



OutageAdvisor Customer Pilot Offer

Cooper Power Systems is offering a customer pilot featuring our advanced fault detection and location solution using cellular communications. The OutageAdvisor solution provides utilities the ability to achieve greater reliability and reduced operation and maintenance expenses. This simple, yet sophisticated, solution is designed to quickly and accurately communicate information regarding fault events to help utilities shorten response time and improve reliability indices.

OutageAdvisor Pilot

Sensors

The OutageAdvisor sensors utilize reliable cellular communications and field-proven sensor technology. The sensors are based on Cooper Power Systems S.T.A.R. faulted circuit indicator technology that has been actively used for more than 10 years.

The sensors provide utilities with a reliable means to locate and isolate faults and communicate a permanent event. This information greatly reduces the costly and time consuming fault-chasing methods that stress system components exposed to fault currents.

When the OutageAdvisor sensor detects a high rate of change of current (di/dt) followed by a loss of current it triggers the event. After allowing sufficient time for reclosers and other line protection devices to operate, the OutageAdvisor sensor determines if the fault was permanent or temporary in nature and transmits the information back to the Yukon GridServer Web.

The algorithm and sensor technology are designed to prevent false positives including operations due to inrush currents and capacitive discharge.

Yukon GridServer Web

The Yukon GridServer Web is set up and managed by Cooper Power Systems personnel easing deployment of the OutageAdvisor solution and offering customers the opportunity to pilot the OutageAdvisor solution.

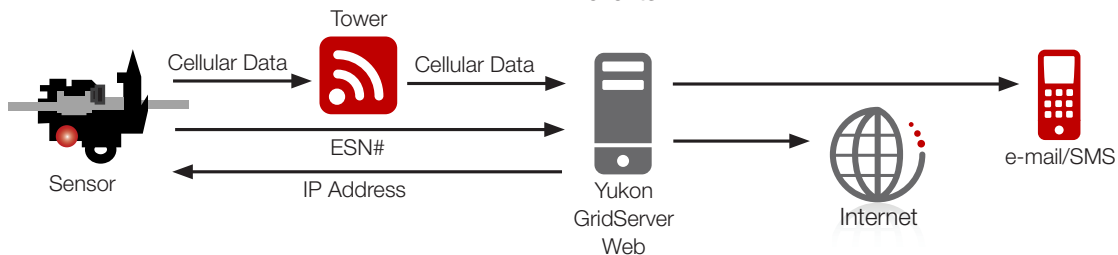
Data Display

The GridServer Web efficiently moves sensor data from field locations to the Internet. Collected data is viewed through custom designed web pages. The Cooper Power Systems pilot includes an overview page plus a detail page of all installed devices.

Notifications

GridServer Web provides an e-mail notification of sensor events as well as a display of alarm event status. Notifications are generated based on point data value events including state value and other typical SCADA alarm conditions.

These notifications are provided in real-time. When an event occurs, an e-mail message is generated and sent to the configured notification group. Rather than having to continually monitor the system, personnel receive notification of sensor events.



OutageAdvisor data navigation from the sensor to the end-user.

OutageAdvisor Customer Pilot Offering

OutageAdvisor sensors, web hosting, and cellular communications to achieve greater reliability and reduce costs.

Solution Overview

The OutageAdvisor customer pilot offering consists of three components: sensors, communication and visualization/notification.

Sensors

The GCVTA sensor for detecting fault is based on the proven CPS SCVT faulted circuit indicator. The SCVT is a field proven micro-processor controlled current reset unit that is designed to look for di/dt events to detect faults. It can be applied to both overhead and underground installations and utilizes a rechargeable battery (with a minimum of 10-amps of load current)

FCI designed to:

- Detect passage of a fault
- Determine whether fault was permanent or temporary and report status
- Report Health Status
- Report loss and restoration of 60Hz current (min. 10-amps of load current)

Communication

Cellular communications is integrated into the OutageAdvisor with no requirement for an external RTU or power supply. Communication, commissioning, and device activation are enabled upon installation and detection of sufficient load current. One year of cellular communications will be provided with the OutageAdvisor pilot proposal.

Visualization & Notification

The OutageAdvisor customer pilot offering will be a web-hosted solution powered by the Yukon server. This solution will provide a web-hosted interface that displays an overview of the deployed sensors and a detail page. Event notification can be set up for permanent fault, temporary fault, outage and restoration.

OutageAdvisor Customer Pilot

The pilot program includes:

- OutageAdvisor Sensors – GCVTA
- AT&T Cellular Communications twelve (12) months
- Yukon GridServer Web setup and hosting for twelve (12) months
- E-mail notification for twelve (12) months

Number of Sensors	Pilot Cost
12	\$9,500
24	\$15,000
36	\$20,500
48	\$26,000
60	\$32,000

Cooper Power Systems OutageAdvisor using cellular communications is specifically designed to minimize infrastructure investment. It uses field proven fault indicator technology to ensure the utility can provide the highest levels of customer reliability and service.

- This pilot offer expires June 30, 2010
- At the end of the trial period customer will transfer SIM ownership to their AT&T Enterprise On Demand account.
- Web-Setup includes an Overview Page as well as a Detail Page.

Cooper Power Systems
2300 Badger Drive
Waukesha, WI 53188
P: 877.CPS.INFO



COOPER Power Systems

www.cooperpower.com | www.cooperpowereas.com