

Proposed 2016 Tasks:

- Finalize and publish paper on NDIA SED website.
- Collaborate with government partners to prioritize follow-on investigations related to the paper.
- Review and comment on 2nd draft NIST SP-800-160
- Welcome collaboration opportunities with the Services and other government communities that have expressed interest.
- Security relevant Supply Chain Risk Management
- Cyber vs Software (*TBD*)
- Cyber for Platform / Embedded Systems. (*TBD*)

Schedule / Resources

- Q1
- Collect government feedback
 - Make edits to draft.
 - Prioritize topics to deep dive, expand, mature, etc.
 - GOMACTech Conference, Industry perspective panel on security relevant supply chain
 - AF Studies Board Workshop
- Q2
- Publish final paper
 - Draft new project charters.

Deliverables / Products

- Draft – A Path Toward Cyber Resilient & Secure Systems Metrics & Measures Framework.
Requested feedback from government partners
- Presented key concepts from the paper at the NDIA SE Conference 2015
- Submitted essay to INCOSE INSIGHT magazine for July 2016 theme issue: “Systems Engineering Guidance for Sustainably Secure Systems”

Issues / Concerns:

Formally request a **rep from each major prime** to be a core committee member. Consistent, regular, actively engaged participation will increase our effectivity & and better position us for greater impact.

Request increased participation and collaboration with government PPP specialists.

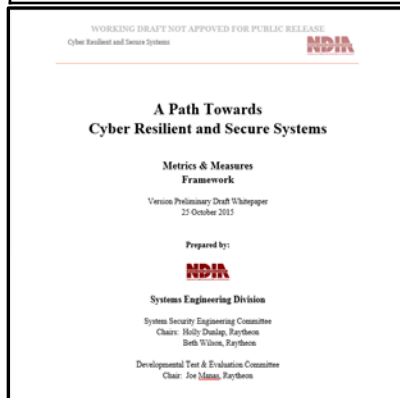
SSE Committee – 2015 Status

System Security Engineering

System Security Engineering Chair: Holly Dunlap, Raytheon
 Holly.Dunlap@Raytheon.com

Beth Wilson, Raytheon
 Beth_J_Wilson@Raytheon.com

2016 Tasks Planned	Status	Accomplishments (deliverables, etc.) - Comments
Whitepaper	Draft, soliciting feedback	Joint effort with NDIA SSE & DT&E Committee and in collaboration with DASD(SE) PPP, DOD CIO, Trusted Supplier Steering Group, Mitre AF Cyber Integration



Summary of Concepts Presented

1. PPP alignment to support the System Survivability (SS) KPP
2. Add resiliency as a countermeasure to holistic program protection
3. Risk
 - I. Common risk scale and normalized figures of merit across security specialties
 - II. Common levels for threats, vulnerabilities, likelihood, and impact.
 - III. Level of rigor concept and if not implemented system security specialty risk contribution to system security risk.
 - i. SCRM example of leveraging this concept
4. Cyber Resilient and Secure Systems Assurance Case

Cyber Resilient and Secure Systems

NDIA

Table of Contents

1 INTRODUCTION 1

2 BACKGROUND 3

3 KEY PERFORMANCE PARAMETERS 4

4 CYBER RESILIENCY IN THE SYSTEMS ENGINEERING PROCESS 5

5 A CASE FOR CHANGE 7

6 METRICS AND MEASURES 9

7 CYBER RESILIENT AND SECURE SYSTEMS ASSURANCE CASE 13

8 CONCLUSION 14

9 REFERENCES 15

Appendix A. Parallel Efforts and Prior Committee Work 17

Appendix B. Impact Definitions 19

Appendix C. Software Control Categories MII and SSAE 20

Appendix D. Security Software Criticality Levels 21

Appendix E. Abbreviations and Acronyms 22

Appendix F. JCIDS Manual Feb 2015 Appendix C Enclosure D 24

Partner with Trusted Suppliers Steering Group



- [GOMAC Tech Conference](#)
 - [March 14 - 17 Orlando, FL](#)
 - <https://www.gomactech.net/>
- Industry Panel Session:
“Systems Security Engineering and Cyber Resiliency: The Component Connection”
 - Facilitated by Holly Dunlap
Raytheon, NDIA SSE Committee Chair
 - Soliciting major defense systems integrators that are willing to share their experience, expertise, and company perspective on integrating security into their program supply chain strategies. There is a heightened level of interest in Trusted Suppliers. If you are interested in being a panel member, please contact Holly Dunlap 703-343-3002, Holly.Dunlap@Raytheon.com

Air Force Studies Board Activity: "Optimizing the Air Force Acquisition Strategy of Secure and Reliable Electronic Components: A Workshop"

16-18 March 2016 at the Keck Center in Washington, D.C.

Objectives

1. Introduce workshop committee members and participants
2. Receive briefings on current government, industry, and academia initiatives
3. Receive feedback from Air Force co-champions on the way ahead

The NDIA SSE Committee Chair, Holly Dunlap, will present on Thursday, March 17, to provide an industry perspective.

A workshop website is anticipated to be available soon.
For more information please contact Carter W. Ford.

Carter W. Ford
Program Officer
Air Force Studies Board
Phone: 202-334-2297 | Fax: 202-334-1553



The Air Force Studies Board brings together leading experts to participate in studies and workshops on topics of importance to the U.S. Air Force.