSense displays correct (de)activation of code according to compiler switches.

## Minor Items

* **Fingerprint:** generationoutput is suppressed for better handling of ccs projects.

# 

# Release Notes for AL\_ETK\_SCT\_01.06.00 - 21 Nov 2014

# Overview

GenericScons Release AL\_ETK\_SCT\_01.06.00 contains the following new features and bugfixes.

## Major Items

* **New Build Option:** install non-release build targets to Deliverables folder, see

Section 2.1

* **QAC:** Single-file-analysis from Visual Studio and Command line, see Section 2.2.
* **ARP-libraries:** multithread build fixed.
* **AutoRelease:** Initial revision, see Section 2.3:
* **Build time optimization.**

## Minor Items

* **Cantata integration:** Bugfixes.
* **PDO-Tool:** alternateintegrationfor gcc-compiled code
* **CCS:** projects no longer call scons.py, but scons.bat.
* **Ram/Rom-Usage:** Improvement for GCC mapfiles.
* **EVM-Hil:** Support for linker script for functional safety section.

# Release Notes for AL\_ETK\_SCT\_01.05.02 - 17 Oct 2014

# Overview

GenericScons Release AL\_ETK\_SCT\_01.05.02 contains the following new features and bugfixes.

## Major Items

* **QAC**
  + Strong Performance improvement (Issue 267623)
  + Display of compliance report is suppressed (Issue 268210)
  + Please refer to the updated QAC manual for more details: *02\_Development\_Tools\scons\_tools\docs\qac\QAC\_manual.docx.*
* **Help menu:** List of available targets is up to date, see Chapter 2 for activation
* **AutoRelease:** The following issues have been realized:
  + Issues 271832, 271839, 271845, 271867

## Minor Items

* **VS IDE:** No headers from Visual studio displayed any more (Issue 269861)
* Improved error handling with copy action of shared scripts

# Release Notes for AL\_ETK\_SCT\_01.05.01 - 26 Sept 2014

# Overview

GenericScons Release AL\_ETK\_SCT\_01.05.01 contains the following new features and bugfixes.

## Major Items

* QAC-integration:

When executing QAC with GenericScons, all macros being used for the libraries are read by QAC. (Issue 264466)

## Minor Items

* QAC-integration:

If “-j 4” is specified, Scons builds QAC with “-j 1” (Issue 264819).

Anyhow usage of “-j 4” should be avoided; please refer to docs\qac\QAC\_manual.docx for more details

# 

# Release Notes for AL\_ETK\_SCT\_01.05.00 - 18 Sept 2014

# Overview

GenericScons Release AL\_ETK\_SCT\_01.05.00 contains the following new features and bugfixes. Please note that **not** all of those are directly available, but rather have to be activated in the project, see Chapter 2.

## Major Items

* Updates for **QAC-Integration** (Issues 225947, 247887, 247889, 247893)
  + Additional sources to be analyzed (e.g. for wrapper) can be defined
  + Additional exclude paths can be defined
  + QAC-project can be analyzed with visual studio
* Fix of dependencies for build of **ARP-Library** and **sdl-Files** (Issues 252086, 263369)
  + Scons recognizes dependency to header files correctly

## Minor Items

* Bugfix for **Visual Studio Support** (see Issue 260712)
* Error handling with **Cantata** and **QAC** improved (Issues 261449, 263831)
* Update **fingerprint** mechanism (Issues 264505, 264887)
* Custom non-default mode of installing pc-simulation targets to 05\_Testing possible (Issue 264156)
* Removal of warning messages when removing write protection by scons (Issue 255972)

## Non-resolved Issues

* Issue 252693: Find a fix for unsuccessful **ARM-Libraray build** per gcc when path names become too long.

This is **not** a GenericScons problem, but an issue related to gcc.

Possible resolution: move to newer release version of gcc.

See analysis summary for the details.

# Release Notes for AL\_ETK\_SCT\_01.03.01

1.) Major changes in this GenericScons release:

- build output is more condensed.

:It comprises merely information on what is being built

and which source file is being compiled

:If "scons verbose=1 <target>" is executed, build output

is as detailed as before.

- compiler flags for pc simulation targets have been changed.

:/Wp64 has been removed and /W4 has been replaced by /W3

:If you still require /Wp64, please add it to the

component specific simenv\_config.scfg in the corresponding

pc simulation target folders

- Visual studio support

:The visual studio solution containing individual projects

for each simulation dll is replaced by a visual studio

solution containing only one project

:This project provides the possibility to build all ecu

and pc sim targets as well as common aliases like

xxx\_sim\_pc or xxx\_algo

:In order to update, please perform the following steps:

1.) Update 03\_Workspace\algo\xxx\sconstruct\_config.scfg

please add the variable "sim\_proj\_list" as described

in the template scons\_tools\scons\_templates\03\_Works

pace\algo\xxx\sconstruct\_config.scfg

2.) Update 03\_Workspace\algo\xxx\sconscript\_setup\_config

.scfg

please add the following block

{

"name" : "sim",

"copy" : True,

"dest\_folder" : "04\_Engineering/03\_Workspace/algo/"

+ component\_name + "\_sim",

"source" : ["sim/sim\_sconscript/SConscript\_sim.py"]

},

See also template scons\_tools\scons\_templates\03\_Wor

kspace\algo\xxx\sconscript\_setup\_config.scfg.

:After those changes "scons xxx\_ide\_msvc" generates a new

vs solution xxx.sln in 04\_Build\algo\xxx\_sim\pc

- Addition of Aliases

: all aliases are available with the extention by the

variant being required, ie in addition to xxx\_algo you

can also build xxx\_algo\_release and xxx\_algo\_debug. The

same applies to xxx\_sim\_pc and possibly existing

further variants. Moreover "scons release" builds all

targets in the release variant. The same applies for

other variants of the component.

- stop Windows XP support:

GenericScons requires Windows 7 or newer