





GPA Introduction

Agenda

- 1:00 1:15 EPRI Introduction (Tom Cooke, EPRI)
- 1:15 1:25 GPA Updates (Dr. Christoph Lackner, GPA)
- 1:25 1:55 Capacitor Bank Health Analytics (Tony Murphy, TVA; Dr. Surya Santoso, UT Austin; Dr. Gaurav Singh, EPRI)
- 1:55 2:40 Learning from Power Signals (Dr. Don Reising UTC)
- 2:40 2:55 Break
- 2:55 4:15 PQ Displays and PQ Health Index (Russell Robertson, GPA; Jonathan Sides & Tony Murphy, TVA)
- 4:15 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**.



Stephen WillsSenior 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.



Dr. Christoph LacknerOperating 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.



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.



Erika WillsSupport 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.



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 and Deployment Changes

- We are moving towards migrating everyone over to the new support portal by Q2 2023
- Moving towards simplifying deployments
 - Containerization
 - Installer simplification
 - Feature adjustments



Coming Up

- OpenXDA 3.0 Release Expected late Jan 2023
- TrenDAP Phase II
- PQDigest Launch
- PQ analytics as a Service
 - On-cloud solutions for transmission and distribution utilities
 - Connectivity to Eaton EMCB residential breakers



Future UsersGroup Meetings

- Q1 2023 February 27th following EPRI Winter Advisory Meeting
 - Virtual UsersGroup meeting
 - Focus on utility updates
- Q2 2023 June/July
 - In-person Users Group and Tutorial
 - Proposed PQDigest Tutorial
- Q3 2023 September
 - Hybrid UsersGroup meeting
 - Focus on utility issues / moving towards openXDA 3.1
- Q4 2023 December
 - Virtual meeting
 - Focus TBD

