

# Jaime Kolln

## Senior Power System Engineer, PNNL



<https://www.linkedin.com/in/jaime-kolln-427ab848/>

Administrator of the GridWise Architecture Council

PNNL Energy Storage Reliability Codes and Standards Lead

PNNL Grid Architecture Program Lead

A few of Jaime's standards activities

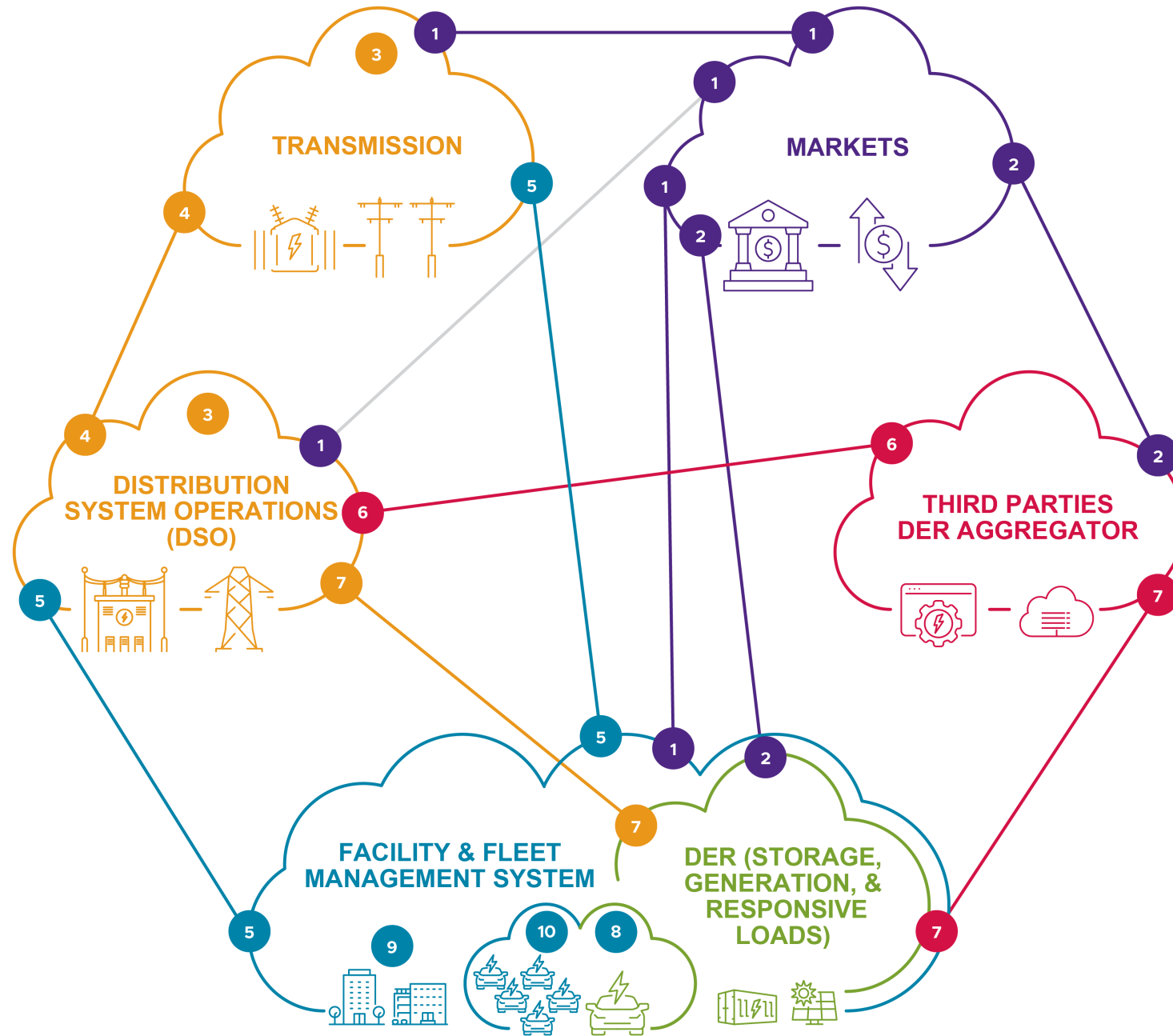
- Member of IEEE PES, SAE, MESA,
- Chair Emeritus of the MESA Testing and certification Working Group
- Vice Chair of IEEE P1547.4 - Guide for Design, Operation, and Integration of Distributed Resource Island Systems with Electric Power Systems
- Active participant in IEEE 1547 revision, 1547.10, UL 1741-SC

Even more activities

- SEPA, I2X, American Made Program, EPRI FlexIT, NAESB, NERC SPIDER WG

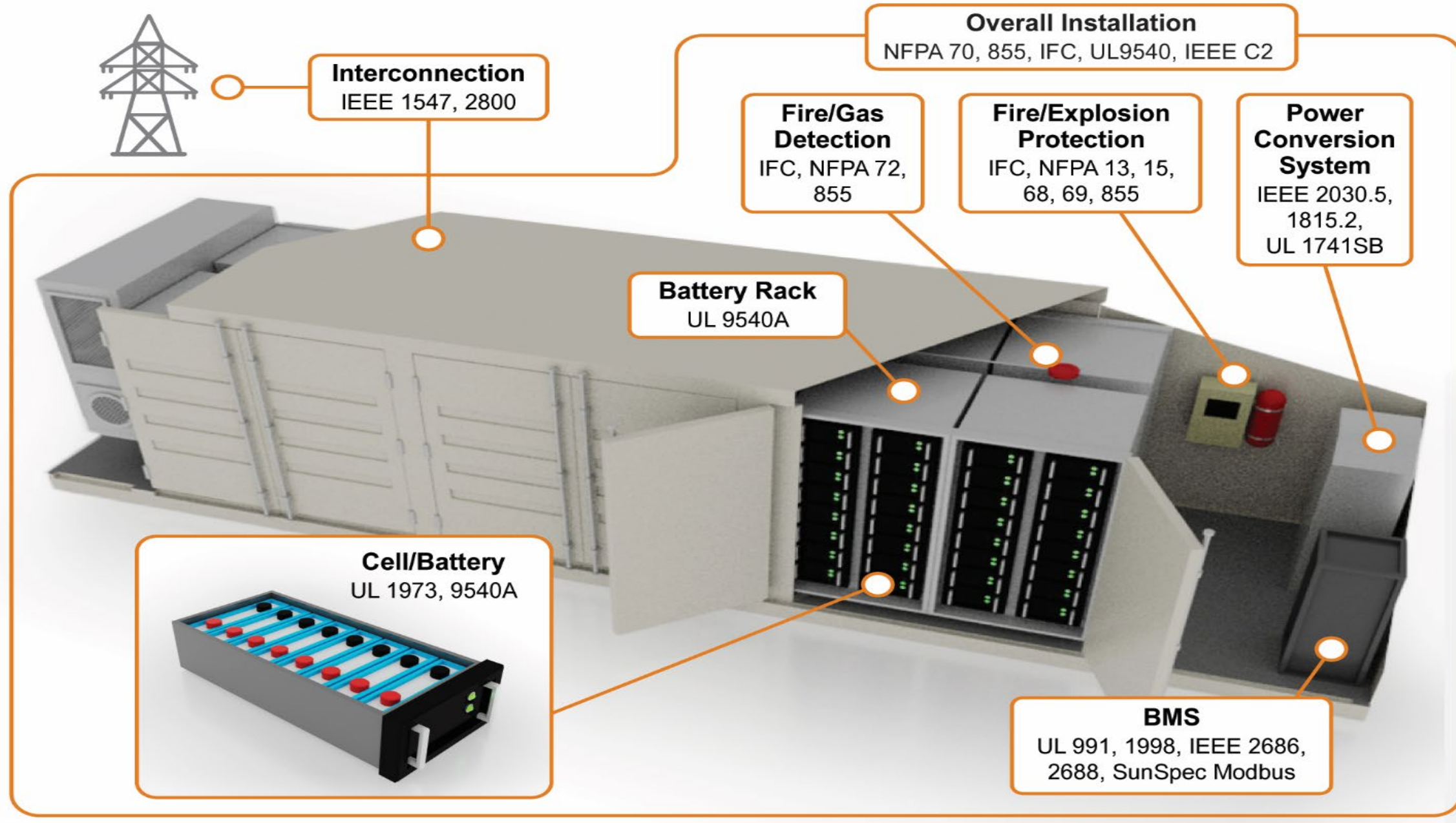
# Example of a Complex Network of Standards.

## Is this Standard?



Markets
1 IEC 62325 2 OpenADR (IEC 62746)
Transmission
1 IEC 62325 3 IEC 61970 (CIM) [Internal] 4 IEC 61850 (T&D) 5 IEC 61850-7-420 (Via GOOSE or DNP3), IEEE 2030.5
Distribution System Operations
1 IEC 62325 3 IEC 61970 (CIM), IEC 61850 [Internal] 4 IEC 61970 (CIM) 6 DNP3, IEEE 2030.5 5 IEC 61850-7-420 (Via GOOSE or DNP3), IEEE 2030.5
7 IEEE 1547 requires one of: DNP3, IEEE 2030.5, SunSpec Modbus 7 CTA-2045 7 DNP3, SAE J3072 (IEEE 2030.5), OCPP
Aggregator
2 OpenADR (IEC 62746) 6 DNP3, IEEE 2030.5
7 IEEE 1547 requires one of: DNP3, IEEE 2030.5, SunSpec Modbus 7 CTA-2045 7 DNP3, SAE J3072 (IEEE 2030.5), OCPP
5 DER (Facilities/Fleets management)
7 IEEE 1547 requires one of: DNP3, IEEE 2030.5, SunSpec Modbus 7 CTA-2045 7 DNP3, SAE J3072 (IEEE 2030.5), OCPP
8 ISO 15118, SAE J1712, IEEE 2030.5, SunSpec Modbus [Internal] 9 BACnet, Modbus [Internal]
10 SAE J3072 (IEEE 2030.5), OCPP [Internal]

# Complex Communications and Data Exchange



# Where does MESA Work? Scope of MESA Specifications

