

NDIA Software Assurance Summit S&T Outbrief

Industry insights and ongoing assurance S&T efforts



What are Industry strategies and best practices?

- » Evaluation capability is needed
- » Ensure programs of record are going to require evaluations as part of doing business
 - Establish the market
- » STSC as a model for the EA/CAS
- » Vendors engage academia for research, new ideas
- » Emerging tools are being incorporated into curricula graduates are increasing familiar with new development techniques, tools
- » Vendor base for SwA tools exists although current tools don't yet address all SwA needs
- » Critical systems may need to live without the latest/greatest to avoid or reduce vulnerability risks

What lessons have been learned?

- » Make sure the need is there otherwise we won't get the necessary resources
 - ROI on the cost of having a vendor get their product certified
- » Allow vendors and suppliers to conduct most of the cert as centralized cert will be too expensive, take too long

Industry Thoughts Regarding DoD Strategy Elements



- Identify barriers to successful S&T
 - » Getting funding for research, transition, implementation
 - » Getting consensus on the direction of the research
 - » Limited amount of competent resources
 - » Chain for incorporating new SW technologies is too long
 - » Hard fuzzy problem
- Flesh out the detailed strategy plans and products
 - » Establish a research agenda
 - » Process eval (CMMI) vs product evaluation
 - Don't ignore the process side for S&T
 - » Tools and techniques exist or are emerging, catalog existing/emerging ideas and exploit those first
 - » Ensure new approaches are timely, relevant don't take too long for certs/evals
 - » Line between security/safety/quality isn't clear center may sell better if we increase scope

□ Identify Industry Enablers, e.g., IR&D, Methodologies, Processes

- » ROI, Market
- » Pay per vulnerability?
- » Clarity of requirements
- » Establish a culture of 'due diligence' in SW industry
- » Embedded r-t system processes could carry over to increase discipline on non-r/t SW



- Contact Open Group regarding industry collaboration on generation of a ULlike process and activity
 - » Test suites
- Get SwA on SSTC agenda
- Contact the Trusted Computing Group (Intel)
- Collaborate/coordinate research with Microsoft
- West Coast SW Development forum participation
- □ NPS/CMU/UTulsa COE?
- Consider holding our own workshop with Academia
- Upcoming HCSS workshop get word out via industry forums
- Vendor forums? RSA in Feb San Jose