

IED Management Solution

For electric utility professionals who need to access and manage field intelligent Electronic Devices (IEDs), SUBNET offers a software solution that provides simple, effortless, and secure remote access to substation devices. This secure solution complies with both internal and legislated cyber security policies including NERC Critical Infrastructure Protection (CIP) requirements.

Our solution

- Manage all access to field IEDs both remotely and locally
- Quickly and easily connect remotely to substation devices without having to navigate logins, reset forgotten passwords and traverse dial-up procedures
- Centrally control and manage all access to remote IEDs using existing IT policies and infrastructure
- Automate the password management process for IEDs
- Easily prepare for security audits with out-of-the-box reporting
- Comply with both internal IT and legislated cyber security policies, including NERC CIP



Making Substations More Intelligent®

www.SUBNET.com

Challenge

You need to remotely access and manage data from field IEDs to improve system operation, maintenance, and asset management, as well as to meet other corporate goals. However, you need to achieve this while enhancing security and fully complying with NERC CIP standards.

SUBNET offers a solution that simultaneously meets both of these needs. The SUBNET IED Management Solution – PowerSYSTEM Center™ is a software solution that integrates with your existing IT infrastructure to provide:

Remote Access to Field IEDs

Remote Access to Field Devices SUBNET's My IEDs™ software module helps you access and manage access to all IEDs at substations, locally or remotely. You save travel time to and from substations, and you increase productivity.

Password Management

SUBNET's My Passwords™ software module helps you manage the thousands of IED passwords at all of your substations. Automated password management enables you and utility personnel to focus on your job – better operation, maintenance, and management of your many assets – rather than spending your time trying to gain access to IEDs.

At the same time, all of this capability is done securely – keeping your cyber assets safe and helping you comply with corporate and legislated cyber security standards, including NERC CIP.

Interested in Learning More?

Visit SUBNET at www.SUBNET.com and request a demonstration of the IED Management Solution – PowerSYSTEM Center.

Solutions

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My IEDs™ software module helps you access and manage access to all IEDs at substations, locally or remotely. You save travel time to and from substations, and you increase productivity.

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My IEDs: Remotely Access IEDs

My IEDs is a software application that manages access to all IED configuration and data, whether local or remote. This provides you the access you need to perform a broad range of operational, maintenance, and asset management tasks. My IEDs automatically connects to devices, so that authorized users do not need to know the process, procedure, or parameters to access the IEDs. Personnel can focus on their jobs, not the process of accessing IEDs.

Our Solution

- ***Provides single sign-on capability***

My IEDs is tightly integrated with Microsoft® Active Directory authentication. This means the only credentials a user needs to know is their network username and password provided by their IT department. Once authenticated, users can see and access the IEDs they are allowed to access based on their permissions.

- ***Enables quick, easy, and automated connection to substation devices***

My IEDs is configured to know how to automatically connect to IEDs. You can spend more time actually managing and maintaining IEDs and less time trying to connect to them.

- ***Centralizes management of user remote access***

System administrators appreciate the ability to control who has access to specific IEDs. My IEDs enable permissions to be set on a user, IED, application, task, or command basis. Users appreciate this because they only see what they are allowed to access instead of navigating numerous unavailable devices.

- ***Supports common connection types***

My IEDs supports connections to substation devices via dial-up connections and Ethernet. My IEDs understands what type of connection is required to access a specific IED and automatically connects to the devices when accessed by an authorized user.

- ***Is easy to install and manage***

My IEDs does not require client software installation on a user's computer. Nor does it require additional hardware and software installation at the substation level. My IEDs works with your existing IT infrastructure, reducing integration costs and on-going maintenance expense.

How You Benefit

- Gain remote access to IEDs while maintaining cyber security policies
- Increase staff productivity by spending less time trying to access remote IEDs and more time managing and maintaining devices
- Increase the reliability of your infrastructure by aiding remote diagnosis and repair
- Reduce risks of outages or personnel injury by avoiding on-site work
- Reduce the need to travel to substations, decreasing costs and saving time
- Avoid locking into a single vendor solution by adopting this multi-vendor solution; you're free to choose your substation IED hardware

My Passwords: Efficient Password Management

My Passwords automates the password management process for IEDs, helping you comply with NERC CIP. Manual password management quickly becomes a daunting task when you consider the multiple levels of authentication needed for every IED across hundreds or thousands of substations.

With My Passwords, you can make password changes at prescheduled times, or make password changes on demand or manually as required.

Our Solution

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Users are able to define password policies per device type to create extremely granular control over password policies instead of a “one size fits all” solution. ”

How You Benefit

- ***Automates the password management process for IEDs***
My Passwords can automatically update thousands of IED passwords at scheduled intervals or on-demand, facilitating compliance with cyber security legislation. My Passwords also helps manage manual changes to IEDs where required.
- ***Incorporates comprehensive out-of-the-box reporting***
Breeze through your next NERC CIP audit with standard reports, including password change history, IED access and unauthorized attempts, permission audit reporting, and more.
- ***Avoids the need for any additional substation hardware***
My Passwords does not require additional hardware; rather, it leverages your existing IT infrastructure. This simplifies integration, reduces costs, and facilitates maintenance.
- ***Automatically authenticates through the various layers of software and hardware security***
My Passwords can be configured to navigate through multiple levels of security and devices to reach target devices and change passwords. This makes My Passwords a comprehensive solution, simplifying password management.
- ***Provides highly granular control over password policies***
Users are able to define password policies for each device type to create highly granular control over password policies instead of a “one size fits all” solution. Control over password length, special characters, numbers, and letters is made possible with My Passwords.
- Help meet NERC CIP requirements with regular password changes
- Simplifies and facilitates NERC CIP audits
- Minimizes labor to perform password changes
- Lower risk and increase reliability
- Save money by using your existing IT infrastructure and processes
- Use best-of-breed IED hardware solutions, instead of locking into a single vendor

What Makes Our Solution Different?

Unlike many other options, SUBNET's IED Management Solution – PowerSYSTEM Center is a multi-vendor solution that works with IEDs regardless of vendor. Compared to the competition, we offer the following capabilities:



SUBNET's IED Management Solution – PowerSYSTEM Center is designed to minimize the headaches typically associated with configuring and retrieving data from substation devices while maintaining security. ”

- Centrally control and manage remote and local IED access, without requiring additional hardware in substations.
- Centrally manage all passwords and password change policies and processes, whether automatically or manually administered and maintained.
- Avoid special software installation on user computers; leverage your existing IT infrastructure; and benefit from support of various operating systems.
- Access your substation devices via secure dial-up connections and Ethernet.
- Take advantage of this multi-vendor, multi-function solution that works with your substation devices regardless of vendor.
- Store all password information in a safe and secure encrypted database, preventing anyone from obtaining a password without the appropriate level of access.

SUBNET's IED Management Solution – PowerSYSTEM Center is designed to minimize the headaches typically associated with configuring and retrieving data from IEDs, while maintaining security.

- Avoid travel time between facilities, reducing maintenance costs
- Save time gaining access to devices, improving efficiency
- Gain more time to improve operation, maintenance, and asset management
- Reduce the risk of injury to personnel that may accompany on-site device adjustments
- Reduce the risk of outages due to onsite work, improving reliability
- Improve productivity by managing devices via centralized control
- Enhance security and reduce the risk of NERC CIP noncompliance fines

How You Benefit



Making Substations More Intelligent

Official Solution of the Unified Grid Intelligence Technology

The SUBNET IED Management Solution – Power SYSTEM Center is part of SUBNET's Unified Grid Intelligence philosophy. This holistic approach provides interoperable solutions between many different field devices, to many different business systems, over many different types of communication networks. The goal of these solutions is to provide true multi-vendor, multi-function interoperability. SUBNET's solutions integrate with utilities' existing IEDs, IT networks, and engineering productivity tools to deliver data efficiently and securely to analysts, maintenance personnel, engineering departments, and operations.

About SUBNET Solutions, Inc.

SUBNET Solutions Inc. is a global software solutions provider for electric utilities. SUBNET focuses on Making Substations More Intelligent®. Founded in 1992, SUBNET is an industry leading provider of intelligent solutions that securely connect real-time electric utility field information with utility business systems to enable smart grid solutions. Over 200 utilities worldwide rely on SUBNET software to safely manage and monitor thousands of substations.

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