Data Analytics

Operational Systems generate significant quantities of data that, harnessed correctly, can provide help automate and provide powerful insights into operations.
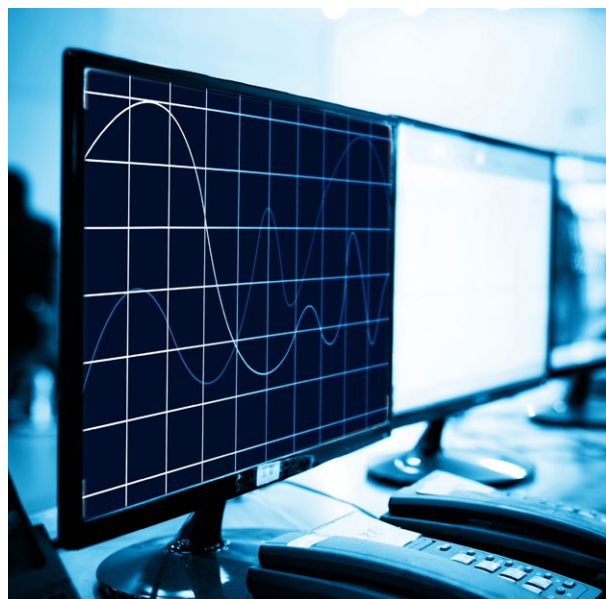
With the exponential increase in data collected by utilities it is vital to establish a platform and data model that can support petabytes of information, integrate diverse data sources and then use technologies such as machine learning to gain these valuable insights.

Network Analytics

OTS have undertaken leading roles in the some of the most advanced and ambitious Network Analytics projects that integrate Asset Management, Digital Metering and SCADA data to support advanced use cases that improve customer safety, improve response times and reduce operational expenditure.

Recent use cases that OTS have worked on include:

- Theft Detection
- Brown out detection
- Phase ID and Balancing
- Identifying Neutral Line Issues
- Identification of Battery Storage
- Detection of undocumented solar installations
- Real Time Voltage Control using Digital Metering data
- Identification of Air Conditioning Load and Holiday homes

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OSI PI

OTS are experts in the installation, upgrade and use of OSI PI for advanced applications such as integration (RLINK) to asset Management Systems for condition-based maintenance.

OTS have extensive experience in the use of (electricity, gas and water):

- Advanced Computing Engine (ACE)
- Asset Framework (AF)
- High Availability (HA)
- WebParts
- RLINK and other products

The use of these predictions to automate operations is needed to reduce ongoing operational expenditure and improve response times to issues. Examples of automation include:

- Using Digital Meter Voltages to make OLTC recommendations to SCADA.
- Raising service orders based on asset condition (e.g. neutral issues).

Visualisation and notification

OTS has developed their OT Dashboard Application, an Executive Dashboard that gives your leadership, customer relations, PR teams and field personnel up-to-the-minute insight regarding the performance of your network across a range of key indicators, from their iOS and Android mobile devices.

The OT Dashboard alerts them as soon as there is a problem, so they can respond in an effective and timely manner. The OT Dashboard can be configured to monitor a broad range of key performance indicators, drawing real-time data from across your operational technology systems.

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