

Transitioning from FlexWare to Sensus Launch Pad

For Gas Utilities with RNI 4.1.x systems



DESCRIPTION

This document aids RNI system operators and administrators in migrating their device management processes to the Sensus Launch Pad applications. It provides instructions on where to access device information, including read data, alerts, and reports in the new applications as compared to the legacy application.

SENSUS LAUNCH PAD

The Sensus Launch Pad is the landing page for the Sensus suite of applications. It is organized into four areas of management: (Figure 1):

- Device Management
- RNI Management
- RF Network Management*
- Solution Applications*

* RF Network Management and Solution Applications are omitted from this document.



FIGURE 1: SENSUS LAUNCH PAD

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FOR MORE INFORMATION

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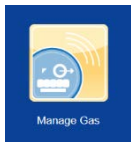
OVERVIEW

The Sensus suite of applications provides the user access to the same functionality formerly located in the legacy FlexWare application. The tasks a FlexNet network Operator or Administrator perform remain the same; it is where they are performed within the new applications that has changed with the release. This document is intended to provide those tasks, organized by device management and RNI management, and inform the user of the equivalent location to complete the task in the new applications. The two sections are as follows:

- **Device Management**

The device management section on administration covers tasks used to configure and modify parameters and thresholds on devices; the device management section on operations covers tasks used in monitoring and performing actions on devices.

These tasks are performed using the applications located in the **Device Management** menu of **Sensus Launch Pad** and include:



Device Manager
Used to monitor and perform actions on devices.



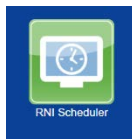
Firmware Download
Used to perform over-the-air firmware download on gas devices.

- **RNI Management**

The RNI management section covers where to configure network and customer settings, manage user roles and permissions, and monitor and manage jobs in the FlexNet network. These tasks are performed using the applications located in the RNI Management menu of Sensus Launch Pad and include:



System Administration
Used to configure parameter and network settings, and manage user access.



RNI Scheduler
Used to monitor and modify scheduled jobs in the RNI.

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ABOUT THIS DOCUMENT

The content of this document displays tasks in table format, grouped by device management and RNI management. Each table is divided into three columns; the **Task** being performed, where the task was performed in **FlexWare**, and where to perform the task in the **Sensus Launch Pad (SLP)** suite of applications.

Task	FlexWare	SLP Application Name
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CONVENTIONS IN THIS DOCUMENT

Devices > SmartPoints Denotes a menu hierarchy, in this example choose the **Devices** menu and then the **SmartPoints** tab.

OMISSIONS

The applications located in the **RF Network Management** and **Solutions Applications** menus of Sensus Launch Pad are omitted from this document. Included in this omission is the **CommStats** application. The functionality of the **CommStats** application with this release remains unchanged and is therefore not included in this document. The remaining applications are not part of the core product offering.

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SECTION 1: DEVICE MANAGEMENT

ADMINISTRATION

Device management, from an administrative perspective includes tasks performed around [provisioning](#) a gas device, [configuring](#) parameters, and thresholds on a device. Actions vary according to device type and enabled features. The majority of these tasks are performed in the **Device Manager** application.

PROVISIONING

Provisioning tasks include initializing and modifying thresholds, setup and binding communications, and meter encryption on a device.

TABLE 1: PROVISIONING

Task	FlexWare	Device Manager
Thresholds and Communication		
Provision a meter for binding	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Binding Ping	Devices > SmartPoints (select a device) > Actions > Provisioning > Binding
Provision a meter for channel setup	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Channel Setup Audit Ping	Devices > SmartPoints (select a device) > Actions > Provisioning > Channel Setup
Provision a meter for setup	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Setup Ping	Devices > SmartPoints (select a device) > Actions > Provisioning > Setup
Provision a meter for time sync	Unavailable	Devices > SmartPoints (select a device) > Actions > Provisioning > Time Sync
Encryption		
Disable Encryption on a device	Search for a device > IMIP > Configuration > Security > Request Disable Encryption	Devices > SmartPoints (select a device) > Actions > Encryption > Disable
Enable Encryption on a device (Security)	Search for a device > IMIP > Configuration > Security > Request Enable Encryption	Devices > SmartPoints (select a device) > Actions > Encryption > Enable
Rotate (Encryption) Keys	Tools > Select Endpoints > Rotate Keys	Devices > SmartPoints (select a device) > Actions > Encryption > Rotate Unique Key
Suspend AES	Tools > Select Endpoints > Suspend Encryption	Devices > SmartPoints (select a device) > Actions > Encryption > Suspend AES

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CONFIGURING

Configuration tasks include modifying parameters and operational thresholds on a device.

TABLE 2: CONFIGURATION

Task	FlexWare	Device Manager
Device Configuration		
Update the latitude/longitude of a device	Search for a device > IMIP > Configuration > GeoSpatial Coordinates	Search for a Device > Device Details > About this Device > Location > Edit Location
Set the Endpoint (Device) ID	Search for a device > IMIP > Configuration > Set Endpoint Id	Search for a Device > Device Details > [Radio Configuration] Advanced > [General Setup] Set
Modify the frequency settings*	Administration > (Meters) Reprogramming > Gas	Search for a Device > Device Details > [Radio Configuration] Advanced > Transmit *This should NEVER be made without approval by Sensus.
Update a meter Id	Administration > (Meters) Reprogramming > General Setup > Meter Id	Device Details > About this Device > [Radio Configuration] Advanced > General Setup
Tower Management		
Edit Base Station Information	Administration > Towers > Edit	Devices > Base Stations > Select a Base Station > About this Device > Edit

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OPERATIONS

Device Management, from an operational perspective is focused on two types of tasks: 1) monitoring FlexNet[®] device health and performance through [read and communication data](#), device status, [reporting](#), and [alert management](#), and 2) performing actions on devices to request data, [create groups](#), [manage tags](#), and [manage the lifecycle states](#). These tasks are performed in the **Device Manager** and **Firmware Download** applications.

MONITOR READ AND COMMUNICATION DATA

Device Manager displays various read data types (device dependent) including: interval, demand, and register, as well as communication data: RIS, buddy, and stale reads.

TABLE 3: VIEW DEVICE DATA

Task	FlexWare	Device Manager
Reads		
Interval reads for a device	Search for a device > IMIP > Summary > Chart or Table	Search for a device > Device Details > Read Data > Table and/or Chart
Register reads on a device	Search for a device > IMIP > Summary > Latest Readings	Search for a device > Device Details > Read Data > Table and/or Chart
Latest readings	Search for a device > IMIP – UI automatically notifies when new readings are available	Search for a device > Device Details > Banner
Demand Read	Search for a device > IMIP > Commands > Perform Demand Read	Search for and select a device > Actions > Get Data from Device > Get On the Glass Read
Communications		
Communication Statistics for a device	Search for a device > IMIP > Status > Communications	Search for a device > Device Details > Communications
Route Analyzer		
Access the Route Analyzer	Search for a device > IMIP > Status > Route Analyzer	Search for a device > Device Details > Communications > Route Analyzer

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VIEW REPORTS

Key data for monitoring and maintaining device health is presented in various reports: **Troubled Meter**, **Lifecycle**, **Encryption**, and **Communication**. It is recommended to review these reports on a regular basis to investigate potential device issues. Gas DM also offers user-defined reporting created through filtering and sorting on **Devices** and **Alerts** lists. All reports are easily exported to Comma Separated Value (csv) files.

TABLE 4: REPORTS

Task	FlexWare	Device Manager
List of Installed Meters	Reports > Installed Meters Report	Devices > SmartPoints > Device List > Filter by Lifecycle State Installed
List of communication statistics for installed meters	Reports > Communications Statistics	Reports > Communication
List of Alerts	Reports > Event Log	Alerts Menu
List of devices with encryption status	Reports > Encryption Status	Reports > Encryption
List of devices with quarantined reads	Reports > Quarantined Meters	Alerts > Filter by Alert (type) Read Data Quarantine
List of requests sent to meters	Reports > Two Way Log	System Intelligence > Today <ul style="list-style-type: none"> - Scheduled Events - Event History * or Recent Requests
List of base stations	Reports > Towers	Devices > Base Stations
List of batch jobs	Reports > Show Batch Jobs	System Intelligence > Today <ul style="list-style-type: none"> - Scheduled Events - Event History
List of meters with operational exceptions	Unavailable	Reports > Troubled Meter
List of meters with lifecycle exceptions	Unavailable	Reports > Lifecycle

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MANAGE DEVICE ALERTS

Alerts can be classified for category and severity; and notifications can be configured via email for recipient and frequency.

TABLE 5: ALERTS

Task	FlexWare	Device Manager
View Current Alerts on a device	Search for a device > IMIP > Summary > Alarms	Devices > (select a device) Device Details > Alerts tab
Get Current Alerts on a device	Search for a device > IMIP > Summary > Alarms > Refresh from Database	Devices > SmartPoints (select a device) > Actions > Manage Alerts > Get Current Alerts
Clear Alerts on a device	Search for a device > IMIP > Configuration > Clear Alarms	Devices > SmartPoints (select a device) > Actions > Manage Alerts > Clear Alerts
Clear Alerts on multiple devices	Unavailable	Devices > SmartPoints (select devices) > Actions > Manage Alerts > Clear Alerts
Clear Quarantine Alerts on a device	Reports > Quarantined Meters > Reset Quarantine	Devices > SmartPoints (select a device) > Actions > Manage Alerts > Clear Quarantine Alerts
Clear Quarantine Alerts on multiple devices	Reports > Quarantined Meters > Reset Quarantine	Devices > SmartPoints > Filter by Read Data Quarantine Alert > Select devices > Actions > Manage Alerts > Clear Quarantine Alerts

VIEW REQUESTS

Display events and actions applied to a device or events and actions across all devices in Device Manager.

TABLE 6: REQUESTS

Task	FlexWare	Device Manager
View Event History on a device – Operator Role	Search for a device > IMIP > Summary > Event History	Search for a Device > Device Details > History
View Event History on all devices – Admin Role	Search for a device > IMIP > Summary > Event History	System Intelligence > Event History
View a requested action in the Requests queue	Search for a device > IMIP > Requests	Anywhere in DM > Recent Requests

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MANAGE GROUPS AND TAGS

Device Manager allows the creation of groups of devices for a more focused display and analysis of the device data. Tags provide a temporary filtering capability.

TABLE 7: GROUPS AND TAGS

Task	FlexWare	Device Manager
Groups		
Add a Device to a Group	Administration > Meter Groups > Edit	Devices > SmartPoints > (select a device) Actions > Group > Add Device
Remove a Device from a Group	Administration > Meter Groups > Edit	Devices > SmartPoints > (select a device) Actions > Group > Remove Device
Create a Meter group	Administration > Meter Groups > Create Group	Groups > SmartPoints > Create Meter Group
Tags		
Add a tag to a device	Unavailable	Devices > SmartPoints (select a device) > Actions > Tag > Add device
Remove a tag from a device	Unavailable	Devices > SmartPoints (select a device) > Actions > Tag > Remove Device
Create a tag	Unavailable	System Settings > Manage Tags > Add Tag

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INVENTORY MANAGEMENT

A device can have a Lifecycle State of Installed, Inventory, RMA, or Unknown and an Administrative State of Active, Disconnected, Inactive, Maintenance Mode, or Test Mode. Device Manager provides the ability to manage the lifecycle of FlexNet gas devices.

MDMIF commands, while available for electric devices in FlexWare, were not functional for gas devices, and therefore are shown as unavailable in FlexWare.

TABLE 8: MANAGE LIFECYCLE

Task	FlexWare	Device Manager
Lifecycle State		
Modify Lifecycle State	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to Inventory
Delete a meter	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Remove device
Install a meter	Unavailable	Search for a device > Device Details > Actions > Lifecycle > Set to Install
RMA a device	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to RMA
Remove a device from RMA status	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to Install
Administrative State		
Modify Administrative State to Active	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to Active
Modify Administrative State to Disconnected	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to Disconnected
Modify Administrative State to Inactive	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to Inactive
Modify Administrative State to Maintenance Mode	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to Maintenance Mode
Modify Administrative State to Test Mode	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set to Test Mode
Modify the Install Date of a meter	Unavailable	Devices > SmartPoints (select a device) > Actions > Lifecycle > Set Install Date

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FIRMWARE DOWNLOAD (FWDL)

Over-the-air firmware download on one or multiple gas devices is performed using the **NA2W Firmware Download** application and is accessed through the Firmware Download icon and then by selecting NA2W FWDL.

TABLE 9: GAS FWDL TASKS

Task	FlexWare	NA2W Firmware Download
Perform a FWDL	Tools > NA2W Firmware Download	Add New
Monitor active jobs	Tools > NA2W Firmware Download > Pending Sessions	Executing
View job history	Tools > NA2W Firmware Download > Finished Sessions	History

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SECTION 2: RNI MANAGEMENT

SYSTEM ADMINISTRATION

RNI Management, from a system administration perspective includes tasks performed to configure parameter settings, network settings, and manage user access through roles and permissions. These tasks are performed in the **System Administration** application.

TABLE 10: SYSTEM ADMINISTRATION TASKS

Task	FlexWare	System Administration
Configuration		
Modify Configuration Settings	Administration > Customer/Network Configuration	Configuration > Configuration
Modify Customer Name/Description	Administration > Customer/Network Configuration > Customers	Configuration > Customers
Modify Network Information	Administration > Customer/Network Configuration > Networks	Configuration > Networks
Modify Sub-Network Information	Administration > Customer/Network Configuration > Sub-Networks	Configuration > Sub-Networks
Task	FlexWare	System Administration
Software		
Modify Customer Information	Administration > [Configuration] Settings	No longer needed
Modify Server Information	Administration > [Configuration] Settings	No longer needed
View Server / Service Versions	About FlexNet RNI	Software > Services
Users		
Add/Modify Users	Administration > [Configuration] User Roles > Users	Users
Add/Modify Roles	Administration > [Configuration] User Roles > Roles	Users > Roles
Modify Password Settings	Administration > [Configuration] User Roles > Password Management	Users > Password Management

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MANAGE JOBS

RNI operators and administrators can monitor active and scheduled jobs in the RNI to verify jobs are running as scheduled with the option of modifying jobs as deemed necessary. These tasks are performed in the **RNI Scheduler** application.

TABLE 11: SCHEDULER

Task	FlexWare	RNI Scheduler
Verify scheduled engines are connected	Tools > Scheduler > Scheduler Home	Scheduler Agents
Verify scheduled jobs are running	Tools > Scheduler > List Jobs	Manage Jobs
Export/import jobs	Tools > Scheduler > Export Jobs/Import Jobs	Manage Jobs > Export or Import
View status history of jobs	Tools > Scheduler > Search History	Job History
Modify a Step Handler	Tools > Scheduler > Manage Step Types	No longer needed