Test and Diagnosis for Electronic Systems Standards Committee (SCC20)

Our New Name

Chairs Report

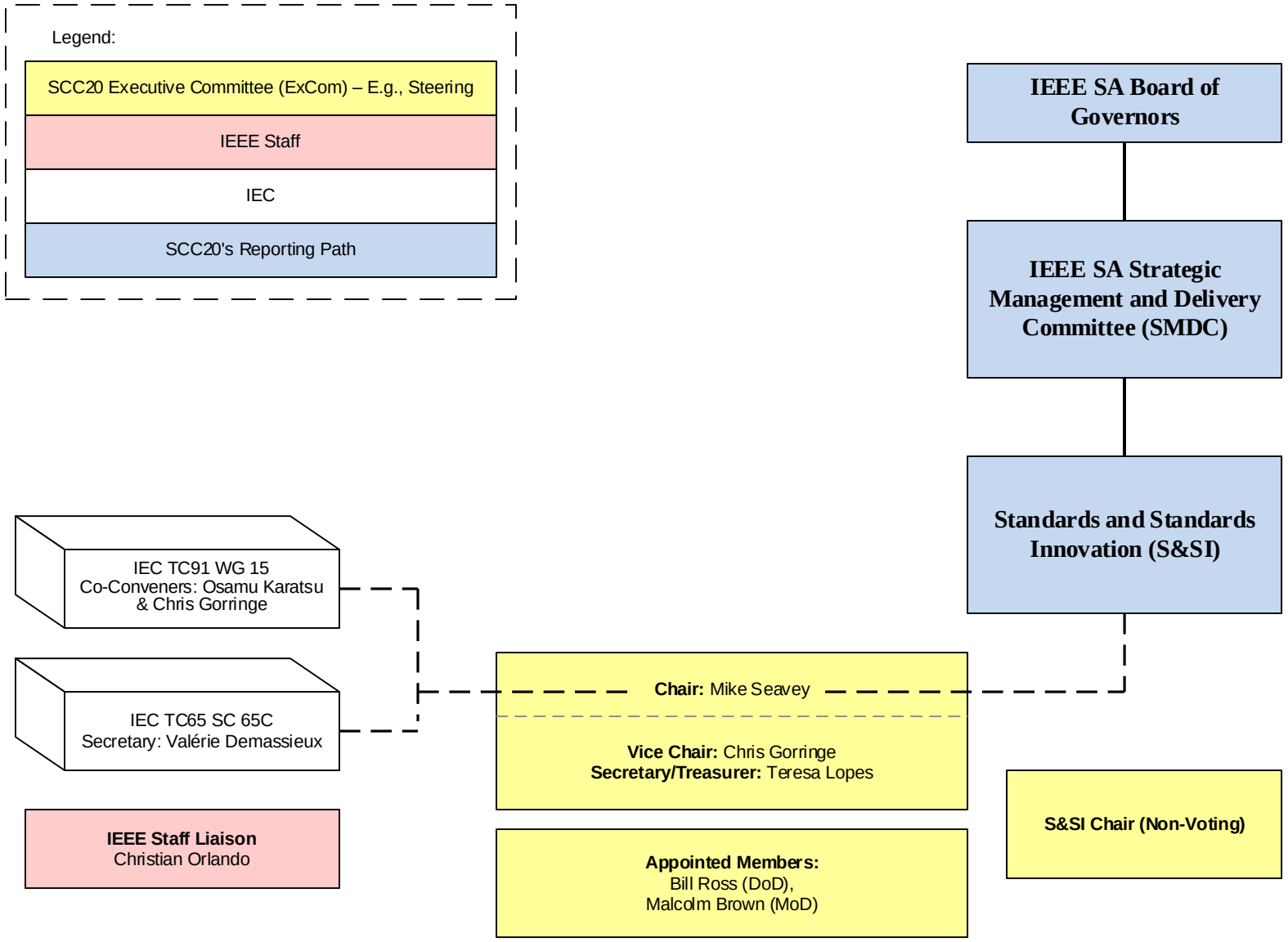
August 28, 2022

Mike Seavey
Draft 10
August 25, 2022

For Disclosure

- I Retired from Northrop Grumman on July 15th
  - In the foreseeable future:
  - I will continue as SCC20 Chair
  - I will continue with Standards Activities, both IEEE and IEC
  - I will continue with CATS4D Activities
  - I will continue with NDIA ATC Activities (at their request)
    - I have a SCC20 presentation to make to them at 4:15 today
    - Digital Engineering request from the USAF (March/April 2022)
- I am the Autotestcon 2022 Technical Program Chair
- I will be an Autotestcon 2023 Technical Program Co-Chair

2022 SCC20 Organization (1 of 2)



2022 SCC20 Organization – Working Groups (2 of 2)

IEEE P1641
STD
Revision of 1641-2010

WG Chair: Chris Gorringe

Submitted to RevCom

IEEE P2848
Prognostics and Health Management for ATS

WG Chair: John Sheppard

In Working Group

IEEE P1636.1 Cor. 1
SIMICA Test Results
Corrigenda to 1636.1-2018

WG Chair: Anand Jain

In Working Group

IEEE P1671.1 Cor. 1
ATML Test Description
Corrigenda to 1671.1-2017

WG Chair: Ion Neag

In Working Group

SCC20 Standards Tracking

Type	Publication	Project	PAR by	PAR Approval Date	PAR Expiration Date	Valid Standard Until	Notes
Standard	488.1-2003	—		—	—	3/19/2019	IEEE Has Requested This Remain Active
Standard	488.2-1992	—		—	—	6/17/2020	IEEE Has Requested This Remain Active
Standard	716-1995(R2011)	—		—	—	12/31/2021	Moves to inactive
Users Guide	771-1998(R2009)	—		—	—	12/9/2019	Moves to inactive
Standard	1232-2010	—	—	—	—	12/8/2020	Draft PAR for Revision
Users Guide	1232.3-2014	—	—	—	—	12/31/2024	
Standard	1445-2016	—	—	—	—	12/8/2026	IEEE Published February 2017
Standard	1505-2010	—	—	—	—	9/30/2020	Moves to inactive
Standard	1505.1-2019	—	—	—	—	12/31/2029	Moves to inactive
Standard	1505.3-2015	—	—	—	—	12/31/2025	Moves to inactive
Users Guide	1546-2000(R2011)	—	—	—	—	12/31/2021	This was the 1445 guide, incorporated in the latest standard moves to inactive
Standard	1636-2018	—	2025	—	—	12/31/2029	Published February 28, 2019
Standard	1636.1-2018	P1636.1 Cor 1	—	June 4, 2019	December 31, 2023	12/31/2029	Published March 8, 2019
Standard	1636.2-2018		2025	—	—	12/31/2029	Published March 8, 2019
Standard	1636.99-2013	—	—	—	—	12/31/2023	Moves to inactive
Standard	1641-2010	P1641	—	December 7, 2016	December 31, 2022	6/17/2020	Sept. 19 RevCom Meeting for Approval
Users Guide	1641.1-2013	—	2019	—	—	12/31/2023	
Amendment	1641.1a-2018	—	—	—	—	12/31/2028	Published March 8, 2018
Standard	1671-2010	—	2016	—	—	9/30/2020	Draft PAR for Revision
Standard	1671.1-2017	P1671.1 Cor 1	—	November 7, 2019	December 31, 2023	12/31/2027	Published March 19, 2018
Standard	1671.2-2012	—	2018	—	—	12/31/2022	
Standard	1671.3-2017	—	2023	—	—	12/31/2027	Published April 13, 2018
Standard	1671.4-2014	—	2020	—	—	12/31/2024	
Standard	1671.5-2015	—	2021	—	—	12/31/2025	
Standard	1671.6-2015	—	2021	—	—	12/31/2025	
Recommended Practice	1871.1-2014	—	2020	—	—	12/31/2024	
Recommended Practice	1871.2-2017	—	2023	—	—	12/31/2027	Published March 14, 2018
Standard		P2848		November 7, 2019	December 31, 2023		

	As of 8/11/2022		Draft PAR	Active PARs	Potential PAR	Publication Status

Standards Activities since the 22-1 Meeting

- Revision of IEEE Std. 1641-2010
  - Sponsor balloting has been completed
  - Submitted to RevCom for approval
    - Expecting that RevCom will Approve on Sept. 19, followed by an Approval by the Standards Board
    - Expecting that IEEE Std. 1641-2022 will be published in 2023
    - Will then be forwarded to IEC TC91 WG 15 in 2023 for dual-logo publication activities by the IEC

- Corrigenda for IEEE Std.1636.1-2018
  - Working Group will be meeting in this room after Steering part 1 today
  - Expecting a submittal to SCC20 ‘Steering’ for the approval to move the corrigenda into the Sponsor ballot process (starting with MEC) later today

Standards Activities since the 22-1 Meeting

- Corrigenda for IEEE Std.1671.1-2017
  - Working Group will be meeting in this room after Steering part 1 today
  - Expecting a submittal to SCC20 ‘Steering’ for the approval to move the corrigenda into the Sponsor ballot process (starting with MEC) later today

- P2848 Prognostics and Health Management for ATS
  - Working Group will be meeting Thursday September 1 in this room
    - Time: 8:00AM-Noon
    - WebEx participation available

Standards Activities since the 22-1 Meeting

- P1232 Draft PAR
  - The Revision of IEEE Std. 1232-2010
    - Standard for Artificial Intelligence Exchange and Service Tie to All Test Environments (AI-ESTATE)
  - Draft PAR is being submitted to SCC20 ‘Steering’ for the approval to submit to NesCom later today

- P1671 Draft PAR
  - The Revision of IEEE Std. 1671-2010
    - Standard for Automatic Test Markup Language (ATML) for Exchanging Automatic Test Equipment and Test Information via XML
  - Proposed updated project title:
    - Standard for Automatic Test Markup Language (ATML) for Exchanging Automatic Test Equipment and Test Information via XML or JSON
  - Draft PAR is being submitted to SCC20 ‘Steering’ for the approval to submit to NesCom later today

Standards Activities since the 22-1 Meeting

- 2019-2021 Study Groups
  - Cyber Security & Resiliency for ATS Recommended Practice
    - Chair: Mike Seavey – A lot of Interest was shown, no work has been done
  - IEEE-488.1-2003 & IEEE-488.2-1987 – Digital I/F for Programmable Instruments & Std Codes, Formats, Protocols, Commands
    - Chair: Mike Seavey – I did not work on this in 2022
  - Support of JSON File Formats in IEEE-1671 (ATML)
    - Initially formed in October 2021 – There was no activity
    - JSON has been included on the P1671 Draft PAR
      - JavaScript Object Notation

Standards Activities since the 22-1 Meeting

- 2019-2021 Study Groups
  - 2020 Survey Responses – What is the path forward
    - Initially formed in October 2021 – There was no activity
    - Suggest that a P1671 task group be formed to address this after the P1671 PAR is approved by the IEEE SASB
      - The Task Group output will be incorporated in the P1671 draft document
- Possible New Study Group
  - ATE Wireless Communication

Chairs Activities since the 22-1 Report

- IEEE S&SI Ad Hoc on Transitioning SCC's to S&SI SMDC.
  - I am a member of this Ad Hoc.

Acronym	Meaning
SCC	Standards Coordinating Committee (now obsolete)
S&SI	Standards & Standards Innovation
SMDC	Strategic Management and Delivery Committee

The S&SI SMDC reports directly to the IEEE SA Board of Governors

SMDCs are established by the IEEE SA Board of Governors (BOG) to address strategic focus areas that are necessary and critical for the IEEE SA to achieve long-term organizational objectives

Chairs Activities since the 22-1 Report

- The Ad Hoc Scope:
  - "To guide the transition of former SASB SCCs [SCC14, SCC20, SCC21, SCC39] into Standards Committees reporting to the S&SI SMDC, including updating their operating procedures into the current Standards Committee baseline, and addressing issues such as appointment/election of officers, appeal procedures, default corrective action for dominance, and timing/methodology for reporting."

Note: the IEEE-SA Permits the SCCs to operate under their current P&Ps until December 31, 2022, or until acceptance by AudCom/SASB of updated P&Ps, whichever is sooner

Chairs Activities since the 22-1 Report

- SCC20 P&P's updated Work Plan

1. I have moved the SCC20 P&P into the Standards Committee Template and submitted to the AdHoc → 7-July
2. I received the AdHoc's comments 18-August. I have incorporated AdHoc's comments and submit the revised P&P to S&SI SMDC → 26-August
3. S&SI SMDC to review and approve the P&P → September
4. I will then submit the P&P to AudCom → September
5. AudCom to review and approve P&P → December

Note 1: the AudCom meeting is 1-December
Note 2: if the P&Ps are not approved in December we will be listed as "visibly under development" and allowed to continue work into 2023

Chairs Activities since the 22-1 Report

- The SA deadline of December 31, 2022
  - DOES NOT APPLY to our SCC20 Working Group P&Ps
    - These will have to change
    - Working Group P&Ps have not yet been addressed by S&SI SMDC
- When the SCC20 P&Ps are approved, I will provide & present an overview of the differences
  - Terminology, Reporting, Membership, Dominance, etc.
- The SCC20 membership & email list was updated
  - Was used to call this meeting

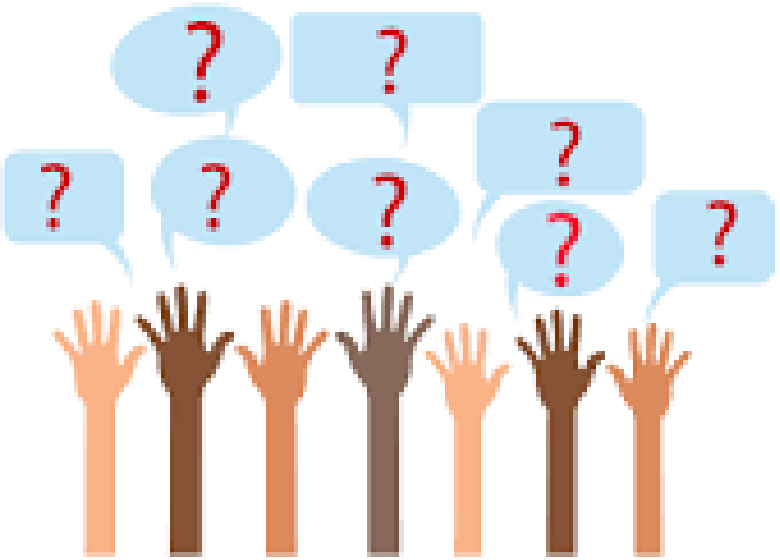
Chairs Activities since the 22-1 Report

- IEEE myProject updates
  - Primarily due to SCCs no longer existing and reporting to the Standards Board
  - The Standards Committee (SCC20) paths will be updated to ‘disconnect’ from the Standards Board and ‘connect’ to S&SI SMDC
  - Update will also eliminate previous SCC20 Subcommittees (TAD, TII, DMC, HI) from the path for previous efforts – the previous efforts will remain.
  - When this update starts and is completed is TBD
    - I have had phone conversations with IEEE Staff regarding the updates
    - If you will be required to reenter your desired SCC20 related interest activities in myProject after the update is TBD

Chairs Activities since the 22-1 Report

- Standards Source Material
  - Drawing/Figure Source Files, Word Files, XML, OWL, JSON, TAP files, meeting minutes, emails, etc.
  - Questions
    - Should we (as SCC20) collect all the legacy and new source material?
    - If yes, is there a single location to put all this material?
      - Security

SCC20 23-1 & 23-2 Meetings

- 23-1
  - April/May 2023
    - Face-to-Face & Microsoft Teams participation
    - Location TBD
      - P1671 & P1232 Kickoff
      - P1636.1 Cor 1 & P1671.1 Cor 1 Ballot Activities
      - P2848 PAR Extension
      - Study Groups
- 23-2
  - Autotestcon 2023 is August 28 - August 31
  - Gaylord National Convention Center, National Harbor, Maryland
  - SCC20 would meet as a minimum on Sunday August 27
    - Face-to-Face & Microsoft Teams participation

Questions?