

Standards Coordinating Committee 20 (SCC20)

Chairs Report 2021

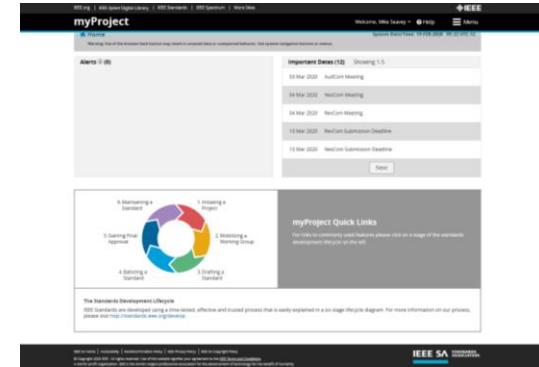
Mike Seavey

Draft 4

October 27, 2021

The IEEE myProject & SCC20 Web Sites

- myProject is Located at:
 - <https://development.standards.ieee.org/myproject-web/public/view.html#landing>

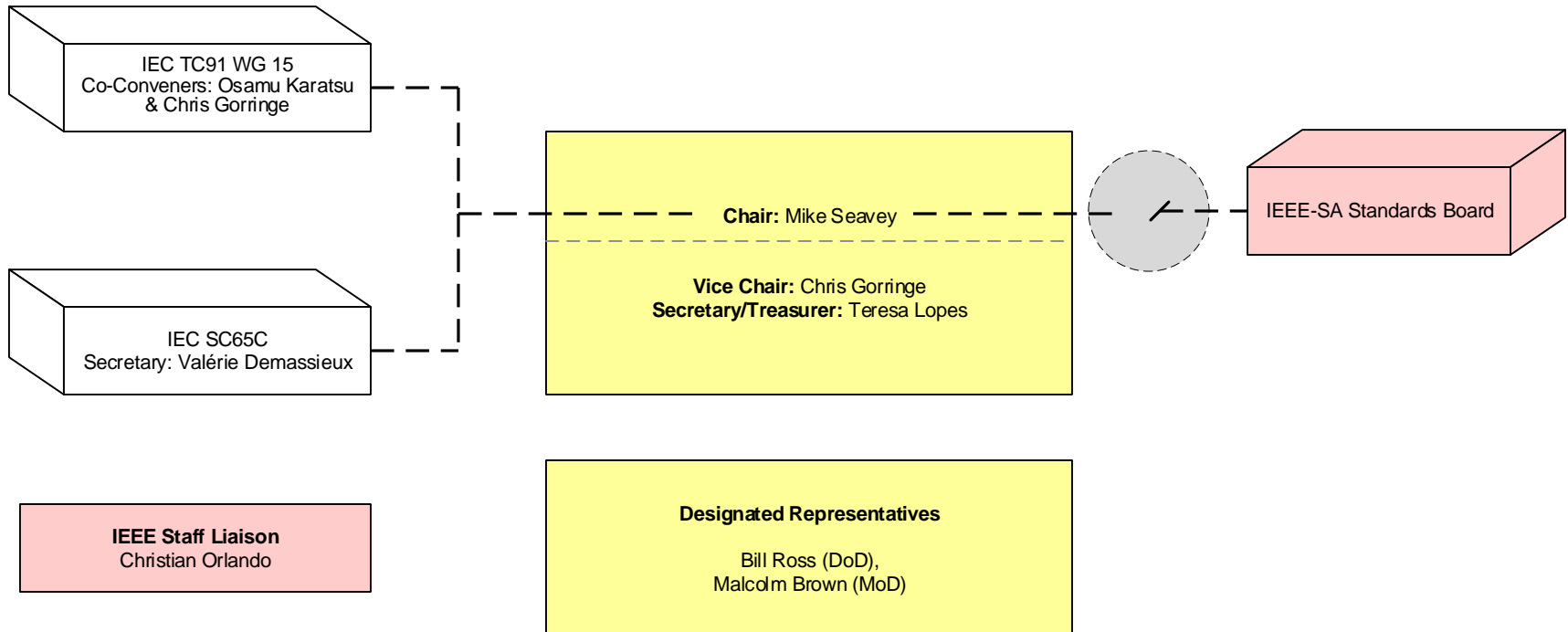


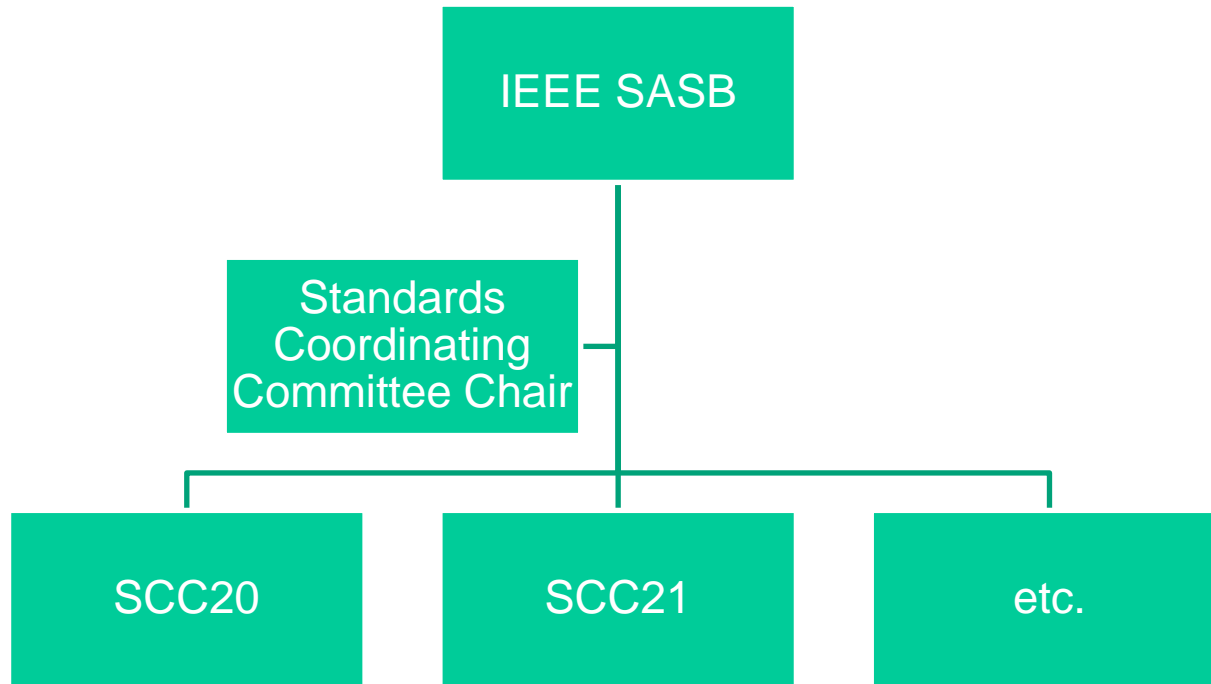
- SCC20 is Located at:
 - <https://sagroups.ieee.org/scc20/>



2021 SCC20 Organization

(1 of 3)





2021 SCC20 Organization

(3 of 3)

IEEE-P1641
STD
Revision of IEEE-1641-2010

WG Chair: Chris Gorringe

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

WG Chair: Anand Jain

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

WG Chair: Ion Neag

Active Working Groups (Revision or Corrigenda to a Published Standard)

P2848
Prognostics and Health
Management for ATS

WG Chair: John Sheppard

Active Working Group (New Standard)

I formed these two on October 21, 2021

**IEEE-488.1-2003 &
IEEE-488.2-1987**
Digital I/F for Programmable
Instruments & Std. Codes,
Formats, Protocols, Commands

Chair: Mike Seavey

**Support of JSON File Formats
In each ATML Standard
(1671 Family of Standards)**

Chair: TBD (Anand & Teresa)

**2020 Survey Responses –
What is the Path Forward?
(1671 Family of Standards)**

Chair: TBD (Ion & Chris)

Study Groups (Revision/Ballot of Standards)

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	
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	
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	
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
		P2848		November 7, 2019	December 31, 2023		
	As of 9/23/2021	Address			Active PARs		

Activities since the 19-2 Report

- SCC20 Committee Policies and Procedures.
 - Updated P&Ps were approved by AudCom and the Standards Board in 2020.
- SCC20 Working Group Policies and Procedures.
 - Updated WG P&Ps were approved by AudCom and the Standards Board in 2020.
- SCC20 Operating Procedures.
 - Created in 2020 for our use, addresses items not in the Committee P&P's.
 - The Standards Board does not review/approve.
- SCC20 Annual Reports (2020, 2021).
 - Created, Submitted, and Approved by the Standards Board in February (of each year).

Activities since the 19-2 Report

- SCC20 Financial Reports (2020, 2021).
 - Submitted in January (of each year).
- SCC20 Chair (2020, 2021).
 - I was reappointed by the Standards Board in 2020 and 2021.
- The PAR for P2848 (Prognostics and Health Management for ATE) was approved by the Standards Board in November of 2019.
- P1641 PAR extension in 2020.
 - A 1-Year PAR extension was submitted and approved by the SCC20 Steering Committee via a electronic meeting.
 - A 2-Year PAR extension was approved by the Standards Board August, 2020.

Activity since the 19-2 Report

- Revision of 1641.
 - MEC comments have been addressed in the latest draft.
 - The latest draft is ready for Sponsor Ballot.
- Corrigenda for 1636.1.
 - The corrigenda is not ready to be submitted to SCC20 Steering for approval to move to MEC.
 - There will be an upcoming on-line meeting to review the details of the corrections.
 - Meeting will be approx. 2 hours and will also address 1671.1.
- Corrigenda for 1671.1.
 - The corrigenda is not ready to be submitted to SCC20 Steering for approval to move to MEC.
 - Upcoming on-line meeting –as discussed above.

Activity since the 19-2 Report

- P2848 Prognostics and Health Management for ATS.
 - Work commenced in 2021 through monthly WebEx meetings.
- IEEE-488.1 & 488.2.
 - The text for both draft Standards is complete.
 - Template and Style Guide changes are incorporated.
 - This modified the entire structure of the Standards.
 - Figures are being re-drawn by contracted writers funded by the IEEE.

The Transition of IEEE SCC20

- On July 12, 2021, a Telecon was held with the Standards Board Chair, IEEE Staff, and Myself.
 - Notes from this Meeting:
 - An IEEE SASB Ad Hoc is Evaluating SCCs within IEEE SA Governance that has been reviewing the structure of SCC's
 - The Strategic and Emerging Standards Committee (SESCCom) has been created.
 - Since we are an active SCC, we were given a choice:
 - Move as a Standards Committee to SESCCom.
 - Move the SCC20 Standards to the IEEE Computer Society.
 - I requested, and was granted, time to talk to Steering Members about the choice.
 - I believe I talked to John, Teresa, Chris, and Malcolm.
 - The Standards Board Members, and IEEE Staff requested a follow up Telecon for August.
 - **THIS MEETING OCCURRED OCTOBER 26.**

The Transition of IEEE SCC20

- On September 22, 2021, all references to SCC's were removed from the SASB Operations Manual by the SASB Procedures Committee.
- Standards Coordinating Committees (SCC's) that are active are now Standards Committees (SC).
 - Inactive Standards Coordinating Committees will be dissolved.

The Transition of IEEE SCC20

- On October 26, 2021, a follow-up Telecon was held with the Standards Board Chair, IEEE Staff, and Myself.
 - Notes from this Meeting:
 - The Strategic and Emerging Standards Committee (SESCoM) P&Ps do not allow for the development of standards.
 - The next 4 slides, edited from IEEE Staff, describe the transition of SCC20 from:
 - A Type 2 Standards Coordinating Committee to a Standards Committee.

Overview

- There is an IEEE SASB Ad Hoc Evaluating SCCs within IEEE SA Governance that has been reviewing the structure of SCC's
- Over the past year conversations have been had about a possible transition from SCC20 reporting into the SASB to a Standards Committee.
- This presentation outlines reporting into the IEEE Standards and Standards Innovation (S&SI) Strategic Management and Delivery Committee (SMDC)

IEEE Strategic Management and Delivery Committee (SMDC)

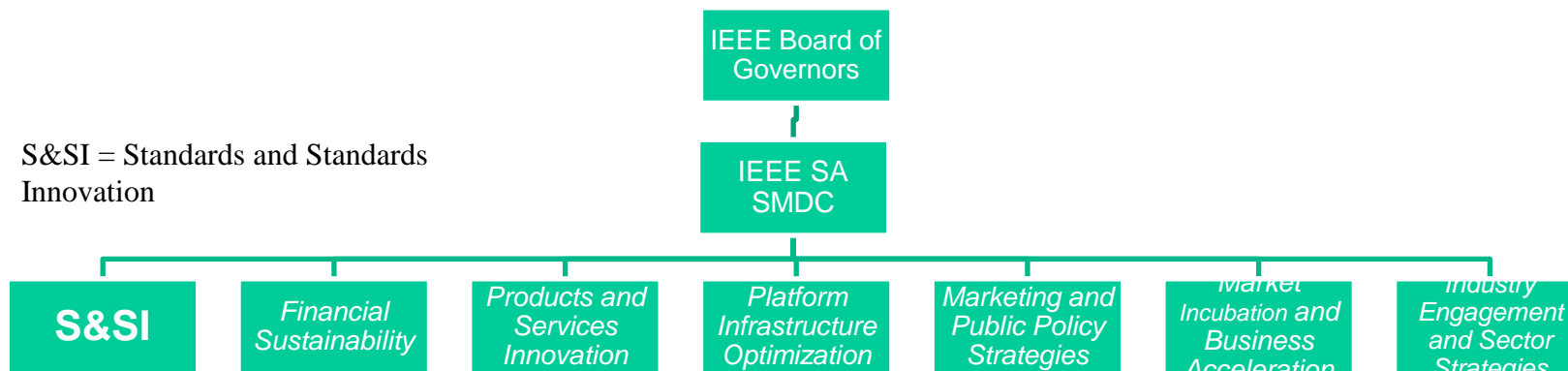
Strategic Management and Delivery Committee (SMDC) Charters

- Strategic Management and Delivery Committees (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.

Standards and Standards Innovation SMDC

- Reports directly to the IEEE SA Board of Governors
- A good home for vibrant SCCs who do not want to move or do not fit under a Society or Council

Structure overview



SCC20

SCC20 transitions under IEEE S&SI.

SCC##

SCC20 would remain intact and all PARs/Standards will transition.

The SCC20 P&Ps will need to be updated to be on the Standards Committee baseline (currently on the Type 2 SCC baseline).

The Committee name “SCC20 Standards Committee”

Next steps

Path forward:

- SCC20 moves under S&SI
 - IEEE SA Staff will assist in drafting new P&Ps
- The SCC20 Chair, SCC Coordinator, S&SI Chair, and IEEE staff to work together on transition items such as:
 - Timeline for P&Ps
 - Creation of new SC and moving Working Groups in myProject
- IEEE SA Staff to work with IEC Staff to notify transition an request updates where needed (i.e., liasons with SCC20 may need to update if name changes)

The Transition of IEEE SCC20

- SCC20 Annual Report
 - Annual Reports to the Standards Board are no longer required.
- SCC20 Financial Report
 - I assume I will be submitting in January, as in the past.
- SCC20 Web Site
 - I suggest this remain “as-is” until direction is provided by IEEE Staff.
 - I see no need to make multiple updates.
 - myProject updates also.

Standards to be Addressed – Results & Actions

Note: Related to the next 4 slides, the term ‘Updated’ implies; as a minimum, the latest (a) Standards Word Template and (b) IEEE Style Guidelines, are incorporated with the published Standard before re-ballot.

Should the Following Be Updated & Re-balloted to Remain an Active Standard?

- IEEE-1671-2010
 - ATML Overview and Architecture
 - Vote: Yes = 6 No = 0 Abstain = 0
- IEEE-1671.1-2017
 - ATML: Test Description
 - Vote: Yes = 5 No = 1 Abstain = 0
- IEEE-1671.2-2012
 - ATML: Instrument Description
 - Vote: Yes = 5 No = 1 Abstain = 0

Should the Following Be Updated & Re-balloted to Remain an Active Standard?

- IEEE-1671.3-2017
 - ATML: UUT Description
 - Vote: Yes = 5 No = 1 Abstain = 0
- IEEE-1671.4-2014
 - ATML: Test Configuration
 - Vote: Yes = 5 No = 1 Abstain = 0
- IEEE-1671.5-2015
 - ATML: Test Adapter Description
 - Vote = Yes = 5 No = 1 Abstain = 0

Should the Following Be Updated & Re-balloted to Remain an Active Standard?

- IEEE-1671.6-2015
 - ATML: Test Station Description
 - Vote = Yes = 5 No = 1 Abstain = 0

Should the Following Be Updated & Re-balloted to Remain an Active Standard?

- IEEE-1871.1-2014
 - ATML: Instrument Description Templates
 - Vote = Yes = 3 No = 2 Abstain = 1
- IEEE-1871.2-2017
 - ATML: Intrinsic Signal Path Information
 - Vote = Yes = 3 No = 1 Abstain = 2

Should the Following Be Updated & Re-balloted to Remain an Active Standard?

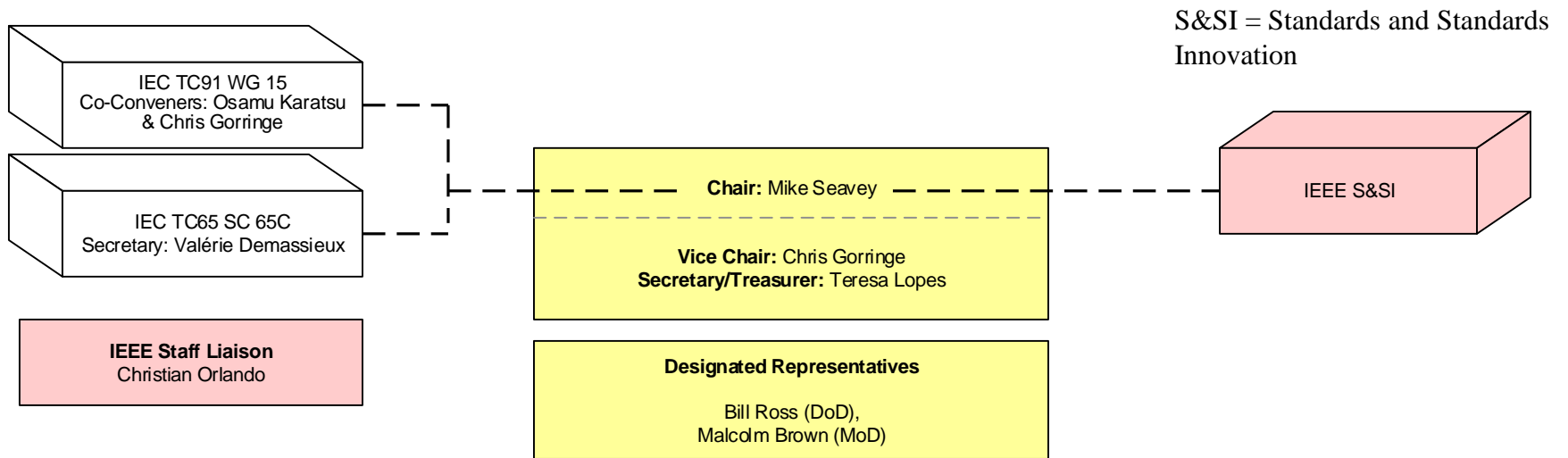
- IEEE-1641.1-2013
 - STD Users Guide
 - Vote: Yes = 4 No = 1 Abstain = 1

Should the Following Be Updated & Re-balloted to Remain an Active Standard?

- IEEE-1232-2010
 - AI-ESTATE
 - Vote: Yes = 1 No = 2 Abstain = 3
- IEEE-1232.3 (not 4) -2014
 - AI-ESTATE Users Guide
 - Vote: Yes = 1 No = 3 Abstain = 2

**Thank You
for your feedback**

Potential SCC20 Standards Committee Organization 2022 →



Potential Organization 2022

→ (2 of 2)

<p>IEEE-P1641 STD Revision of IEEE-1641-2010</p> <p>WG Chair: Chris Gorringe</p>	<p>IEEE-P1636.1 Cor 1 SIMICA: Test Results Corrigenda to IEEE-1636.1-2018</p> <p>WG Chair: Anand Jain</p>	<p>P1671.1 Cor 1 ATML: Test Description Corrigenda to IEEE-1671.1-2017</p> <p>WG Chair: Ion Neag</p>	<p>P1671 ATML Revision of IEEE-1671-2010</p> <p>WG Chair:</p>
<p>P1671.1 ATML Revision of IEEE-1671.1</p> <p>WG Chair:</p>	<p>P1671.2 ATML Revision of IEEE-1671.2</p> <p>WG Chair:</p>	<p>P1671.3 ATML Revision of IEEE-1671.3</p> <p>WG Chair:</p>	<p>P1671.4 ATML Revision of IEEE-1671.4</p> <p>WG Chair:</p>
<p>P1671.5 ATML Revision of IEEE-1671.5</p> <p>WG Chair:</p>	<p>P1671.6 ATML Revision of IEEE-1671.6</p> <p>WG Chair:</p>	<p>P1232 AI-ESTATE Revision of IEEE-1232-2010</p> <p>WG Chair: John Sheppard</p>	

Working Groups (Revision or Corrigenda to a Published Standard)

<p>P2848 Prognostics and Health Management for ATS</p> <p>WG Chair: John Sheppard</p>

Working Group (New Standard)

<p>Cyber Security and Cyber Resiliency for ATS</p> <p>Chair: Mike Seavey</p>	<p>IEEE-488.1-2003 & IEEE-488.2-1987 Digital I/F for Programmable Instruments & Std. Codes, Formats, Protocols, Commands</p> <p>Chair: Mike Seavey</p>	<p>Support of JSON File Formats In each ATML Standard (1671 Family of Standards)</p> <p>Chair: TBD (Anand & Teresa)</p>	<p>2020 Survey Responses – What is the Path Forward? (1671 Family of Standards)</p> <p>Chair: TBD (Ion & Chris)</p>
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Study Groups

Potential Organization Operational Changes

- **My Biggest Concern with this Organization:**
 - Getting enough volunteers to accomplish the work.
 - PARs are valid for Four Years
 - We are still in a Pandemic
- The next 2 slides address a couple of my thoughts about the Organization.
 - I am still working out the details.
 - Any inputs are more than welcome, I am encouraging them.

Potential Organization Operational Changes

- 1671 ATML
 - As opposed to operating seven “independent” WG’s – Base document and six “dot” Standards.
 - Allocate ‘Tasks’ applicable to each of the seven, for example:
 - 1 person (or group) is responsible to incorporate the latest IEEE Template and IEEE Style Guide into each of the seven published Standards (AI-ESTATE could be added as well)
 - 1 person (or group) is responsible for maintaining, revising, making consistent; each of the figures in the seven standards.
 - 1 person (or group) is responsible for maintaining each of the XML schemas in the seven standards; making updates, and verifying they are valid and compatible with each other.
 - Etc....
 - An “oversite group” (maybe Myself, Chris, Teresa, Ion, Anand) address the allocation/definition of the Tasks, Monitor the Status and address the Challenges facing the Groups.

Potential Organization Operational Changes

- The 2020 Survey Responses Study Group “evolution”
 - Utilize this as the path to attract additional expertise.
 - They provide their needs, concerns, etc. to this high level group; at the level of their expertise – they are probably users of the Standards not XML schema developers or document writers.
 - They don’t immediately get “thrown into” lower level discussions at a WG level, and wonder why am I here...
 - Provide “training” on the ATML Standards.
 - Without providing interpretations.
 - Not a User’s Guide.
 - Develop and provide demonstrations, similar to what was done at Autotestcon in the past.
 - The “oversite group” mentioned in the previous slide would have a tie in to this group.

In-activity since the 19-2 Report

- Due to the pandemic, no face-to-face meetings were held in 2020, none are expected in 2021.
- The next face-to-face may be the fall of 2022.
 - Company and Government Travel Restrictions will need to be relaxed to allow this to happen.
 - A recent IEC meeting discussed the possibility of not meeting face-to-face until 2024.
- I have received a request for a Spring 2022 face-to-face meeting of at least the working groups.
 - In my position I do not see any relief of travel restrictions that soon.
 - I have not investigated a location.
 - Thoughts?

Questions?

