GRID PROTECTION ALLIANCE

User's Group

openXDA PQDashboard openSEE
openMIC TrenDAP miMD
Power Quality Digest SEBrowser System Center

openXDA

eXtensible Disturbance Analytics


# GPA Introduction

# Agenda

1:00 – 1:15 EPRI Introduction (Tom Cooke, EPRI)

**1:15 – 1:30 GPA Updates (Christoph Lackner, GPA)**

1:30 – 1:55 TrenDAP Phase 2 Wishlist (Matthew Edwards, SRP)

1:55 – 2:10 TrenDAP Phase 2 Proposed Work (Christoph Lackner, GPA)

2:10 – 2:45 Duke OpenXDA 3.0 Upgrade Experience (Stephen Whisenant, Duke)

2:45 – 3:10 Break

3:10 – 3:45 TVA OpenXDA 3.0 Upgrade Experience (Tony Murphy, TVA)

3:45 – 4:00 OpenXDA 3.0 Upgrades Improvements and Resolutions (Erika Wills, GPA)

4:00 – 5:00 Discussion

# Introduction Key GPA Staff

GRID PROTECTION ALLIANCE

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**
Support Engineer

**ROLE: Support & Project Leadership**

- Recently joined GPA
- 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**

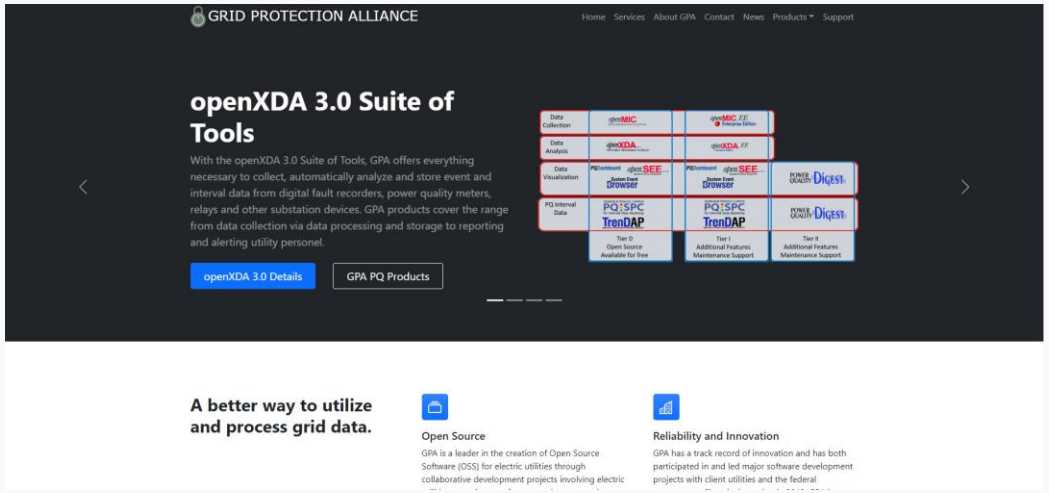
- Establishes collaborations within the utility industry to support the development and maintenance of open-source software.
- Founded GPA's open-source software and consulting-service business.
- Expertise in grid operations, IT/OT architecture, information management, and control systems.

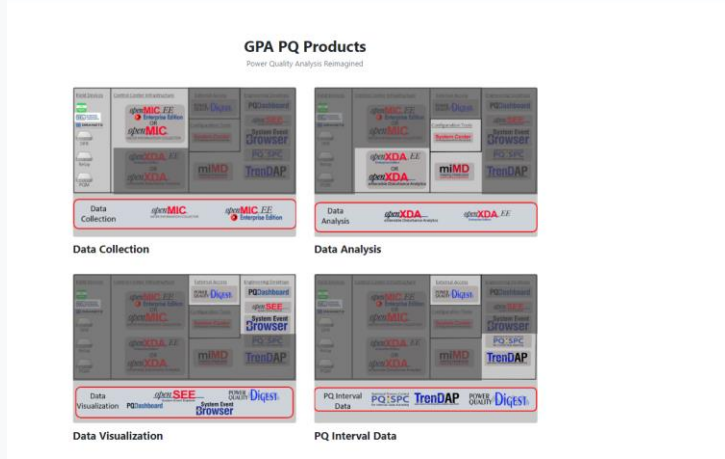
# Support Changes

- We hired Erika Wills as Support and Project Management Lead
- We overhauled 24x7 support procedures
- We introduced a new support portal
- We made internal changes to improve project completion
- We are hiring additional staff
- We are developing extensive usability testing procedures
- We are developing usability and deployment documention

# Updated Website

- We recently updated our website (www.gridprotectionallaince.org)
- Setup of demo systems available upon request
- Additional Documentation will be available
- Training Videos and documentation will be available



# Coming Up

- TrenDAP Phase II
- OpenXDA 3.0 Release
  - Current installations are beta
  - No current PROD installations
- PQDigest Release
  - Depends on openXDA 3.0
- PQ analytics as a service
  - Cloud solutions for transmission and distribution utilities
  - Simplifies IT concerns via GPA hosted systems
  - GPA continuous to offer on prem solutions in addition

# Future UsersGroup Meetings

- Q4 2022 – December 14th
  - Virtual UsersGroup meeting
  - Focus on Analytics and R&D
- Q1 2023 – February/March, EPRI Winter Advisory, Knoxville
  - Hybrid UsersGroup meeting
  - Focus on utility updates
- Q2 2023 – May/June, EPRI PQ Week, Knoxville
  - In-person Users Group and Tutorial
  - PQDigest Tutorial
- IEEE PES – August
  - Propose PQ Analytics paper session
- Q3 2023 – September/October, EPRI Fall Adisory, TBA
  - Hybrid UsersGroup meeting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