



Passthrough Manager

Secure, transparent remote access to substation IEDs

The Yukon IED Manager Suite (IMS) provides system administrators with a complete suite of software applications to remotely manage all installed intelligent electronic devices (IEDs). The Yukon IMS Passthrough Manager provides an enterprise-level secure single point of access to IEDs for maintenance and engineering.

Passthrough Manager includes client, installed on users' workstations, and a server, installed in a central location, which manages connections between remote IEDs and users on the corporate network.

With the Passthrough Manager, users can access IEDs via native vendor tools, with comprehensive access control.

- Hide IED and gateway passwords from users
- Assign access rights dynamically, depending on the user's region and role
- Manage connections centrally, at the enterprise level
- Provide transparent remote access to IEDs from any application
- Produce NERC CIP-compliant usage logs

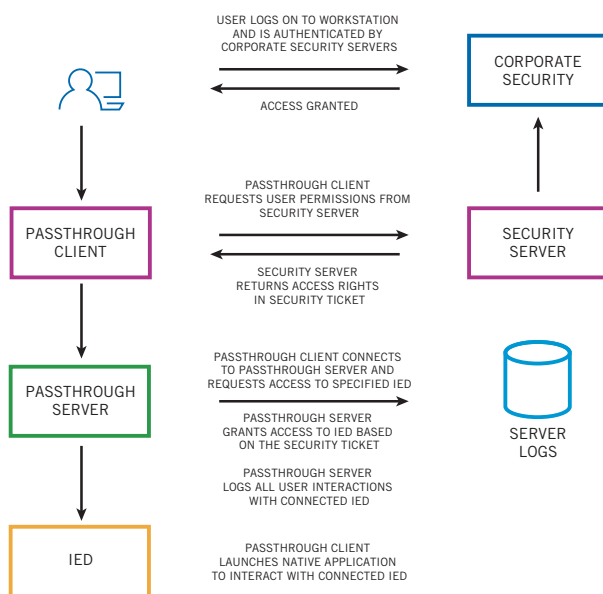
Features and Benefits

Transparent remote access

- Users can connect to any substation IED to which they have access
- Connection parameters, passwords and communication encryption is preconfigured in Passthrough Manager: users connect as if they were in the substation
- Support for dial-up, TCP/IP and X.28 passthrough

Secure remote access

- Central security ensures that only authorized users are allowed to connect to IEDs
- Passthrough Manager uses Security Server's link to the corporate security infrastructure to authenticate users, using two-factor authentication if available
 - Centralized authentication
 - Centralized user management
 - Access rights based on region and IED
- Meets NERC CIP requirements
 - Individual user accounts
 - Hide device passwords from users
 - Audit log of all IED accesses and data exchange
 - Prevents users from remotely changing IED passwords or sending harmful commands
 - Communication encryption
 - When used with SMP Gateway, local security at the substation level protects IEDs from unauthorized access in the event that the link to the corporate servers is down



Hardware System Requirements

The following table lists the recommended minimum hardware requirements for the Passthrough Manager server:

COMPONENT	REQUIREMENT	NOTES
Processor	1 single-core 3 gigahertz (GHz) or faster Intel-compatible processor, or 1 dual-core 2 gigahertz (GHz) or faster Intel-compatible processor	None.
Memory	Minimum: 2 gigabytes (GB) of RAM	This recommended memory configuration is suggested as a way to optimize performance for Passthrough Manager. Performance will vary depending on the number of IEDs configured in the system.
Paging file size	Equal to the amount of RAM in the server plus 10 MB	None.
Disk space	At least 30 GB for OS and application partition, of which 500 MB are required to install Passthrough Manager. An additional 100 GB on RAID1, RAID3 or RAID5 disk array for data and logs	Disk space requirements vary depending on the number of IEDs configured in the system.
Drive	DVD-ROM drive, local or network accessible	None.
Screen resolution	1024 x 768 pixels or higher	None.
File format	Disk partitions formatted as NTFS file systems, which applies to the following partitions: <ul style="list-style-type: none"> • System partition • Data partition 	None.
Network adaptor	100/1000 Mbs Ethernet adaptor	None.
Serial ports	Required for modem communications Required for X.28 communications	Serial ports not required if all communication is done via network adaptor.

Software System Requirements

The following table lists the recommended minimum software requirements for the Passthrough Manager server:

COMPONENT	REQUIREMENT	NOTES
Operating System	Operating system on a computer that has a 32-bit processor for testing and training environments only	One of the following: <ul style="list-style-type: none"> • Windows® Server 2003 Standard Edition with SP2 • Windows® Server 2003 Enterprise Edition with SP2 • Windows® Server 2003 R2 Standard Edition • Windows® Server 2003 R2 Enterprise Edition
Microsoft® .NET™	Microsoft® .NET™ Framework Version 2.0	None.
Microsoft® Core XML Services (MSXML)	Version 4.0	Required during installation. Available on Installation disk.
Database	Microsoft® SQL Server® 2005	One of the following: <ul style="list-style-type: none"> SQL Server® 2005 Enterprise Edition SQL Server® 2005 Standard Edition SQL Server® 2005 Workgroup Edition

Connections

NETWORK	TOPOLOGY	GATEWAYS AND DEVICES	NATIVE VENDOR TOOLS
<ul style="list-style-type: none"> • TCP/IP • Dial-up (PSTN) • X.28 	<ul style="list-style-type: none"> • Directly connected • Connected to one gateway • Connected to multiple cascading gateways 	<ul style="list-style-type: none"> • Cybectec SMP Gateways • SEL 2020 and 2030 • All devices supported by Cybectec SMP Gateway • Cooper Form6 • Complete list available on request 	<ul style="list-style-type: none"> • Cooper Proview • SEL 5010, 5020, 5040, • SEL AcSELeRator • GE Enervista, • GE ConfigPro • Many others – complete list available on request

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