

MxD 15-01-02	Category: Recurring Manufacturing
Title:	Factory Operations & Industrial Control Systems Cyber Security Assessment, Tools and Solutions
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Project Team:	University of Illinois-Urbana Champaign, (UIUC), Heartland Science and Technology Group, HL Precision Manufacturing Inc., Integrity Technology Solutions, Lockheed Martin Corporation
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Summary:

The project team assessed the cyber security posture and general level of knowledge of cyber security principles of a typical small/medium manufacturer. As a contractor subject to the DFARS, the SME contractor's level of compliance with DFARS 252.204-7012 was also assessed and an estimate of costs to reach full compliance was conducted.

The team set out to build and deliver a tool that would: (1) help SME manufacturers comply with the DFARS and position their firms to address these emerging market forces and; (2) provide a sound platform to help prime contractors standardize cyber risk management within their supply chains and to provide a mechanism to monitor and validate conformance to the standard.

The team designed, developed, and tested a software application- the Cyber Secure Dashboard (the "Dashboard") - designed to allow SME manufacturers (and companies in many other industries) to achieve and maintain DFARS compliance and to meet a wide variety of cyber security requirements by implementing the cyber risk management process outlined in the NIST Cyber Security Framework. The product was tested by multiple SME manufacturers within their own operational environments and feedback from the testing lead to improvements in the software and additional knowledge regarding the impact of the DFARS to SME manufacturers. The Dashboard software and numerous reports and data have been delivered to MxD on terms established in the MxD Membership Agreement and grant award. The Dashboard software is prepared for initial market release and a commercialization plan is being finalized that will ensure ongoing product development and support and sustainability of the product in the market. Based on beta test feedback and general market feedback resulting from numerous product demonstrations the team believes that the Dashboard can significantly reduce the time, cost, and complexity of achieving and maintaining DFARS compliance and – depending upon market uptake – can significantly enhance the cybersecurity posture of the US manufacturing base.

The Dashboard can be accessed via its cloud portal at: <http://www.cybersecuredashboard.com/>