

Digital Energy

Reliance AEMS External User/Office System

Providing a highly secure method of AEMS situational awareness outside the control room using Unidirectional Security Gateways

SECURE VIEW OF REAL-TIME DATA FOR USERS OUTSIDE THE CONTROL ROOM

The Reliance AEMS External User / Office System is an independent SCADA platform that can sit in the corporate environment. The AEMS system can be physically separated from the production control room environment using Unidirectional Security Gateways, providing true view only access to external users.

OVERVIEW

One of the challenges of maintaining the overall security of a production AEMS is the challenge of minimizing the number of users that have access to the secure system. By placing a small footprint SCADA system in the corporate environment, the external view-only users can be restricted from the production AEMS, thereby reducing the number of users in the AEMS.

Minimize the threat of external actors' access to the secure AEMS

The Reliance AEMS External User / Office System is physically separated from the production control room environment using Unidirectional Security Gateways. Unidirectional

Gateways are physically able to send information in only one direction, and not physically able to send any information or attacks back into the secure production network. Given that there is no physical path back into the production environment, easy-to-use-tools and automatic processes are provided to ensure that the AEMS system in the corporate environment is kept synchronized with the system in the production environment.

Users logging into the corporate system have access to the real-time SCADA displays and summaries, providing them situational awareness without need to log into the production environment. As an option, the system can be dual-use by storing the Oracle tables normally exported out to the "Corporate IS&R" system in the DMZ, into an independent schema in the Oracle database.

KEY OUTCOMES

Highly Secure:

- › Control room AEMS protected by Unidirectional Security Gateways
- › Corporate and external users gain view-only access to the real-time displays without any physical connection to the production AEMS environments
- › Complies with and reduces compliance costs for global industrial security standards, including French ANSSI requirements, IEC 62443-3-3 recommendations and NERC CIP regulations.

Optional: Secure replacement for the "Corporate IS&R" in the DMZ

KEY FEATURES

- › Database and display updates are automatically pushed from the AEMS to the External User / Office System
- › Real-time data is streamed through the Unidirectional Gateways
- › Includes facilities for integrity synchronization
- › Tags, memos, operator entries, alarm and events are kept in sync
- › User credentials are managed independent from the secure production environment
- › Independent historical collection

