Cybersecurity

Can Standards Bring Clarity from the Confusion?

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FORMAT

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ABSTRACT

As cybersecurity concerns expand within the Industrial sector; customers, vendors and integrators are looking for guidance on how to address this issue. Within these groups people are looking towards standards and certification as a way to ensure security of their systems or to reassure others of the security of their offer without the need to become an expert in cybersecurity. However with a wide set of security standards to choose from there is often confusion on exactly what is covered by each specific standard. This presentation will explain the coverage and relevance of some of the key industrial security standards such as ISA99, ISASecure, IEC62443, NERC-CIP, IEC62351, Achilles, some of the IT derived standards as well as the concept of a Secure Development Lifecycle program. In addition, it will address some of the common steps in ensuring an end users site is secure; such as assessments, operating procedures, and the supply chain that goes well beyond product and system security. Finally an example of how standards drive the evolution of a secure controller will be shown with respect to the Modicon M580 ePAC from Schneider Electric.

ABOUT THE AUTHORS

David Doggett is the director for the Schneider Electric Industry cybersecurity program. He is responsible for all aspects of cybersecurity including roadmaps to provide a secure product and system offer for customers, security services business, a partnership ecostruxure for complementary offers, secure development process deployment within the product teams and incident response for security issues. David is currently active in multiple Industry security standards areas including IEC, ISA, ODVA, NEMA.

Jeff M. Miller is a Water Solutions Architect for Schneider Electric's Water Wastewater Competency Center. Jeff has a B.S. in Electrical Engineering and has worked as an engineering consultant and systems integrator for 24 years where he has delivered on over 30 wastewater treatment, 25 water treatment and 45 pump station projects ranging in size from small lift stations to 370 MGD treatment plants. Jeff is the co-founder and past chair of the NC AWWA-WEA Automation Committee and is also an active member of several national and regional Automation and Plant O&M related committees.

Mark Leinmiller has been an active participant in numerous AWWA and WEA events, presenting papers at national AWWA & IEEE conferences and at statewide water conferences, seminars, and workshops. He has presented papers at AWWA-WEA events in Georgia, California, North Carolina, South Carolina and Tennessee. Mark joined Schneider Electric's Water Wastewater Competency Center in 2006, and has worked with municipalities, contractors, engineers, systems integrators and equipment suppliers to insure well-coordinated project designs. Most recently Mark has been involved in the Smart Cities initiative. He has worked in the electrical, automation systems, energy efficiency and production arena for over 20 years, and holds a Bachelor of Science in Industrial & Systems Engineering from Georgia Tech.