

# Transitioning from FlexWare to Sensus Launch Pad

For Water 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

- Online: [www.sensusmartstart.com](http://www.sensusmartstart.com)
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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.



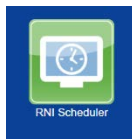
**Firmware Download**  
Used to perform over-the-air firmware download on water devices.

- **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

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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

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

## OMISSIONS

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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 water device, [configuring](#) parameters and thresholds on a meter. Actions vary according to device type and enabled features. The majority of these tasks are performed in the **Device Manager** application.

### PROVISIONING

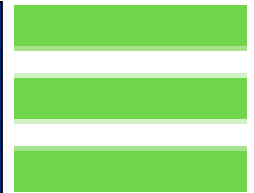
Provisioning tasks include initializing and modifying thresholds, setup and binding communications, and meter encryption on a device.

**TABLE 1: PROVISIONING**

Task	FlexWare	Device Manager
<b>Thresholds and Communication</b>		
<b>Provision a meter for binding</b>	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Binding Ping	Devices > Meters (select a device) > Actions > Provisioning > Binding
<b>Provision a meter for channel setup</b>	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Channel Setup Audit Ping	Devices > Meters (select a device) > Actions > Provisioning > Channel Setup
<b>Provision a meter for setup</b>	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Setup Ping	Devices > Meters (select a device) > Actions > Provisioning > Setup
<b>Provision a meter for meter info</b>	Unavailable	Devices > Meters (select a device) > Actions > Provisioning > Meter Information
<b>Provision a meter for time sync</b>	Unavailable	Devices > Meters (select a device) > Actions > Provisioning > Time Sync
<b>Encryption</b>		
<b>Disable Encryption on a device</b>	Search for a device > IMIP > Configuration > Security > Request Disable Encryption	Devices > Meters (select a device) > Actions > Encryption > Disable
<b>Enable Encryption on a device (Security)</b>	Search for a device > IMIP > Configuration > Security > Request Enable Encryption	Devices > Meters > Actions > Encryption > Enable
<b>Rotate (Encryption) Keys</b>	Tools > Select Endpoints > Rotate Keys	Devices > Meters > Actions > Encryption > Rotate Unique Key
<b>Suspend AES</b>	Tools > Select Endpoints > Suspend Encryption	Devices > Meters > 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
<b>Meter Configuration</b>		
<b>Update the latitude/longitude of a device</b>	Search for a device > IMIP > Configuration > GeoSpatial Coordinates	Search for a Device > Device Details > About this Device > Location > Edit Location
<b>Set the Endpoint (Meter) ID</b>	Search for a device > IMIP > Configuration > Set Endpoint Id	Search for a Device > Device Details > [Radio Configuration] Advanced > [General Setup] Set (2-way devices)
<b>Modify the frequency settings*</b>	Administration > (Meters) Reprogramming > Water	Search for a Device > Device Details > [Radio Configuration] Advanced > Transmit  *This should NEVER be made without approval by Sensus.
<b>Update a meter Id</b>	Administration > (Meters) Reprogramming > General Setup > Meter Id	Device Details > About this Device > [Radio Configuration] Advanced > General Setup
<b>Tower Management</b>		
<b>Edit Base Station Information</b>	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<sup>®</sup> 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
<b>Reads</b>		
<b>Interval reads for a device</b>	Search for a device > IMIP > Summary > Chart or Table	Search for a device > Device Details > Read Data > Table and/or Chart
<b>Register reads on a device</b>	Search for a device > IMIP > Summary > Latest Readings	Search for a device > Device Details > Read Data > Table and/or Chart
<b>Latest readings</b>	Search for a device > IMIP – UI automatically notifies when new readings are available	Search for a device > Device Details > Banner
<b>Demand Read</b>	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
<b>Communications</b>		
<b>Communication Statistics for a device</b>	Search for a device > IMIP > Status > Communications	Search for a device > Device Details > Communications
<b>Route Analyzer</b>		
<b>Access the Route Analyzer</b>	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: **Leak report** (High Flow, Low Flow and History options), **Troubled Meter**, **Lifecycle**, **Encryption**, and **Communication**. It is recommended to review these reports on a regular basis to investigate potential device issues. Water 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 Meters with potential leaks	Reports > Installed Meters Report > Filter by Alarms > Leak Detected	Reports > Leak Report [High Flow, Low Flow, History]
List of Installed Meters	Reports > Installed Meters Report	Devices > Meters > 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"><li>- Scheduled Events</li><li>- Event History</li></ul> <i>* or Recent Requests</i>
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"><li>- Scheduled Events</li><li>- Event History</li></ul>
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
<b>View Current Alerts on a device</b>	Search for a device > IMIP > Summary > Alarms	Devices > (select a device) Device Details > Alerts tab
<b>Get Current Alerts on a device</b>	Search for a device > IMIP > Summary > Alarms > Refresh from Database	Devices > Meters (select a device) > Actions > Manage Alerts > Get Current Alerts
<b>Clear Alerts on a device</b>	Search for a device > IMIP > Configuration > Clear Alarms	Devices > Meters (select a device) > Actions > Manage Alerts > Clear Alerts
<b>Clear Alerts on multiple devices</b>	Unavailable	Devices > Meters (select devices) > Actions > Manage Alerts > Clear Alerts
<b>Clear Quarantine Alerts on a device</b>	Reports > Quarantined Meters > Reset Quarantine	Devices > Meters (select a device) > Actions > Manage Alerts > Clear Quarantine Alerts
<b>Clear Quarantine Alerts on multiple devices</b>	Reports > Quarantined Meters > Reset Quarantine	Devices > Meters > Filter by Read Data Quarantine Alert > Select devices > Actions > Manage Alerts > Clear Quarantine Alerts
<b>Clear Metrology Alerts on a device</b>	Search for a device > IMIP > Configuration > Clear Alarms	Devices > Meters (select a device) > Actions > Manage Alerts > Clear Metrology Alerts
<b>Clear SmartPoint Alerts</b>	Search for a device > IMIP > Configuration > Clear Alarms	Devices > Meters (select a device) > Actions > Manage Alerts > Clear SmartPoint Alerts



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

## 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
<b>Groups</b>		
<b>Add a Device to a Group</b>	Administration > Meter Groups > Edit	Devices > Meters > (select a device) Actions > Group > Add Device
<b>Remove a Device from a Group</b>	Administration > Meter Groups > Edit	Devices > Meters > (select a device) Actions > Group > Remove Device
<b>Create a Meter group</b>	Administration > Meter Groups > Create Group	Groups > Meters > Create Meter Group
<b>Tags</b>		
<b>Add a tag to a device</b>	Unavailable	Devices > Meters (select a device) > Actions > Tag > Add device
<b>Remove a tag from a device</b>	Unavailable	Devices > Meters (select a device) > Actions > Tag > Remove Device
<b>Create a tag</b>	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 water devices.

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

**TABLE 8: MANAGE LIFECYCLE**

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

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## FIRMWARE DOWNLOAD (FWDL)

Over-the-air firmware download on one or multiple water 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: WATER FWDL TASKS**

Task	FlexWare	NA2W Firmware Download
<b>Perform a FWDL</b>	Tools > NA2W Firmware Download	Add New
<b>Monitor active jobs</b>	Tools > NA2W Firmware Download > Pending Sessions	Executing
<b>View job history</b>	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
<b>Configuration</b>		
<b>Modify Configuration Settings</b>	Administration > Customer/Network Configuration	Configuration > Configuration
<b>Modify Customer Name/Description</b>	Administration > Customer/Network Configuration > Customers	Configuration > Customers
<b>Modify Network Information</b>	Administration > Customer/Network Configuration > Networks	Configuration > Networks
<b>Modify Sub-Network Information</b>	Administration > Customer/Network Configuration > Sub-Networks	Configuration > Sub-Networks
<b>Software</b>		
<b>Modify Customer Information</b>	Administration > [Configuration] Settings	No longer needed
<b>Modify Server Information</b>	Administration > [Configuration] Settings	No longer needed
<b>View Server / Service Versions</b>	About FlexNet RNI	Software > Services
<b>Users</b>		
<b>Add/Modify Users</b>	Administration > [Configuration] User Roles > Users	Users
<b>Add/Modify Roles</b>	Administration > [Configuration] User Roles > Roles	Users > Roles
<b>Modify Password Settings</b>	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
<b>Verify scheduled engines are connected</b>	Tools > Scheduler > Scheduler Home	Scheduler Agents
<b>Verify scheduled jobs are running</b>	Tools > Scheduler > List Jobs	Manage Jobs
<b>Export/import jobs</b>	Tools > Scheduler > Export Jobs/Import Jobs	Manage Jobs > Export or Import
<b>View status history of jobs</b>	Tools > Scheduler > Search History	Job History
<b>Modify a Step Handler</b>	Tools > Scheduler > Manage Step Types	No longer needed