

GOSSA

Grid Open Source Software Alliance

GPA User's Forum

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Evolution of Open Source Software for Electric Energy Applications

Situation

- Open source software is:
 - Becoming more robust and commonly used
 - Provides greater utility control and options
 - A natural fit for the closely linked electric industry
 - Compatible with proprietary and legacy applications
- GPA collaboration framework evolution
 - Support development of GOSSA
 - Continue/expand collaborative framework including industry, key vendor and government
 - Expand to include international participants

GOSSA Mission

- Promote the *use and development* of open source software for the electric utility critical infrastructure
- Enhance electric energy *reliability, availability, and resiliency*
- Provide *performance and quality criteria*
- Secure *broad based collaborative support*, including US DOE, EPRI, key electric utility stakeholders and vendor/suppliers
- Facilitate *software enhancements*
- Support electric grid *evolution and improvements*

GOSSA Scope

Open Source Software for All Aspects of Electric Grid Management and Reliability

- Generation
- Transmission
- Distribution
- Oversight and Coordination
- Planning
- Operations
- Maintenance
- Compliance

Application Areas Include:

- Real Time Operations
- Compliance Assurance
- Preventative/Corrective Maintenance
- Situational Awareness
- Advanced Grid Features and Functions
- Market Interaction

Stakeholder Collaboration

Collaborative framework to:

- Secure extended value to industry from its openPDC, openPG, and SIEgate investments
- Facilitate development of open source software platform for grid reliability-availability applications and software provided by industry
- Facilitate all key stakeholder roles in the formation and deployment of the open systems software platforms

GOSSA Formation

Next steps

- Develop collaborative framework and enterprise model
- Secure individual utility recognition and support
- Secure key NERC, US DOE and EPRI support
- Secure vendor, supplier and industry service providers participation
- Develop and deploy transition plan