

# MINUTES

## Standards Liaison Group for Automatic Test

### 2011-1 Meeting

21 July 2011

Venue: Serco Technical and Assurance Services, Waterlooville  
Start: 10:00 am  
Chair: Malcolm Brown DE&S – Head of ATS  
Secretary: Ashley Hulme Cassidian Test Engineering Services Ltd

#### Those present:

Alain	Vervin	Teradyne Ltd
Andrew	Parkinson	Teradyne Ltd
Chris	Gorringe	Cassidian Test Engineering Services Ltd
Ian	Tonge	Serco Technical and Assurance Services
Keith	Ellis	AKE Consultants
Keith	Randall	Rohde & Schwarz UK Ltd
Roland	Andrews	DiagnoSYS Ltd
Simon	Krank	DSG, Sealand
Simon	Tanner	Intepro Systems
Steve	Marshall	DiagnoSYS Ltd
Steve	Kelly	DSG, Sealand
Tom	Phillips	SELEX Galileo
Jochen	Wolle	Rohde & Schwarz GmbH & Co. KG

## 1. APOLOGIES

Apologies for absence were received from:

Alex	Barrett	Raytheon Systems Ltd
Bob	Collins	Ametek
Mike	Davis	SSBV
Vimbai	Fedrick	DE&S
Dave	Joel	Lanson Consultants Ltd
William	Sinclair	SELEX Galileo
Colin	Sycamore	Intepro Systems
Jack	Taylor	SELEX Galileo
Terry	Tinsley	Aeroflex Test Solutions
Bill	Tulley	MBDA (UK) Ltd
James	Wilford	Amtek
Jochen	Wolle	Rohde & Schwarz GmbH & Co. KG

## 2. CHAIR'S INTRODUCTION

The Chair opened the meeting with a round of introductions and welcomed the new members.

### **3. REVIEW OF MINUTES OF LAST MEETING**

The minutes of the 2010-1 meeting were reviewed for content and accuracy. The minutes were corrected (one typographical error) and then accepted as an accurate record of the meeting.

### **4. OVERVIEW OF DE&S (TLS) ACTIVITIES AND UPDATES TO TEST POLICY**

#### a) Organisation

Malcolm explained what was happening in DE&S covering the general changes and what was specifically occurring in his immediate area. In February, he moved from Bath to his new location in Abbey Wood, although his location is likely to change again in 6 weeks time. In April his department came under the Reliability Group headed up by Richard Denning,

There are considerable reductions in manpower in process in the MoD, including planned reductions of 4000 in 2011, 8000 in 2012, and 3000 in 2013. However, after an enthusiastic response to requests for voluntary redundancy, it is most likely that 8000 people will leave in 2011, starting in October. The immediate effect on Malcolm's group is that he will be losing two from his team.

Richard's proposal, which Malcolm believes will be put into practice in the near future, is to split the group into two. One part will come under a new manager to look after the implementation of Policy, Calibration, Safety and ATS. The second part will be headed up by Malcolm, initially as a one-man operation, to work on new projects. These will include new Policy, new Standards and working more closely with the US DoD towards more common standards.

#### b) Policy

Test equipment Policy was passed to Policy Coordination in February ready for publication. There were some detail changes which have been discussed with Malcolm. The Policy calls up various documents including JSP 886 Volume 7 and JSP 509. Def Stan 66-31 Pt 8 is expected to be published in the next 5 weeks and JSP 886 Vol 7 Part 8.06 is expected in approximately 6 weeks. At the moment the Policy is still with the Policy Coordination group and are awaiting feedback from management and a new statement on precedence and authority prior to it being published. Overall, the new Policy and supporting documents should be available in about 8 weeks.

### **5. STATUS REPORT ON DRAFT OSA STANDARD**

A brief status report on draft Defence Standard 66-31 Part 8 was provided, which covers an Open System Architecture for ATS. The document had its final editing and review by Malcolm's group and the draft was submitted to DStan. It is currently available for comment on the DStan website. Publication is expected during late summer/early autumn 2011.

Several SLGAT members had downloaded and reviewed the document. Keith Ellis queried the lack of de-facto standards in the document, as these had been mentioned in the original OSA model report. It was also pointed out that some information on IVI was missing. An action was placed on anyone who

had any specific issues to send them in to DStan as a formal response and to copy Malcolm directly.

## 6. REPORT ON SCC20 ACTIVITIES & 2011–1 (PISCATAWAY) MEETING

### Standard for Signal and Test Definition

#### a) Revision of IEEE 1641.1 (User Guide)

Work has been continuing on the next revision of IEEE 1641.1. This is the current major effort for the TAD subcommittee. The document has been restructured into main topic areas, such as "Signals", "TSFs", "Techniques", etc. Considerable new material has been added to cover the changes and updates to the 1641 standard. Material from AUTOTESTCON papers and similar publications is currently being added.

### Automatic Test Markup Language (ATML)

#### a) Revision of 1671 ATML base standard

The ATML base standard has been revised, approved and published as a result of all the input from developing the dot standards and the ATML demonstrations performed at recent AUTOTESTCON meetings.

#### b) ATML "dot" standards

All the ATML standards are currently being revised to bring them in line with the new ATML base standard. In the mean time, new versions of schemas are available on the IEEE standards website. These versions are not part of the existing approved standards, but are available for convenience to provide a more coherent raft of ATML schemas.

#### c) ATML website information

The ATML website has been converted from a development website to a more user-friendly website. Links are as follows:

ATML Standards: <http://grouper.ieee.org/groups/scc20/ATML/>

ATML Demonstration:

<http://grouper.ieee.org/groups/scc20/ATML/Demonstrations/index.htm>

ATML Home Page: <http://grouper.ieee.org/groups/scc20/tii/>

### Steering Committee

The Steering committee meeting dealt with several routine issues. There was a new version of the Operating Procedures (V16) was approved.

There were also five PARs to be considered:

- a) P1505.3 (corrected from P1505.2), Test Interface Framework & Pin Map for Portable Bench top Systems
- b) P1671.0, User guide for ATML

- c) P1871.1, Recommended Practice for Synthetic Instruments
- d) P1871.2, Recommended Practice for Intrinsic Path Characteristics
- e) P1693, MIPSS (see 7. IEEE P1693)

Four of these items were approved, i.e. a), b), c), and d). The PAR at item e) could not be considered until SCC20 steering agreed to accept responsibility for the project. A motion to accept this project failed (see 7. IEEE P1693) so the PAR could not be considered at this time.

There were two maintenance Items considered and approved for process:

- a) Reaffirmation of IEEE 716, ATLAS
- b) Reaffirmation of IEEE 1445, DTIF

#### New Organisation

A new organisation chart has been produced that shows the various subcommittees and the standards that they are each responsible for. This chart is included with these minutes.

#### New Operating Procedures

Since the adoption of the SCC20 Operating Procedures V16, the SA have introduced new top-level procedures that we have to comply with. SCC20 and the subcommittee operating procedures are to be revised to account for IEEE rules for a quorum for a meeting.

As a consequence of the new IEEE Operating Procedures, each SCC20 subcommittee and working group will be reviewing their procedures to specify their active membership. The new operating procedures have changed such that a quorum is required from the full active membership for a vote to be held, rather than from those attending the meeting. This will result in the rules for active working group and sub-committee membership being applied more rigorously and potentially being amended to ensure that quorum can be achieved by the participating members.

The minutes of the SCC20 2011-1 meeting are available at:

[http://grouper.ieee.org/groups/scc20/11-1\\_Minutes\\_April\\_Piscataway.zip](http://grouper.ieee.org/groups/scc20/11-1_Minutes_April_Piscataway.zip)

## **7. IEEE P1693**

There was a motion to move PAR P1693 from the Instrument and Measurement Society to SCC20.

This resulted in some debate as steering was not clear on why this was considered necessary and what the overall effect would be on SCC20's workload, etc. It was also not clear who wanted this standard.

P1693 is a project to define a standard to define the electrical and mechanical specifications of a modular interconnect packaging system design for Automatic Test System (ATS). It specifically describes a building block approach based upon the integration of several elements. These include the outer enclosure and the inner Eurocard standard mechanical chassis that

forms the mechanical structure of the building block with alignment features to mate with other enclosures, mainly of VXI construction.

Steering resolved to have an electronic ballot in August to decide whether the transfer should occur.

The general consensus is that SCC20 is probably the correct forum for such a standard. However, the PAR had actually expired and would need resurrecting via NesCom. If that is the case, several questions need answering:

- a) Why only VXI – what about LXI, PXI and other standards?
- b) Who actually wants the standard (stakeholders)?
- c) Who is going to do the work—there were almost no working group members in TC8 (of I&M Society) who were prepared to work on the standard?
- d) Why was there no formal request from TC8 to SCC20 to take the PAR?

So this is now a two stage process; 1—SCC20 agreeing that it is the correct forum and prepared to take this PAR and other similar projects, and 2—to determine if this standard is required at all and if so what form should the project take.

Since the Piscataway meeting a formal request to consider taking on the P1693 work has been received from I&M TC8. An electronic steering meeting has been arranged, starting on 1 August 2011, to consider the first issue—SCC20 agreeing that it is the correct forum.

## **8. ANY OTHER BUSINESS**

### **IVI Foundation and LXI Consortium**

Jochen Wolle provided an update on the activities in the IVI and LXI committees:

- a) IVI Foundation:

IVI.NET was released. Currently member companies are prototyping IVI.NET drivers. We expect first drivers to be released in September this year. This will also sync the release of the IVI.NET Shared Components.

VISA—VISA 64bit is done, currently started work on VISA.NET. In addition some minor extensions for PXI and VXI are also included.

HiSLIP (High Speed LAN Interface Protocol) was released, will also be part of LXI (see below).

New work items: Discussion on common standardized file format for large data objects like spectra, waveforms, I/Q data etc. HDF5 format is under investigation (<http://www.hdfgroup.org/HDF5/>).

- b) LXI Consortium

V1.4 of the LXI Standard was successfully voted on and released.

V1.4 has no new technical content, as the purpose of this release was to restructure the standard to make it open for future extensions.

LXI Class C/B/A are dropped and integrated in the LXI core part with 1588 (Class B) and wired trigger bus (Class A) as optional extended functions. Future extended functions will then be added as a separate standard – candidates are HiSLIP, Event Logging and IPv6. Currently working on IPv6

### **Next SCC20 Meeting & AUTOTESTCON**

a) AUTOTESTCON

AUTOTESTCON is being held in Baltimore, MD between 12–15 September.

b) SCC20 2011-2

There will be a meeting of SCC20 and some subcommittees on the preceding Saturday and Sunday (10/11 September). DMC is intending to meet after AUTOTESTCON at the end of the week (probably on Thursday).

### **UnitsML, ATML and 1641**

There has been strong interest in ATML from NASA. One of the issues that they are trying to address is that of expressing units in XML. This is of interest to both ATML and 1641 where XML is used to express units. UnitsML (Units Markup Language) is a language that is intended to be used to express any unit in XML and is the result of an effort by the OASIS Technical Committee of NIST. We have had some discussions with NASA and NIST about the possibility of using UnitsML. It is hoped to arrange a face-to-face meeting during the SCC20 meeting in Baltimore.

### **Use of ATML in Czech Republic.**

The ATML committee have received enquiries about using ATML by a company in the Czech Republic. It is encouraging to see growth in the potential use of ATML in new areas.

## **9. DATE OF NEXT MEETING**

The next meeting will be held in December 2011 (date to be advised).

The Chairman closed the meeting at 1:00 pm

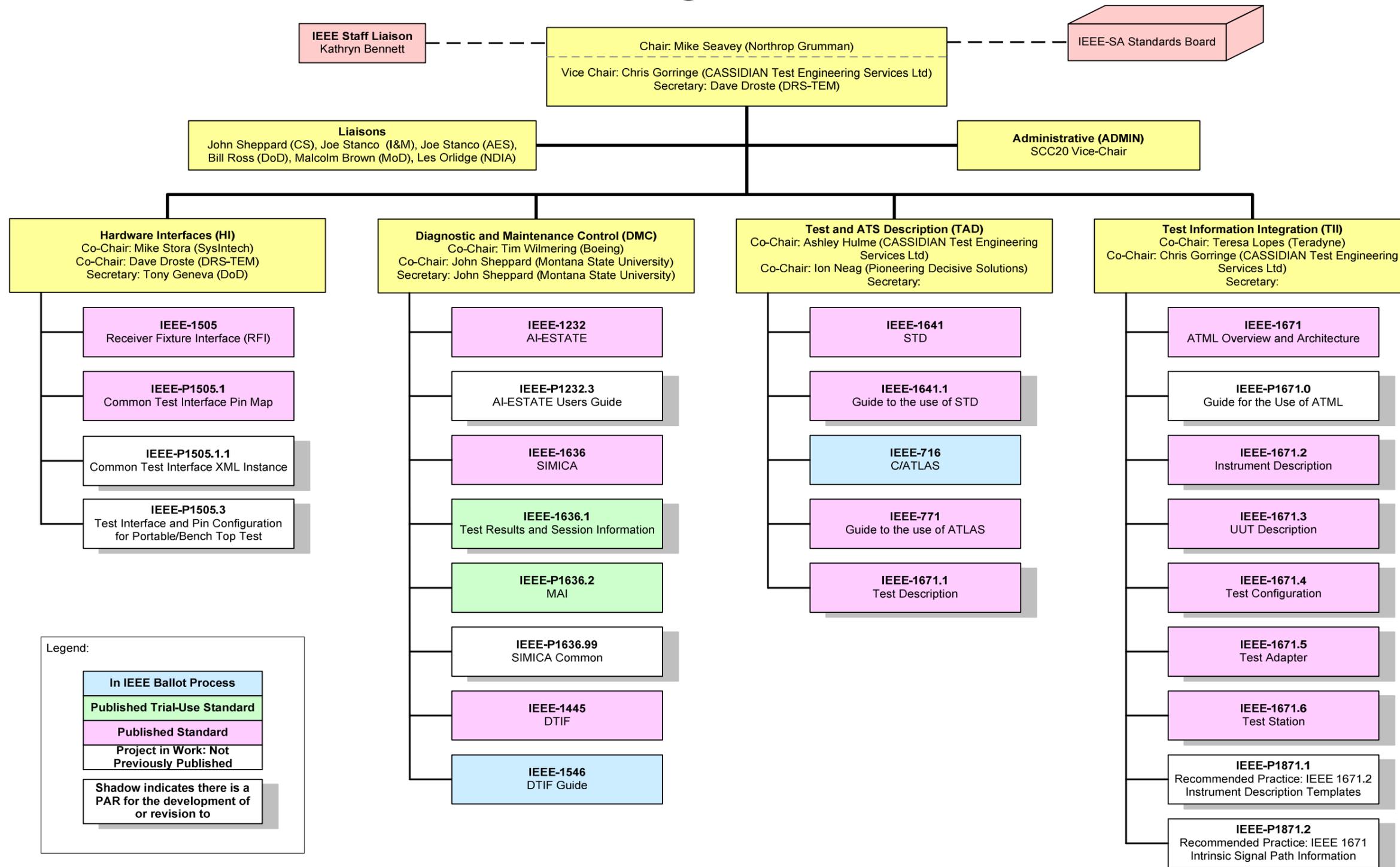
Ashley Hulme  
(Secretary)

Malcolm Brown  
(Chair)

## Circulation List

Alain	Vervin	Teradyne Ltd
Alex	Barrett	Raytheon Systems Limited
Andrew	Parkinson	Teradyne Ltd
Andy	Mugford	BAE SYSTEMS
Arthur	Hann	Independent Consultant
Ashley	Hulme	Cassidian Test Engineering Services Ltd
Bill	Tully	MBDA (UK) Ltd
Bob	Collins	Ametek
Chris	Gorringe	Cassidian Test Engineering Services Ltd
Colin	Sycamore	Intepro Systems
Darren	Nichols	Rohde & Schwarz UK Ltd
Darren	Winter	BAE SYSTEMS
Dave	Joel	Lanson Consultants
Dean	Freestone	GE Aviation
Graham	Ward	EADS Astrium
Howard	Saward	EADS TEST & SERVICES (UK) Ltd
Ian	Tonge	Serco Technical and Assurance Services
Jack	Taylor	SELEX-Galileo
James	Wilford	AMETEK
Jochen	Wolle	Rohde & Schwarz GmbH & Co. KG
Keith	Ellis	AKE Consultants
Keith	Randall	Rohde & Schwarz UK Ltd
Kevin	Clutton	Serco Technical and Assurance Services
Malcolm	Brown	DE&S – Head of ATS
Matt	Cornish	Cassidian Test Engineering Services UK
Mike	Davis	SSBV
Mike	Harrison	Independent Consultant
Paul	Attwell	CIMTEK
Penri	Jones	Cassidian Test Engineering Services UK
Pete	Cassidy	DSG
Peter	Lawson	GAMBICA
Richard	Padley	GE Aviation
Richard	Stonham	BAE SYSTEMS
Roland	Andrews	DiagnoSYS Ltd
Simon	Tanner	Intepro Systems
Steve	Brenner	Terotest Ltd
Steve	Kelly	DSG
Terry	Roblett	EADS Astrium Ltd
Terry	Tinsley	Aeroflex Test Solutions
Tom	Phillips	SELEX Galileo
Vimbai	Fedrick	DE&S
William	Sinclair	SELEX Sensors and Airborne Systems Ltd

# SCC-20 Organization - 2011



Legend:

In IEEE Ballot Process
Published Trial-Use Standard
Published Standard
Project in Work: Not Previously Published
Shadow indicates there is a PAR for the development of or revision to