



Protecting Industrial Control Systems from Electronic Threats

By Joseph Weiss

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Aimed at both the novice and expert in IT security and industrial control systems (ICS), this book will help readers gain a better understanding of protecting ICSs from electronic threats. Cyber security is getting much more attention and 'SCADA security' (Supervisory Control and Data Acquisition) is a particularly important part of this field, as are Distributed Control Systems (DCS), Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs), Intelligent Electronic Devices (IEDs)-and all the other, field controllers, sensors, and drives, emission controls, and that make up the 'intelligence' of modern industrial buildings and facilities. This book will help the reader better understand what is industrial control system cyber security, why is it different than IT security, what has really happened to date, and what needs to be done. Loads of practical advice is offered on everything from clarity on current cyber-security systems and how they can be integrated into general IT systems, to how to conduct risk assessments and how to obtain certifications, to future trends in legislative and regulatory issues affecting industrial security.

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Editorial Review

Review

For many years, Joe Weiss has been sounding the alarm regarding the potential adverse impact of the law of unintended consequences on the evolving convergence between industrial control systems technology and information technology. In this informative book, he makes a strong case regarding the need for situational awareness, analytical thinking, dedicated personnel resources with appropriate training, and technical excellence when attempting to protect industrial process controls and SCADA systems from potential malicious or inadvertent cyber incidents. --Dave Rahn, Registered Professional Engineer, with 35 years experience.

"I look forward to reading Joe's book based on my professional association with him over the last twenty years. His passion, technical excellence and expertise drives him to follow through with questions others often fail to comprehend or are afraid to ask - What is the root cause? - What are the generic implications? I expect no less from this book. It should help to extend the knowledge and ability of control system and IT practitioners working in this important area. Perhaps more importantly, it should help policy makers and leaders interested in making informed decisions that should lead to improved cyber security in industrial automation and control systems." --Robert C. Webb, PE, Industrial Control Systems Secure, LLC.

"Protecting Industrial Control Systems from Electronic Threats offers a unique and fresh perspective into control systems security. Weiss thoroughly outlines important distinctions between traditional IT and control systems risks. He makes a compelling case for advancing higher education in this field and the need for new certification programs. If you deem critical infrastructure important, you should read this book." --Jon Stanford, CGEIT, CISM, CISSP, industry security expert and CISO.

About the Author

Joe Weiss is a Managing Partner for Applied Control Solutions, LLC. Joe has won numerous awards. He is an ISA Fellow, and has won ISA Power Industry Division Best Paper Award 2006; ISA Excellence in Documentation Award 2004; EPRI Presidents Award, 2002; and EPRI Chauncey Award Winner, 1999.

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