







For utilities, operationalizing cybersecurity — putting it into practice — involves a concerted effort to implement best practices that strengthen vital cybersecurity infrastructures.

Having a defined organizational cybersecurity strategy that's enabled by an allencompassing, enterprise-wide program puts utilities in the driver's seat.



Utilities with a sound strategy and end-toend program are in a strong security position, making it possible to address and get ahead of advanced—and continuously evolving cyberthreats.





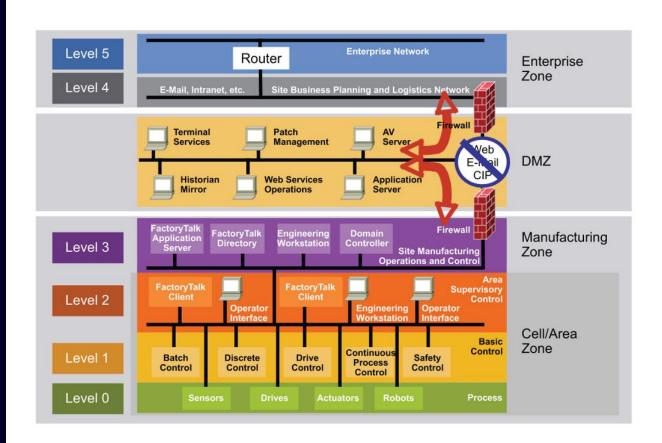
There are 3 different cybersecurity models to consider:

- Purdue Reference Model
- Risk Management Framework(s)
- Cybersecurity Capabilities Model (C2M2)

Option 1

Purdue Reference Model

An industry adopted approach that shows the interconnections and interdependencies of all the main components based on hierarchical data flows.

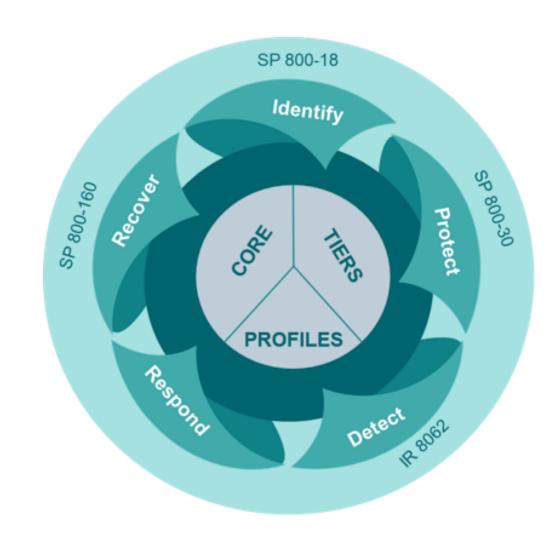




Option 2

Risk Management Framework(s)

Developed for OT environments, it is the process of identifying potential risks, accessing their impacts and the planning for those impacts.

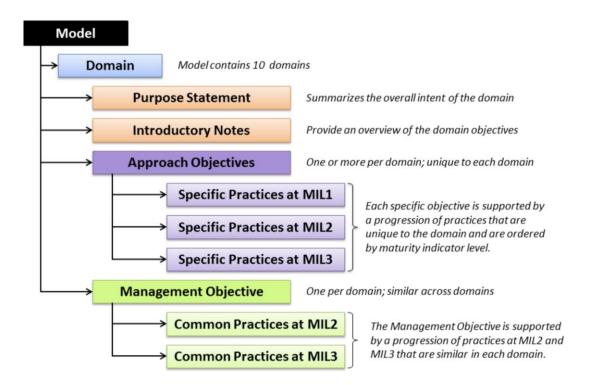




Option 3

Cybersecurity Capability Maturity Model

Initially developed by the U.S. Department of Energy, it has been adapted for both IT and OT. C2M2 is a voluntary model and assessment tool for building, maintaining and advancing your cybersecurity program.







Strategies are important. Programs are essential. Models are extremely helpful. So is understanding that cybersecurity is an ongoing process.

Always remember these two tips:





- IEC 62443
- NIST Cybersecurity
 El

Framework

• NIST 800-82

- ISO 27001
- ENISA
- CPNI



View your operations from the perspective of an adversary—the bad actors.



While cyber breaches can happen in a flash, utilities must diligently prepare, putting in the hard, thoughtful design work that can take years.

Siemens understands these challenges.

As a global manufacturer of automation products and digitalization solutions, we hold ourselves accountable to the highest cybersecurity standards and endeavor to lead by example. We have a comprehensive program of technical solutions, services and processes for our customers, combined with certification of external governance organizations and market leading partner solutions. We can assist in your journey to operationalize cybersecurity.

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