



GRID
PROTECTION
ALLIANCE

PQDashboard
User's Group

open **MIC** *open* **XDA**
System Center **miMD**
open **SEE** **PQBrowser**
TrenDAP POWER QUALITY **Digest**



GPA Introduction & Updates

Agenda

- 1:00 – 1:20 EPRI Introduction (Tom Cooke, EPRI)
- 1:20 – 1:25 GPA Introduction & Updates (Erika Wills, GPA)**
- 1:25 – 1:45 Debuting PQ Browser (Christoph Lackner, GPA)
- 1:45 – 2:45 PQ Dashboard Use Case 1 (Erika Wills, GPA)
- 2:45 – 3:00 Break
- 3:00 – 4:00 PQ Dashboard Use Case 2 (Christoph Lackner, GPA)
- 4:00 – 5:00 Discussion

Introduction Key GPA Staff



Grid Protection Alliance, Inc., specializes in the development and support of **innovative software solutions** for the **electric industry**.

GPA has a track record of innovation and **has led major software development projects** with client utilities and the Federal Government.

In addition to **custom application development**, GPA offers services for installation, set-up, integration, and on-going **maintenance of its open-source software**.



Dr. Christoph Lackner
Operating Officer & Lead Engineer

ROLE: Operational & Engineering Leadership

- Establishes new software development projects and assures the successful completion of established projects.
- Provides engineering oversight of GPA analytic applications.
- 8+ years' experience with synchrophasor data analytics and use of synchrophasor data in various applications such as state estimation, predictive maintenance, and system parameter estimation.
- Specializes in the development of real-time and offline data analytics for power systems.



Erika Wills
Senior Support Engineer

ROLE: Support & Project Leadership

- Oversees customer support and project progress.
- Establishes training curricula and software documentation.
- Previous experience in sales, operations and technical support
- 10+ years of experience in customer support and project management.
- B.S. in IT with focus on software development.



Stephen Wills
Senior Systems Analyst

ROLE: Lead Software Development

- Major contributor to GPA software solutions and provides system support and integration services to utilities.
- 10 years' experience in developing .NET solutions, much of that time contributing significantly to GPA's core code base – the Grid Solutions Framework.
- Specializes in the management of data from substation devices – PMUs, DFRs, power quality meters, and relays.
- Prior to joining GPA, extensive experience at the Tennessee Valley Authority in development of synchrophasor data software.



Ritchie Carroll
Senior Solutions Architect

ROLE: Systems Architect & Lead Developer

- Oversees GPA software development and provides software system design and development services to utilities.
- 25+ years' expertise in high-performance software system design, development, and delivery. Has led numerous large software development projects.
- 10 years at the Tennessee Valley Authority leading synchrophasor software development among other operational systems.
- Active participant in NASPI and other industry efforts to improve synchrophasor data systems.



Russell Robertson
Principal

ROLE: Strategic Studies

- Establishes collaborations within the utility industry to support the development and maintenance of open-source software.
- Founded GPA's open-source software and consulting-service business.
- Expertise in grid operations, IT/OT architecture, information management, and control systems.

Updates

- Hired additional staff
- TrenDAP Phase II – pending EPRI approval
- OpenXDA 3.0 Release
- PQ analytics as a Service
 - On-cloud solutions for transmission and distribution utilities
 - Integrates with Eaton EMCB devices
- OpenXDA 3.0 Training Sessions and Documentation

Future User's Group Meetings

- Due to feedback, reduced cadence going forward
 - 2 General meetings per year
 - Spring/Fall
 - Regional meetings for member utilities
 - Smaller audience
 - Content and training tailored to the specific attendees