



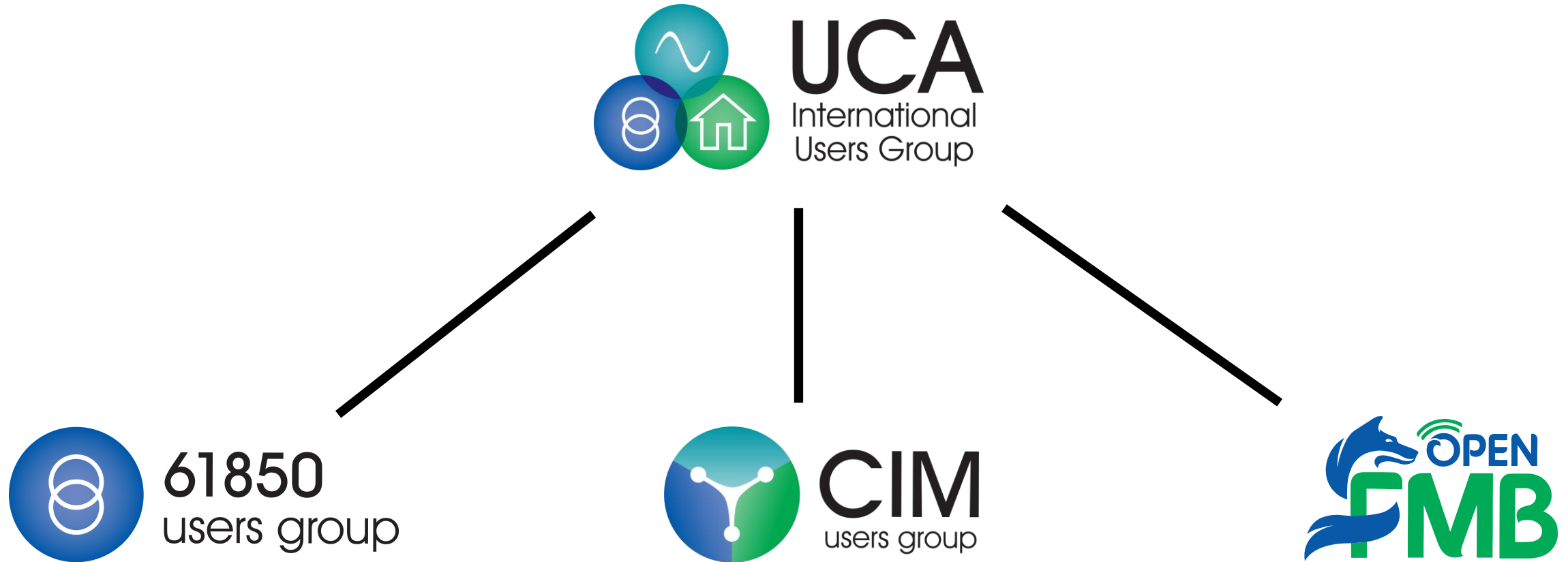
UCA International Users Group Intro and Benefits

Presented by

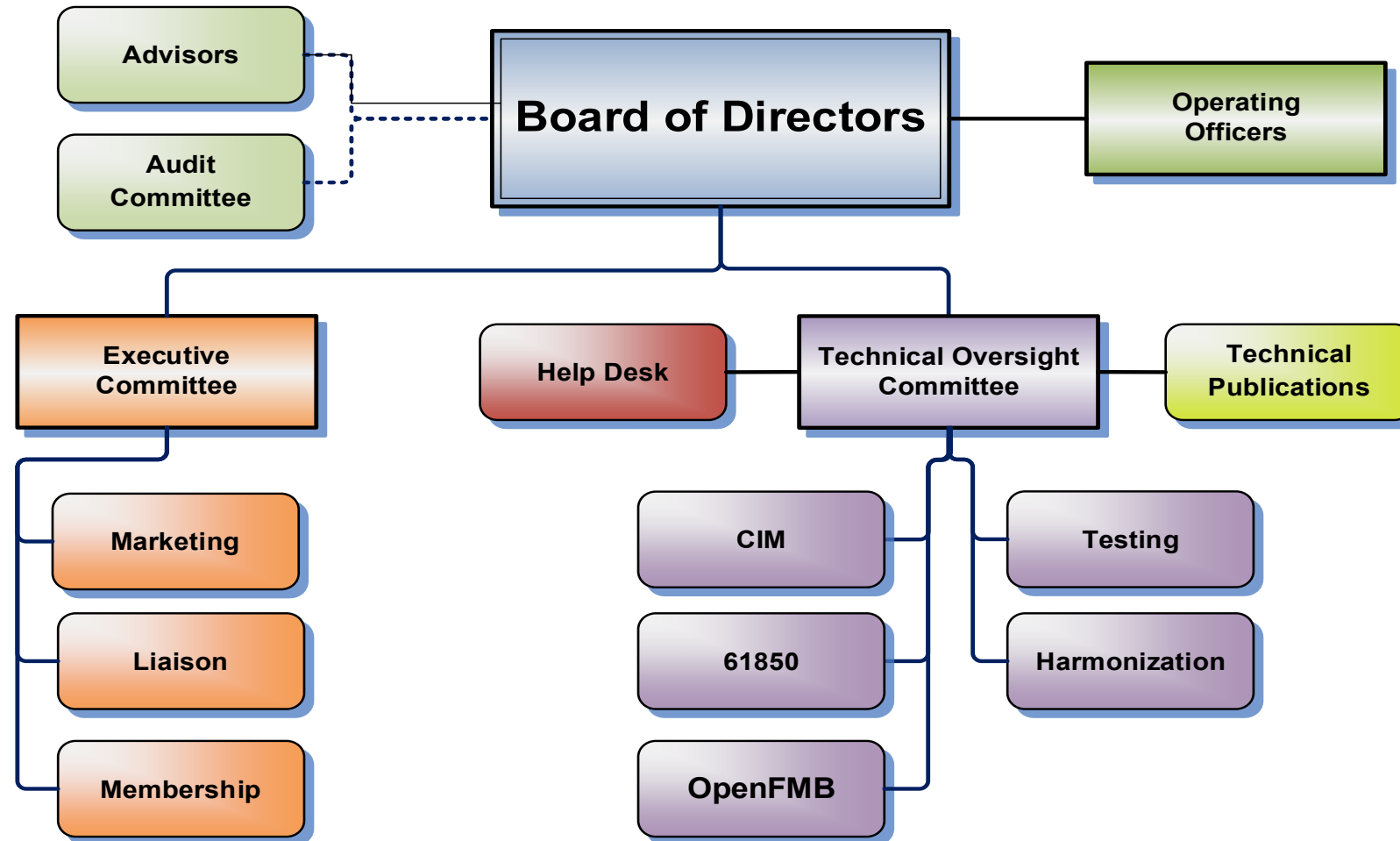
Ryan A. Willcockson, PhD - President



UCAlug is an Organization of User Groups



UCAlug Organizational Chart



UCAIug's Mission

To accelerate the adoption and deployment of interoperability standards by providing a global forum of energy industry stakeholders to promote development and use of electric utility standards.

UCAIug Member Services

- Draft standards access via Liaison C Agreements with SDOs
- Govern artifacts, such as data models & test procedures
- Marketing support for Corporate members and Vendors
- Accreditation of Labs and Conformance Product Certification
- Issue Certificates for Conformance and IOP Testing
- Interoperability (IOP) testing of all standards using Test Procedures, Witness Reports and final Test Reports.
- Liaison to Sparx for Enterprise Architect and ProCloud Server licenses & support
 - For working on Standards only – no commercial products
- Interactive website and repositories
- Microsoft Teams meeting accounts for working groups and task forces
- Membership collaboration and bulk email distribution list capability

UCAlug Public Services

Public Services do not require UCAlug Membership

- Apache 2.0 Open-Source licenses for all Public Domain artifacts
- Hosting of all Open Source UCAlug artifacts
- Providing issue tracking tools, available to the public
- Active Help Desk support via Redmine tool

UCAlug Corporate Services

Provide Teams Accounts and Web services for UCAlug Activities

- Facilitate technical requirements discussions for development of UML Data Models, Profiles, Use Cases, and other artifacts
- Assist in the scheduling and planning of UCA meetings
- Hosting of ProCloud Server and Prolaborate for joint development activities
- Support and Training for all UCA provided tools as needed.

UCAIug Activities

- Provide liaison between standards groups
- Provide a central repository for issues, models, messages, and expertise
- Promote industry standards (IEEE & IEC TC57)
- Provide Interoperability Testing Certification Authority (ITCA) Umbrella for Conformance and Interoperability (IOP) Testing
- Provide a single point of contact for Model Management and issue resolution.
- Provide awareness of products that implement the standards
- Provide standards training
- Provide Marketing Support for Corporate Members

Benefits of Membership

- Shorter learning curve with access to educational materials and experts
- Timely access to information on standards activities
- Obtain valuable insight from peers and benefit from sharing/accessing common solutions
- Make your company's leadership visible in the industry
- Member benefits are enjoyed equally if your focus is one technical area or all technical areas
- Transparent and Market-Neutral Community Environment

Member IP Privileges

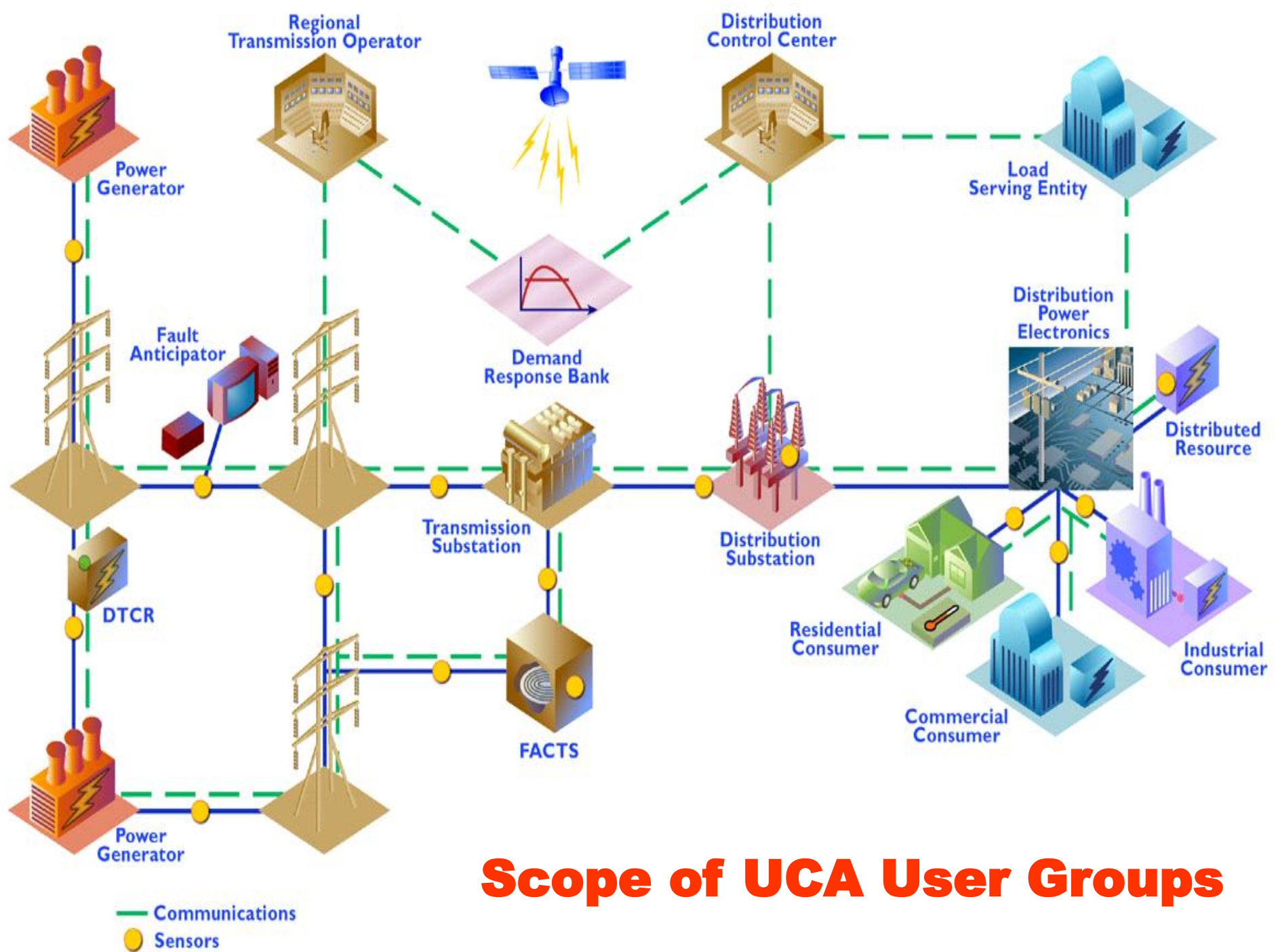
FREE tools and IP for all User Groups:

- Test Plans & Procedures
- IOP Reports
- Test Instance Files
- All Training Materials (Testing and Standards)
- Open-source artifacts for:
 - Use-cases
 - Data models and files
 - UML
 - XSD
 - RDF
 - Protobuf

UCAlug – User Groups

- **Enterprise Interoperability (CIM UG)**
 - Common Information Model (CIM) 61970 (Grid Operations), 61968 (Grid Support) and 62325 (Markets)
- **Substation Automation (61850 UG)**
 - 61850 – Secure Substation Communications
 - 61850-based extensions for wind, hydro, distributed generation, etc.
 - 62351 - Cybersecurity
- **Grid Edge Interoperability (OpenFMB UG)**
 - NAESB Standard for communication between field devices and the utility and substations
 - Open Field Message Bus: Information/data models, reference designs and interoperability guidelines.

ONE MEMBERSHIP ACCESSES ALL GROUPS



Scope of UCA User Groups

Key Organization Interactions

UCAlug Users Groups:

- Provides training, plug-fests, & marketing
- Governs Open-Source artifacts (use-cases, data models)

UCAlug Interoperability Testing & Certification Authority (ITCA)

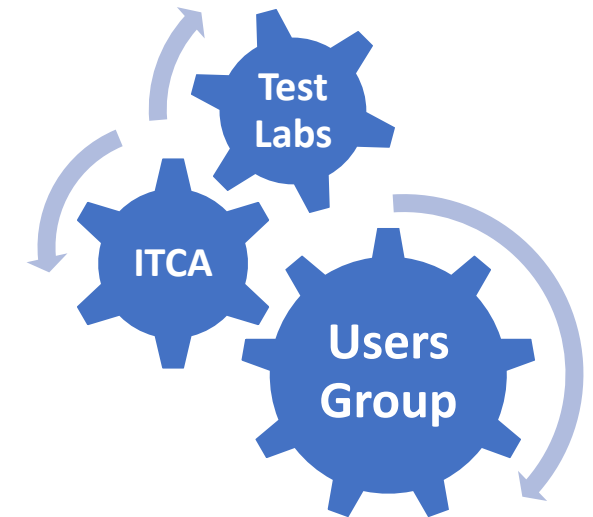
- Coordinates with Accredited Test Labs (ISO 17025) and Accreditation & Certification bodies (ISO 17065)

Standards Development Organization (SDO):

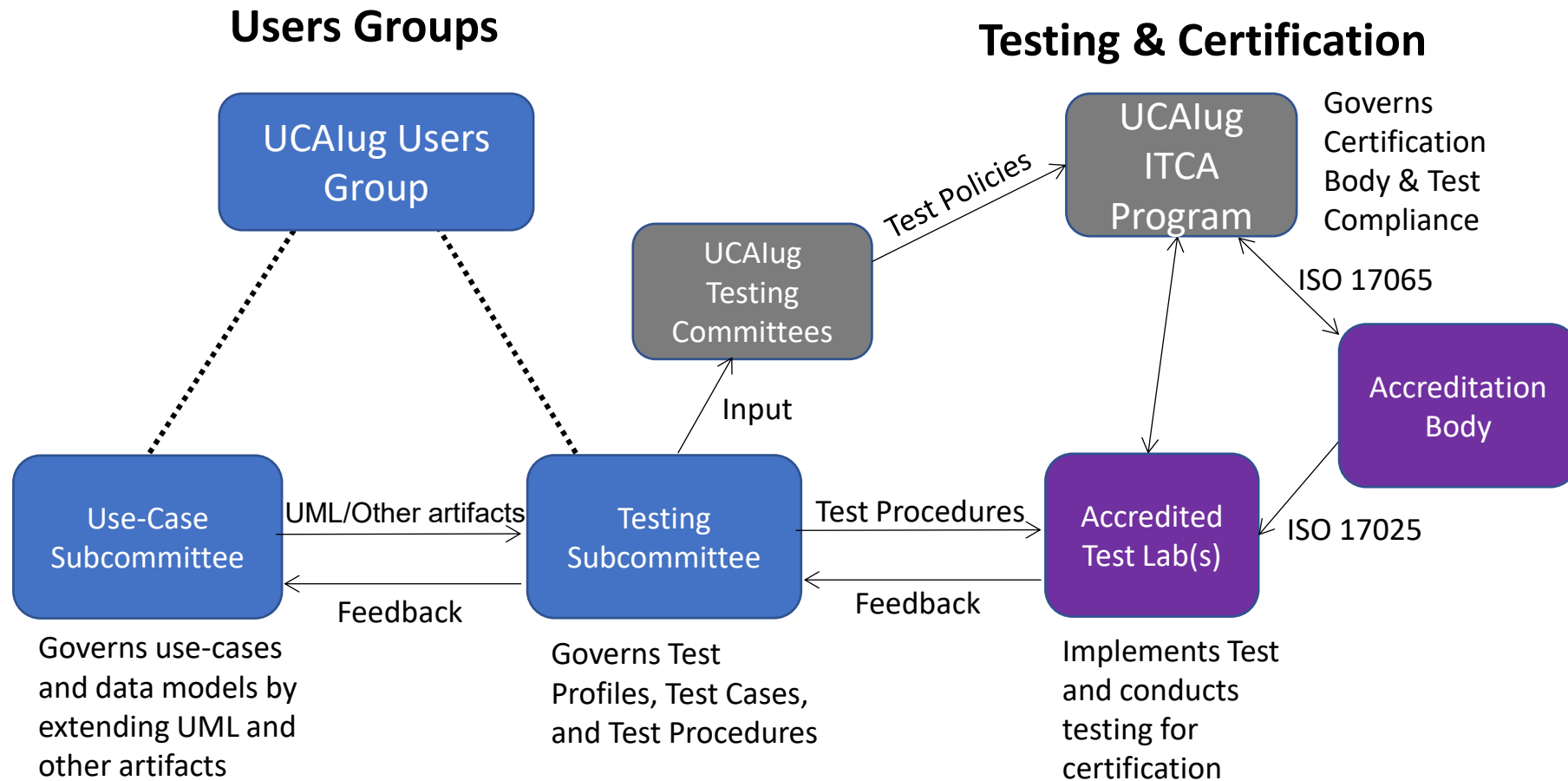
- *IEC TC57*
- *IEEE*
- *North American Energy Standards Board (NAESB)*

Accredited Test Labs:

- 61850 has 12 Test Labs
- OpenFMB and CIM each have 1 Test Lab in 2022



User Group and ITCA Interactions






UCAIug Testing Mission

Advancing Interoperability for the Utility Enterprise via support for international standards:

- Educational Activities
- Improvement Process for International Standards
- Testing and Certification
- Promotional Activities

UCAlug Testing and Certification

	Certification Status	Interoperability (IOP) /Plugfest
 61850 users group	Well established	Every odd year since 2011 Next IOP in 2026
	Live in 2022	September 2019 Begin Annual IOP in 2022
	Live in 2026	September 2019 Next IOP in 2026

- UCAlug corporate members receive a discount to attend IOP Tests
- UCAlug corporate members receive a discount for Certification – scheduled in 2026
- UCAlug corporate members can participate and vote on test procedure artifacts
- UCAlug has strengthened the quality of all Conformance Testing Processes

UCAIug Testing Benefits

Corporate Members Only

- Influence Test Procedure Artifacts
- Access to Draft Conformance Test Plans
- Access to Interoperability Test Reports
- Discounted IOP Test Fees

Public Repositories

- List of Accredited Labs
- List of Vendor Certificates
- List of IOP Participants and Witnesses

61850ug Mission

The 61850 Users Group is dedicated to providing a collaborative environment for the industry and assist in obtaining knowledge, testing, and experience in utilizing the IEC 61850 Standards.



61850
users group

Objectives & Scope of the 61850ug

- Forum for the IEC 61850 standards community - utilities, vendors, consultants, universities, others
- Education
 - Training
 - Interoperability Testing
- Networking of 61850 Users and sharing of 61850 user experiences
 - Annual meetings – to be in 2026
- Testing
 - Provides accreditation/audits for laboratories testing IEC 61850
 - Provides access to repository of conformance test certificates
- Clearinghouse for IEC 61850 Standards questions
- Access to UCAIug FREE tools

Interoperability Testing

- Provide opportunity to observe and test in a multi vendor environment.
- Allows users to bring their concerns and develop test cases that investigate those concerns.
- Allows feedback to improve standards.

Next IOP scheduled for 2026



CIMug Mission

The CIM Users Group is dedicated to managing and communicating issues concerning the IEC 61970 and 61968 standards and to serve as the primary means for developing consensus and consistency across the industry.



Objectives & Scope of the CIMug

- Central point for access to all things related to the CIM
- Forum for CIM users - utilities, vendors, consultants, universities, others
- Education
 - CIM University and WordPress site (Provide Certificate of Training for 6 PDH's for attending CIM U)
 - Webinars
- Networking of CIM Users and sharing of CIM user experiences
 - Annual meetings – North America and Europe
 - Oceania/Australian chapter potential for other global chapters
- Promote use of the CIM standards as interoperability solutions

CIM Reference Material

For Corporate Members

- Discounts for
 - Testing events
 - Sponsorships
 - Meetings
- Full access to all CIM materials
 - Presentations from previous CIMug meetings
 - CIM Educational Materials

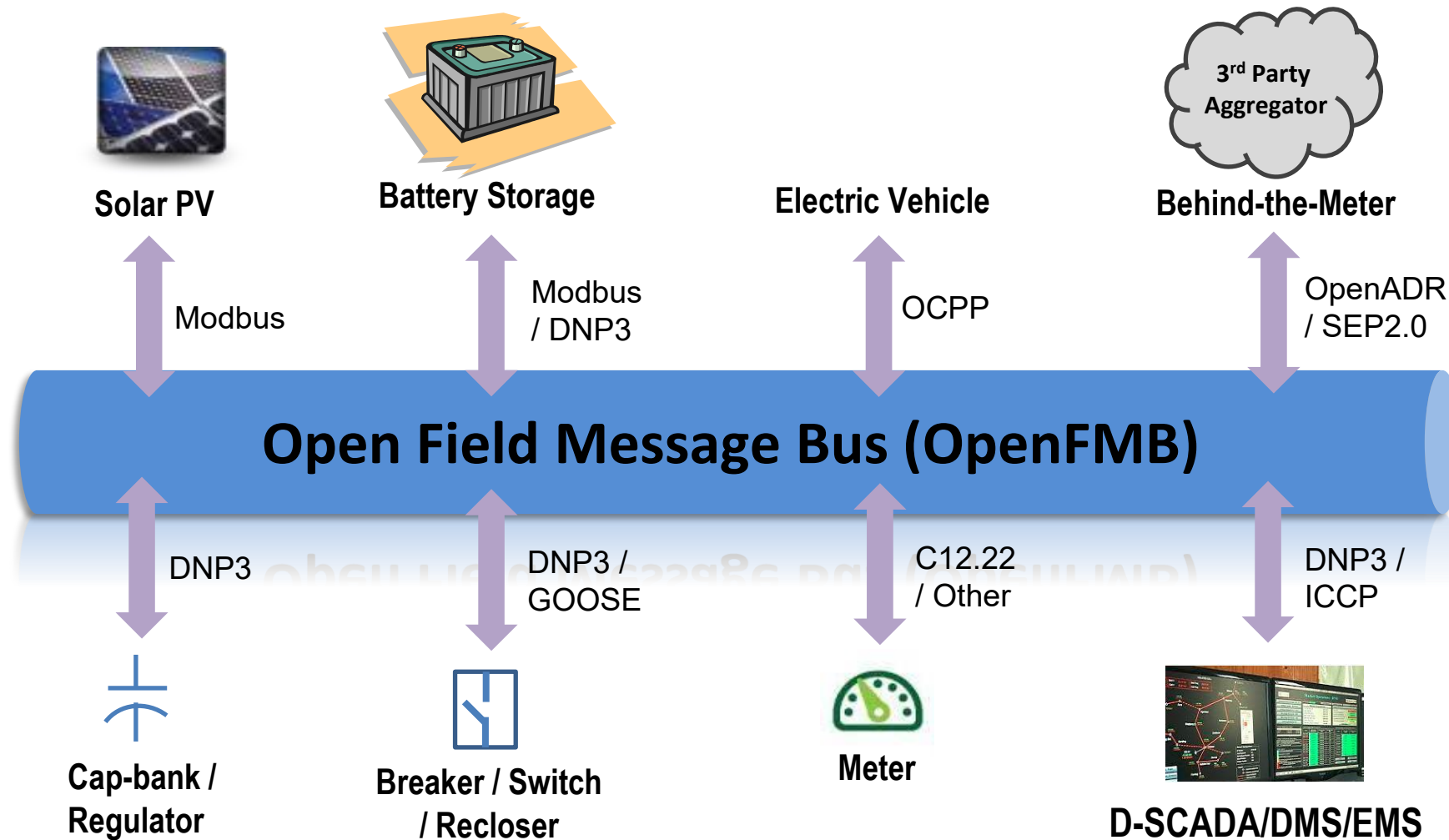
Some Materials are available on the UCAIug Public Site (Standards Artifacts page)

OpenFMB Users Group Mission

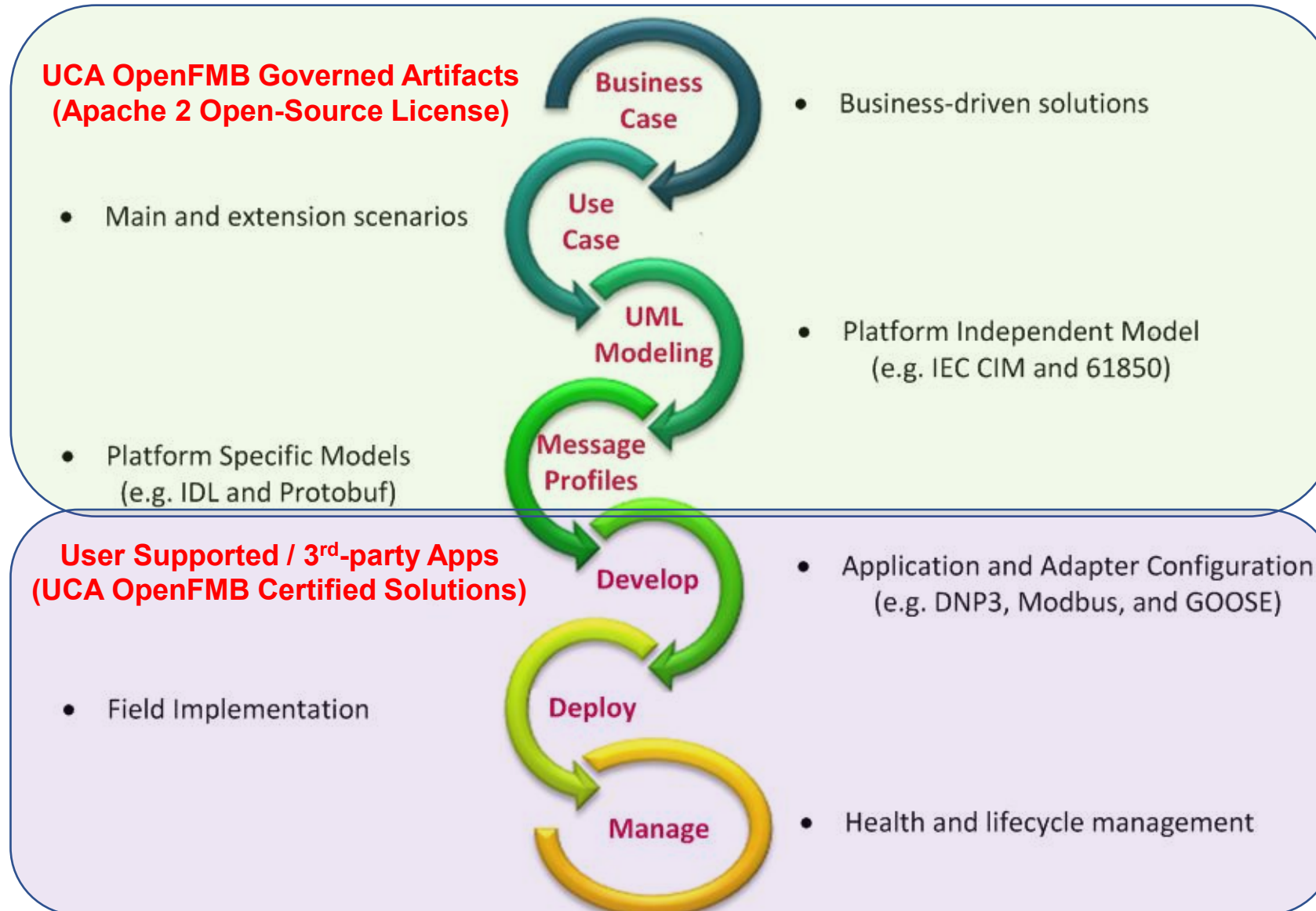
Enabling utility service providers to simply deploy interoperable grid-edge operational systems by procuring and implementing certified commercial OpenFMB solutions from a variety of vendors, supported by an active Users Group.



Securely Federated Data Exchanges with Flexible Protocol Interfaces



OpenFMB Life Cycle Framework



Who Should Join?

Every individual consultant should have an individual membership for access to information.

Every utility, supplier or large consulting firm should be a corporate member to maximize benefits and obtain voting and full participation privileges.

WWW.UCAIUG.ORG/JOIN

UCAlug Corporate Member Benefits

- Lower cost for
 - Test & certification activities
 - Meeting attendance
 - Access to IEC draft standards
- Member-only access to:
 - Industry experts via Working Group and Task Force meetings
 - Technical documents and best practices
 - Test procedure documents
 - IOP test reports
- Sponsorship opportunities for market branding
- UCAlug website market branding

Intangible Corporate Membership Benefits

- Bring your views and concerns regarding
 - Strategic planning
 - Meeting planning
 - Collaboration tools
 - Test Procedures
- Priority for selection of presentations
- All corporate members are shareholders of UCA with corporate voting rights
- Create a new Focus Community, Project, or Group

Membership Options

Revenue in USD1	Annual Membership Dues (in USD)	# of User Accounts
Tier1: < \$1Mil	\$1,375	5
Tier2: \$1 to \$10 Mil	\$2,750	10
Tier3: \$10 to \$100 Mil	\$4,125	15
Tier4: \$100 to \$1 Bil	\$5,500	20
Tier5: \$1 Bil to \$10 Bil	\$6,875	50
Tier6: \$10 Bil to \$50 Bil	\$10,450	100
Tier7: \$50 Bil to \$100 Bil	\$16,000	150
Tier8: > \$100 Bil	\$20,000	Unlimited
Additional Brand/Email Domain/User Accounts	\$2,000	Each
Qualified University/PUC	\$1	As needed
Qualified Individuals	\$375	1

THANK YOU!

Questions?

Corporate Address: P.O. Box 315, Shell Knob, MO 65747,USA

Ryan A. Willcockson, PhD

President

UCA Users Group, Inc.

Washington, USA

Tel: +1-509-953-7471

Email: Ryan@ucaug.org