# Software Version Description for FACE Conformance Test Suite

Revision -, 7/2/2020

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| REVISION | DATE | COMMENTS |
|---|---|---|
| - | 7/2/2020 | Initial release for CTS 3.0.1RC3 |

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# 1. Purpose

The purpose of this document is to identify the version information for Conformance Test Suite (CTS), assumptions made for this release, the included features, and specifically excluded features.

This document does not describe the installation, use, or trouble-shooting of the CTS software. For this information please refer to the accompanying User Manual.

# 2. Identification of Version

The version information for this release is as follows. The repository, git tag, and confluence page information are relevant only within the GTRI source code management system.

| | |
|---|---|
| **Version number:** | 3.0.1RC3 |
| **Project:** | FACE |
| **Repository:** | ConformanceTestSuite |
| **Git Tag:** | cts3.0.1RC3 |
| **CTS 3.0.1RC3 Confluence Page:** | https://confluence.elsys.gtri.org/display/FACECTS/CTS+3.0.1RC3 |

# 3. Inventory of Materials Released

The following items are released with this version and contain the released product contents. All materials released are unclassified. These materials can be found on the CTS 3.0.1RC3 Confluence Page listed above. Creation Date refers to the date the item was uploaded to the CTS 3.0.1RC3 Confluence Page and can be found under the page attachments screen.

**Table 1: Inventory of Materials**

| Title or Filename | Creation Date | Format | Description |
|---|---|---|---|
| FACEConformanceTestSuite_3.0.1RC3Linux.tgz | Jun 23, 2020 14:33 | Compressed TGZ archive | CTS for FACE 3.0.1RC3 End-User Distribution (CENTOS/RHEL 7) |
| FACEConformanceTestSuite_3.0.1RC3Windows.zip | Jun 24, 2020 13:50 | Compressed Zip of Windows executable | CTS for FACE 3.0.1RC3 End-User Distribution (Windows 10) |
| FACE100116_STP.docx | Jul 2, 2020 | Microsoft Word | CTS 3.0.1RC3 Software Test Procedures |
| FACE100117_STR.docx | Jul 2,2020 | Microsoft Word | CTS 3.0.1RC3 Software Test Report |
| FACE100118_SVD.docx | Jul 2,2020 | Microsoft Word | This document |
| CTSD75666181-003_DevGuide.docx | Jul 2,2020 | Microsoft Word | CTS 3.0.1RC3 Development Guide |
| FACEConformanceTestSuite_3.0.1RC3_source.zip | Jun 24, 2020 09:54 | Compressed ZIP archive | Source code |

# 4. Version Updates

This release contains the following changes:
Incorporated the following FACE Consortium PTRs and CRs in this version of CTS:

| PTR ID | Title |
|---|---|
| PTR-CTS3.0.1RC2 – 001 | "Link Limited GSLs to test for fork() followed by exec()" is not including the POSIX library |

| CR# | Consortium Title |
|---|---|
| 397 | Clarify IDL module mappings to Ada packages |
| 401 | Valid IDL enumerations do not compile in Ada |
| 430 | CTS reports PASS when an invalid data model is provided |
| 435 | CTS GUI shows a FAILURE result instead of INSPECTION REQUIRED |
| 436 | gethostname() should not be Inter-UoC restricted call |
| 460 | Using CSP can't be selected for TSS UoC |
| 405 | Hard-Coded Values in C++ OSS CTS Sample Tool Chain Configurations |
| 406 | Hard-Coded Values in Ada OSS CTS Sample Tool Chain Configurations |
| 407 | Hard-Coded Values in Ada Non-OSS CTS Sample Tool Chain Configurations |
| 476 | Cygwin Hosted Tools are Untestable on Windows Using CTS 3.0 |

416 Calling driver code from TSS TPMs
474 Issue with Partition test set for POSIX and ARINC653
402 CTS Should Not Use Obsolete Java Versions

## 5. Version of the FACE Standard

This software is developed based on the FACE Technical Standard, Edition 3.0.

## 6. Included Features in Release

For this release, the CTS supports testing of Units of Conformance (UoCs)/Units of Portability (UoPs) for all segments of the FACE architecture for the C, C++, Ada, and Java languages.

## 7. Known Issues

- The Java Conformance tool may throw an exception during Java Conformance testing on Windows.
- Failed a test result sometimes generates an “Inspection Required” overall test report result.
- Some windows in the CTS GUI may not be sized correctly to fit all of their contents.
- CR-474: ARINC 653 error API is tested for ARINC partition conformance tests.

## 8. Referenced Documents

The documents listed in this section are referenced or used as sources for the information contained in this document.

1. The Open Group, Technical Standard for Future Airborne Capability Environment (FACE™), Edition 3.0

# 9. Definitions

| | |
|---|---|
| AMRDEC | Aviation & Missile Research Development & Engineering Center |
| CTS | Conformance Test Suite |
| DMVT | Data Model Validation Tool |
| DIG | Data Model to IDL Generator |
| FACE | Future Airborne Capability Environment |
| GTRI | Georgia Tech Research Institute |
| GSL | Gold Standard Library |
| OCL | Object Constraint Language |
| OSS | Operating System Segment |
| PEO | Program Executive Office |
| PTR | Problem/Trouble Report |
| UoC | Units of Conformance |
| UoP | Units of Portability |