



EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE

TC-MTS

Methods for Testing and Specification

32nd Ordinary Meeting, Sophia Antipolis

Subject: Detailed minutes of the 32nd Ordinary Meeting of
ETSI TC-MTS held in Sophia Antipolis on the 14 March 2001.

Source: TC-MTS Chairman

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1 Meeting Formalities

The 32nd meeting of ETSI Technical Committee "Methods for Testing and Specification" (TC-MTS) was held in the Iris Room at ETSI's headquarters in Sophia Antipolis on 14 March 2001 with 20 participants from 7 countries representing the ETSI secretariat and 14 member, observer and specially invited organizations. The meeting was chaired by Dr Dieter Hogrefe of Fraunhofer Gesellschaft, supported by Vice-Chairman Steve Randall of PQM Consultants.

1.1 Chairman's opening remarks

The chairman opened the meeting by welcoming all of the delegates to the meeting and giving a brief introduction to the main agenda items.

1.2 Minutes of 31st TC-MTS Meeting

The minutes of the 31st meeting of TC-MTS were presented by the chairman and approved by the meeting.

1.3 Matters Arising

The open action points from the 31st meeting of TC-MTS were reviewed. The following is a summary of the review:

| Action | Responsibility | Details | Status |
|-------------|---------------------------------|---|---|
| Action 31/1 | Steve Randall | Contact Olle Hydbom at Telelogic to determine whether he can provide a listing of UML symbols as the basis for an extra annex to DEG/MTS-00062. | Completed. See TD12 |
| Action 31/2 | Ericsson, Nokia & Motorola | Determine what, if any, voluntary effort can be provided for the continuation of the work on a graphical presentation format for TTCN-3 | Nokia agreed that they would be willing to provided some voluntary effort. Ericsson and Motorola were not present at the time of this discussion |
| Action 31/3 | Ina Schieferdecker & Paul Baker | Prepare a document identifying the possible changes to Z.120 in support of G-TTCN-3, for input to ITU-T Study Group 10, Q9 | In progress. Document has been started but not completed. |
| Action 31/4 | Paul Baker | Liaise with the rapporteur of Study Group 10 Q9 to arrange a joint Q8/Q9 session at the next Study Group 10 meeting | Completed. A joint meeting took place in Geneva |
| Action 31/5 | Dieter Hogrefe | Disseminate the results of the joint Q8/Q9 meeting to members of TC-MTS | Completed during MTS #32 |
| Action 31/6 | Anthony Wiles | Report to MTS#32 on the progress made in investigating the applicability of TTCN-3 to SIP and OSP conformance test specifications. | Completed. A voluntary group has been setup under TIPHON/STF166. A new work item has been raised for the investigation of the applicability of TTCN-3 to SIP. |

Action 32/1 Colin Willcock Arrange for a formal letter from Nokia stating their willingness to provide voluntary effort for the continuation of the work on the graphical presentation format for TTCN-3 as stated in Action 31/2 above.

Action 32/2 Anthony Wiles Provide interim TTCN-3/SIP feasibility study on the MTS Server when it is available (see Action 31/6 above)

1.4 TC-MTS Terms of Reference

A question had been raised outside the meeting regarding whether the revision of an existing language is still an existing language or a new language entirely. If the latter, then some of MTS's recent activities could be construed as being contrary to this aspect of the ToR. The Chairman proposed that this restriction should be removed from the ToR. The meeting approved this change.

It was also proposed that the term "..test tools" should be replaced in the ToR with "...test systems". This, too, was approved as a change to the ToR.

2 Meeting reports

2.1 Report from Board & OCG Meetings

The Chairman referred members to the Board and OCG meeting reports in TD7, TD8, TD9 and TD10 for details of proceedings at these meetings. He then identified two areas of particular interest to MTS from these reports:

1. The joint meeting held by OCG and the ETSI Board. There were no concrete results but it had helped to foster a closer working relationship between the two bodies
2. The STF resource selection process had been under review at OCG. The TC Chairmen would like to see a reduction in the time between the proposal of new STFs and the start of work in the selected STFs. The current consultation process consumes a considerable amount of time but it does enable all members to express their preferences.

3 Secretariat Matters

3.1 Status of TC-MTS Deliverables

Since the 30th meeting of TC-MTS, there have been 4 MTS documents published:

| Work Item | Document No. | Title | Date |
|-----------------|--------------|--|-------------|
| DEG/MTS-00062 | EG 201 872 | Methodological approach to the use of object orientation in the standards making process | 7-Mar-2001 |
| DTR/MTS-00063-3 | TR 101 873-3 | TTCN-3: Graphical presentation format | 23-Jan-2001 |
| DTR/MTS-00069 | TR 101 874 | TTCN-3: TTCN-2 to TTCN-3 mapping | 19-Dec-2001 |
| DTS/MTS-00070 | TS 101 875 | TTCN-3: Library of additional predefined functions | 19-Dec-2001 |

In addition, the following 2 documents have entered Member Vote and are due for publication during March 2001:

| Work Item | Document No. | Title | Expected Publication Date |
|-----------------|--------------|-------------------------------------|---------------------------|
| DES/MTS-00063-1 | ES 201 873-1 | TTCN-3: Core language | 21-Mar-2001 |
| DES/MTS-00063-2 | ES 201 873-2 | TTCN-3: Tabular presentation format | 21-Mar-2001 |

At MTS #31 a decision was made to include a new annex in DEG/MTS-00062 to provide readers with a "glossary" of UML symbols. It proved to be impossible to make this available before the document was published. A new version including this annex (see TD12) will be approved by correspondence and published in the normal way.

Action 32/3 Steve Randall Raise a Work Item for the revision of DEG/MTS-00062 to add the new annex on UML symbols. Place revision on the MTS server for approval and ensure that it enters the MV and publication process.

3.2 OID2 in ES 201 671

Due to the unclear process for assigning Object Identifiers (OIDs) within ETSI, TC-SEC have used OID 2 in ES 201 671 and this clashes with the use of the same OID in MTS's ETS 300 655, "ASN.1 Library definition". TC-SEC have made an informal request that MTS withdraws ETS-300 655 as it is not maintained or used. The members of MTS agreed that, in order to resolve this problem, they would be willing to do so on receipt of a formal liaison from TC-SEC.

Action 32/4 Anthony Wiles Respond to the e-mail from TC-SEC indicating that TC-MTS would be prepared to consider withdrawing ETS 300 655 if formally requested to do so in a liaison statement.

3.3 Maintenance of PICS

One of the STF experts involved in the preparation of PICS proformas had reported to Anthony Wiles that the use of WinWord SEQ fields to identify individual conformance requirements was causing some problems. ATSS make specific reference to these numbered requirements so they need to be "fixed" at publication. It was reported that the SMS department within the ETSI Secretariat were not willing to do this manually as it can be very time consuming. Steve Randall pointed out that this can be done quite simply with a short macro.

A decision was made by the members of MTS that, if it truly is simple, a macro should be used to fix PICS sequence numbers but that if it proved to be more difficult, a warning should be added to each PICS highlighting the dangers of depending on these numbers remaining unchanged between versions of a particular PICS.

Subsequent investigation outside the meeting showed the problem to be related to the overall process of PICS production and not specifically to the fixing of automatic sequence numbers.

4 MTS Liaisons

4.1 ITU-T

Milan Zoric, who is currently rapporteur for the new edition of Z.105, reported that a new version of Z.105 should be approved by September 2001. Drafts are already in circulation but none of these is the final draft.

Rick Reed reported that there were still a number of open items being considered in Study Group 7 with respect to SDL. These are:

- Relationship between UML and both SDL and MSC;
- Encoding control for SDL and the applicability of ECN;'
- SDL maintenance;
- SDL2003 feature set;
- Time and performance features currently under definition within the EC INTERVAL project;
- Mapping of MSC data to SDL.

Action 32/5 Dieter Hogrefe & Steve Randall Schedule an item on the MTS #33 Agenda for a discussion on the mapping of MSC data to SDL and other related languages.

Action 32/6 Rick Reed & Ina Schieferdecker Arrange for appropriate speakers to attend MTS #33 to lead the discussions on the mapping of MSC data to other languagesl.

5 Work Programme Review

5.1 Status of open Work Items

The current status of open work items is shown in the following table:

| Work Item | Title | Status |
|---|---|---|
| RES/MTS-00063-1 [2] | TTCN-3 Core Language; | <i>Start of work expected April 2001</i> |
| RES/MTS-00063-2 [2] | TTCN-3 Tabular Presentation Format; | <i>Start of work expected April 2001</i> |
| DES/MTS-00063-3 [2] | TTCN-3 MSC Presentation Format; | <i>Stable draft expected September 2001</i> |
| DTS/MTS-00068 | Abstract Syntax Notation 1 (ASN.1) encoding rules; Specification of Encoding Control Notation (ECN); | <i>TB approval expected July 2001</i> |
| REG/MTS-00072 | Guidelines for the use of formal SDL as a descriptive tool | <i>Start of work expected within STF JD in April 2001</i> |
| MI/MTS-00073 | Use of SDL concepts checklist | <i>Start of work expected within STF JD in April 2001</i> |
| DTR/MTS-00074 | TTCN-3 Test System API Development of a standardised test system API for supporting TTCN-3 based test systems. | <i>Start of work expected in June 2001</i> |
| DEG/MTS-00075 (WI approved during MTS #32) | TTCN-3 Training Material | <i>Start of work expected within STF JD in September 2001</i> |
| REG/MTS-00076 (WI approved during MTS #32) | Methodological approach to the use of object-orientation design in the standards making process. | <i>Work completed, TB approval expected in May 2001</i> |

5.2 Status of STF proposals from the FWP 2001 budget

Preparatory meetings for STF-JD (SDL2000) and STF-IW (TTCN-3 Maintenance) will be held immediately after the TC-MTS meeting. EC contributions have meant that it has been possible for the Board/GA to fully fund STF-JD with 9 months of effort during 2001 and 2002.

Although it had been included in one iteration of the STF-JD ToR, the TTCN-3 Style Guide was not part of the approved ToR. Anthony Wiles reported that 3GPP will be using TTCN-3 in 2002 and there was, therefore, a need for an extensive training programme to be prepared for 3G experts. An STF is likely to be required for the development of this material but the 2002 FWP would be too late. It was agreed to pursue funding from the 2001 Contingency Budget for a requirements analysis phase with the training material itself being developed early in 2002.

Action 32/7 Anthony Wiles Produce Terms of Reference for an STF to analyse the requirements for TTCN-3 training within 3GPP by June 2001.

5.3 STF156: Production of TTCN Version 3

Anthony Wiles reported little progress since TC-MTS#31 other than to prepare the TTCN-3 deliverables for Member Vote which is due for completion on 16 March 2001. So far, no MV comments for resolution have been received.

5.4 STF169: ASN.1 Encoding Control Notation for 3GPP and other application

Steve Randall, STF169 leader since January 2001, reported that although progress during 2000 had been according to plan, there were now some significant delays in the schedule and that it had not been possible to approve a draft document in January for publication as a TS. John Larmouth reported that further work within the ITU-T and ISO drafting groups has resulted in a stable document which can be used as the basis for the ETSI TS. If all of the copyright and IPR issues can be resolved, this should be available to enter approval by correspondence by the end of March 2000.

After lengthy discussions involving those members of MTS present and a number who joined the meeting by conference call specifically for this agenda item, it was agreed that the unused STF effort will be used with some voluntary contributions complete some outstanding ECN examples, to prepare some tutorial material and to provide limited support to one or two other TBs that may require assistance in the use of ECN.

6 Graphical format TTCN-3

Ina Schieferdecker gave a short presentation on the progress made in developing the specification of a Graphical presentation Format for TTCN-3 (GFT). She will be presenting details of a GFT RFP to the Object Management Group (OMG) at their April meeting in Paris. Anthony Wiles was asked to prepare a short presentation on the ETSI experience of writing test suites.

There was some concern that there is no workplan available for the international development of GFT. The Chairman undertook to resolve this.

Action 32/8 Dieter Hogrefe Ensure that a workplan for GFT development is produced during the forthcoming GFT workshop to be held in Lübeck

7 Feedback from the PEX group

Milan Zoric reported that the PEX had hosted a meeting of ITU-T Study Group 10/Question 6 in Sophia Antipolis on behalf of TC-MTS. The purpose of this meeting was primarily to discuss the specification of data.

8 Any Other Business

8.1 Chairmanship of TC-MTS

The Chairman reported that his 2nd term of office concludes in October 2001, prior to MTS #33. It was, therefore, necessary to elect a Chairperson to succeed him. As no new candidates had been proposed since MTS #31, Dieter Hogrefe offered to continue for a further term. His candidature was formally proposed by Colin Willcock and seconded by Steve Randall. He was, then, duly elected by the members present to continue as Chairman of TC-MTS.

9 Meeting closure

9.1 Summary of actions

| Action | Responsibility | Details |
|-------------|--------------------------------|---|
| Action 32/1 | Colin Willcock | Arrange for a formal letter from Nokia stating their willingness to provide voluntary effort for the continuation of the work on the graphical presentation format for TTCN-3 as stated in Action 31/2 above. |
| Action 32/2 | Anthony Wiles | Provide interim TTCN-3/SIP feasibility study on the MTS Server when it is available (see Action 31/6 above) |
| Action 32/3 | Steve Randall | Raise a Work Item for the revision of DEG/MTS-00062 to add the new annex on UML symbols. Place revision on the MTS server for approval and ensure that it enters the MV and publication process. |
| Action 32/4 | Anthony Wiles | Respond to the e-mail from TC-SEC indicating that TC-MTS would be prepared to consider withdrawing ETS 300 655 if formally requested to do so in a liaison statement. |
| Action 32/5 | Dieter Hogrefe & Steve Randall | Schedule an item on the MTS #33 Agenda for a discussion on the mapping of MSC data to SDL and other related languages. |
| Action 32/6 | Rick Reed & Ina Schieferdecker | Arrange for appropriate speakers to attend MTS #33 to lead the discussions on the mapping of MSC data to other languagesl. |
| Action 32/7 | Anthony Wiles | Produce Terms of Reference for an STF to analyse the requirements for TTCN-3 training within 3GPP by June 2001. |
| Action 32/8 | Dieter Hogrefe | Ensure that a workplan for GFT development is produced during the forthcoming GFT workshop to be held in Lübeck |

9.2 Confirmation of next meeting

The next (33rd) meeting of TC-MTS is scheduled to take place in Sophia Antipolis 24 - 26 October 2001 and, at Rick Reed's suggestion, will include one day of joint meeting with ITU-T SG10.

9.3 Chairman's closing remarks

The chairman thanked all of the delegates for attending and for contributing to a very profitable and stimulating meeting.

Appendix A List of Attendees

| | | | |
|---------------------------|--------------------|---|-----|
| Chairman: | Dieter Hogrefe | Fraunhofer Gesellschaft | DE |
| Vice-Chairmen: | Steve Randall | PQM Consultants | UK |
| Technical Officer: | Laurent Vreck | ETSI Secretariat | ~ |
| Attendees: | | | |
| In person | Sarolta Dibuz | Ericsson Hungary Ltd | HU |
| | Olivier Dubuisson | France Telecom | FR |
| | Maximilian Frey | Viag Interkom GmbH & Co | DE |
| | Jens Grabowski | Institut für Telematik | DE |
| | Marie Groleau | Matra Nortel Communications | FR |
| | Johan Nordin | Telelogic AB | SE |
| | Juha Parssinen | VTT Information Technology | FI |
| | Rick Reed | TSE Limited | UK |
| | Ina Schieferdecker | GMD-Forschungszentrum Informationstechnik | DE |
| | Reinhard Scholl | ETSI Secretariat | ~ |
| | Anthony Wiles | ETSI Secretariat | ~ |
| | Collin Willcock | Nokia | DE |
| | Milan Zoric | ETSI Secretariat | ~ |
| By conference call | Svante Asplund | LM Ericsson | SE |
| | John Larmouth | OSS Nokalva | USA |
| | Bancroft Scott | OSS Nokalva | USA |
| | Jon Stromme | Telelogic AB | SE |

Number of Attendees: 20

Appendix B Agenda

| Item | Subject | Time | TD Numbers | Resp. |
|-------------------------|---|---------------|------------|--------|
| Day 1: Morning | | | | |
| 1 | Meeting Formalities | 10:00 – 10:15 | | |
| 1.1 | Chairman's opening remarks | | | DH |
| 1.2 | Minutes of TC-MTS#31 | | | DH |
| 1.3 | MTS Terms of Reference | | | DH |
| 2 | Meeting Reports | 10:15 – 10:30 | | |
| 2.1 | Report from OCG Meetings | | | DH |
| 2.2 | Report from Board Meetings | | | DH |
| 2.3 | Reports from other meetings | | | |
| 3 | Secretariat matters | 10:30 – 11:00 | | |
| 3.1 | Status of new MTS deliverables | | | LV |
| 3.2 | OID 2 in ES 201 671 | | | AW |
| 3.3 | Maintenance of PICS | | | AW, GD |
| 4 | MTS Liaisons | 11:00 – 11:15 | | |
| 4.1 | Update on ITU activities | | | MZ |
| Coffee | | 11:15 – 11:45 | | |
| 5 | Work Programme Review | 11:45 – 13:00 | | |
| 5.1 | Status of open work items | | | AA |
| 5.2 | 2001 FWP: Status of STF proposals | | | DH |
| 5.3 | 2002 FWP: New STF proposals | | | DH |
| Day 1: Afternoon | | | | |
| 5 | Work Programme Review (cont.) | 14:00 – 15:30 | | |
| 5.4 | STF156 (TTCN-3) | | | AW |
| 5.5 | STF169 (ASN.1 ECN) | | | AW/SR |
| 5.6 | Presentation of an ASN.1 Encoding Control Notation worked example | | | MT |
| 5.7 | Discussion on the promotion of ASN.1 Encoding Control Notation | | | DH |
| Coffee | | 15:30 – 16:00 | | |
| 6 | Joint MTS/ITU-SG 10 meeting | 16:00 – 18:00 | | |
| 6.1 | TTCN-3 graphical presentation format | | | IS |
| 6.2 | | | | All |

End of Day 1

Day 2: Morning

| | | | | |
|----------|--------------------------------------|---------------|--|-----|
| 7 | General feedback from the PEX | 9:30 – 10:30 | | MZ |
| 7.1 | | | | |
| 8 | Any Other Business | 10:30 – 11:30 | | |
| 8.1 | New items of interest for TC-MTS | | | All |
| 8.2 | Other issues raised by members | | | All |
| 8.3 | AOB | | | All |
| 9 | Meeting closure | 11:30 – 12:00 | | |
| 9.1 | Summary of actions | | | DH |
| 9.2 | Confirmation of next meeting | | | DH |
| 9.3 | Chairman's closing remarks | | | DH |

AA Ari Ahtiainen

AW Anthony Wiles

MZ Milan Zoric

DH Dieter Hogrefe

IS Ina Schieferdecker

LV Laurent Vreck

SR Steve Randall

MT Markku Turunen

GD Gerard Daugan

Appendix C **List of Temporary Documents**

| NUMBER | SOURCE | TITLE |
|---------------|------------------|---|
| TD001 | TB Chairman | Draft Agenda and Timetable |
| TD002 | ETSI Secretariat | List of Temporary Documents |
| TD003 | TB Chairman | Draft MTS#31 Report |
| TD004 | ETSI Secretariat | List of Participants |
| TD005 | ETSI Secretariat | MTS Work Programme |
| TD006 | ETSI Secretariat | Meeting Calendar |
| TD007 | ETSI Secretariat | BOARD#29 Report |
| TD008 | ETSI Secretariat | BOARD#30 Highlights |
| TD009 | ETSI Secretariat | OCG#12bis Draft Report |
| TD010 | ETSI Secretariat | OCG#13 Draft Report |
| TD011 | ETSI Secretariat | MTS Mailing List/Contact List |
| TD012 | STF141 | Proposed Annex B to DES.MTS-00062 Summary of UML Symbology |
| TD013 | STF169 Leader | STF169: Encoding Control Notation For ASN.1: Current Status |
| TD014 | Colin Willcock | The TTCN-3 Runtime Interface (TRI) |
| TD015 | TB Chairman | New Work Item Form |