



Configuration Manager

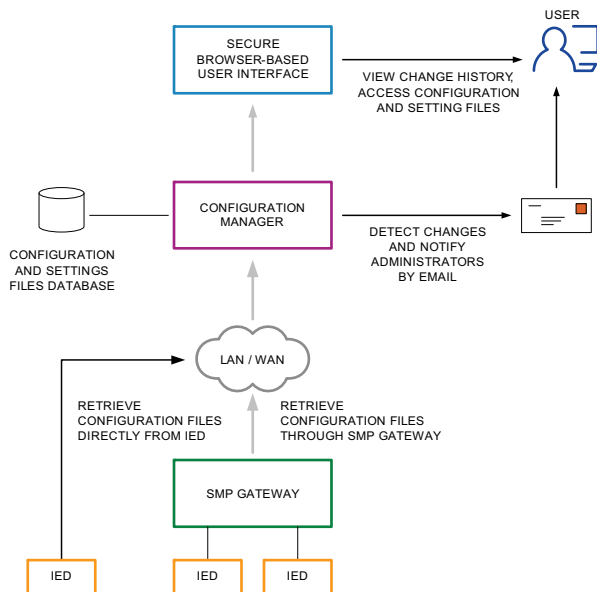
Centralized management of IED settings and versions

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 Configuration Manager logs all IED configuration settings. Utility IED system administrators are automatically notified when configuration files of substation-level devices have been updated.

The Configuration Manager provides a secure browser-based user interface with the following functionalities:

- **Monitors** the configuration settings of all substation IEDs and SMP Gateways on a scheduled basis
- **Retrieves** and **stores** configuration files of the SMP Gateways and many types of IEDs
- **Detects** all devices configuration setting changes
- **Notifies** system administrators of any detected change
- **Maintains** the history of configuration changes in an auditable database

Moreover, Configuration Manager is a simple-to-use and easy-to-maintain enterprise software solution designed to help utilities meet NERC CIP requirements.



Features and Benefits

Monitoring and Detection

- IED software versions
- IED hardware information
- IED patches and service packs
- Device settings and configuration
- SMP Gateway settings and configuration

Reporting and Notification

- Automatic IED configuration change notification
- IED configuration change history
- Device change history reports
- IED and SMP Gateway monitoring report

NERC CIP Compliance Functionalities

(the following features help compliance with the NERC CIP-002-1, CIP-003-1, CIP-005-1, CIP-007-1 and CIP-009-1 requirements)

- Critical cyber assets configuration change history
- Configuration change automatic notification
- Configuration restoration and backup (simplified with the storage of all the information required to restore all SMP Gateways and managed devices)

Hardware System Requirements

The following table lists the recommended minimum hardware requirements for the Configuration 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 Intelcompatible processor	None.
Memory	Minimum: 2 gigabytes (GB) of RAM	This recommended memory configuration is suggested as a way to optimize performance for Configuration 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 Configuration 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 Mbps 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 Configuration 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	
Simple Mail Transfer Protocol (SMTP) service	Must be accessible from the Configuration Manager server.	None.
Internet Information Services (IIS)	World Wide Web Publishing Service (W3SVC) ASP.NET version 2.0	You must install IIS by using Add or Remove Programs in Control Panel.
Microsoft® Core XML Services (MSXML)	Version 4.0	Required during installation. Available on Installation disk.
Domain Name Server (DNS)	Must be accessible from Event Manager server.	
Web Browser	Microsoft® Internet Explorer® 6 or 7 Mozilla Firefox® 3.x Google™ Chrome	
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	DEVICES	GATEWAYS
<ul style="list-style-type: none"> • TCP/IP • Dial-up (PSTN) • X.28 	<ul style="list-style-type: none"> • Directly connected • Connect to one gateway • Connected to multiple cascading gateways 	<ul style="list-style-type: none"> • SEL relays • SMP Gateways 	<ul style="list-style-type: none"> • SMP Gateways • SEL 2020 and 2030

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