

FLEXNET FOR ADMINISTRATORS

RNI 4.1 RELEASE FOR NEW CUSTOMERS



OVERVIEW

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.

METHOD

- Instructor-led class
- eLearning

PREREQUISITES

FlexNet Introductory Series

CLASS MATERIALS

FlexNet Manual for Administrators

WHO SHOULD ATTEND

FlexNet Administrators

DURATION

One-half day

LOCATION

- Customer site
- sensussmartstart.com

ADDITIONAL EDUCATION

- FlexNet for Operators
- Logic Data Analytics
- Sensus Analytics

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

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.

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CONTENT SUMMARY (CONTINUED)

- 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.

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 (FWDL)

FIRMWARE DOWNLOAD OVERVIEW

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

FIRMWARE DOWNLOAD PROTOCOL OPERATION

- Identify the protocol used for a given meter type and firmware version.
- Compare and contrast the two protocol versions.

ADDITIONAL CONSIDERATIONS WHEN PERFORMING FIRMWARE DOWNLOADS

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

PERFORMING ELECTRIC 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 (FWDL)

FIRMWARE DOWNLOAD OVERVIEW

- Explain why to use the meter firmware download process.
- List the contents of the firmware download package.

FIRMWARE DOWNLOAD PROCESS

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

PERFORMING WATER/GAS FWDL

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

FOR MORE INFORMATION

Contact the Sensus Education and Training Department at education@sensus.com or visit us online at www.sensusmartstart.com