

# eTerra Phasor Analytics openHistorian Integration

Vijay Sukhavasi

Atlanta, Georgia

08/05/2015

**ALSTOM**  
*Shaping the future*

# MetaData and Actual Data

---

- **Gateway Exchange Protocol**  
**Obtain MetaData(Configuration)**
- **openHistorian API**  
**Get Actual Data(Downsampled and Raw Data)**

# openHistorian API Features

---

- **Downsampled Data**  
**Obtain Data at lower resolutions(1f/sec,1f/10sec etc)**
- **Full Resolution data**  
**30 or 60 frames per second**
- **Contiguous Regions**  
**Data Availability,Data gaps**

# Data Availability and Preview

erraphasoranalytics (DEMO LICENSE EXPIRES IN 25 DAYS)

Workspace Tools Help

**ART >** DATA MANAGEMENT POST EVENT ANALYSIS CORRELATION ANALYSIS MODEL VALIDATION BASELINING DATA VALIDATION  
*TIME DOMAIN TIME/FREQUENCY DOMAIN RINGDOWN DYNAMIC PERFORMANCE LINEAR STATE ESTIMATOR - STUDY*

Data Sources

Phasor

Select Phasor Data

Measurement Type

- GEN-71-1
- GEN-1-1
- GEN-3-1
- GEN-25-1
- GEN-27-1
- GEN-22-1
- GEN-23-1
- GEN-32-1
- GEN-5-1
- GEN-9-1
- GEN-65-1
- GEN-118-1
- GEN-17-1
- GEN-76-1
- GEN-74-1
- GEN-12-1
- GEN-47-1
- GEN-48-1
- GEN-51-1
- GEN-45-1
- GEN-19-1
- GEN-53-1
- GEN-30-1
- GEN-37-1
- GEN-39-1
- GEN-41-1
- GEN-107-1
- GEN-58-1
- GEN-59-1
- GEN-60-1
- GEN-62-1
- GEN-14-1
- GEN-34-1

Simulation

SCADA

Modes

Import Selected Data

TimeLine View

08/05/2015 13:22:20.000 to 08/05/2015 13:37:20.586 (UTC)

08/05/2015 13:22:20.000

24 26 28 30 32 34 36

Idle Status: Ready ServerStatus: Offline

# Downsampled Data

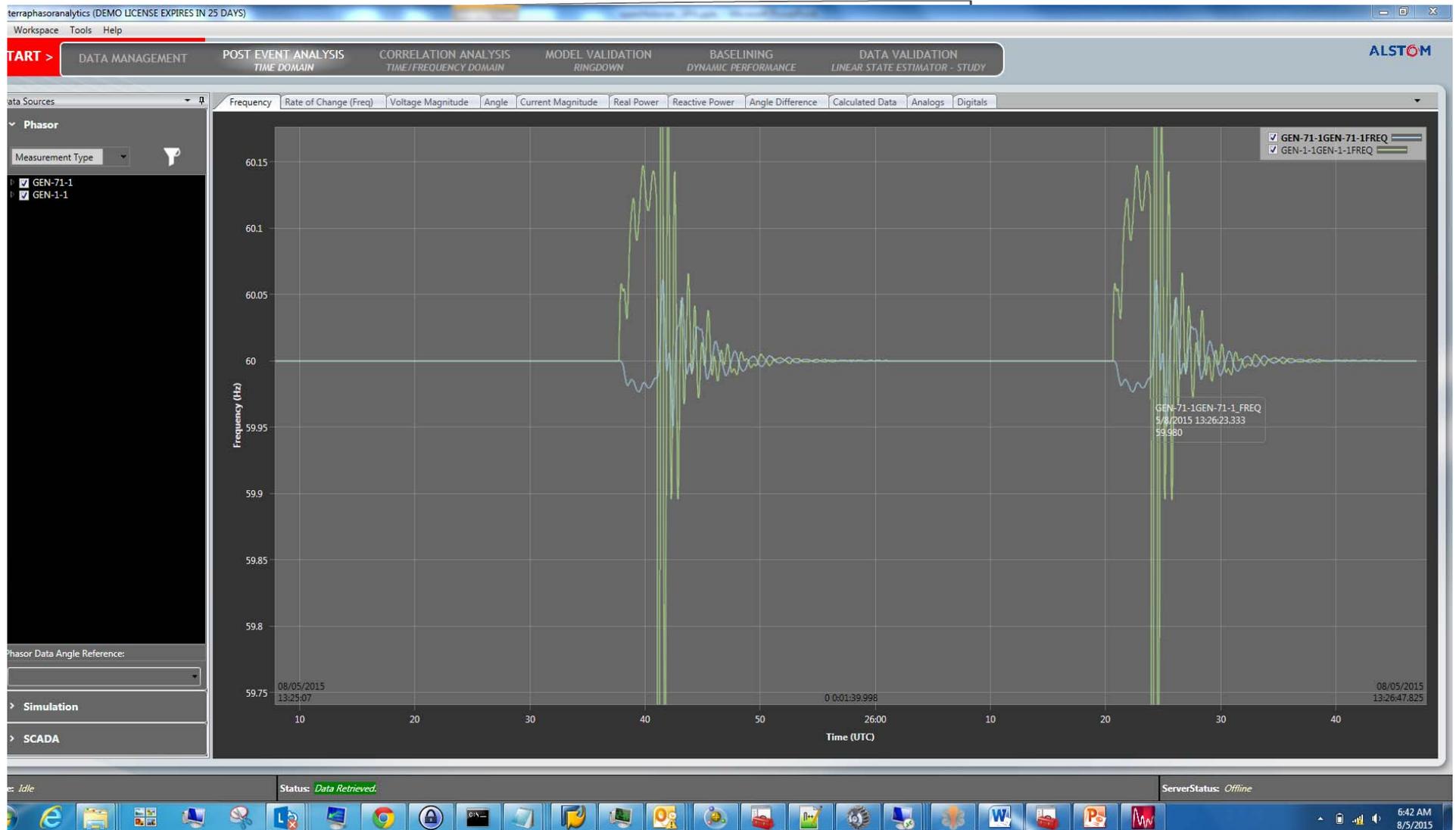


Presentation title - 10/08/2015 – P 5

© ALSTOM 2013. All rights reserved. Information contained in this document is indicative only. No representation or warranty is given or should be relied on that it is complete or correct or will apply to any particular project. This will depend on the technical and commercial circumstances. It is provided without liability and is subject to change without notice. Reproduction, use or disclosure to third parties, without express written authority, is strictly prohibited.



# Full Resolution Data



Presentation title - 10/08/2015 – P 6

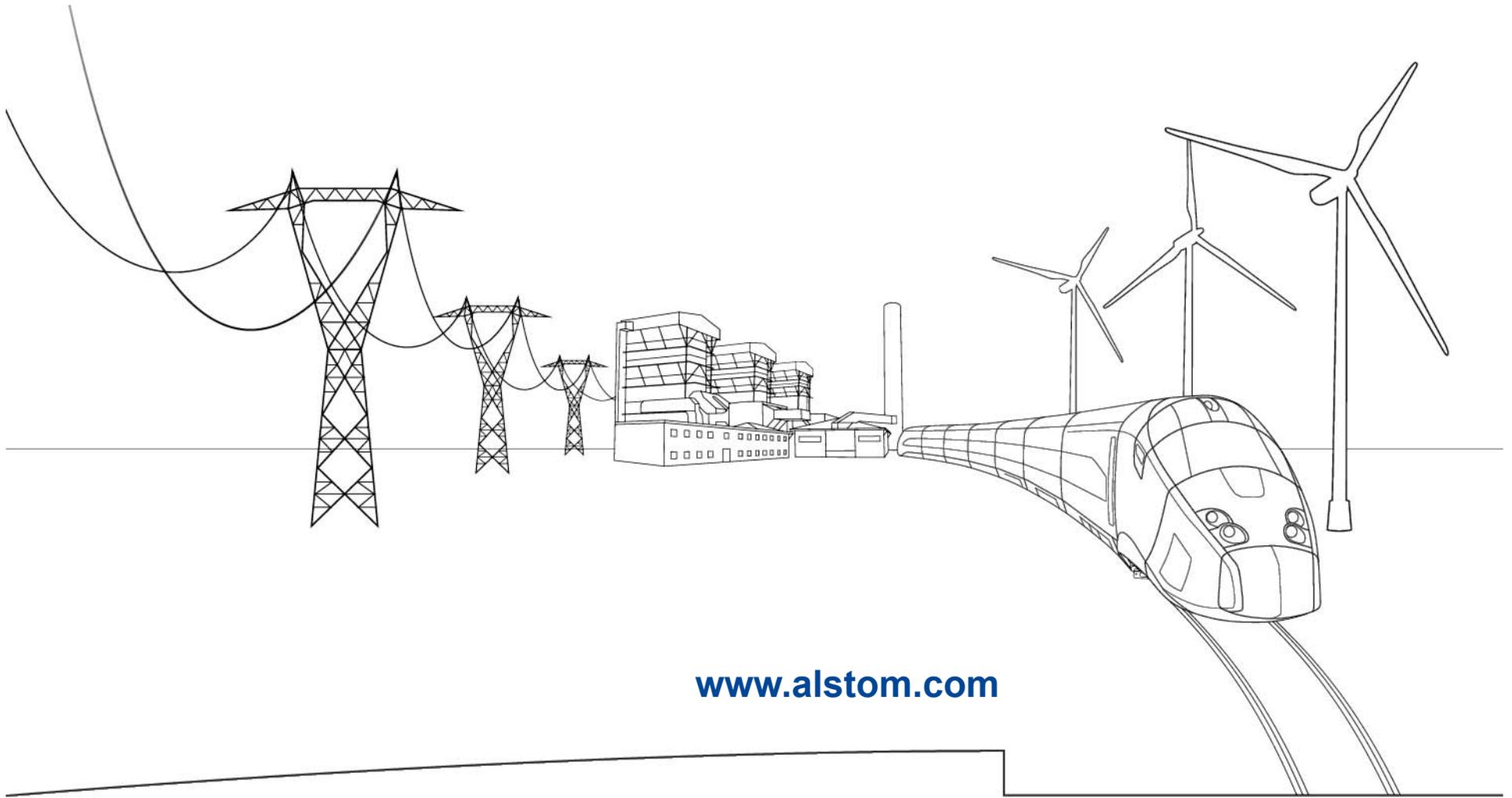
© ALSTOM 2013. All rights reserved. Information contained in this document is indicative only. No representation or warranty is given or should be relied on that it is complete or correct or will apply to any particular project. This will depend on the technical and commercial circumstances. It is provided without liability and is subject to change without notice. Reproduction, use or disclosure to third parties, without express written authority, is strictly prohibited.

**ALSTOM**

# openHistorian API Future Integration

---

- **Data Quality Information**  
**Bad Data Detection**
- **Time Quality Information**
- **Digitals**



[www.alstom.com](http://www.alstom.com)



*With Alstom, preserve the environment.  
Is printing this presentation really necessary?*

**ALSTOM**  
*Shaping the future*