

Transitioning from FlexWare to Sensus Launch Pad

For Electric 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.

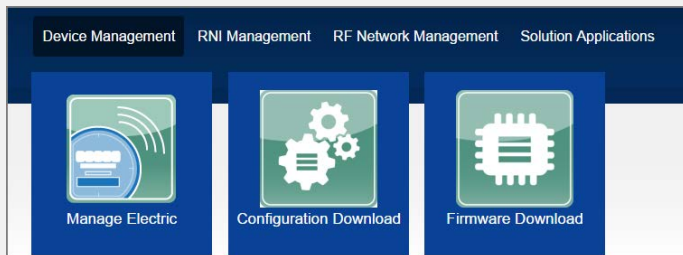


FIGURE 1: SENSUS LAUNCH PAD

TABLE OF CONTENTS

Overview	2
SECTION 1: Device Management.....	4
Administration	4
Provisioning.....	4
Configuring.....	5
Configuring Time of Use (TOU)	6
Managing Configuration.....	6
Operations.....	7
Monitor Read and Communication Data	7
View Reports	8
Manage Device Alerts.....	9
Actions	10
View Requests.....	11
Manage Groups and Tags	11
Inventory Management	12
Firmware Download (FWDL)	13
Managing Demand Response Devices	14
SECTION 2: RNI Management.....	15
System Administration.....	15
Manage Jobs.....	16

FOR MORE INFORMATION

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Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems

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:

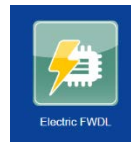
- **Device Management**

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.

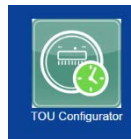


Firmware Download
Used to perform over-the-air firmware download on electric devices.

Configuration Download



Managed Configuration
Used to perform over-the-air configuration of Stratus and Device Type (DT) 83 meters.



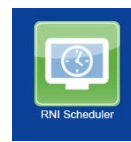
TOU Configurator
Used to configure time of use parameters on iConA meters.

- **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.

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



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

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



SECTION 1: DEVICE MANAGEMENT

ADMINISTRATION

Device management, from an administrative perspective includes tasks performed around [provisioning](#) an electric device, [configuring](#) parameters and thresholds on a meter, [configuring time of use](#) parameters on iConA meters, and performing over-the-air (OTA) [configuration download](#) of Stratus and Device Type (DT) 83 meters. 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 advanced voltage setup	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Advanced Voltage Quality Settings Ping	Devices > Meters (select a device) > Actions > Provisioning > Advanced Voltage Setup
Provision a meter for binding	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Binding Ping	Devices > Meters (select a device) > Actions > Provisioning > Binding
Provision a meter for extended setup	Administration > [Meters] Reprogramming > General Setup > Meter Id > Commands > Extended Setup Ping	Devices > Meters (select a device) > Actions > Provisioning > Extended Setup
Provision a meter for form and voltage setup	Administration > [Meters] Reprogramming > Electric	Devices > Meters (select a device) > Actions > Provisioning > Form and Voltage Setup
Provision a meter for setup	Administration > [Meters] Reprogramming > Meter Id > Commands > Setup Ping	Devices > Meters (select a device) > Actions > Provisioning > Setup
Provision a meter for time sync	Tools > MDMIF > TimeSync	Devices > Meters (select a device) > Actions > Provisioning > Time Sync
Provision a meter for firmware download	Unavailable	Devices > Meters (select a device) > Actions > Provisioning > Get Firmware Version

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



Task	FlexWare	Device Manager
Encryption		
Disable Encryption on a device	Search for a device > IMIP > Configuration > Security > Request Disable Encryption	Devices > Meters (select a device) > Actions > Encryption > Disable
Enable Encryption on a device (Security)	Search for a device > IMIP > Configuration > Security > Request Enable Encryption	Devices > Meters (select a device) > Actions > Encryption > Enable
Rotate (Encryption) Keys	Tools > Select Endpoints > Rotate Keys	Devices > Meters (select a device) > Actions > Encryption > Rotate Unique Key
Suspend AES	Tools > Select Endpoints > Suspend Encryption	Devices > Meters (select a device) > Actions > Encryption > Suspend AES

CONFIGURING

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

TABLE 2: CONFIGURATION

Task	FlexWare	Device Manager
Meter 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 (Meter) ID	Search for a device > IMIP > Configuration > Set Endpoint Id	Search for a Device > Device Details > About this Device > [Radio Configuration] Advanced > [General Setup] Set > Meter Id
Configure Radio General Setup	Administration > [Meters] Reprogramming > Electric > Power Quality	Search for a Device > Device Details > About this Device > [Radio Configuration] Advanced > [Power Quality] Set
Update a Meter ID	Administration > [Meters] Reprogramming > General Setup > Meter Id	Search for a Device > 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

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems

CONFIGURING TIME OF USE (TOU)

Configuration of the Time of Use parameters on iConA meters is performed using the **TOU Configurator** application and is accessed through the **Configuration Download** icon, and then by selecting **TOU Configurator**.

Supported Devices: iConA (DT23), iCon AS (DT50)

TABLE 3: TIME OF USE CONFIGURATION

Task	FlexWare	TOU Configurator
Manage Time of Use Programs	Tools > (iConA) Configure TOU	Manage TOU Programs
View Configuration Progress	Unavailable	View Configuration Process

MANAGING CONFIGURATION

Over-the-air configuration of Stratus electric meters and any Device Type (DT) 83 meters is performed using the **Managed Configuration** application and is accessed through the **Configuration Download** icon, and then by selecting **Managed Configuration**. This functionality was previously unavailable in FlexWare.

TABLE 4: MANAGED CONFIGURATION

Task	FlexWare	Managed Configuration
Upload a Configuration	Unavailable	Manage Configurations
Apply a Configuration to Endpoints	Unavailable	Configure Endpoints
Monitor a Configuration Download	Unavailable	Active Downloads
View a History of Configuration Downloads	Unavailable	History

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



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, enable/disable features, [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, peak demand, snapshot, and TOU, as well as communication data: RIS, buddy, and stale reads.

TABLE 5: 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 > Interval Reads > Table and/or Chart
Register reads on a device	Search for a device > IMIP > Summary > Latest Readings	Search for a device > Device Details > Interval Reads > Read Data
TOU Data for a device	Search for a device > IMIP > Summary > Latest Readings	Search for a device > Device Details > TOU
Power Quality for a device	Search for a device > IMIP > Summary > Power Quality or Voltage Chart	Search for a device > Device Details > Power Quality
Snapshot Data for a device	Search for a device > IMIP	Search for a device > Device Details > Snapshot Data
Peak Demand for a device	Search for a device > IMIP > Summary > Latest Readings or Demand Resets	Search for a device > Device Details > Demand Reset
Latest readings	Search for a device > IMIP –automatic	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 <ul style="list-style-type: none"> – Get On the Glass Read – Get Service Quality Read – Get Supervisory Read
Communications		
Communication Stats 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

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems

VIEW REPORTS

Key data for monitoring and maintaining device health is presented in five reports: **Troubled Meter** (Alert and Hardware), **Lifecycle**, **Encryption**, **Outage**, and **Communication**. It is recommended to review these reports on a regular basis to investigate potential device issues. Electric 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 6: REPORTS

Task	FlexWare	Device Manager
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 devices with power outage	Reports > Outage Report	Reports > Outage
List of requests sent to meters	Reports > Two Way Log	System Intelligence > Today <ul style="list-style-type: none"> - Scheduled Events - Event History <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"> - Scheduled Events - Event History
List of meters' connection status	Reports > Connection Status	Devices > Meters > Device List > Filter by Service Switch Connected
List of meters with operational exceptions	Unavailable	Reports > Troubled Meter <ul style="list-style-type: none"> - Alerts - Hardware
List of meters with lifecycle exceptions	Unavailable	Reports > Lifecycle

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems

MANAGE DEVICE ALERTS

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

TABLE 7: 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 > Meters (select a device) > Actions > Manage Alerts > Get Current Alerts
Clear Alerts on a device	Search for a device > IMIP > Configuration > Clear Alarms	Devices > Meters (select a device) > Actions > Manage Alerts > Clear Alerts
Clear Alerts on multiple devices	Unavailable	Devices > Meters (select devices) > Actions > Manage Alerts > Clear Alerts
Clear Quarantine Alerts on a device	Reports > Quarantined Meters > Reset Quarantine	Devices > Meters (select a device) > Actions > Manage Alerts > Clear Quarantine Alerts
Clear Quarantine Alerts on multiple devices	Reports > Quarantined Meters > Reset Quarantine	Devices > Meters > Filter by Read Data Quarantine Alert > Select devices > Actions > Manage Alerts > Clear Quarantine Alerts

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems

ACTIONS

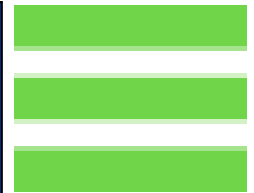
An action can be performed on one or multiple devices and includes operations such as performing a remote connect/disconnect.

TABLE 8: ACTIONS

Task	FlexWare	Device Manager
Remote Connect/Disconnect		
Arm a device	Search for a device > IMIP > Configuration > Connect > Connect/Arm/Disconnect	Devices > Meters (select a device) > Actions > Service Switch > Arm
Connect a device	Search for a device > IMIP > Configuration > Connect/Arm/Disconnect	Devices > Meters (select a device) > Actions > Service Switch > Connect
Disconnect a device	Search for a device > IMIP > Configuration > Connect/Arm/Disconnect	Devices > Meters (select a device) > Actions > Service Switch > Disconnect
Connection Status	Search for a device > IMIP > Commands > Retrieve Connection Status	Devices > Meters (select a device) > Actions > Service Switch > Get Switch Status
Opt-Out		
Get Operational Mode	Unavailable	Devices > Meters (select a device) > Actions > Operational Mode > Get Operational Mode
Set Operational Mode to Normal	Unavailable	Devices > Meters (select a device) > Actions > Operational Mode > Normal
Set Operational Mode to On Demand	Unavailable	Devices > Meters (select a device) > Actions > Operational Mode > On Demand
Set Operational Mode to Opt-out	Unavailable	Devices > Meters (select a device) > Actions > Operational Mode > Opt-out
Initiate a Demand Reset Event		
Demand Reset	Varies with Release version	Devices > Meters (select a device) > Actions > Demand Reset > Initiate Event

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



VIEW REQUESTS

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

TABLE 9: 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

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 10: GROUPS AND TAGS

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

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



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 electric devices.

TABLE 11: MANAGE LIFECYCLE

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

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



FIRMWARE DOWNLOAD (FWDL)

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

TABLE 12: ELECTRIC FWDL TASKS

Task	FlexWare	Electric Firmware Download
FWDL		
Import a firmware package	Tools > Electric Meter Firmware Download > Firmware Packages	Firmware Packages
Add a job	Tools > Electric Meter Firmware Download > Add Job	Add Job
Monitor active jobs	Tools > Electric Meter Firmware Download > Active Jobs	Active Jobs
Monitor pending jobs	Tools > Electric Meter Firmware Download > Pending Jobs	Pending Jobs
View job history	Tools > Electric Meter Firmware Download > Inactive Jobs	History

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems

MANAGING DEMAND RESPONSE DEVICES

Home Area Network (HAN) devices, In-Home Devices (IHDs), Load Control Modules (LCMs), and Programmable Communicating Thermostats (PCTs) are managed in **Device Manager**.

TABLE 13: DEMAND RESPONSE

Task	FlexWare	Device Manager
Get Connection Status of a HAN device	Unavailable	Devices > Meters (select a device) > Actions > HAN > Get Connection Status
Connect a HAN device	Unavailable	Devices > Meters (select a device) > Device Details > Actions > HAN > Connect device
Remove a device	Unavailable	Devices > Meters (select a device) > Device Details > Actions > HAN > Remove device
Configure a Relay	Unavailable	Devices > Meters (select a device) > Device Details > Actions > Configuration > Configure Relays
Get a Relay Configuration	Unavailable	Devices > Meters (select a device) > Device Details > Actions > Configuration > Get Relay Configuration
Event Status (Demand Response)	Unavailable	Devices > Meters (select a device) > Actions > Demand Response > Get Event Status
Initiate an Event	Unavailable	Devices > Meters (select a device) > Actions > Demand Response > Initiate Event

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



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 14: 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
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

Transitioning from FlexWare to Sensus Launch Pad

For Electric Utilities with RNI 4.1.x systems



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 15: SCHEDULER

Task	FlexWare	Scheduler
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