Utilities & Platform Requirements

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EV Charging Accessibility Network

Utilities and Platform Requirements

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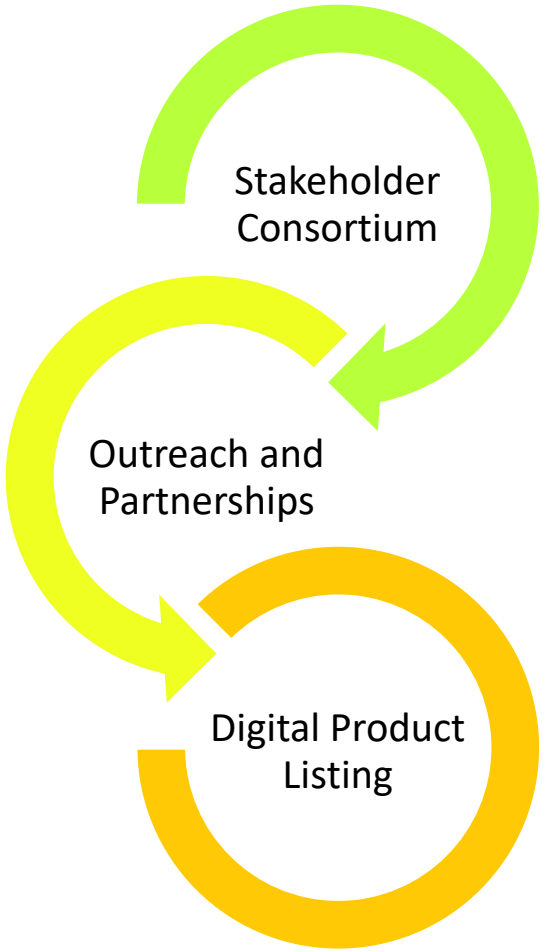
EVCAN

We are a 501c3 nonprofit organization with deep roots in energy efficiency and decarbonization

Our Approach



- Mobilize Utility leaders around a common set of technical requirements.
- Through strategic partnerships and manufacturer engagement, collect and publish vetted, unbiased product information and performance data.
- Create a digital, qualified product solution and educational resources to accelerate access to safe, reliable, and accessible EV charging solutions.

Building a shared language on performance expectations

Encourage broad market interoperability

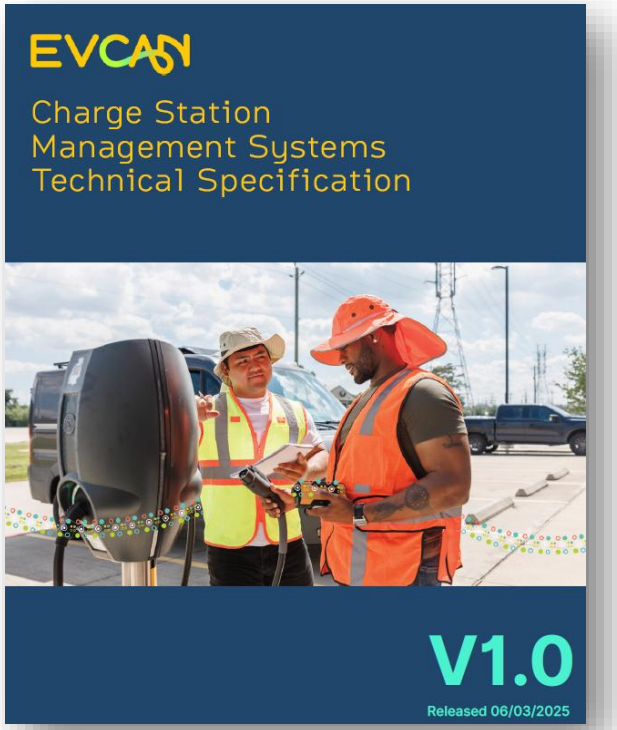
Smart energy management in station operations

Consistent data reporting practices

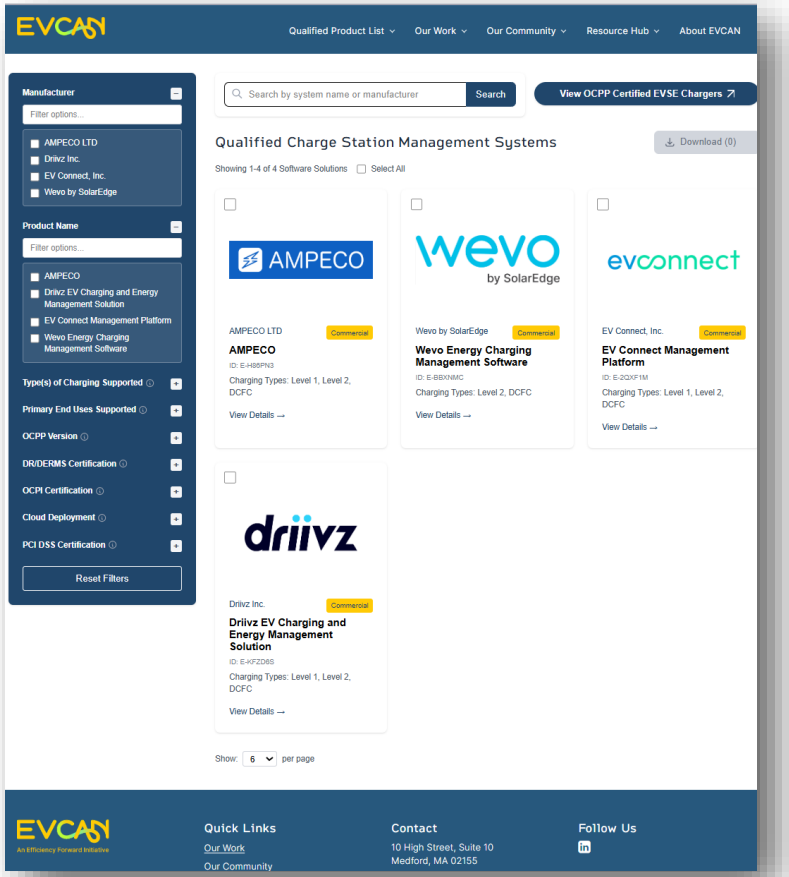
Transparent uptime and reliability

Two Main Resources

Technical Specification for Charge Station Management Systems



Qualified Product List (QPL)



How the Qualified Product List will be used

- ❑ **‘Preferred’ Reference**
- ❑ **Equipment Requirement**

Fleet/MDHD EV charging programs

EV energy management or commercial managed charging program

Reference for State/Local agency procurement

Scope of Specification

eMSP
E-Mobility Service Provider

OCPI

IEEE 2030.5
OpenADR

CSMS
Charge Station Management System

MODBUS
DNP3
BACnet

OCPP

Utility, Aggregator, DERMS, DRMS
Distributed Energy Resource, Demand Response

EVSE
Electric Vehicle Supply Equipment

EMS
Energy Management System

BMS
Building Management System

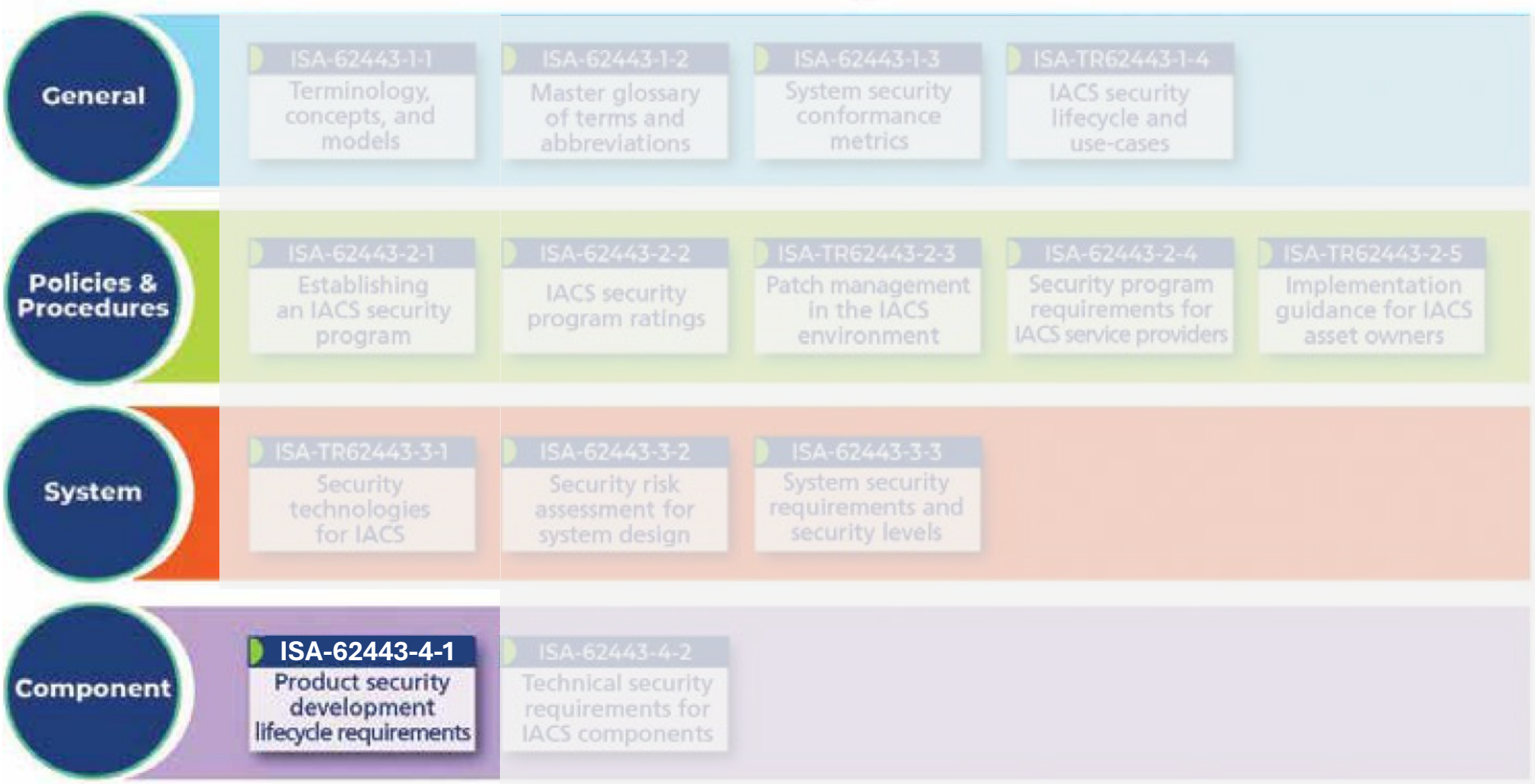
Cybersecurity Standards Recognized by EVCAN

Standard	Process (all)	Cloud Services (if used)	Payment (if used)
ANSI/UL 2900-1	Y		
ANSI/ISA/IEC 62443-4-1	Y		
ANSI/CSA T200	Y		
SOC 2	Y	Y	
ISO/IEC 27001	Y		
ISO/IEC 27017		Y	
FedRAMP		Y	
CSA STAR		Y	
PCI DSS			Y

Why so many certifications?

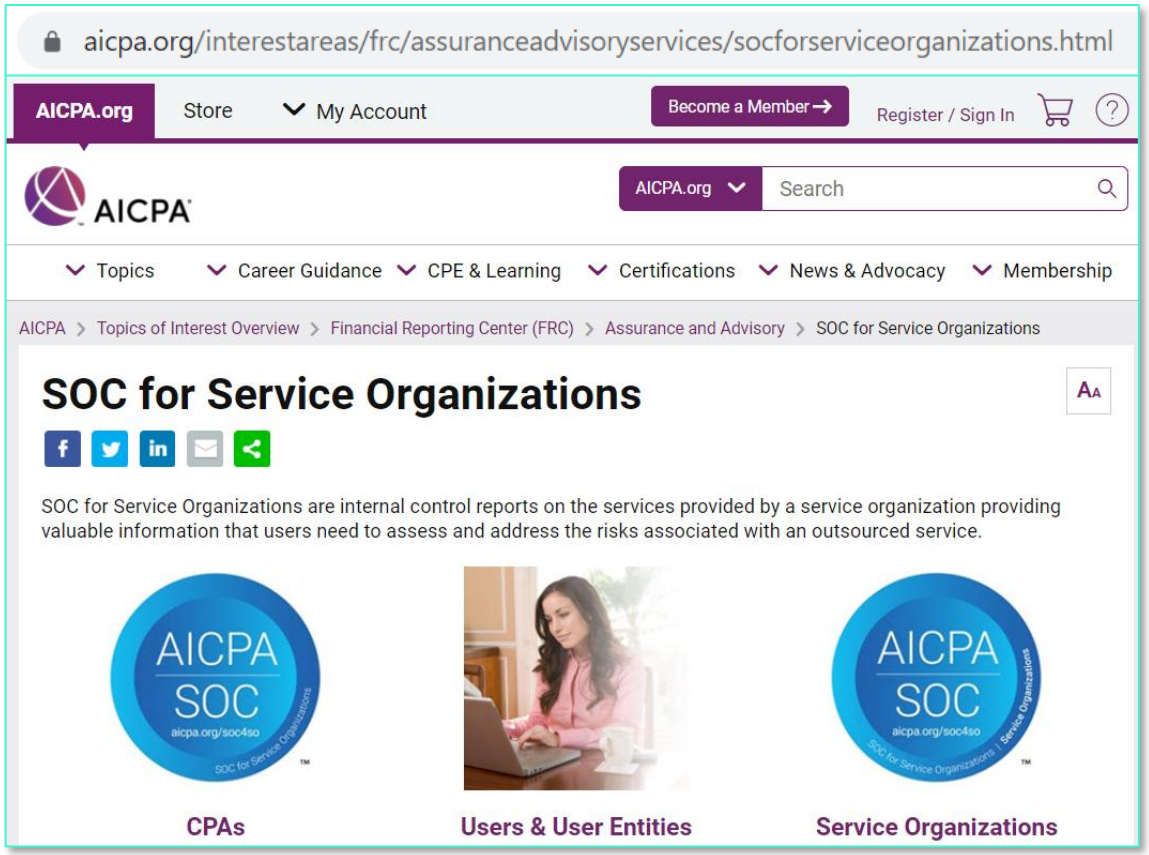

ANSI/ISA/IEC 62443

ISA/IEC 62443 Family of Standards



p.5, ISAGCA Quick Start Guide FINAL.pdf from www.ISA.org/ISAGCA

SOC 2 (Service Organization Controls)
AICPA (American Institute of Certified Public Accountants)



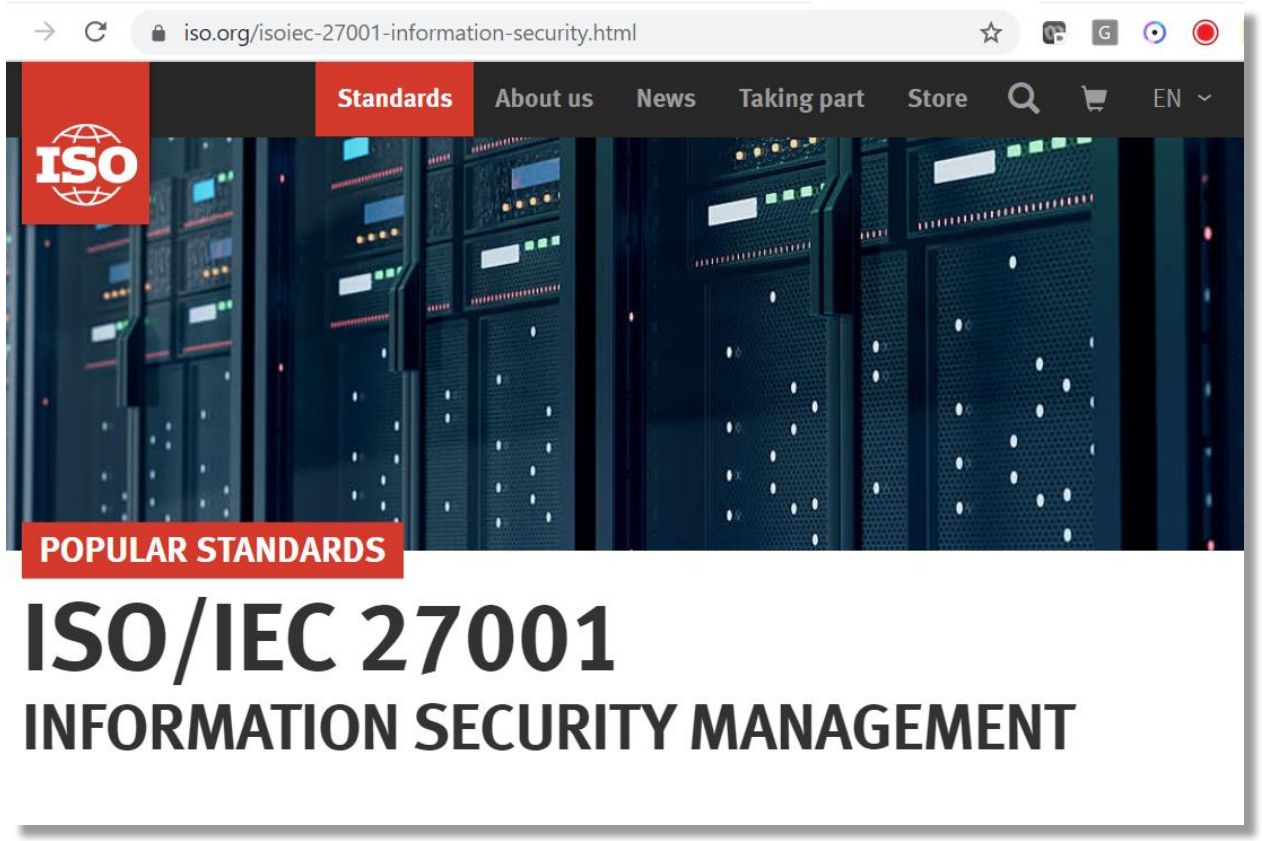
https://www.aicpa.org/interestareas/frc/assuranceadvisoryservices/socforserviceorganizations.html

SOC 1 and SOC 2 Reports

- Type I describes a vendor's systems
- Type II tests the operational effectiveness of those systems

https://www.imperva.com/learn/data-security/soc-2-compliance/

ISO/IEC 27001
Global Standard for Information Security Management Systems

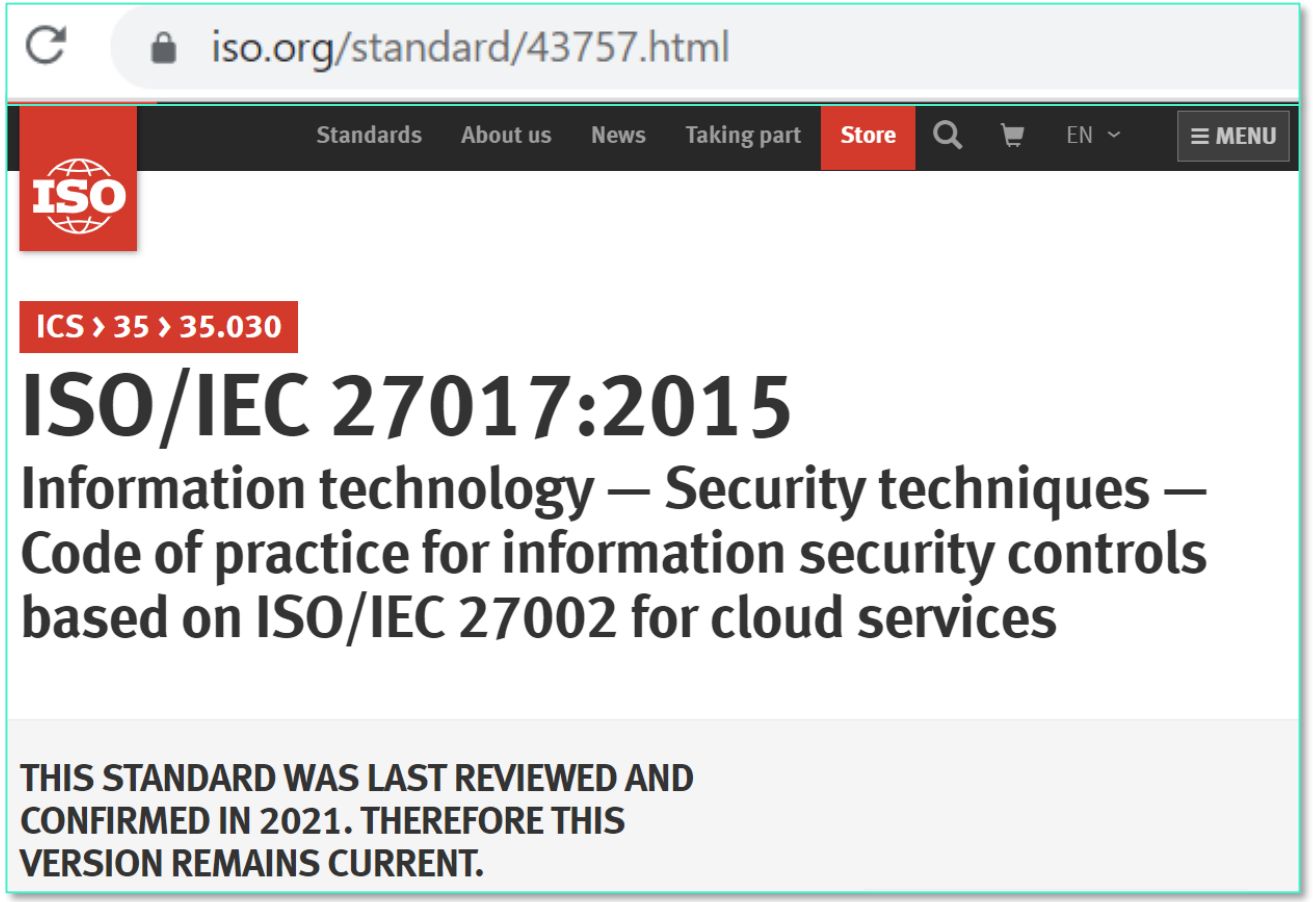


https://www.iso.org/isoiec-27001-information-security.html

ISO management system 3-stage external audit

1. Preliminary informal review
2. Formal test against standard
3. Ongoing (for 27001, annual or more frequently)

ISO/IEC 27017 for cloud services (providers & customers)



https://www.iso.org/standard/43757.html

Cybersecurity Standards Recognized by EVCAN

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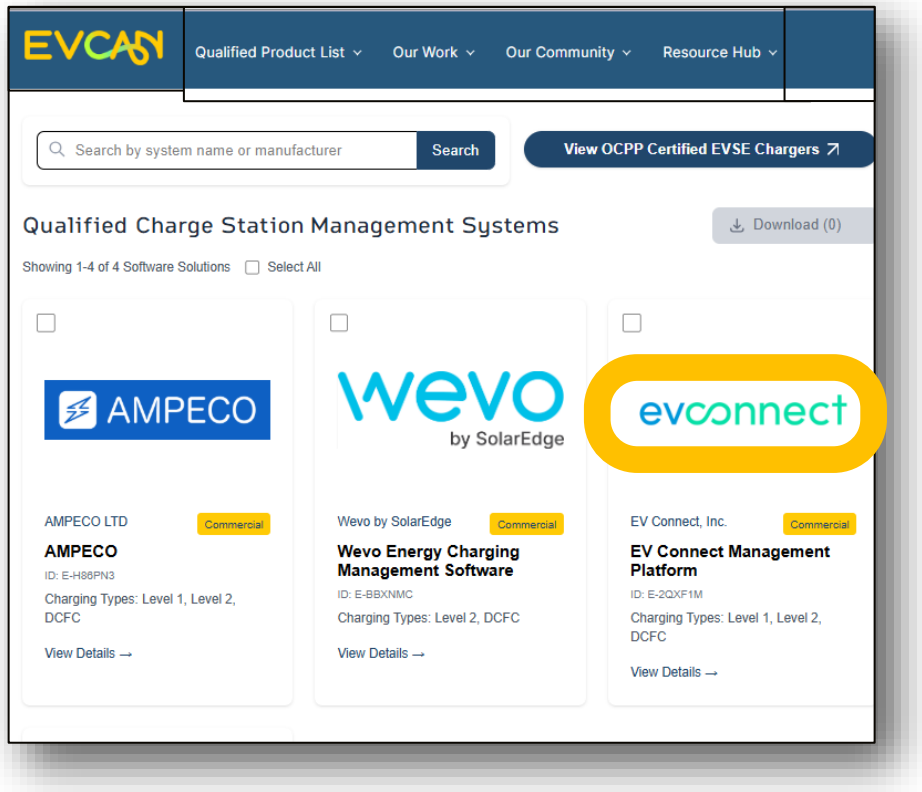
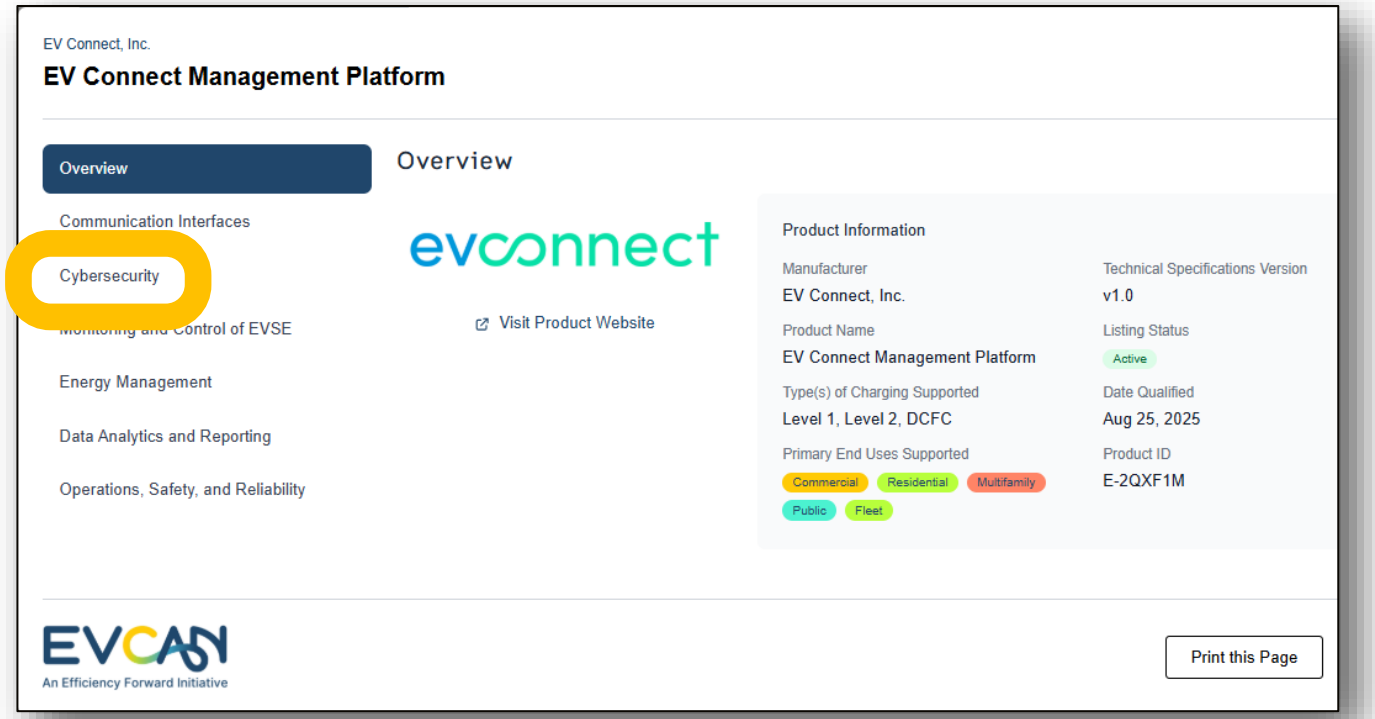
ANSI/ISA/IEC 62443-4-1	Y		
ANSI/CSA T200	Y		
SOC 2	Y	Y	
ISO/IEC 27001	Y		
ISO/IEC 27017		Y	
FedRAMP		Y	
CSA STAR		Y	
PCI DSS			Y

EVCAN Qualified Product List / Product Details





EV Connect Management Platform

Cybersecurity Features

As the EV infrastructure grows and becomes increasingly interconnected, cyber threats become more likely. Cyber threats can include unauthorized access, data breaches, and operational disruptions. Currently, no comprehensive cybersecurity standard exists for CSMS. EVCAN has divided required cybersecurity controls into three groups: Process, Cloud, and Payment. All qualifying systems must meet the requirement for Process standards and may qualify under Cloud and/or Payment if the system architecture matches the definition of those two groups.

Use of Cloud Services

- ✓ Deploys using Cloud Services

Cybersecurity related to Cloud Services:

- ✓ SOC2

Security Certifications

Cybersecurity related to Processes:

- ✓ SOC2

Cybersecurity related to Payment Services

- ✓ Payment Card Industry Data Security Standard Certification (PCI-DSS)

EVCAN

Power Through Connection

Thank You!

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