



GRID  
PROTECTION  
ALLIANCE

**PQDashboard**  
**User's Group**

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



# GPA Introduction

# Agenda

1:00 – 1:20 EPRI Introduction (Tom Cooke, EPRI)

**1:20 – 1:25 GPA Updates (Erika Wills, GPA)**

1:25 – 1:55 Fault Distance Calculation (Theo Laughner, LSA)

1:55 – 2:25 Trending Screens in SE Browser (Phillip Crittenden, TVA)

2:25 – 2:35 Break

2:35 – 3:05 OpenXDA at HECCO (Randy China, HECCO)

3:05 – 3:35 IT Challenges and Best Practices openXDA (Paul Trachian, TVA)

3:35 – 4:05 Proposed PQ Dashboard Updates (Christoph Lackner, GPA)

4:05 – 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.

# Coming Up

- TrenDAP Phase II – starts in Q2/Q3
- OpenXDA 3.0 Release
- PQ analytics as a Service
  - On-cloud solutions for transmission and distribution utilities
- OpenXDA 3.0 Training Sessions and Documentation
- Installing PQ Monitoring System Report (EPRI, Duke)

# Future UsersGroup Meetings

- Q2 2023 – April/May/June
  - Originally EPRI PQ Week
  - Concerns over audience
- Q3 2023 – September
  - Hybrid UsersGroup meeting
  - Potential Tutorial
- Q4 2023 – December
  - Virtual Meeting
  - Research related activities