FlexNet® for Administrators

RNI 4.4 RELEASE

The FlexNet Administrator class provides guidance and instruction to new customers in the administrator role in water, gas, and/or electric service utilities, on performing daily monitoring and maintenance tasks for a FlexNet® communication network, including those for securing the FlexNet network, and configuring and managing RNI system operation and FlexNet components.

CONTENT SUMMARY:

Module 1: RNI Component Review

- Describe the primary functions of the software application servers.
- Identify third-party software that the utility obtains and maintains.
- State the purpose of the MultiSpeak interfaces in the RNI.
- Describe the type and format of reports available from the Reporting Component.
- Describe the high-level flow of data through the RNI.

Module 2: Monitoring Overview

- List the three key areas of the monitoring process in the recommended order of performance.
- Describe the kinds of tasks performed during each of the three key areas of the monitoring process.

Module 3: Security: User Access Control

- Identify the process for creating secure user accounts.
- Create a new role and RNI user account.
- Delete a role and user.
- Specify a password policy.
- Apply one or more roles to a user.

FlexNet

METHOD

- Instructor-led class (customer's site)
- eLearning

PREREQUISITES

- FlexNet Introductory Series

AUDIENCE

- FlexNet Administrators

DURATION

- 1/2 day

RESOURCES

- sensus-training.com
- My Sensus
- education@xyleminc.com
- 1-800-638-3748

WHAT'S NEXT

- FlexNet for Operators
- Sensus Analytics

sensus
a xylem brand

Module 4: Security: System Access Control

- Recall actions taken by Sensus to secure RNI servers prior to shipment to utility.
- Describe why using commercial Secure Socket Layer (SSL) certificates are important.

Module 5: Security: Data Access Control

Sensus Encryption Solution Overview

- List the primary methods used to protect sensitive data.
- Identify at least three key characteristics of the Sensus data encryption solution.
- Describe the overall encryption process for existing and new endpoints.
- Describe the five stages of key management.
- Identify at least three characteristics of the Hardware Security Module.

Planning for Encryption

- Name the three stages of encryption planning.
- Identify the major components of each planning stage.

Configuring Encryption Settings in the RNI

- Identify the types of settings required to prepare the RNI for encryption.
- List the settings used to prepare the RNI for encryption implementation.
- Recall the steps to enable encryption on an installed device in Device Manager.

Module 6: System Operation

Introduction to the RNI Reporting Component

- Describe the role of the RNI reporting component.
- Identify the output file formats.
- List three read reports created by the reporting component.
- List two reports that output non-read data.
- Locate additional information about the individual reports and the reporting component operation.

Managing Scheduled Jobs

- Identify the tools used to manage scheduled jobs.
- Verify reports are being generated in a timely fashion.
- Describe the procedure used to investigate failed jobs.

Module 7: Electric Firmware Downloads

Firmware Download Overview

- Explain why to use the meter firmware download process.
- List the components that can be upgraded.

FlexNet V1

- Identify which protocol version is used based on meter type and firmware version.
- Describe the functions of the various download steps.
- List the order in which the steps are performed.
- Describe the difference between protocol version 1 and protocol version 2.

FlexNet V2

- Identify the meter types which use the FlexNet Version 2 file transfer protocol.
- Describe the functions of the various download steps.
- List the order in which the steps are performed.

Firmware Download Considerations

- Identify network bandwidth and other issues to consider before performing a firmware download.

Performing Electric Meter Firmware Downloads

- Describe the preparations for and initiation of an electric meter firmware download.
- Indicate where to follow the download process as it runs.
- Determine which meters have failed to update their firmware.

Module 8: Water / Gas Firmware Downloads

Firmware Download Overview

- Explain why to use the meter firmware download process.
- List the components that can be upgraded.

Firmware Download Process

- Describe the overall download process.
- Identify network bandwidth and other issues to consider before performing a firmware download.

Performing Water/Gas Firmware Downloads

- Describe the preparations for and initiation of a water or gas meter firmware download.
- Indicate where to follow the download process as it runs.
- Determine which meters have failed to update their firmware..