

Systems Security Engineering Committee June 17, 2015

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Summary of SSE Committee 2015 Achievements, Current Efforts, & Plans



	Topic	Activity
SSE	Industry perspective	Developed industry perspective reports on "Suggested Language to Incorporate System Security Engineering for Trusted Systems and Networks into Department of Defense Requests for Proposals; January 2014" (2) companies provided reports directly to OSD SE, Deputy for System Security and PP in 2014 Request a DASD(SE) response to perspectives submitted.
	INCOSE & NDIA SSE Education / Training	Testing framework and competency model using SSE. Provided input to INCOSE / NDIA Education and Training committee. Update provided 4/22.
		1 Day Systems Security Metrics Workshop October 27th, 2014
	Metrics Project	 Joint DT&E and SSE Committee meeting on Metrics & Measures. 4/22/2015 Meeting included PPP relevant updates and activities from OSD SE PPP, briefs from Trusted Suppliers Group, and OSD DT&E. Metrics and measures summary and proposed project paper outline with solicitation for authors
	SSE Committee Meeting	Working meeting following the June 17 th SED meeting to focus on the metrics and measures paper. Plan to present results at the fall SE Conference.
	INCOSE SSE Committee	INCOSE SSE Committee has interest in joining the NDIA SSE Committee Metrics Project. Potential collaboration opportunity at the INCOSE July 13-16th workshop. Details TBD.
SED	Developmental Test and Evaluation	2015: Cyber testing guideline connections to Program Protection Planning NDIA DT&E Committee to join the SSE Committee Metrics Project
	NDIA SE Division - Bi-Monthly me	eting 2

Completed

June 17, 2015

Current

Proposed

SSE Committee - 2015 Task Plan Projects Working Group



Projects in progress 2015:

- Metrics Project
 - Joint effort with NDIA SSE and DT&E
 - Interest from INCOSE SSE in collaboration opportunities.
- NDIA SE SSE Conference Track

Deliverables/Products

- System Security Metrics White Paper
 - A Framework for Evaluating System Security Risk.
 - Planned for completion and presentation by NDIA SE Fall Conference.

Schedule / Resources

- SSE & DT&E Committee Meeting on Metrics & Measures June 17th - Seeking authors
- Collaboration opportunity with INCOSE SSE July 13- 16, Seattle, WA
 - Virtual meeting opportunities

Issues / Concerns:

- Request DASD(SE) & Service Update on PPP and SSE.
- Meta messages
 - Expanding security related requirements but want "no cost" solutions due to stringent program price points.
 - Requirements are becoming more detailed in SOW & RFP language but not a real priority as it is not in sections L&M. This leads to security being traded away.

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Strawman Outline & Assignments Cyber(?) System Security Metrics & Measures



- 1. Intro
- 2. Prior Work

3. Relationship of Cyber System Resiliency for Mission Assurance & System Security (Program Protection)

- 4. Framework
 - A. CONOPS
 - B. Mission Threads
 - C. System Performance Parameters
 - I. Architecting for Cyber Resilienc
 - II. System Security Risk
 - i. Common Scale
 - ii. Normalized Figures Merit
 - iii. Weighting Factors for Criticality (?)
 - III. System Cyber Availability Measure Kpp System Survivability within (Cyber) contested environments
 - IV. System Security Assurance Cases
 - i. Validate & Verify
 - V. Programmatic Progress
- 5. Conclusion

Appendix - Taxonomy