

Industrial Cybersecurity

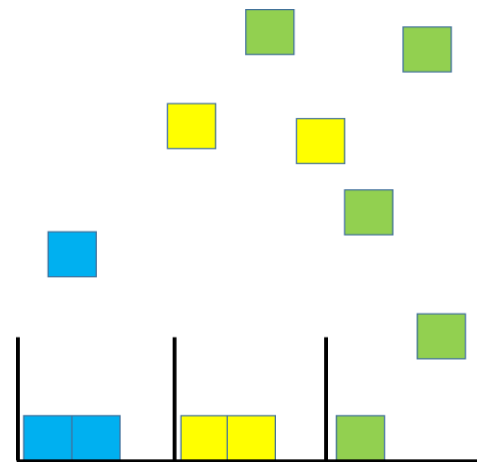
What is your cybersecurity risk with plant floor devices?

Assessing Risk to Networked Devices on the Plant Floor

Hundreds to thousands of devices on the plant floor. Each type with their own level of cybersecurity risk. Device availability is critical to the production environment. What factors should be considered in an assessment? How to monitor and manage risks over the long term?

Upon completion of an [asset inventory](#), the next step in establishing a cybersecurity program is to determine each device's level of risk to a cyberattack. Many factors should be considered, including the type of device and on what level of the network it resides.

Identifying similarities across devices to improve efficiency is critical to a successful assessment and enabling the ongoing monitoring and patch management effort. Once this is completed, a prioritized action plan can be developed to secure plant floor devices. This information can also be used to create action plans when vulnerabilities are identified for groups of devices.



Key Considerations

- Divide assets into groups of similar type and function to simplify the process of evaluating each asset's risk. Assets of the same type/function carry the same level of risk.
- Utilize the AIC method, with the highest risk being Availability, followed by Integrity and Confidentiality, in contrast to standard IT risk analysis which uses the CIA (Confidentiality first) approach.
- The level on the network, as well as the overall network architecture, can have a significant impact on a given asset group's risk level.

Device Type	Availability	Integrity	Confidentiality	Likelihood	Risk Number
IO Device	4	4	1	1	4
Controller	5	5	1	3	15
HMI	3	4	1	4	16
Camera	3	3	1	2	6
Industrial PC	2	2	1	5	10
Workstation	1	2	1	5	10
Supervisor	1	2	1	5	10
Drive	3	2	1	2	6
Server	2	3	2	3	9
Switch	4	3	1	2	8
Router	4	3	2	2	8
Security Appliance	1	3	2	1	3

We can help!

Sandalwood has over 30 years' experience working with global manufacturers helping them work smarter and work safer. Leveraging a standardized approach to achieve early sustainable value, we assist our clients to effectively apply their efforts to the right people, processes, and technology. Let us and our skilled partner network help you realize your vision.

Sandalwood is an engineering and ergonomics consulting firm. Since our founding in 1989, Sandalwood has successfully engaged in over 3,000 projects helping execute strategic solutions for our clients. By providing their knowledge, research, technology, and resources, Sandalwood supports its clients from the executive level to the factory floor so you can...

Work Smarter. Work Safer.