

# CYBER SECURITY FOR PROCESS SAFETY

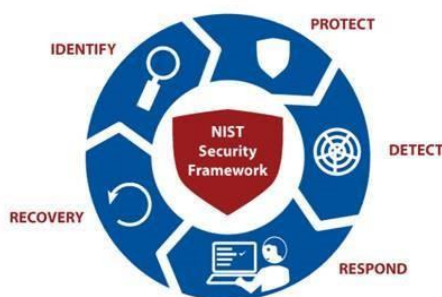
PROTECT THINGS THAT HAVE VALUE TO YOU

## Protecting integrity

A recent study by the University of Twente showed that there are at least a thousand SCADA systems in the Netherlands connected to the internet. Sixty of them are with known vulnerabilities.

The main question for a plant owner then is 'Are my industrial control systems vulnerable to attacks and infiltration by unauthorized people?'

Good engineering involves thinking about how things can be made to work. Security mindset involves thinking about how things can be made to fail. From a cybersecurity perspective, you aim to protect assets - things that have value to you. This can be hardware, software, data, information, company trade secrets, and even employees. Cyber security is about protecting confidentiality, integrity, and availability of this all.



*Credit: N. Hanacek/NIST*

## Potential threats

If attacks and infiltration compromise your industrial control system then process safety is jeopardized as well. Unauthorized people are potentially able to manipulate process equipment and/or change settings of Safety Instrumented Systems.

A solution is to apply security risk management framework. It requires a wide knowledge of network security, human behavior and the ability to design industrial network structures sufficiently tight. Together with us, the framework enables you to identify business consequences of identified security threats.



## Safe with Bilfinger Tebodin

Application of the security risk management framework is usually no core business of the plant owners' organization. Activities are therefore time-consuming for the regular staff, and hence, better outsourced. By choosing Bilfinger Tebodin, you integrate consultancy and engineering solutions.

Bilfinger Tebodin is a multidisciplinary consultancy and engineering company involved in all sectors of industry. We have many years' experience in thinking how things fail through hazard identification and risk assessment studies. At the same time we provide solutions to make your production facilities deliver as intended. Experienced cyber security specialists are at your service.

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