

NDIA and DoD Joint Working Group

Cyber Security for the Advanced Manufacturing Enterprise

NDIA Systems Engineering Division Meeting
August 26th, 2015

Manufacturing is a Cyber-physical Business



Industry Week

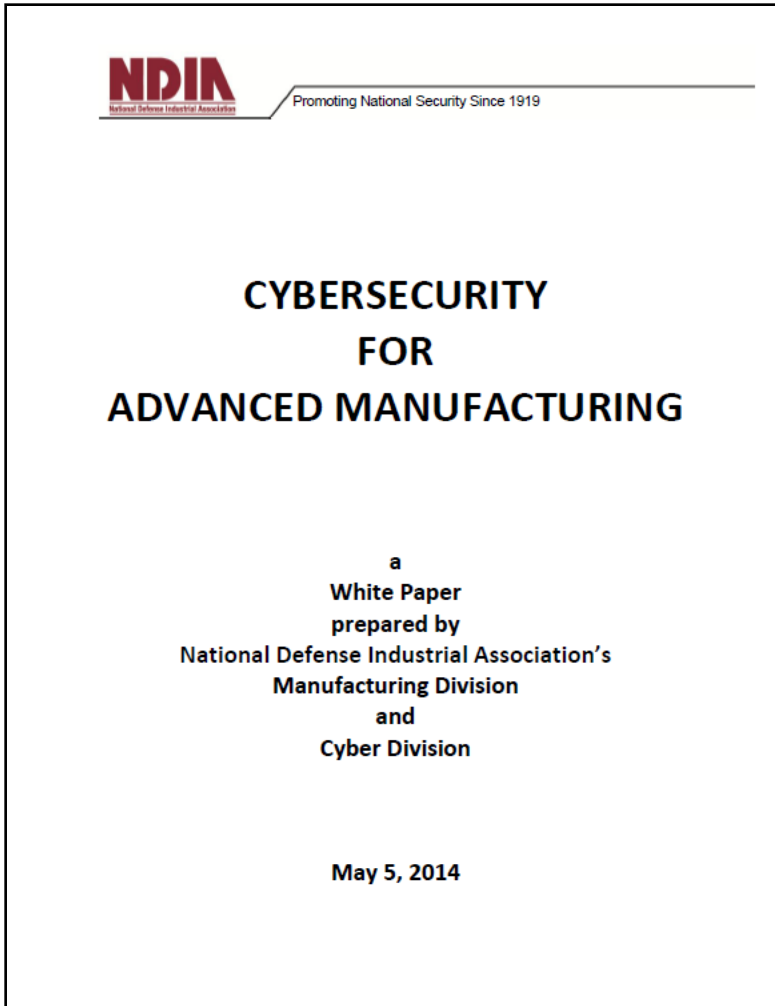
Common Visions
Smart Manufacturing,
Industrial Internet,
Industry 4.0, ...
The Internet of Things!

Advanced Manufacturing is:

- Driven by a “Digital Thread” of product and process information – ***valuable intellectual property (IP)***
- Networked at every level to gain efficiency, speed and quality
- Targeted by global cyber threats

NDIA White Paper

Protecting the Digital Thread



Manufacturing Concerns:

- **Theft of technical info** -- can compromise national defense and economic security
- **Alteration of technical data** -- can alter the part or the process, with physical consequences to mission and safety
- **Disruption or denial of process control** -- can shut down production

***A risk management problem.
Need resilience!***

www.ndia.org/Divisions/Divisions/Manufacturing

Joint Working Group - Cybersecurity for Manufacturing

NDIA Cyber, Manufacturing, SE and Logistics Divisions

- **NDIA White Paper revealed the threats to the “digital thread” that transits defense contractors’ manufacturing operations networks and control systems**
 - Theft of technical info -- can compromise national defense and economic security
 - Alteration of technical data -- can alter the part or the process, with physical consequences to mission and safety
 - Disruption or denial of process control -- can shut down production
- **NDIA has formed a new Joint Working Group to work with DoD**
 - Four NDIA divisions: Cyber, Logistics, Manufacturing and Systems Engineering
 - Corresponding Government offices: DoD CIO; Joint Staff J4, Knowledge-Based Logistics Division; Manufacturing & Industrial Base Policy; and Systems Engineering
- **Launch meeting is being scheduled for September or early October**
 - Its not too late to get involved

NDIA JWG 2.0 Members

As of August 18, 2015

NDIA

Dave Chesebrough (C)

Jason Gorey (C)

Larry John (M)

Tom McDermott (SE)

Kaye Ortiz (M)

Devu Shila (M)

Joe Spruill (L)

Rebecca Taylor (M)

Mary Williams (M)

Gib Gibson (C)

David Higgins (SE)

Tom McCullough (SE)

Mike McGrath (M)

Chris Peters (M)

Tim Shinbara (M)

Sarah Stern (SE)

John Toomer (C)

Jeff Wolske (SE)

Government

Brench Boden (M)

Melinda Reed (SE)

Don Davidson (C)

Bob Pickett (L)

Organizations
represented:

AEFI

AMT

ANSER

Boeing

BriteWerx

DBS

GA Tech

Lockheed Martin

MTEQ

NCMS

Raytheon

Six O'Clock Ops

The Lucrum Group

UTC