IEEE SCADA Control Systems

Join us for our IEEE December Tech Talk on Cyber Security directly affects Control Systems: ISA112, SCADA Systems - International Society of Automation

Tuesday, December 14, 2021 at 4 pm PST

Live Stream from Seattle Washington

Control system cyber incidents affecting pipelines, rail, and aviation have caused catastrophic damage resulting in multi-billion-dollar impacts and hundreds of deaths. Detecting cyberattacks against IT and OT networks can be done today. However, the same cannot be said for detecting control system cyber incidents (attacks and unintentional incidents) that occur with the cyber insecure control system field devices. This means the TSA security directives of reporting incidents within 24 hours to CISA, conducting meaningful vulnerability assessments, and developing contingency and recovery plans for identified malicious cyber activity cannot be met for control system related incidents. Control system cyber security training, contingency, and recovery plans need to be developed based on real control system cases. Process sensor integrity and authentication is needed to recognize system/equipment malfunctions that could be cyber-related. There is a need for government and industry to coordinate the myriad standards and governmental activities on critical infrastructure cyber security to assure there are no inconsistencies. Government funding to accredited standards organizations like ISA and IEEE can accelerate the standards development.

Joe Weiss is an expert on instrumentation, controls, and control system cyber security. He has published over 80 papers on instrumentation and control systems, control system cyber security, chapters on cyber security for Electric Power Substations Engineering and Securing Water and Wastewater Systems, coauthored Cyber Security Policy Guidebook and authored Protecting Industrial Control Systems from Electronic Threats. He has amassed a database of almost 12 million actual control system cyber incidents. He is an ISA Fellow, Managing Director of ISA99, a Ponemon Institute Fellow, and an IEEE Senior Member. He was featured in Richard Clarke and RP Eddy's book- Warning – Finding Cassandras to Stop Catastrophes. He has patents on instrumentation, control systems, and OT networks and is a registered professional engineer and has CISM and CRISC certifications.

Joe Wiess expert on Instrument Controls

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