DER Security and the SunSpec Cybersecurity Certification Roadmap

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Where does SunSpec fit in the cybersecurity ecosystem?

What's the status of SunSpec Cybersecurity Certification now?

What is the vision for SunSpec Cybersecurity Certification?

What is Lumian and how does it enable all this?
2020, 2021

SolarWinds, Colonial Pipeline

2023-24

SunSpec CC
Phase 1 — Device Focused

- Software Updates
- Secure Communications
- Authentication
- Basic Hardening
- Logging
Phase 2 —

- Additional device requirements
- Penetration Testing
- Key Provisioning
- Cloud Security
- Organizational Security
- Access Control
Phase 3 and beyond

Software Bill of Materials (SBOM)
- OpenSSF (open source security)
- SLSA (secure development tools)
- NVD/OSV/GSD (vulnerability databases)
- CycloneDX/SPDX (SBOM data formats)
- GUAC (SBOM linking and analysis)

Real-time Visibility
- Notifications
- Tracking
Lumian is the distributed computing and data management layer that enables real-time cybersecurity
Synchronized Computing Nodes
SunSpec + Lumian = 
“Cybersecurity Nervous System”