

IEEE SCC20 17-2 Committee (e.g.; Steering) Meeting

Renaissance Hotel, Schaumburg IL – Connection Room
9:00AM – 11AM, Sunday September 10, 2017
 Minutes

Members for this meeting:

1) Mike Seavey	Chair
2) Chris Gorringe	Vice Chair/P1641 WG Chair
3) Teresa Lopes	Secretary/Treasurer
4) John Sheppard	Computer Society Designated Representative
5) Joe Stanco	I&M and AES Society Designated Representative
6) Bill Ross	US DoD Designated Representative
7) Malcolm Brown	UK MoD Designated Representative
8) Les Orlidge	NDIA Designated Representative
9) Rob Spinner	P1505.1 WG Chair
10) Christy Bahn	IEEE Staff Liaison (Non-Voting Member)

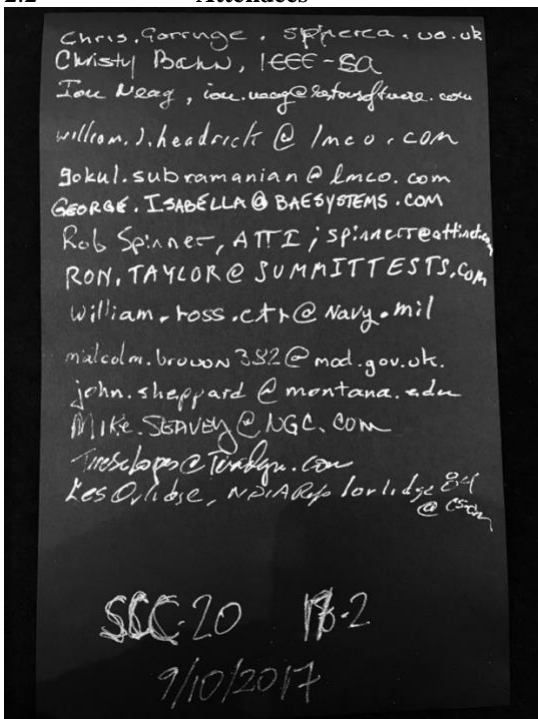
Voting Quorum for this meeting: 5

Meeting:

	<u>Items</u>	<u>Category</u>	<u>Person</u>
1	Call to Order	Action	Mike Seavey
	Meeting called to order at 9:03 AM		
2	Quorum Check	Action	Teresa Lopes
2.1	Introductions/Attendance Sheets	Information	Mike Seavey

There are 8 members in attendance, which satisfies the requirement for a quorum of 5 (quorum is 50% and there are currently 10 members)

2.2 Attendees



3	Agenda		
3.1	Accept Agenda	Action	Mike Seavey
4	Old Business		
4.1	Review/Accept Minutes from Previous Meeting	Action	Teresa Lopes
John Sheppard noted that he is the working group chair for 1636 and 1636.2 working groups. Minutes will be updated Minutes accepted with John Sheppard correction.			
5	Chair's Report & Upcoming Meetings	Information	Mike Seavey
<See SCC20 17-2 Chairs Report and Upcoming Meetings.pptx>			

Discussion:

Several standards will be administratively withdrawn – this means the standard is inactive but can still be acquired and used. Six PARs expire at the end of the year. All but one will be completed before the end of the year. Will extend the 1641.1a PAR 1871.2 initial ballot comments resulted in the document and schema being re-written – need to think about what we can do to prevent this from happening in the future.

1671.1 and 1671.3 recirculation closed on the 9th. There are additional comments on 1671.3 that require recirculation.

1671 Study Group – looking to submit a PAR for an amendment (not a revision) by the end of 2017. Following the pattern of IEEE 802 which consists of a base document and several amendments. Amendment will address proposals formally presented to SCC20.

Need to discuss 1671.2 at some point.

"Next Generation" of AI-ESTATE – new name, new number. AI-ESTATE would continue to live. More streamlined standard addressing diagnostics and prognostics. AI-ESTATE is not being adopted – complexity and IP issues. Concerned about the participation during development.

Upcoming standards activities:

- Cyber Security in Automatic Test Systems recommended practice
 - Start a study group at the 18-1 meeting.
 - Call for participation with Computer Society, I&M Society, AES Society and IVI.
 - Reach out to other IEEE working groups.
- Free/Libre Open Source Software (a.k.a. FLOSS) recommended practice
 - IDA has a report with recommendations
 - Use them, but control them
 - Look at the language in the license that describes what you can and can't do
 - Call for participation with Computer Society, I&M Society, AES Society
 - Reach out to other IEEE working groups
- From NDIA – defines policy, need a standard or recommended practice needs to come from some other group
 - Software Architecture for Synthetic Instrumentation
 - How does this relate to the work being done by Dave Carey and Wade Lowdermilk
 - FPGA Test and Support

Discussion:

- Should be easier to get participation on "new" stuff
- Not getting a lot of proposals for changes to existing standards

Other activities

- Working on the operation manual (stuff that is outside of the operating procedures template)
- Operation procedures will need to be updated in the next 2 years.

Electronic Steering Meeting before end of 2017

- Approval of PAR for 1671-2010 amendment
- Approval of SCC20 Operating Manual
- Anything else – need to know soon, need 30-day notice for meeting

Upcoming Meetings

18-1 Meeting

- Proposal: Teradyne's facility in North Reading, MA – April 24-26, 2018
- Discussion: Why not go back to Europe?
 - Could meet with Standards Board in the Netherlands – June 12-14, 2018
 - Would delay meeting until June which means having to do something else to meet the May 4 SASB deadline.

6	Designated Representative & Liaison Reports		
6.1	U.S. DoD	Information	Bill Ross
<See Sept 2017 SCC20 DoD Report Final.pptx>			
6.2	U.K. MoD	Information	Malcolm Brown
<SCC20 17-2 liaison report.docx>			
6.3	National Defense Industrial Association	Information	Les Orlidge
<See NDIA ATC Liaison report for SCC20 17-2.docx>			
6.4	Computer Society	Information	John Sheppard
<See CS-DR-Report.docx>			

Discussion:

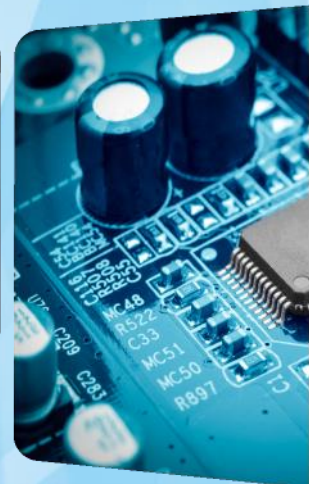
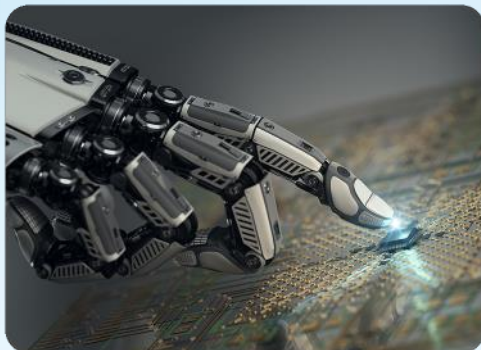
Need new designated representatives from the other two societies (I&M and AES) that sponsor SCC20.

		Information	
7	New Business		
7.1	PAR Extensions P1641.1a	Action	Mike Seavey
Chris Gorrington motions that we accept the PAR extension. Seconded by John Sheppard. Motion passes.			
7.2	PARs	Action	Mike Seavey
None			
7.2	Nomination of Chair for 2018	Action	Mike Seavey
7.3	Election of Vice Chair for 2018	Action	Mike Seavey
7.4	Election of Secretary/Treasurer for 2018	Action	Mike Seavey
Committee remains unchanged for 2018. Standards Board needs to approve Mike Seavey as Chair.			

Discussion:

- Challenge is how to draw in new people. How to we present the work that needs to be done as new and not as a rehashing of work that has already been done.
- Need to look at how we structure our meetings and where we meet

8	Adjournment	Action	Mike Seavey
Meeting adjourned at 10:44 AM			



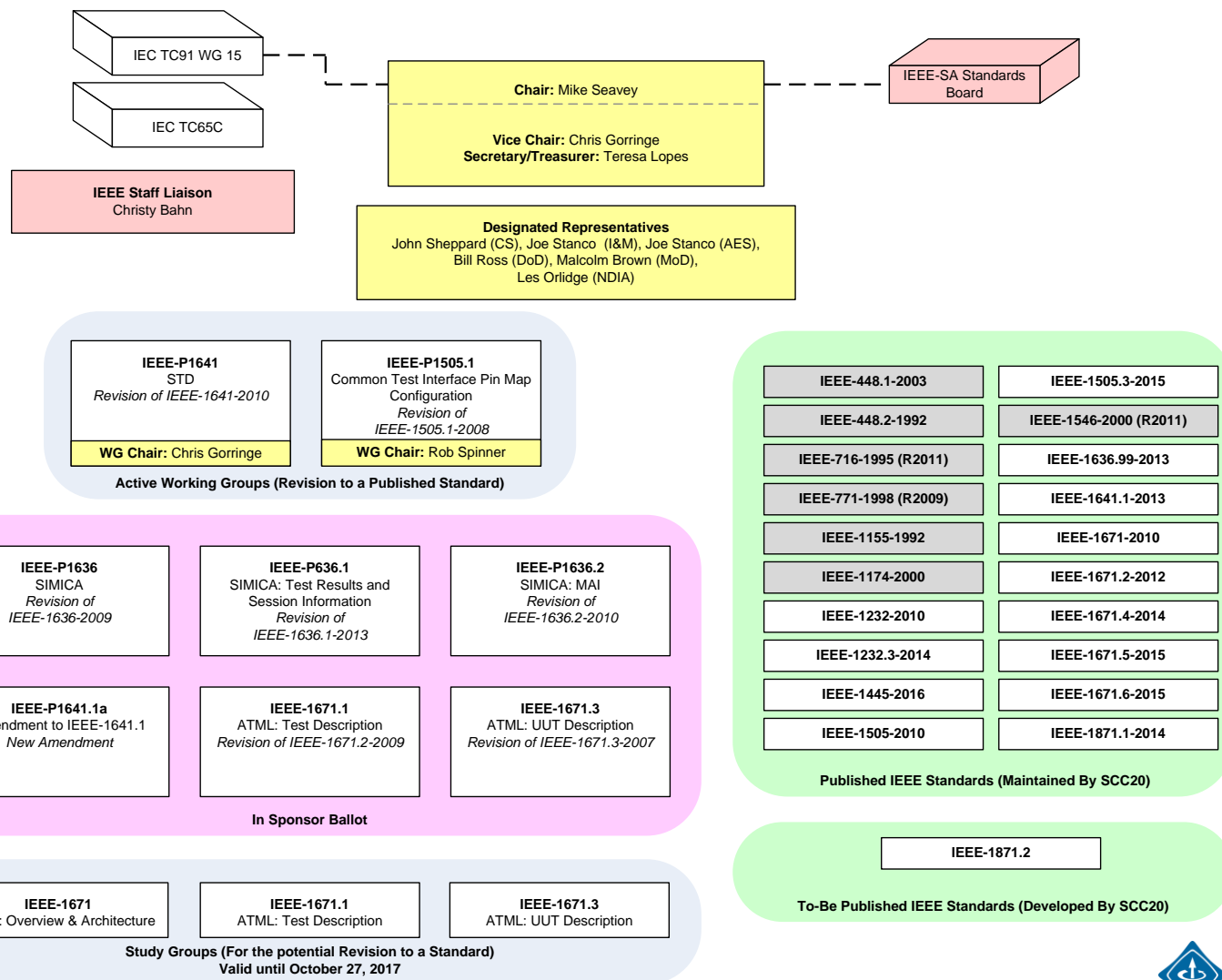
IEEE Standards Coordinating Committee 20

*Test and Diagnosis for Electronic Systems
Chairs Report: September 2017*

Mike Seavey



SCC20 Organization



SCC20 Standards Tracking

Publication	Project	PAR by	PAR Approval Date	PAR Expiration Date	Valid Standard Until	IEC Adoption	Notes
488.1-2003	—	—	—	—	3/19/2019	IEC 60488-1 First Edition 2004-07	Administratively withdraw.
488.2-1992	—	—	—	—	6/17/2020	IEC 60488-2 First Edition 2004-05	Administratively withdraw.
716-1995(R2011)	—	—	—	—	12/31/2021	IEC 61926-1 Ed. 1.0	Administratively withdraw. Letters will be written to the IEEE & the IEC
771-1998(R2009)	—	—	—	—	12/9/2019	—	Administratively withdraw. Letter will be written to the IEEE
1155-1992	—	—	—	—	12/31/2018	—	Administratively withdraw.
1174-2000	—	—	—	—	3/19/2019	—	Administratively withdraw.
1232-2010	—	2016	—	—	12/8/2020	IEC 62243 Ed. 2.0	
1232.3-2014	—	2020	—	—	12/31/2024	—	
1445-2016	—	—	—	—	12/8/2026	IEC 61445 Ed 1.0	IEEE Published February 2017
1505-2010	—	2016	—	—	9/30/2020	IEC 63004 Ed 1.0	
1505.1-2008	P1505.1	—	December 5, 2015	December 31, 2019	12/31/2018	IEC 63003 Ed 1.0	Document being finalized to go to Sponsor Ballot, Steering approved at 17-1 meeting
1505.3-2015	—	2021	—	—	12/31/2025	—	
—	P1514	—	—	—	—	—	PAR Withdrawn
1546-2000(R2011)	—	—	—	—	12/31/2021	—	Administratively withdraw. Letter will be written to the IEEE
1636-2009	P1636	—	December 5, 2015	December 31, 2019	12/31/2019	IEC 61636 Ed. 1.0	Document in Sponsor Ballot 7/24-9/8
1636.1-2013	P1636.1	—	December 7, 2016	December 31, 2020	12/31/2023	IEC 61636-1 Ed. 1.0	Document in Sponsor Ballot 7/24-9/8
1636.2-2010	P1636.2	—	August 23, 2013	December 31, 2017	12/31/2020	—	Document in Sponsor Ballot 7/24-9/8
1636.99-2013	—	—	—	—	12/31/2023	IEC 61636-99 Ed. 1.0	
1641-2010	P1641	—	December 7, 2016	December 31, 2020	6/17/2020	IEC 62529 Ed. 2.0	
1641.1-2013	—	2019	—	—	12/31/2023	—	
—	P1641.1a	—	December 11, 2013	December 31, 2017	—	—	Document in PreBallot; Ballot Pool Formed, in MEC
1671-2010	—	—	—	—	9/30/2020	IEC 61671 Ed 1.0	Study Group Formed at 17-1 Meeting
1671.1-2009	P1671.1	—	June 17, 2010	December 31, 2017	12/31/2019	—	Document in Ballot Recirculation until 9/9
1671.2-2012	—	2018	—	—	12/31/2022	IEC 61671-2 Ed 1.0	
1671.3-2007	P1671.3	—	June 17, 2010	December 31, 2017	12/31/2018	—	Document in Ballot Recirculation until 9/9
1671.4-2014	—	2020	—	—	12/31/2024	IEC 61671-4 Ed 1.0	
1671.5-2015	—	2021	—	—	12/31/2025	IEC 61671-5 Ed 1.0	
1671.6-2015	—	2021	—	—	12/31/2025	IEC 61671-6 Ed 1.0	
1871.1-2014	—	—	—	—	12/31/2024	—	
—	P1871.2	—	June 16, 2011	December 31, 2017	—	—	Document Submitted to RevCom 5/24, on Sept 6 Agenda
As of 9/6/2017		Discuss	In Publication	PAR due to expire in 2017	In ballot	IEC TC91 WG 15 IEC TC65C	Design Automation: Testing of Electro technical Products Industrial Networks



SCC20 Standards Tracking

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488.1-2003	3/19/2019	IEC 60488-1 First Edition 2004-07	Administratively withdraw.
488.2-1992	6/17/2020	IEC 60488-2 First Edition 2004-05	Administratively withdraw.
716-1995(R2011)	12/31/2021	IEC 61926-1 Ed. 1.0	Administratively withdraw. Letters will be written to the IEEE & the IEC
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SCC20 Standards Tracking

Publication	Project	PAR by	PAR Expiration Date	Valid Standard Until	IEC Adoption	Notes
1232-2010	—	2016	—	12/8/2020	IEC 62243 Ed. 2.0	
1232.3-2014	—	2020	—	12/31/2024		
1445-2016	—	—	—	12/8/2026	IEC 61445 Ed 1.0	IEEE Published February 2017
1505-2010	—	2016	—	9/30/2020	IEC 63004 Ed 1.0	
1505.1-2008	P1505.1	—	December 31, 2019	12/31/2018	IEC 63003 Ed 1.0	Document being finalized to go to Sponsor Ballot, Steering approved at 17-1 meeting
1505.3-2015	—	2021	—	12/31/2025		
—	P1514		—	—		PAR Withdrawn
1546-2000(R2011)	—		—	12/31/2021		Administratively withdraw. Letter will be written to the IEEE

SCC20 Standards Tracking

Publication	Project	PAR by	PAR Expiration Date	Valid Standard Until	IEC Adoption	Notes
1636-2009	P1636	—	December 31, 2019	12/31/2019	IEC 61636 Ed. 1.0	Document in Sponsor Ballot 7/24-9/8
1636.1-2013	P1636.1		December 31, 2020	12/31/2023	IEC 61636-1 Ed. 1.0	Document in Sponsor Ballot 7/24-9/8
1636.2-2010	P1636.2	—	December 31, 2017	12/31/2020		Document in Sponsor Ballot 7/24-9/8
1636.99-2013	—		—	12/31/2023	IEC 61636-99 Ed. 1.0	
1641-2010	P1641		December 31, 2020	6/17/2020	IEC 62529 Ed. 2.0	
1641.1-2013	—	2019	—	12/31/2023		
—	P1641.1a	—	December 31, 2017	—		Document in PreBallot; Ballot Pool Formed, in MEC
1671-2010	—		—	9/30/2020	IEC 61671 Ed 1.0	Study Group Formed at 17-1 Meeting
1671.1-2009	P1671.1	—	December 31, 2017	12/31/2019		Document in Ballot Recirculation until 9/9
1671.2-2012	—	2018	—	12/31/2022	IEC 61671-2 Ed 1.0	
1671.3-2007	P1671.3	—	December 31, 2017	12/31/2018		Document in Ballot Recirculation until 9/9
1671.4-2014	—	2020	—	12/31/2024	IEC 61671-4 Ed 1.0	
1671.5-2015	—	2021	—	12/31/2025	IEC 61671-5 Ed 1.0	
1671.6-2015	—	2021	—	12/31/2025	IEC 61671-6 Ed 1.0	
1871.1-2014	—	—	—	12/31/2024		
—	P1871.2	—	December 31, 2017	—		Document Submitted to RevCom 5/24, on Sept 6 Agenda
As of 9/6/2017		Discuss	PAR due to expire in 2017	In ballot	IEC TC91 WG 15 IEC TC65C	Design Automation: Testing of Electro technical Products Industrial Networks

Standards Activities

Since the 17-1 Meeting

- IEEE Std 1445™-2016 (DTIF) was published in February 2017
- P1871.2 Intrinsic Path Recommended Practice
 - Resolving initial ballot comments resulted in the document and schema basically being rewritten
 - The revised document and schema was recirculated, the additional comments were addressed, and the document was submitted to RevCom
 - September 6 RevCom Telecon
 - **Approved**
 - September 28 IEEE-SA Telecon

Standards Activities

Since the 17-1 Meeting

- P1671.1 ATML Test Description Revision
 - Document was balloted, and has gone through ballot resolution, the document has been recirculated (Closed September 9)
 - Additional Comments Received
 - Preparation for submittal to RevCom is underway
 - Study Group was formed at 17-1 meeting
 - Study Groups are for valid for 6 months
 - Outcome is a PAR decision (Y/N)
- P1671.3 ATML UUT Description Revision
 - Document was balloted, and has gone through ballot resolution, the document has been recirculated (Closed September 9)
 - Additional Comments Received
 - Preparation for submittal to RevCom is underway
 - Study Group was formed at 17-1 meeting

Standards Activities

Since the 17-1 Meeting

- P1641.1a STD Users Guide Amendment
 - Document cleared MEC Sept 9. The Sponsor Ballot pool is formed. In Pre-ballot stage
 - This PAR expires in 2017
- P1636, P1636.1, and P1636.2 –The SIMICA Family of Standards
 - The documents, schemas, and ontologies and are in Sponsor Ballot
 - These three are being run simultaneously
 - Initial Sponsor ballot closed September 8
 - 1636 – 8 comments
 - 1636.1 – 15 comments
 - 1636.2 – 10 Comments
 - BRC will start immediately after Autotestcon – Electronically

Standards Activities

Since the 17-1 Meeting

- P1505.1 RFI Pin Map
 - Document still being prepared for submittal to MEC
 - Received Steering Approval at the 17-1 Meeting to proceed to Sponsor Ballot
 - I have had conversations with Steve
- P1641 STD Revision
 - No action since the 17-1 meeting

Standards Activities

Since the 17-1 Meeting

- 1671 ATML Study Group (IEEE Std 1671)
 - I Received No Additional Input Since the 17-1 meeting
 - I am looking at submitting a PAR for an Amendment to IEEE Std 1671-2010 by the end of 2017
 - The IEEE Std 1671-2010 document is 387 pages
 - Following suit with IEEE 802; which consists (for each dot standard) of a Document and several (50+ in some cases) Amendments.
 - This Amendment will address:
 - Items discussed during the 17-1 Study Group meeting, and
 - Proposals for change formally presented to SCC20

Standards Activities

Upcoming

- Automatic Test Markup Language (ATML)
 - I would like to discuss 1671.2 at some point

1671-2010	—		—
1671.1-2009	P1671.1	—	December 31, 2017
1671.2-2012	—	2018	—
1671.3-2007	P1671.3	—	December 31, 2017
1671.4-2014	—	2020	—
1671.5-2015	—	2021	—
1671.6-2015	—	2021	—

- Receiver Fixture Interface (RFI) IEEE Std 1505-2010
 - I would like to discuss 1505 at some point

Standards Activities

Upcoming

- ‘Next Generation’ of AI-ESTATE
 - AI-ESTATE is IEEE Std 1232-2010
 - ‘Next Generation’ would be IEEE PXXXX
 - New Name, New Number
 - Study Group – possibly start at the 18-1 meeting
 - Call for Participation with our IEEE Sponsorship, the:
 - Computer Society
 - I&M Society
 - AES Society
 - Work would start after the SIMICA Family of Standards in Sponsor Ballot are published

Call for Participation Observation: Few responses, little participation (electronically only), no face-to-face meetings without funding, foreign to US/UK academic, no myProject access, no SA memberships...



Standards Activities

Upcoming

- Cyber Security in Automatic Test Systems (CS/ATS) Recommended Practice
 - Study Group – possibly start at the 18-1 meeting
 - Call for Participation with our IEEE Sponsorship, the:
 - Computer Society
 - I&M Society
 - AES Society
 - Call for Participation with the IVI Foundation
 - Are there any other IEEE WGs doing anything in Cyber Security?
- Free/Libre Open Source Software (aka, FLOSS, FOSS or OSS) and Automatic Test Systems Recommended Practice
 - Institute for Defense Analysis (IDA) Report - recommendations
 - Study Group – possibly start at the 18-1 meeting
 - Call for Participation with our IEEE Sponsorship, the:
 - Computer Society
 - I&M Society
 - AES Society
 - Are there any other IEEE WGs doing anything in FLOSS/FOSS/OSS?



Standards Activities

Upcoming – A Potential SCC20 Path Forward

Work

- ‘Next Generation’ of AI-ESTATE
- Cyber Security in Automatic Test Systems (CS/ATS)
- Free/Libre Open Source Software (aka, FLOSS, FOSS or OSS) and Automatic Test Systems
- IEEE Std 1641 – Signal and Test Definition (STD) & Users Guide
- Software Architecture for Synthetic Instrumentation (From NDIA)
- FPGA Test and Support (From NDIA)

Standards Activities

Upcoming – A Potential SCC20 Path Forward

Finish

- SIMICA – Done after publication
- ATML (Standards and Recommended Practices) – Done after:
 - amendment to base document published
 - 1671.1 & 1671.3 amendments
- DTIF – Done
- C/ATLAS & Users Guide - Done
- RFI – Done after P1505.1 publication
- AI-ESTATE – Done
- IEEE-488, 1155, 1174 – Withdrawn

My Related Activities

Since the 17-1 Meeting

- The Instrumentation Technology and Economy Institute (ITEI) in Beijing, China
 - ITEI adopted IEC 60488 (-1 & -2) as a Chinese National Standard
 - The IEEE inquired to determine if ITEI was interested in adopting more IEEE standards, or even participating in WGs.
 - I developed and am maintaining an “SCC20 External Overview.ppt” that was provided for the IEEE representative (Walter Sun) to present to the folks at ITEI. The 45+ slides cover:
 - Background, What are Standards ?, Functions of Standards, Benefits of Standards, Who do Standards Benefit ?
 - Standards Development, Benefits of Standards Participation
 - SCC20, Scope, Officers and Members, The Standards SCC20 is developing or maintains
 - SCC20 Committee, How to get Involved, Contacts, SCC20 Chair Information



My Related Activities

Since the 17-1 Meeting

- IEEE Std 488.1 & IEEE Std 488.2 (IEC 60488-1, -2)
 - I was contacted by the IEEE SA SCC coordinator (Kevin Lu) asking if SCC20 planned on submitting a revision PAR for these standards (as well as for 1155 and 1174)
 - I indicated we were not, and suggested these be administratively withdrawn by the IEEE
 - Neither the IEEE or ITEI has an issue with the recommendation

My Related Activities

Since the 17-1 Meeting

- Collaboration with IEC TC91 WG 15
 - A WG 15 meeting was held Friday June 16, in Sapporo Japan.
 - I provided a set of SCC20 status slides and scheduled to call in Thursday night my time
 - Note: Jodi Haasz no longer handles IEC, Erin Spiewak is now the point of contact
 - I called in from home, however the Hotel did not provide a connection to the conference room
 - I later received apologies and the minutes to the 45 minute meeting
 - The next WG 15 will be held Thursday October 19, in London England.
 - Chris plans on attending , I will try and call in

My Related Activities

Since the 17-1 Meeting

- “Automatic Test System IEEE and IEC Related Standards”
 - Was presented by Ion and myself on May 3rd as part of the Teradyne TIM 2017
 - Both as a Paper, Presentation and a Poster Session
- Collaboration with SCC21 (fuel cells, photovoltaics, dispersed generation, and energy storage)
 - IEEE Std 1547 includes defining Test Requirements
 - IEEE Std 2030 Smart Grid
- Collaboration with SCC18 (represents the IEEE on matters with the National Fire Protection Association)

My Related Activities

Upcoming

- SCC20 Operation Manual
 - This is NOT the SCC20 or WG Operating Procedures...
 - I am in the process of finalizing a draft Operation Manual that I would like to bring to Steering for approval (Not at this meeting)
 - Note: IEEE-SA AudCom does not approve or review Operation Manuals
- Upcoming Electronic Steering Meeting
 - I am planning on calling an electronic steering meeting before the end of the 2017 calendar year to address:
 - Approval to submit a PAR for the Amendment to IEEE Std 1671-2010
 - Approval of an SCC20 Operating Manual
 - Other?

My Related Activities

For Disclosure

- I am an technical program Co-Chair of:



And



My Related Activities

For Disclosure

- I am the National Defense Industry Association (NDIA) Automatic Test Committee Project Lead for:
 - Standardized Software Architecture for Synthetic Instrumentation

SASB Deadlines and Meetings

2017

Deadline for Submission	Meeting
December 20, 2016 ✓	January 30: NesCom/RevCom telecon ✓
February 10, 2017 ✓	March 21-23: Shenzhen China ✓
March 24, 2017 ✓	May 4: NesCom/RevCom telecon ✓
May 5, 2017 ✓	June 13-15: Milan Italy✓
July 28, 2017✓	September 6: RevCom telecon✓ September 12: NesCom telecon September 19: AudCom telecon
	September 28: SASB telecon
→ October 16, 2017	December 4-6: Piscataway NJ

✓ = Meeting or deadline has occurred

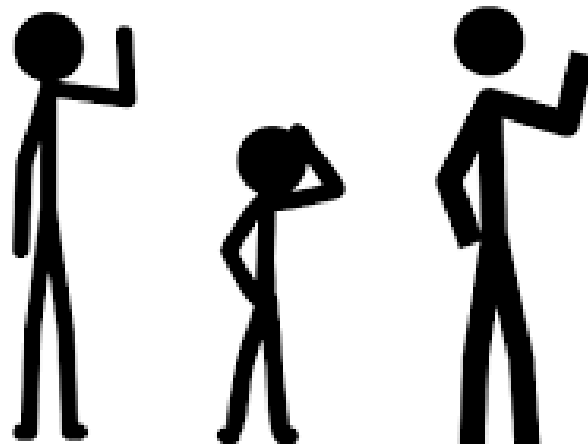
SASB Deadlines and Meetings

2018

Deadline for Submission	Meeting
December 20, 2017	January 30: NesCom/RevCom telecon
January 26, 2018	March 6-8: Tokyo Japan
March 16, 2018	April 26: NesCom/RevCom telecon
→ May 4, 2018	June 12-14: Amsterdam Netherlands
July 27, 2018	September 6: NesCom/RevCom telecon
	September 27: SASB telecon
→ October 15, 2018	December 3-5: Piscataway NJ

Upcoming SCC20 Meetings

2018



Upcoming SCC20 Meetings

Meeting 18-1

- **Location:** Teradyne's Corporate Headquarters,
600 Riverpark Drive, North Reading, MA
- **When:** April 24-26, 2018
Tuesday, Wednesday, Thursday
- **Who:** Active SCC20 WGs,
Study Groups, BRCs,
SCC20 "Steering" and
TC91 WG15

- 1) Request from TC91 WG15 for:
1 to 19 of April, May, or June
- 2) Teradyne TIM 2018 is May 1-2
- 3) There is a IEEE-SA deadline date of May 4
- 4) NIWeek is May 21 – 24 in Austin, Texas



Upcoming SCC20 Meetings

Meeting 18-2

- **Location:** The Gaylord National Convention Center, National Harbor, Maryland
- **When:** September 14-15, 2018
Saturday, Sunday
- **Who:** Active SCC20 WGs,
Study Groups, BRCs,
SCC20 “Steering”

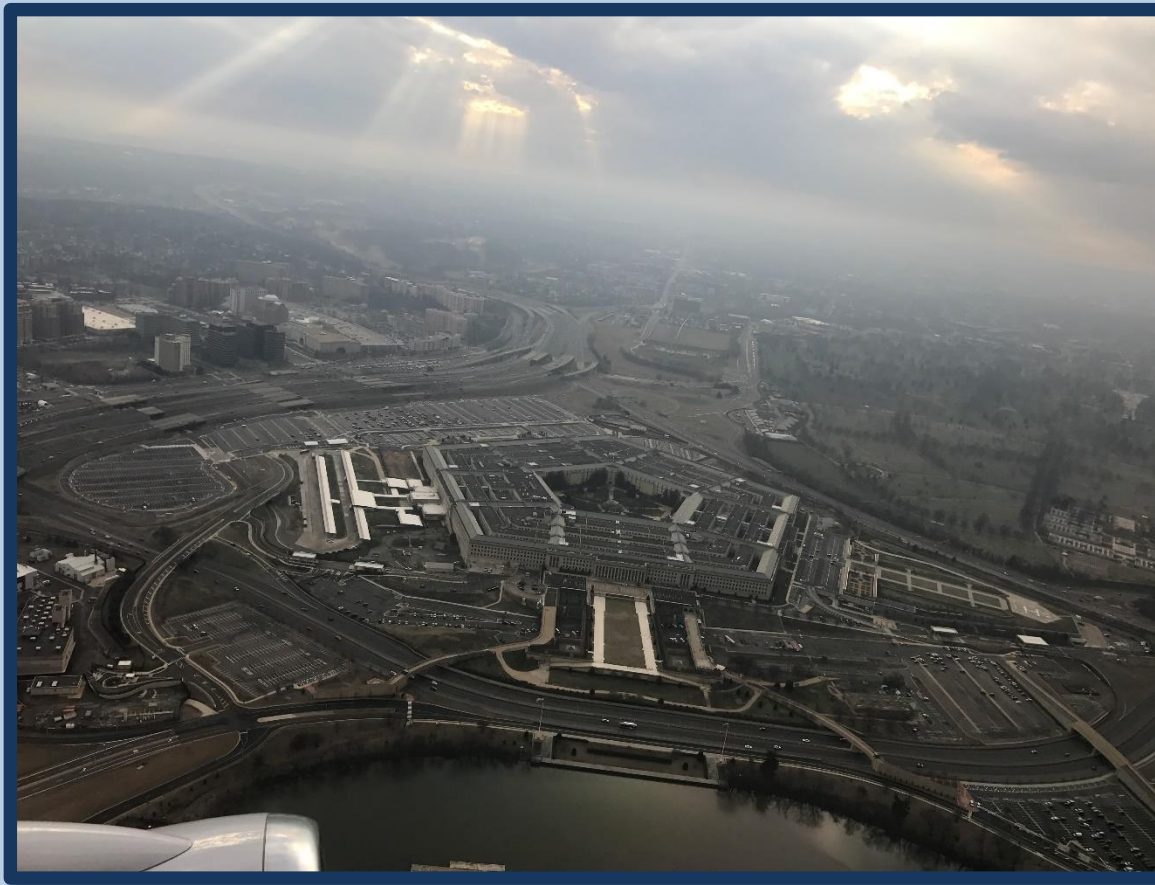


IEEE Autotestcon is September 17-20

***Note: Autotestcon plans to stay at this location
for 5 years***



Questions ?



DoD Liaison Report to the SCC20

**Bill Ross
Representing DoD ATS ED
Sept. 2017**

DoD ATS Executive Directorate -- AMB

DoD ATS

- CAPT Tom Dall replaced CAPT Brian Jacobs as Commander of NAVAIR PMA260 and as the DoD ATS ED
- Last DoD ATS Management Board (AMB) meeting was conducted last May
 - Reviewed each Service's current and future ATS plans
 - **Opportunities to leverage R&D, acquisition and sustainment investments**
 - Each of the active Joint Service IPT Chairs summarized their Team's accomplishments and plans
 - Again, great deal of discussion on Cyber Security requirements
- Next DoD ATS Management Board (AMB) meeting scheduled for Wednesday this week

DoD ATS Executive Directorate – Other

DoD ATS

- The new DoD ATS Executive Directorate web site:
 - The former web address <http://www.acq.osd.mil/ats>
 - New address <http://www.acq.osd.mil/log/MPP/ats.html>
 - Slow to properly populate
 - Still public
- DoD ATS ED documentation update status:
 - 2016 Revision A of the “DoD ATS Selection Process” released
 - 2017 version of the “DoD ATS Master Plan” released
- Framework, TPS and NxTest Joint Service’s technical IPTs are active
- Cyber Security IPT is challenged with each Service currently having unique interpretations and implementations

DoD ATS Executive Directorate – Other

DoD ATS

- AUTOTESTCON 2017 DoD ATS Executive Plenary Session
 - **“DoD Automatic Test Systems Roadmaps and Future Strategies”**
 - Tuesday morning – senior representatives from each Service

DoD ATS Framework IPT Initiatives

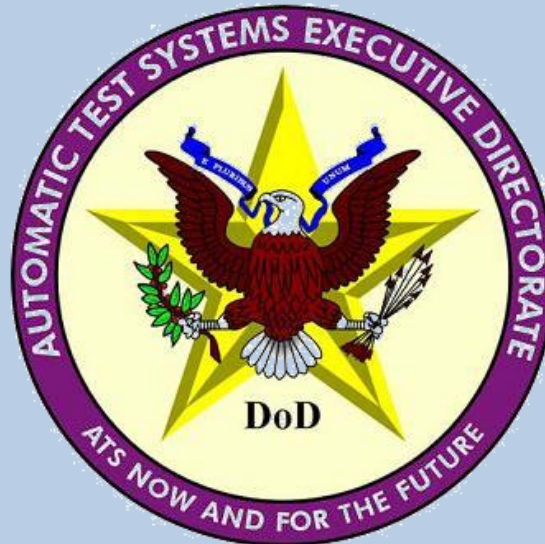


Current Framework Efforts

- **Continuing to advance Framework elements and standards, mainly via SBIRs**
 - **Automated Generation of Advanced Test Diagrams to Reduce Test Program Set Life-Cycle Cost**
 - ATML
 - **ePHM in ATS Environment**
 - AI-ESTATE, ATML, SIMICA, PHM (IEEE Reliability Society)
 - **Advanced High Speed Bus Technologies for Units Under Test (UUT), Test and Evaluation**
 - ATML, Signal and Test Definition
 - **Automated Test Program Set Analysis for Maintenance Data Metrics Generation**
 - Recommended Practice for Describing Intrinsic Signal Path Information

Other Initiatives/Concerns

- **Participated in FPGA conference calls and provided information on open architecture standards that might be considered for FPGA interfaces**
- **Continuing updates to ATS Framework elements and their associated standards**
 - **This will result in new ATS Executive Directorate notices for possible inclusion in current and future ATS**
- **AutoTestCon session to discuss technology, standards, and processes that can be adopted by the test and measurement industry to reduce TPS life cycle costs and increase information reuse**
 - **Thursday at 8:00**



Thank You.

Any Further Questions?

MOD Delegated representative report

Currently working within Support Enables Operating Centre (SEOC), name will be changing from Support Chain Process to Support Chain Governance (SCG) with management very keen to keep involvement and support to the Standards.

The roll continues to provide input into the Standards, bringing Policy up to date by incorporating the standards, and producing best practice with respect to requirements that will enable Project Teams to be more informed when it comes to contracting for support and what is expected of them.

We are also in the process of producing material to go into the Defence Logistic Framework (DLF) which provides project teams with the process map and best practice of what is required across the CADMID cycle. This will include reference and links to the SCC20 and standards.

In promoting the standards, I have had a lot more contact with project teams looking for advice and guidance on all phases of the CADMID cycle with respect to Support and Test equipment and calibration.

I will be hosting a ½ day ATS seminar in February which will include presentations from industry and MOD to give an overview of the benefits of using ATS and the standards. This will predominately be to Project teams and 1*'s from different environments (Land, Sea and Air). This will also be followed up with a presentation to Defence & Industry Support Chain Optimization Group (DISCOG).

In using the standards, I have a small project in place for the production of a diagnostic aide which will also look at smart diagnostics.

NDIA ATC Liaison report for SCC20 17-2 Steering Committee and Minutes

NDIA Liaison Officer: Les Orlidge

The Automatic Test Committee (ATC) of the National Defense Industrial Association (NDIA) held its Spring 2017 meeting 29 March at law offices of Holland & Knight, in Washington DC.

FPGA test and support project status: A draft of the document “***Incorporating User Programmable FPGA Designs into ATS Applications – Recommendations and Guidelines***” has been completed and circulated for review. The Table maps the SOW requirements to the applicable sections in this document.

SOW Requirement	Referenced Section in FPGA Recommendations Document
Best practices for ensuring long term and organic support for test systems and applications that employ user-programmable FPGA devices and modules	Section 5
Use of user-programmable FPGA device and module design tools that promote long term sustainability.	Section 5
Use of Intellectual Property (IP) and associated data rights that will promote organic support and long term sustainability of test systems that employ user-programmable FPGA devices and modules.	Section 9
Configuration management / documentation methods for user-defined FPGA applications	Section 8
Use of user-programmable FPGA devices and modules in conjunction with test programs and associated ITAs	Sections 2, 3 & 4
Identify and define the use of standardized interfaces that communicate and control IP that is part of an FPGA device or module in order to facilitate organic / long term support of test systems that employ FPGA-based designs as well as facilitating the use of FPGAs from various vendors	Section 6
Define a standardized policy for sustaining designs / TPS that employ user-programmable FPGA devices and modules	Not addressed. Definition of a policy or standard goes beyond the scope of this document which is to provide recommendations and guidelines. We would suggest that based on this document, the NDIA ATS group can decide if a policy / standard should be established that addresses the incorporation of user FPGAs as part of a TPS or ATE system.

The next full committee meeting will be held in conjunction with AUTOTESTCON at 1pm on Sunday, 10 September in Schaumburg, IL. The meeting agenda and registration information is posted at:

<http://www.ndia.org/events/2017/9/10/automatic-test-committee-meeting>

The IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems

IEEE Sections Congress

Session on Ethics in Artificial Intelligence

Session on Social Implications of Technology

Session on “Why the IEEE has to Lead in Ethics and Technology”

- Karen Bartleson, President of IEEE
- Don Wright, President of SA
- Marina Ruggieri, VP of Technical Activities for IEEE
- Paul Cunningham, Chair of the Society on Social Implications of Technology
- Magdalena Salazar-Palme, Chair of IEEE Ethics and Member Conduct Committee
- Greg Adamson, Chair of *ad hoc* Committee on Ethics Programs

Ethically Aligned Design: A Vision for Prioritizing Human Wellbeing with Artificial Intelligence and Autonomous Systems (EAD, Version 1) represents the collective input of over one hundred global thought leaders from academia, science, government and corporate sectors in the fields of Artificial Intelligence, ethics, philosophy, and policy. EAD, Version 2, will feature thirteen sections created by over two hundred-fifty global thought leaders and launch in late 2017.

Standards Projects

- P7000 - Model Process for Addressing Ethical Concerns During System Design (C/S2ESC)
- P7001 - Transparency of Autonomous Systems (VT/ITS)
- P7002 - Data Privacy Process (C/S2ESC)
- P7003 - Algorithmic Bias Considerations (C/S2ESC)
- P7004 - Standard for Child and Student Data Governance (C/LT)
- P7005 - Standard for Transparent Employer Data Governance (C/S2ESC)
- P7006 - Standard for Personal Data Artificial Intelligence (AI) Agent (C/S2ESC)
- P7007 - Ontological Standard for Ethically Driven Robotics and Automation Systems (RAS/SC)
- P7008 - Standard for Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems (RAS/SC)
- P7009 - Standard for Fail-Safe Design of Autonomous and Semi-Autonomous Systems (RS/SC)
- P7010 - Wellbeing Metrics Standard for Ethical Artificial Intelligence and Autonomous Systems (SMC/SC)

Initiative Outcomes

To best advance technology for humanity with regard to autonomous systems, The Global Initiative for Ethical Considerations in the Design of Autonomous Systems seeks to inform and influence:

- Government policy makers
- Corporate Board members and C-level executives

- United Nations and other international agencies
- Academic Educators

Getting Involved

Looking for experts that span the fields of engineering, law, science, economics, ethics, philosophy, politics, and health in this work. The Initiative is global, open and inclusive, welcoming all individuals or representatives of organizations dedicated to advancing technology for humanity by prioritizing ethical considerations in the design of autonomous systems that include:

- Robotics
- Artificial Intelligence
- Computational Intelligence
- Machine Learning
- Deep Learning
- Cognitive Computing
- Affective Computing
- Algorithmically based programs