



World Class Standards

TTCN-3 v4.1.1

TTCN-3 2009 User Conference

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TTCN-3 Maintenance Team

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TTCN-3 Maintenance in 2008

- ❑ **STF 349: March 2008 – Dec. 2008 (83 days)**

- ❑ **Members:**
 - Gyorgy Rethy, Ericsson
 - Thomas Deiß, Nokia Siemens Networks
 - Jens Grabowski, University of Goettingen
 - Ina Schieferdecker, FOKUS

- ❑ **Two TTCN-3 Releases**
 - 3GPP/LTE maintenance update in summer
 - TTCN-3 extension by end of 2008

TTCN-3 v3.4.1

Contains

- (201 873-1) RES/MTS-00108-1: Core Language
- (201 873-4) RES/MTS-00108-4: Operational Semantics
- (201 873-6) RES/MTS-00108-6: Test Control Interfaces
- (201 873-10) RES/MTS-00108-10: Documentation Tags

Addressed mainly 3GPP/LTE CRs

Membership vote procedure: 2008/07/01 - 2008/08/29

- **final publication in Sept. 2008**

TTCN-3 v4.1.1

Contains

- (201 873-1) RES/MTS-00107-1: Core Language
- (201 873-4) RES/MTS-00107-4: Operational Semantics
- (201 873-5) RES/MTS-00107-5: TTCN-3 Runtime Interfaces
- (201 873-6) RES/MTS-00107-6: TTCN-3 Control Interfaces
- (201 873-7) RES/MTS-00107-7: ASN.1 Mapping
- (201 873-7) RES/MTS-00107-9: XSD Mapping

Addressed 130 CRs plus 6 CRs during AbC

Membership vote procedure: start in March

- final publication in June 2009

CRs for v4.1.1

- ❑ **Part 1 - Core**
 - 79 CRs – 67 fixed, 8 rejected, 4 on extension packages
- ❑ **Part 4 – Operational Semantics**
 - 7 CRs – 7 fixed
 - part 1 CRs had implications on part 4
- ❑ **Part 5 – TTCN-3 Runtime Interfaces**
 - 4 CRs – 4 fixed
 - part 1 CRs had implications on part 5
- ❑ **Part 6 – TTCN-3 Control Interfaces**
 - 8 CRs – 8 fixed
 - part 1 CRs had implications on part 6
- ❑ **Part 7 – ASN.1 mapping**
 - 3 CRs – 3 fixed
- ❑ **Part 9 – XSD mapping**
 - 34 CRs – 31 fixed, 2 rejected, 1 duplicate

→ Details see Mantis: <http://t-ort.etsi.org>

- ❑ **Support for library development**
 - **Module interfaces (public, private and friend visibility declarations)**
 - **Formal parameters with default values and named actual parameters**

- ❑ **Convenience features**
 - **Access to message fields**
 - **Referencing type definitions nested in record of & set of types**
 - **Contained subtypes**
 - **Several smaller items (standalone statement blocks, functions with inout & out parameters can be started etc.)**

- ❑ **Addition of C++ mapping in TRI and TCI**

- ❑ **Updates to ASN.1 to TTCN-3 mapping**

- ❑ **Corrigenda and additions to the XSD to TTCN-3 mapping**
 - **e.g. handling namespaces and TTCN-3 module names**

- ❑ **Various clarifications**

❑ What are the packages ?

- **Optional language features of similar character**
- **Published in self-containing ES documents**
 - Contain changes to parts of the ES 201 873 standard or to other package standards

❑ Packages

- **Advanced Parameterization**
 - Parameterization of types
 - Parameterization with types
- **Behavior Types**
 - Types of and references to dynamic elements
- **Configuration and Deployment Support**
 - “Static” test configurations (created and destroyed independent of test cases)
 - Test cases are not allowed to modify (but may extend)

→ drafts available

TTCN-3 Maintenance in 2009

- ❑ **STF 380, Apr. – Dec. 2009, 118 person days**
 - Ina Schieferdecker, Fraunhofer FOKUS
 - Jens Grabowski, University Goettingen
 - Gyorgy Rethy, Ericsson
 - Tibor Csöndes, Ericsson

- ❑ **Resolution of open CRs**
 - 21 open CRs
- ❑ **Cooperation with STF 160 on LTE testing**
- ❑ **Extensions for real-time and performance**
 - Real-time concepts and semantics
 - Timing constraints
 - Support for simulated time
 - Support for performance tests and benchmarks
- ❑ **Reference test suite**
(voluntary, based on inputs from tool vendors)

Upcoming STF 380 sessions

- ❑ April 20 – 23, 2009
- ❑ June 29 – July 10, 2009
- ❑ Aug. 31 – Sept. 11, 2009
- ❑ Nov. 23 – Nov. 27, 2009

→ Please report your issues as CRs in Mantis beforehand

→ <http://t-ort.etsi.org>