

CTC's Scott Zimmerman and Dom Glavach Present at National Institute of Standards and Technology Symposium

Symposium Focused on Cybersecurity for Direct Digital Manufacturing

Concurrent Technologies Corporation (CTC) employees Scott Zimmerman, Principal IT Advisor, and Dom Glavach, Principal Fellow, presented "Applying and Assessing Cybersecurity Controls for Direct Digital Manufacturing (DDM) Systems" at the National Institute of Standards and Technology (NIST) on February 3, 2015. The talk was based on their [whitepaper](#) of the same name.

Applying and assessing meaningful, impactful cybersecurity controls are ongoing and significant challenges for the DDM Community. These issues will be significant as the technology moves into the mainstream manufacturing supply chain.

Scott and Dom's presentation addressed cybersecurity threats to DDM, including insight into potential attack scenarios and motivations, gained through direct observations. They discussed the details of a security assessment performed on an Additive Manufacturing (AM) system used for rapid prototyping and complex part production within the defense industry. Protocols and associated recommendations for incorporating security best practices during system installation and subsequent operation were also presented.

Due to the potential economic and security implications of DDM, the industry is challenged to address cybersecurity risks in a timely way and develop standards, systems and processes for security before such wide scale adoption of the technology limits, or prohibits, the deployment of protection mechanisms. The negative impacts of failure to include security protocols at start-up can be seen within the power and energy sector, which has large deployments of programmable logic controllers (PLC) and supervisory control and data acquisition (SCADA) systems.

Find more information on the Symposium [here](#).



CTC employees Dom Glavach and Scott Zimmerman presented at the NIST Cybersecurity for DDM Symposium.