



# PSMA

## Reliability Committee

**TIME:** Wednesday, 8/12/20, 11-12pm CST

**PLACE:** Zoom (669-900-6833 or 408-638-0968), 272 780 335, <https://zoom.us/j/272780335>

**MINUTES:** [https://www.pdma.com/technical-forums/reliability/meeting\\_minutes](https://www.pdma.com/technical-forums/reliability/meeting_minutes)

**ATTENDEES:**

PRESENT?	COMMITTEE MEMBER
X	Tony O'Brien, Cisco – Co-Chair
X	Brian Zahnstecher, PowerRox – Co-Chair
X	Joe Horzepa, PSMA – PSMA Representation
	Lisa Horzepa, PSMA – PSMA Representation
X	John Horzepa, PSMA – PSMA Representation
	Ada Cheng, AdaClock – Member
	Rick Fishbune, IBM – Member
	Patrick Le Fèvre, Powerbox – Member
	Tim McDonald, Infineon – Member
	Steve Miller, SL Power ( <i>RETIRED</i> ) – Member
	Kevin Parmenter, Taiwan Semi – Member
	Shane Callanan, AEI – Member
	Greg Miller, Silanna – Member
	Mike Seeman, Eta One Power – Member
X	Ed Massey, Ed Massey Consulting – Member
X	Eric Swenson, IBM – Member
	Finbarr Waldron, Tyndall National Institute – Member CONFIRM MAILING LIST
X	Bill Mallory, SL Power – Member
	Jon Fifield, Astronics – Member
	Burak Ozpineci, ORNL – Member – CONFIRM MAILING LIST
	Dao Zhou, Aalborg University – Member
	Huai Wang, Aalborg University – Member
	Shobhana Punjabi, Cisco – Member
	Patrick McCluskey, Univ of MD, CALCE Lab – Member
	Abhijit Dasgupta, Univ of MD, CALCE Lab – Member
	Hamish Laird, ELMG Digital Power – Member
	Francesco Carobolante, IoTissimo – Member
X	Nitish Agarwal, SL Power – Member
	Manish Bhardwaj, TI – Member
	Evan Lucore, Artesyn – Member
	Gary Gong, Cisco – Member
X	Denis Downey, Cisco – Member

\* Attending APEC

GREEN = NEW MEMBER, 1<sup>st</sup> MEETING (i.e. – introduce yourself)

**ACTIONS (w/OWNER) HIGHLIGHTED BELOW**

**ACTION COMPLETED**

**AGENDA:**

- **New Comm Introductions / Membership**
  - Elevator pitch intros, roundtable.
    - NEW MEMBERS =

- New Member Recruiting
- **Comm Website / Purpose Statement**
  - Comm website up and running on PSMA.com ADA REPORTS FULL PSMA WEBSITE REVAMP UP BY END-JAN
    - **COMM = IF HAVE ANY GOOD RESOURCES, LINKS, PAPERS, ETC. TO POST ON WEBSITE (REMINDER, OPEN TO PUBLIC), THEN PLEASE SEND TO BZ & TO FOR POSTING VIA LISA.**
- **Initiatives**
  - New Committee Execution Strategy
    - Separate champions for key initiatives, run meetings accordingly.
    - 1. PS Comm Bus Reliability (*Brian*), 2. PTR Webinar(s) (*Tony*)
  - **Power Supply Communication Bus Reliability (BRIAN SPEARHEADS)**
    - Schedule (**BZ WILL COMMUNICATE TO BoD IN MTG THIS FRI**)
      - 1/6/20: Project Kickoff Meeting
      - **PROJECT FROZEN PENDING BOB RESCHEDULING**
      - ~~5/18/20~~: Chapter 3 Completion Target
      - ~~5/25/20~~: Project Meeting (target CH. 2-3 REVIEW)
      - ~~6/1/20~~: Chapter 4 Completion Target
      - ~~6/8/20~~: Project Meeting (target CH. 4 REVIEW)
      - ~~6/15/20~~: Chapter 5 Completion Target
      - ~~6/21/20~~: Project Meeting (target CH. 5 REVIEW)
      - ~~7/6/20~~: Chapter 6 Completion Target
      - ~~7/13/20~~: Project Meeting (target CH. 6 REVIEW)
      - ~~7/13/20~~: Chapter 7 Completion Target
      - ~~7/20/20~~: Project Meeting (target CH. 7 REVIEW)
      - ~~7/20/20~~: Chapter 8 Completion Target
      - ~~7/27/20~~: Project Meeting (target CH. 8 REVIEW)
      - ~~7/31/20~~: Presentation of Draft Deliverables for Final Editing (**END OF SPECIAL PROJECT**)
      - ~~8/31/20~~: Presentation of Final Deliverables
      - ~~???~~/20: Webinar Target
    - Actions
      - SubComm Review Needs: **no team support requested until project back on-track**
      - TO notes we can hone expectation and “editing quality level” so **NEEDS TO PROVIDE FIRST-PASS REVIEW BEFORE PUSHING OUT RAW CAPTURE.**
      - Steve m. Notes proj should be sure to capture content/app exams outside of ICT (auto, medical, other common busses).
      - Project in frozen status, need to workout pivot/recovery offline with bob. **BZ/TO WILL ADDRESS WITH BOB DIRECT** Bob reached out on 7/20 to report he is back with a major focus on our project, but has been unresponsive since so not sure what is going on. **BZ + JOE H. TO REACH OUT OFFLINE AND FIGURE OUT SITUATION, PLAN MOVING FORWARD.**
  - PTR Webinars (**TONY SPEARHEADS**):

- Topics? Speakers? Schedule? FOR ANY WEBINAR, DECIDE IF PROPOSE TO PTR OR IF RELIAB COMM INDEPENDENT EVENT. TO PREFERS TO PRIORITIZE FOR PTR, DEFAULT TO INDY IF JUSTIFIED.
  - **COMM ACTION: WEBINAR TOPICS, PERHAPS FROM WITHIN COMM.**
  - Bob White, Power Supply Communication Bus Reliability (pending special project activities)
  - Steve Miller recommends Red Tiger Security, Jonathan Pollet (APEC/PSMA/EPRI '13 "Are you smart enough for the Smart Grid?" Workshop...see full report here: <https://www.pσμα.com/technical-forums/energy-management/resources>)...Ada also attended and confirmed interest. **TO WILL REACH OUT TO JONATHAN TO GAUGE INTEREST, SOLICIT PROPOSAL, DET. IF APPROPRIATE FOR PTR OR STANDALONE.** No action taken, **TO WILL ATTEMPT THIS MONTH.**
    - *"He presented a great high level view of IoT security applied specifically to malicious hacks of industrial and grid controllers."*
  - **Charles Hymowitz, AEI Systems**
    - *"Test vs. Analysis; what's the right ratio?"*
    - **Consider for PTR webinar? BZ TO REACH OUT. CHARLES CONFIRMS PRELIM INTEREST, ASKING FOR TIMEFRAME...** ADA MENTIONS MAY HAVE ALREADY PRESENTED, **JOHN/BZ WILL INVESTIGATE** Has not given before so free to do so. PTR Comm requested more detail to justify as part of supporting PTR series. **BZ WILL PING AGAIN FOR RESPONSE TO PTR CLARIFICATIONS.** PTR Co-chairs now pinging (last 8/9/20)) Charles direct for date.
  - **Doug Kirkpatrick, CEO, Eridan Communications**
    - *"System Reliability for Small Cells Enable 5G"*
    - **Consider for PTR webinar? BZ TO REACH OUT. GIVING COMP TIME TO WORK OUT LOGISTICAL ISSUES FIRST, REVISIT IN LATER AUGUST.**

- **General**

- Post-mortem PS SW/FW Reliability Report Update
  - Powerbox: given to design teams, lot of interest, inhibited by language barrier (Japanese in this case).
  - SL: given to teams, already have Reliab stakeholders involved, driving change in FW review process.
  - IBM: presented to some suppliers, neutral response so far, awaiting next major project kickoff for true assessment.
- Any other revenue-generating thoughts for PSMA?
  - Virtual Workshop (recent '20 Cap & Mag Virtual Workshop success as example)
    - Very well-received thus far, most seem to be ok with virtual format.
    - Joe notes guidance to reduce proposed event budget by ~20% for offset, F2F expenses, and pass through to attendee registration. Also, consider turning PS SW/FW Reliability Report into workshop theme.
    - **Viability determined by success of existing webinar efforts.**
  - Standards (primarily through conversion of existing project outputs)
    - Input into IPC-9592B standard update. Consider SW/FW input? **Rick former colleague of IPC CTO (Matt Kelly), will work with IPC/PSMA efforts to cultivate opportunity here. BZ to facilitate email discussion with Mike Hayes as part of overall PSMA/IPC collaboration efforts.** SW/FW report currently with IPC for

review/feedback/suggestions. Eric also notes deep experience with this and interest in efforts.

- Offer supporting resources to enable utilization of PS SW/FW Reliability Report.  
**COMM ACTION TO SUGGEST OTHER POTENTIAL RESOURCES/TOOLS TO CREATE TO SUPPORT THIS.**
  - For example, extract a checklist from report to simplify barrier to entry (i.e. – team code review checklist). **COMM ACTION (ADA SPEARHEADING) TO PROPOSE LIST OF POTENTIAL TOOLS FOR DETERMINING ACTIONABLE PRIORITIES.** White paper? Checklist?
    - Thoughts from Ada: “Dashboard” of Metrics, Process Diagram, Prototyping & BIST...**ADA WILL EMAIL LIST w/ DESCRIPTIONS.**
    - Thoughts from Nitish: commonly challenged by disconnect between SW/FW & HW stakeholder expectations...could be helped by Process Checklist (for code reviews, functional flowchart/review, test plan, etc.).

- **Next Meeting**

- Wed 9/9/20, 11am CST.
- Regular Schedule = 2<sup>nd</sup> Wed of each month, 11am-12pm CST