

TELEMETERING STANDARDS COORDINATION COMMITTEE



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INTERNATIONAL FOUNDATION FOR TELEMETERING

TSCC Spring 2021 Chair Report

May 20, 2021
WebEx Telecon (Due to Covid)

TSCC Membership

- Academia (1)
 - Dr. Michael Marcellin
- Government (5)
 - Mark Bender
 - Albert Gabaldon
 - Richard Graham
 - (*1) ~~Myron Moodie~~
 - Richard Graham
 - Tab Wilcox
- Industry (7)
 - Scott Brierley
 - Brad Fleury
 - Philip Ellerbrock
 - Wayne Klein
 - Steve Nicolo
 - (*2) ~~Sergio Penna~~
 - (*2) ~~Joe Sulewski~~
 - Gilles Freaud
 - Malcolm Weir
- Ex-Officios
 - Clifford Aggen (IFT Rep)
- Members Emeritus
 - Lee Eccles
 - Merv MacMedan
 - Erwin (Terry) Straehley

(*1) Myron is leaving. Has proposed a replacement (Todd Newton)

(*2) Sergio P. & Joe S. are no longer in TSCC

Agenda

13:00 Call to Order S. Nicolo

13:00 Attendance and determination of Quorum W. Klein

13:05 Review and Approve Agenda S. Nicolo

13:10 Officer Reports

Chair Report

S. Nicolo

Action Item Review

S. Nicolo

Secretary-Treasurer

W. Klein

Financial Status

Agenda (Continued)

13:30 Committee Reports

Nominating Committee

S. Nicolo

New nominations/follow-up on members & Votes

Discussions on open seats

Radio Frequency

S. Brierley

Telemetry Data Processing

B. Fleury

Networking and Protocols

~~S. Nicolo~~ **M. Weir**

Recorder / Reproducer

M. Buckley

EITTS (**former** ETSC) Report

G. Freud

~~Cyber-Security (SEE Cyber Report)~~

~~M. Weir~~

Agenda (Continued)

14:30 Website

14:40 Old Business

S. Nicolo

15:00 New Business

Fall Meeting

All

15:30 Adjourn

All

Committee Changes

- We welcome Philip Ellerbrock as the new TSCC Chair. S. Nicolo will handle this meeting and Philip will take over after that. We must all give him our undivided support.
- As per the Bylaws Steve Nicolo will now become Chair of the Nominating Subcommittee
- **Cyber Security Subcommittee has been disbanded because Cyber Security information can not be published.**
- Steve Nicolo was acting chair of the Network Subcommittee. With the disbanding of the Cyber Security Subcommittee Malcolm Weir has agreed to become the new chair of the Network Subcommittee.

Subcommittee's & Reports

■ CURRENT SUBCOMMITTEE REPORTS

- Nominating Committee S. Nicolo
- Radio Frequency S. Brierley
- Networking and Protocols S. Nicolo (Acting Chair)
- Recorder / Reproducer M. Buckley
- Telemetry Data Processing B. Fleury
- Cyber Security (New SC No Report) M. Weir (NEW)
- EITTS (former ETSC Report) G. Freaud
 - EITTS (European Initiative for Test & Telemetry Standardization)

Member Summary

	Last	First	Association	Member/alternate	Expires	Office	Committee	Last	First	Committee
1	Bender	Mark	Government	Aerospace Corp	2019	member	radio Freq			
2	Brierley	Scott	Industry	ULA	2021	Chair	radio Freq/transd	McNatt	William	radiofreq
3	Ellerbrock	Philip	Industry	Boeing	2023	Chair	TSCC			
4	Fleury	Brad	Industry	Edge Consulting	2020	Chair	Data multiplex / RF	Rob Tropa	Edge	rec/rep;data multi
5	Gabaldon	Albert	government	China Lake	2021	member	R & R			
6	Gilles	Freaud	Industry	Airbus	2021	member		Mayer	Gerhard	
7	Graham	Richard	Government	China Lake	2023	member	R & R			
8	Klein	Wayne	Industry	Apogee Labs	2022	Treasurer	Network&Protocol	Weaver	Bob	data multi, Net
9	Marcellin	Dr. Michael	academic	Univ of AZ	2019	member		Creusere	Charles	
10	Moodie	Myron	Government	SwRI GDP	2019	member	Network&Protocol	Abbott	Ben	N&P
11	Nicolo	Steve	Industry	Space/Ampex	2020	Chair	Network&Protocol Nominating Committee	Weir	Malcolm	radiofreq
12	Penna	Sergio	Industry	Embraer	2019	member	Network&Protocol	Correa	Leonardo de Queiroz	
13	Sulewski	Joe	Industry	L-3	2018	member	Data Multiplex	Dehmet	Chris	rec/rep, datamult,Net
14	Weir	Malcolm	Industry	Ampex		Chair	Cyber			
15	Wilcox	Tab	government	YPG	2021	member	R & R			
	Aggen	Cliff	IFT			IFT				
	Eccles	Lee	Emeritus	Boeing		member				
	MacMedan	Merv	Emeritus			member	data comp			
	Straehley	Erwin	Emeritus			member	data multiplex			

TSCC Activities

- **TSCC Spring 2020: Canceled due to Covid**
- **TSCC Fall 2020: ITC 2020 was canceled due to Covid. The Fall 2020 meeting will be a WebEx meeting.**
- **TSCC Spring 2021 is Webex**
- **ITC will resume in the Fall and in person meetings should resume.**

TSCC Activities

- **R & R Group (More detail in R & R Report)**
 - IRIG 106 Chapters 6, 9R, 10, 11
 - 2021 Pink Sheet submitted and reviewed
 - *In the queue with the RCC Tech Editor*
- **RF Group**
 - IRIG 106 Chapter 2 Appendix 2A Frequency Considerations for Telemetry
 - 2021 Review of Pink Sheet, TG 177 rewrite of Appendix 2-A Redefines Modulations - The RFSC is of the opinion that although the three modulations described in this chapter were defined correctly, their definitions contained some inconsistencies that needed revision.
 - NEW May 2021 Review of Pink Sheet, TG 176 This task addresses Adjacent Channel Interference (ACI) for coded waveforms and also revisits the ACI recommendations for non-coded waveforms given advancements in digital receiver technology over the last couple of decades.
 - IRIG 118 Vol 2
 - 2021 Review of Pink Sheet, TG 178 the chapter was written to address the testing of adaptive equalizers specifically.

Actions

- S. Nicolo to update member list on web site.
- W. Klein to look into new plaque vender with more reasonable cost. (DONE)
- Resolve/Update Attendance History Document (Treasurer will then take ownership)..... OPEN
- One year Plaques still need to go out... OPEN

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Treasurer Report – Spring 2021

May 20, 2021
WebEx

Treasurer Report

for the Period 12/1/20 thru 11/30/20

No Change in Finances

■ INCOME (Total)	\$ 0.00
■ EXPENDITURES (Total)	\$ (0.00)
■ Net Increase (Decrease) in Cash	\$ 0.00
■ Beginning Cash Balance	\$ 2478.00
■ Ending Cash Balance	\$ 2478.00

- Note(s): 1) TSCC account #: xxxxxx2632
2) Covid-19 Pandemic Continued

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC FALL 2020
Nominating
Subcommittee Report

November 30, 2020
WebEx Telecon (Due to Covid)

Nominating Sub-Committee Membership

- Current Nominating Subcommittee Membership
 - CHAIR ...S. Nicolo Chair
 - Scott Brierley - United Launch Alliance
 - Wayne Klein - Apogee Labs

Sub-Committee Focus

- The nominating sub-committee shall **propose TSCC members and officers** for approval by the membership.
- **Prospective TSCC members and officers can be nominated by the TSCC membership or by a nominating subcommittee.**
- All nominations must be approved by a membership **vote.**

TSCC Membership Rules

- The TSCC shall have **16 members**.
- **Adequate representation** shall always exist from the **diverse groups constituting the telemetry community**
- Representatives of **government and commercial entities** shall **each** constitute a **minimum of one-third (1/3)** of the regular TSCC Membership
- The **remaining one-third (1/3)** may include, **but is not limited to those in commercial, government, and academic organizations**
- Membership by representatives of non-US entities shall not exceed 25% of the total regular membership

Member Summary

	Last	First	Association	Member/alternate	Expires	Office	Committee	Last	First	Committee
1	Bender	Mark	Government	Aerospace Corp	2019	member	radio Freq			
2	Brierley	Scott	Industry	ULA	2021	Chair	radio Freq/transd	McNatt	William	radiofreq
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5	Gabaldon	Albert	government	China Lake	2021	member	R & R			
6	Gilles	Freaud	Industry	Airbus	2021	member		Mayer	Gerhard	
7	Graham	Richard	Government	China Lake	2023	member	R & R			
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10	Moodie	Myron	Government	SwRI GDP	2019	member	Network&Protocol	Abbott	Ben	N&P
11	Nicolo	Steve	Industry	Space/Ampex	2020	Chair	Network&Protocol Nominating Committee	Weir	Malcolm	radiofreq
12	Penna	Sergio	Industry	Embraer	2019	member	Network&Protocol	Correa	Leonardo de Queiroz	
13	Sulewski	Joe	Industry	L-3	2018	member	Data Multiplex	Dehmet	Chris	rec/rep, datamult,Net
14	Weir	Malcolm	Industry	Ampex		Chair	Cyber			
15	Wilcox	Tab	government	YPG	2021	member	R & R			
	Aggen	Cliff	IFT			IFT				
	Eccles	Lee	Emeritus	Boeing		member				
	MacMedan	Merv	Emeritus			member	data comp			
	Straehley	Erwin	Emeritus			member	data multiplex			

TSCC Membership Terms

- TSCC Membership Terms are for five years
 - Terms are staggered so that the terms of 20% (rounded to the nearest integer) of the regular membership end each year
 - Members may be re-nominated for additional terms by the nominating sub-committee.
- 5 Year Term Expirations – Fall 2019: (Must Vote)
 - Mark Bender (Government): Would like to serve another term- MUST VOTE
 - Dr Michael Marcellin (Academic): Dr Marcellin will stay another year (to the end of 2021) or until he can be replaced.
 - Recommended a replacement (Chuck Creusere from New Mexico State- I will contact Chuck)
 - Myron Moodie (Government): NO LONGER A MEMBEDR:
 - Recommend a replacement (Todd Newton)
 - Sergio Penna (Industry).:: NO LONGER A MEMBEDR
 - Joe Suleski: NO LONGER A MEMBEDR

Membership Changes

- MEMBERS:
 - Short four members
 - Members Retiring from TSCC: Joe Sulewski, Myron Moodie, Sergio Penna.
 - Dr Michael Marcellin (Retiring from TSCC at the end of 2021 or until we can replace him)
- Voting on Members & Alternates:
 - Member Replacement for Myron Moodie (Todd Newton)- Resume to be distributed for vote. Will vote by mail.
 - Alternate for Steve Nicolo (Propose Tim Kelly – Delta Information Systems will distribute resume for a vote by mail)
- Alternates still needed for:
 - Mark Bender
 - Albert Gabaldon
 - Tab Wilcox
 - Malcolm Weir (Just became Full Member)
 - Richard A. Graham Jr (Has proposed alternate)
 - Steve Nicolo (Propose Tim Kelly – Delta Information Systems)

TSCC Membership

- Academia (1)
 - (*3) Dr. Michael Marcellin
- Government (5)
 - Mark Bender
 - Albert Gabaldon
 - Richard Graham
 - (*1) ~~Myron Moodie~~
 - Richard Graham
 - Tab Wilcox
- Industry (7)
 - Scott Brierley
 - Brad Fleury
 - Philip Ellerbrock
 - Wayne Klein
 - Steve Nicolo
 - (*2) ~~Sergio Penna~~
 - (*2) ~~Joe Sulewski~~
 - Gilles Freaud
 - Malcolm Weir
- Ex-Officios
 - Clifford Aggen (IFT Rep)
- Members Emeritus
 - Lee Eccles
 - Merv MacMedan
 - Erwin (Terry) Straehley

(*1) Myron is leaving. Has proposed a replacement (Todd Newton)

(*2) Sergio P. & Joe S. are no longer in TSCC

(*3) Dr Michael Marcellin will be retiring when we can replace him.

Open Membership Slots

- We currently have 12 of 16 full members as of Fall 2020.
- Need 1 Government member to maintain our approx 33% split between industry, academic and government.... 1 was proposed and resume will be sent out-Todd Newton
- NEED Additional
 - 1 + Academia
 - 1 + Industry

TSCC Officers

- **Officers shall serve for a two year term of office**
 - The **term** of office shall begin at the **start of the TSCC Year** in even calendar years
 - The **TSCC Vice-Chair** succeeds to the Chair's position to fulfill a two year term as Chair
 - The Secretary-Treasurer may be re-elected
 - **Officer Terms up December 31, 2020**
- Officers
 - Chair – New Chair Philip Ellerbrock
 - Vice-Chair - TBD
 - Secretary-Treasurer – Wayne Klein
- Subcommittee Chairs
 - All filled at this time

Open Actions

- TSCC has 4 open position.
 - 1 + Gov - 1 possible-Todd Newton)
 - 1 + Academia -1 recommended must contact
 - 1 + Industry
- Members needed (major focus)
- Alternates still needed for:
 - Mark Bender
 - Albert Gabaldon
 - Tab Wilcox
 - Malcolm Weir (Just became Full Member)
 - Richard A. Graham Jr (Has proposed alternate)
 - Steve Nicolo (Propose Tim Kelly –Delta Information Systems- will distribute resume for vote)

TELEMETERING STANDARDS COORDINATION COMMITTEE



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RF Sub-Committee Report – Spring 2021

May 20, 2021
WebEx

Sub Committee Membership

- Scott Brierley, Chairman
- Members:
 - Johnny Pappas
 - Mark Bender
 - Mark Dapore
 - Brad Fleury
 - Lloyd Lautzenhiser
 - Bill McNatt
 - Rich Siegal
 - Brad Oney
 - James Carwell

Sub-Committee Focus

- RF Subcommittee reviews standards dealing with the Radio Frequency (RF) telemetry link
- Current standards
 - RCC IRIG-106
 - RCC IRIG-118
 - RCC RF Handbook
 - CCSDS-401
 - CCSDS-411
 - SGLS
 - STDN
 - 1451.5

Significant Activity

- Pink Sheet Review of IRIG-118, Volume 2, Chapter 10, TG-178
 - Test Procedures for implementing multipath channel conditions
 - IRIG 106 had added a telemetry channel model
 - IRIG-118 updated to add methods to test an IRIG-106 compliant multipath channel
 - Modulation scheme performance
 - Coding Gain
 - Characterizing equalizer gain
 - Etc
 - Standard reviewed by the RF Subcommittee and comments provided to RCC

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2021 Telemetry Data Processing Committee Report

Brad Fleury
Edge Consulting and Sales

May 20, 2021

WebEx

Committee Members

- Brad Fleury – Director Edge consulting and sales
- Alternate – looking for a new person

Sub-Committee Standards

- Current standards
 - IRIG-106 -17 (-19)
 - Telemetry App's Handbook.
 - TMATS use cases, complete but updates are made as needed
 - RCC XML handbook for IHAL and DDML XML

Sub Committee Membership

Looking for new members

Jon Morgan – possible replacement needed

Joe Sulewski –

Joe Merritt – part time Kratos

Jack Sheldon

Erwin Straehley

Duane Wheaton

Sub-Committee Focus

- Very low activity last year
- Discussion about release of 218-19
 - Tm over ip spec has been released
 - Vendors and customers are using new spec

Open Actions

- Support RCC ongoing efforts:
 - TMATS Handbook releases
 - IRIG standards
- Support RCC –TG Telemetry Data Processing telecons and RCC meetings.

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC FALL 2021 Networks Subcommittee Report

May 20, 2020
WebEx Telecon (Due to Covid)

Sub Committee Membership

- Steve Nicolo, (Previous Acting Chair) – GDP Space Systems, Ground Telemetry - **Malcolm Weir is the new Network Subcommittee Chair -Ampex**
 - Ben Abbot, Southwest Research Institute
 - Rich Hoffman, GDP Space Systems
 - Gary Thom, Delta Information systems
 - Wayne Klein, Apogee Labs
 - William Malatesta, NAVAIR
 - Hyong Yi, Curtiss-Wright Controls, Avionics and Electronics
 - Robert Weaver, Apogee Labs
 - Chris Dehmelt, L3 Telemetry – East
 - Malcolm Weir, Ampex
 - Dave Buckley, Curtiss-Wright Controls

Subcommittee Focus

Standard	Location	Contact
RCC IRIG-218		New release coming out if 2019
RCC IRIG-106 Chapters 21-28	irig106p2-chpt21-28.zip	Secretariat Range Commanders Council U.S. Army White Sands Missile Range New Mexico 88002-5110
SCPS	http://www.scps.org	http://www.scps.org/html/contact_points.html
CCSDS	http://public.ccsds.org/default.aspx	http://public.ccsds.org/about/contact_us.aspx
TCP (Transmission Control Protocol)	http://www.faqs.org/rfcs/rfc793.html	
UDP (User Datagram Protocol)	http://tools.ietf.org/html/rfc768	
SNMP (Simple Network Management Protocol)	http://tools.ietf.org/html/rfc3411	http://tools.ietf.org/html
EEE-1588 (A Precision Clock Synchronization Protocol for Networked MEasurement and Control Systems)	http://ieee1588.nist.gov	http://www.ieee-ims.org/site/index.php
FTP (File Transfer Protocol) http://www.ietf.org/rfc/rfc959.txt http://tools.ietf.org/html	FTP (File Transfer Protocol) http://www.ietf.org/rfc/rfc959.txt http://tools.ietf.org/html	FTP (File Transfer Protocol) http://www.ietf.org/rfc/rfc959.txt http://tools.ietf.org/html

TSCC Activities

- IRIG 218 – 20 was released last year (Major Task)
- Network Related work covered in the RR Report

Open Actions

- As an ongoing action we have been looking for a permanent chairmen of the TSCC Network Subcommittee. With the disbanding of the Cyber Security Subcommittee (because Cyber Security information can not be published) Malcolm Weir has agreed to become the new chair of the Network Subcommittee.

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Recorders & Reproducers Report – Spring 2021

May 20, 2021
WebEx

Sub Committee Membership

- Mark Buckley (Telspan Data), Chairman
- Albert Gabaldon (NAVAIR-CL), Alternate Chairman

1.	Balázs Bagó	Safran
2.	Bob Baggerman	ATAC
3.	Paul Carrion	Calculex
4.	Chris Dehmelt	L3-Harris
5.	Justin Denning	EAFB
6.	Paul Ferrill	ATAC
7.	<i>Tim Gatton</i>	<i>Aerogear Telemetry (MIA)</i>
8.	Dan Green	Safran
9.	Bill Harrison	Smartronix
10.	Eric Lamphear	Telspan Data
11.	Jake Layer	Smartronix
12.	Mike Lockard	EMC Corp
13.	Hung Mach	Boeing
14.	Gary Marker	Wideband
15.	Doug Novak	Tyndall AFB
16.	Johnny Pappas	Safran
17.	Steve Proudlock	Net Acquire
18.	Charles Reyzer	Boeing
19.	Christian Rueck	Databus Tools
20.	Malcolm Weir	Ampex
21.	Craig Wierzbicki	Curtiss Wright
22.	Rick Williams	SDS

Sub-Committee Focus

- Data Recorders, Ground and Airborne
- Standards in Place
 - IRIG 106 – Range Commanders Council (RCC) Telemetry Standards
<http://www.wsmr.army.mil/RCCsite/Pages/Publications.aspx>
 - STANAG 4575 – North Atlantic Treaty Organization (NATO) Standard Agreement (STANAG) – NATO Advanced Data Storage Interface (NADSI) Allied Engineering Documentation Publication (AEDP)
<http://www.nato.int/STRUCTUR/AC/224/standard/4575/4575.htm>

Significant Activity

- RCC Telemetry Group Recorder & Reproducer Committee
 - IRIG 106 Chapters 6, 9R, 10, 11
 - 2021 Pink Sheet submitted and reviewed
 - *Editorial comments from Christian Rueck*
 - *Corrections made*
 - *In the queue with the RCC Tech Editor*

Significant Activity

Changes to This Edition of Chapter 11

Paragraph	Change Request	Description
<u>11.2.2.3</u>	RR_20_CR-01	Additions and corrections to PCM format 2
<u>11.2.1.1.g</u>	RR_20_CR-04	Clarification of overflow bit
<u>11.2.10</u>	RR_17_CR-03	Institutional adjustment for video formats
<u>11.2.10.2</u>	RR_17_CR-03	Video Format 1 is Deprecated.
<u>11.2.10.3</u>	RR_17_CR-03	Video Format 2 is Laundered.
<u>11.2.10.4</u>	RR_17_CR-03	Video Format 3 is Deprecated.
<u>11.2.5.3</u>	RR_19_CR-05	Place Holder for Analog Data Packet, Format 2
<u>11.2.5.4</u>	RR_19_CR-05	Added Analog Data Packet, Format 3 (IF I/Q Recording)
<u>11.2.1.5</u>	RR_17_CR-01	Added note regarding 'proposed' version 2 header

Changes to Chapter 9R

<u>Chapter 9</u>	RR_20_CR-03	Typo for the ARINC 429, sub-channels should be busses
<u>Chapter 9</u>	RR_17_CR-03	Added/updated Video attributes for information details
<u>Chapter 9</u>	RR_19_CR-05	Added Analog Data Packet, Format 3 attributes

Changes to Chapter 6

<u>Chapter 6</u>		
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Significant Activity

- Weekly Telcons held since Dec 2020
- *Worked with TDP committee to resolve Q-Group (formally S-Group)*
- *Much discussion on Distributed DAU's and multiple R groups*
- *After ~5 years finally making progress on V2 header*

Significant Activity

■ The Q-Group

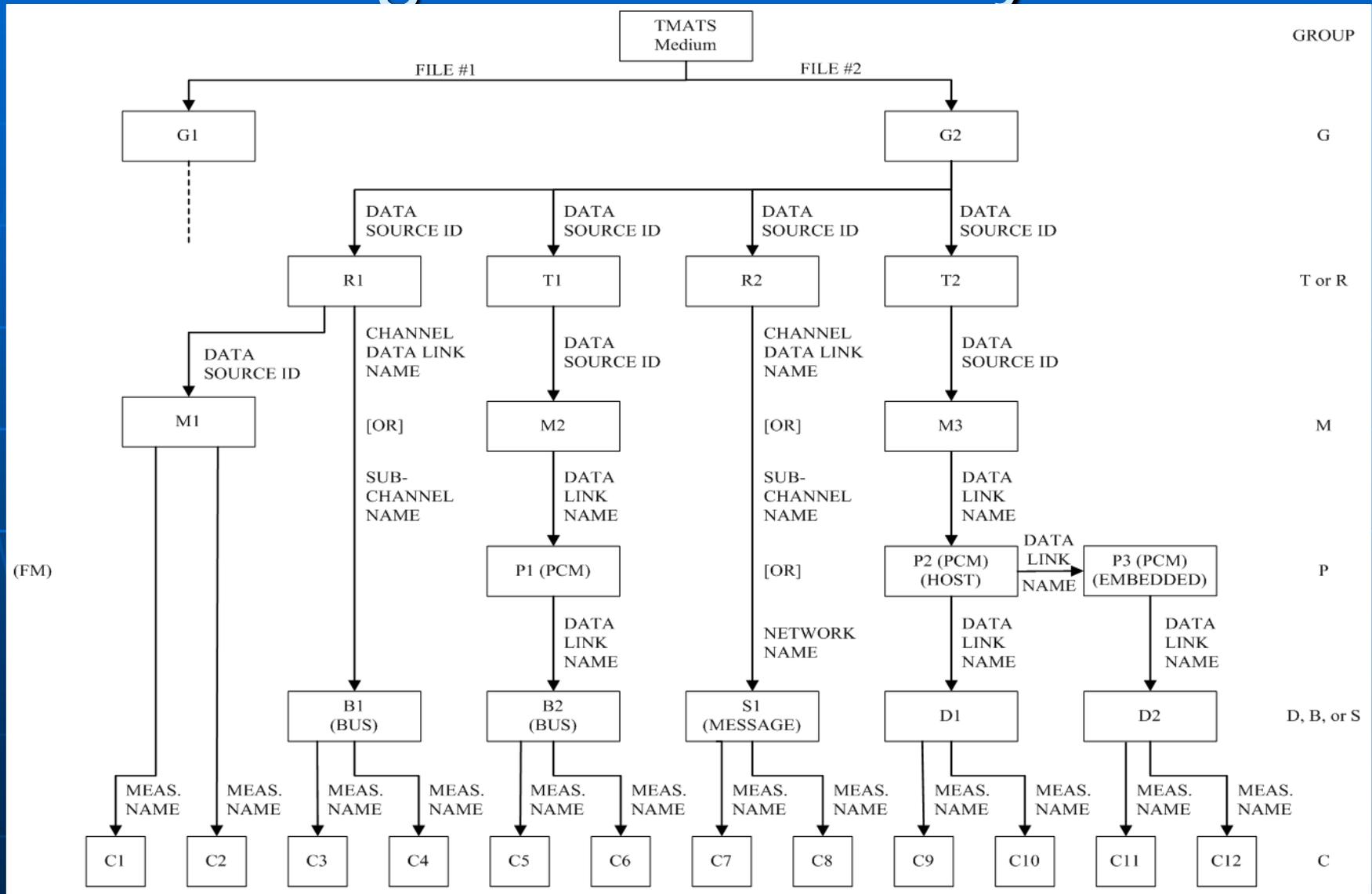
- *Started life as small upgrade to existing S-Group*
- *A GREAT DEAL of effort...*
 - *Left S-Group alone*
 - *Created Q-Group*
- *Still need to finalize*
 - *Comments received from the Pink Sheet*
 - *Updates to the handbook*
- *Responsibility of the TDP committee*
 - *TG-Tasks 170 & 171*

Significant Activity

■ Distributed DAUs

- *Started Life due to one vendor's implementation and interpretation of CH9. Figure 9-1 (next slide)*
- *Namely: **MULTIPLE R's***
 - ***NOT** illegal or unlawful*
 - ***NOT** uncompliant*
 - ***BROKE** lots of software suites!!!*
- *Numerous and varied installations of Distributed DAUs*
 - *All legal, All compliant, All a software nightmare*
- *Dr. Bago wrote up a white paper describing the various use Cases*
- *AI. Create a new CR to implement RECOMMENDED implementations of Dist DAUs*

Significant Activity



Significant Activity

- The infamous Version 2 Header
 - *CR that is ~5 years old*
 - *(Requirements are varied...)*
 - *Attempt No 1*
 - *Combine with TmNS Header (?)*
 - *Save software efforts, development, costs*
 - *This will 'eventually' become UDP Format 4*
 - *Attempt No 2*
 - *Mr. Weir suggested:*
 - *Existing secondary header meets most of the requirements*
 - *Tweak the existing reserved bits to meet last requirements. (32Bit)*
 - *BUTT UGLY but doesn't break anything (In the recorder.)*

Open Actions

1. Complete Q-Group
2. Create and finalize CR for Distributed DAUs
3. Finalize UDP Format 4
4. Finalize V1-2021 header

RnR CRs for 2021+

CR No	Description	Status
RR_17_CR-006 (CR)	UART, First Packet Flag	Working
RR_18_CR-015 (CR)	PCM, unpacked 16bit	Working
RR_19_CR-005	IF Recording – Format 3 Format 2 - TBD	Format 3 competed Format 2 ?????
RR_17_CR-001	Ver 2 Packet Header	Working
RR_19_CR-003	Message Data Structure Packet	Finalized?
RR_19_CR-004	Network Based Files (STANAG Format)	Working
TSCC_RR_20_CR-02	.CMD for open/closed files	Proposed...

Weekly Telcons

1. VERY Productive
2. Very short
3. Wednesday's 9-10/11AM (Calif time)

Note. DoD's M\$ Teams contract (aka CVR) will sunset 15 June.

New Teams URL will be required.

Unknown if other than DoD will be able to access it.



TELEMETERING STANDARDS COORDINATION COMMITTEE



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Cybersecurity Subcommittee Report – Spring 2021

LAST REPORT FOR THIS COMMITTEE

May 20, 2021
WebEx

Sub-Committee Focus

- Cybersecurity for Test Articles, Telemetry Links and Ground Systems
- Standards in Place
 - None Identified
 - See next slide

Significant Activity

- At the Fall 2020 meeting it was recommended that the Cyber Security Subcommittee be disbanded due to the fact that we can not publish Cyber Security information on open TSCC Site because of its sensitive nature. This is the last Cyber Security report.