

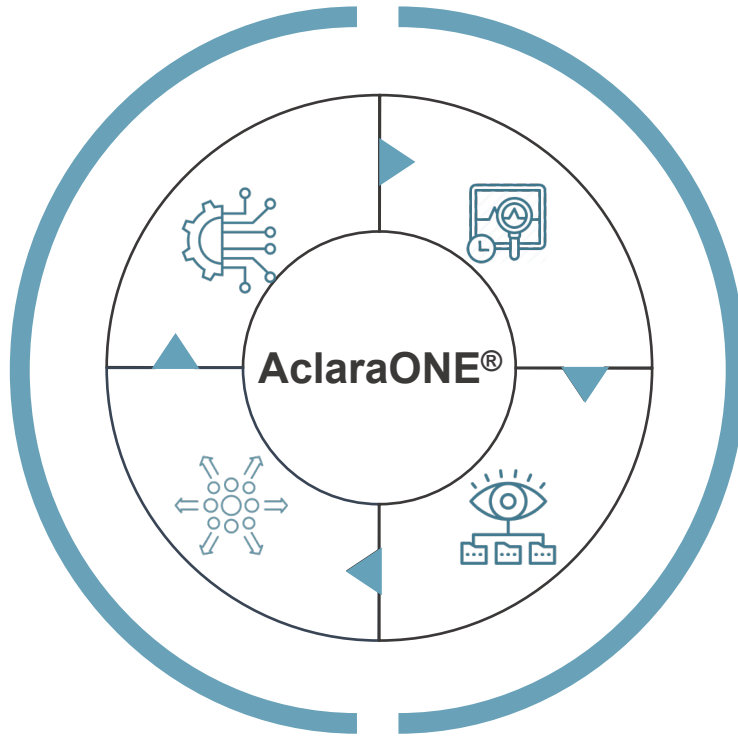


ACLARAONE SOFTWARE

- Advanced Metering Infrastructure
- Distribution Automation
- Direct Controls
- Sensors



Aclara Gateway



Integration Hub



PRODUCT DIRECTION



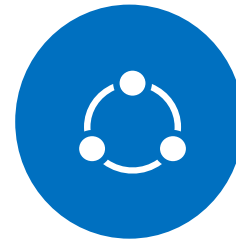
**ALIGNMENT WITH
AMI
HARDWARE/SENSORS**



**MAPPING AND
VISUALIZATION**



USABILITY



**STANDARDS
EVOLUTION**



**ADVANCED
ANALYTICS**



CLOUD

SOFTWARE AS A SERVICE - ADVANTAGES

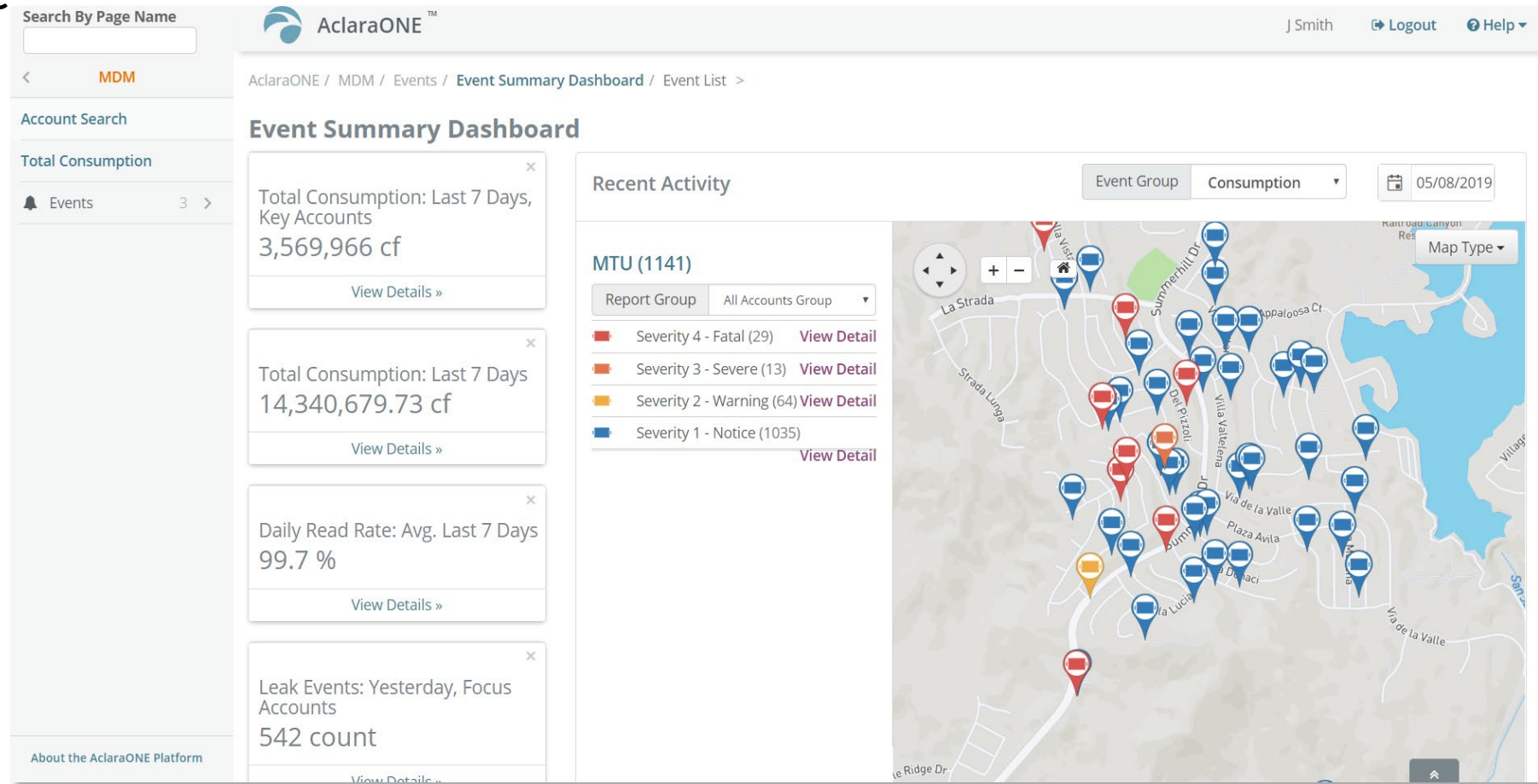
1. Faster time to benefit
2. Lower costs
3. Scalability & integration
4. New releases / upgrades
5. Easy to use



ACLARAONE VS NCC

ACLARAONE	NCC
Fully hosted (no on-site server maintenance and upkeep)	On-premise (on-site server maintenance and upkeep)
Easier navigation	Older platform, not UX designed
Access catered to utility roles with various authorization privileges	Does not exist in Star/NCC
Faster generation / manipulation of online reports	Downloaded reports
Searchable reports	Lots of data, not easily sortable / searchable
Flexible reports	Static reports
New analytics released quarterly	Very limited analytics
Event visualization / Mapping	Does not exist in Star/NCC
Polygon lasso tool	Does not exist in Star/NCC
Configurable dashboards and callout cards	Does not exist in Star/NCC
Smart Infrastructure Solutions (SIS) integrations	Limited
3 rd Party AMI data ingestion into the MDM	Does not exist in Star/NCC
API-based interfaces	Custom interfaces
Data security with MS Azure	Utility based security
Proactive Notifications	Does not exist in Star/NCC

- Enhanced User-experience
- Centralized event-based analytics
- 2-way communication
- Proactive notifications
- Enhanced encryption & security
- Data storage in the cloud
- Standard services, interoperability
- Fully supported, unified platform
- Continuous MDM improvements



The screenshot displays the AclaraONE Event Summary Dashboard for MDM. The interface includes a search bar, account search, and consumption metrics. The main dashboard area shows four key metrics:

- Total Consumption: Last 7 Days, Key Accounts: 3,569,966 cf
- Total Consumption: Last 7 Days: 14,340,679.73 cf
- Daily Read Rate: Avg. Last 7 Days: 99.7 %
- Leak Events: Yesterday, Focus Accounts: 542 count

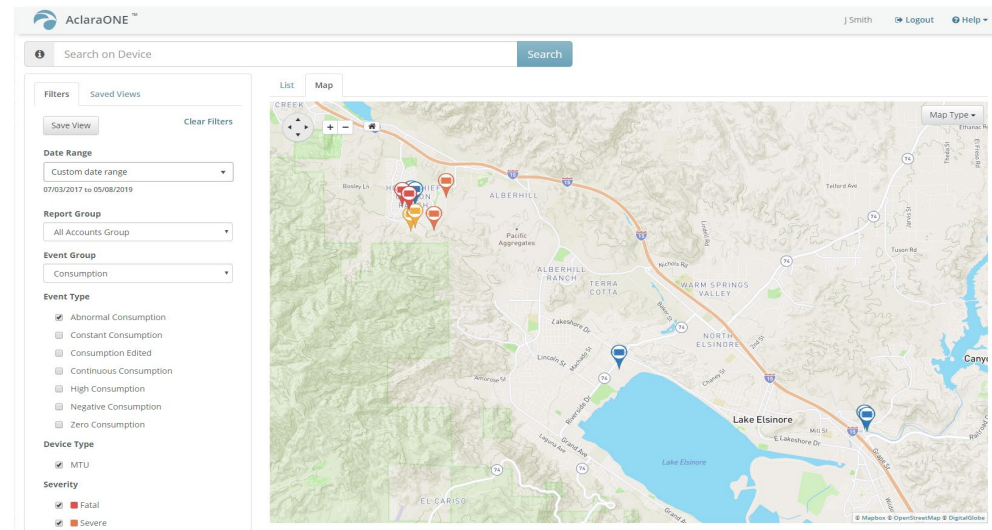
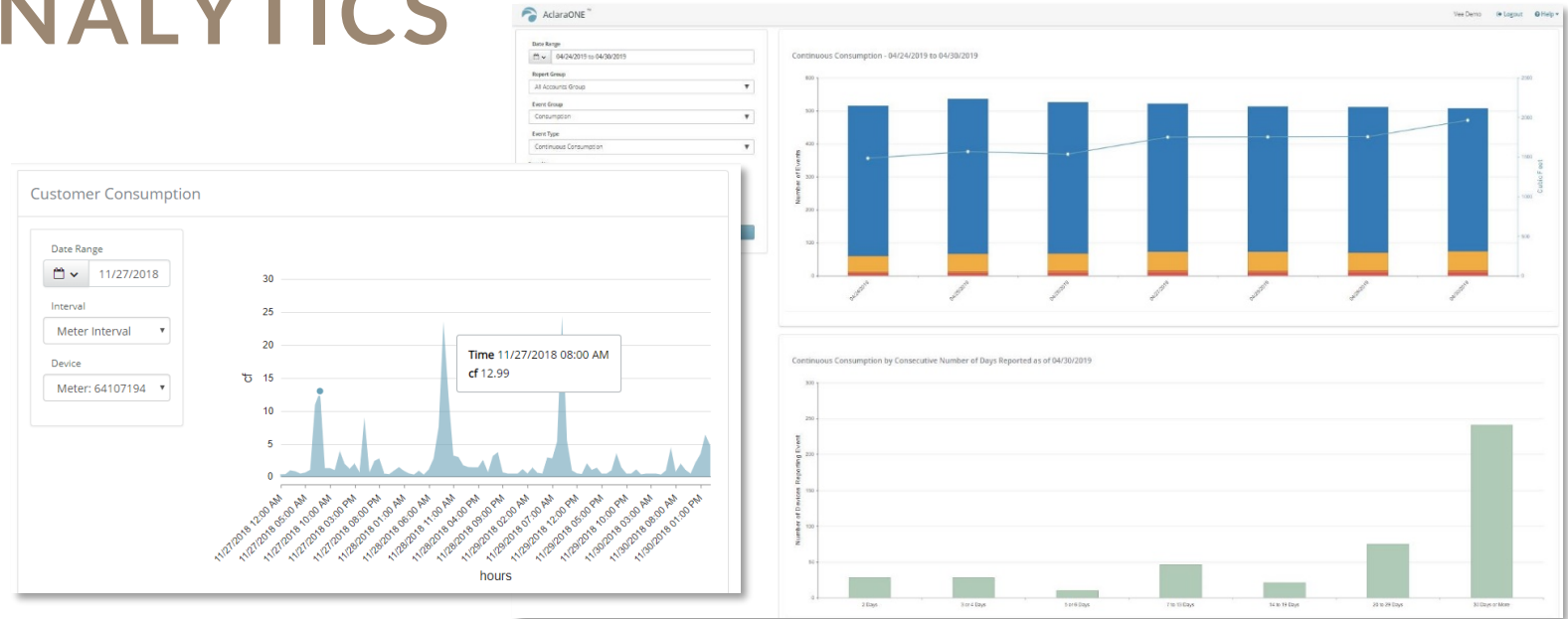
On the right, the 'Recent Activity' section for MTU (1141) shows a list of events categorized by severity:

- Severity 4 - Fatal (29)
- Severity 3 - Severe (13)
- Severity 2 - Warning (64)
- Severity 1 - Notice (1035)

A map on the right side of the dashboard displays the geographic distribution of these events, with pins color-coded by severity level. The map includes street names like La Strada, Strada Luga, and Via de la Valle.

CONSUMPTION ANALYTICS

- **Continuous Consumption**
 - Leaks after the meter
 - Pipe-bursts
- **Zero Consumption**
 - Blocked meters
 - Aged meters
 - Unauthorized consumption / theft
- **Negative Consumption**
 - Problems with installation
 - Backwards-installed meter
 - Unauthorized consumption / theft
- **Abnormal Consumption (Low/High)**
 - Meter performance issues
 - Over-registering meters
 - Pipe-bursts
 - Unauthorized consumption / theft



EVENT LIST & TREND ANALYTICS

Event List

Gas - Continuous Consumption

Search on Device Search

Filters Saved Views

Gas - Continuous Consumption Remove

Save View Clear Filters

Date Range

Yesterday

04/27/2021 to 04/27/2021

List Map

Date/Time	Event	Value	Unit Of Measure	Type	Device	Severity	Account Number
04/27/2021	Continuous Consumption (G)	18	Cubic Feet	Meter	54037656	Warning	2222004642
04/27/2021	Continuous Consumption (G)	0.3	Cubic Feet	Meter	54089572	Notice	2222010219
04/27/2021	Continuous Consumption (G)	0.12	Cubic Feet	Meter	5400082	Notice	2222011264
04/27/2021	Continuous Consumption (G)	0.1	Cubic Feet	Meter	5400082	Notice	2222011264
04/27/2021	Continuous Consumption (G)	0.1	Cubic Feet	Meter	5400082	Notice	2222011264
04/27/2021	Continuous Consumption (G)	0.1	Cubic Feet	Meter	5400082	Notice	2222011264
04/27/2021	Continuous Consumption (G)	4.7	Cubic Feet	Meter	5400082	Notice	2222011264
04/27/2021	Continuous Consumption (G)	0.2	Cubic Feet	Meter	5400082	Notice	2222011264

Event Trends

Date Range 04/21/2021 to 04/27/2021

Report Group All Accounts Group

Event Group Consumption

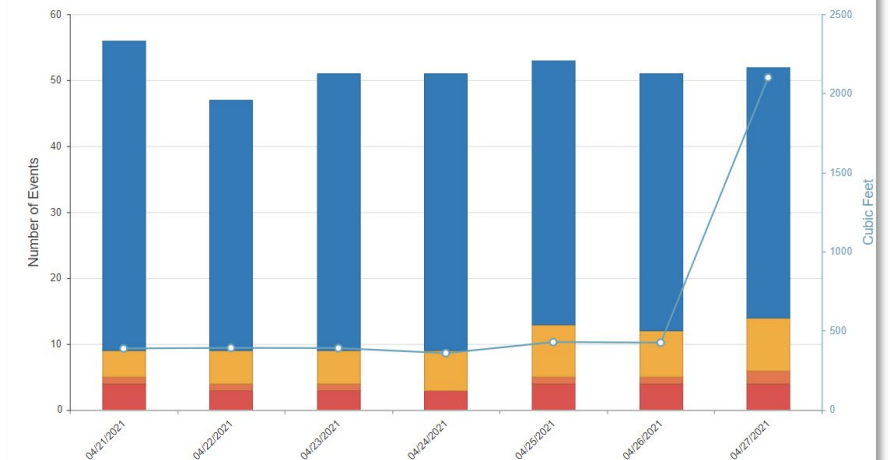
Event Type Continuous Consumption

Severity

- Critical
- Severe
- Warning
- Notice

Search

Continuous Consumption - 04/21/2021 to 04/27/2021



TOTAL CONSUMPTION

Total Consumption

Report Groups All Accounts Group

All Accounts Group - Daily

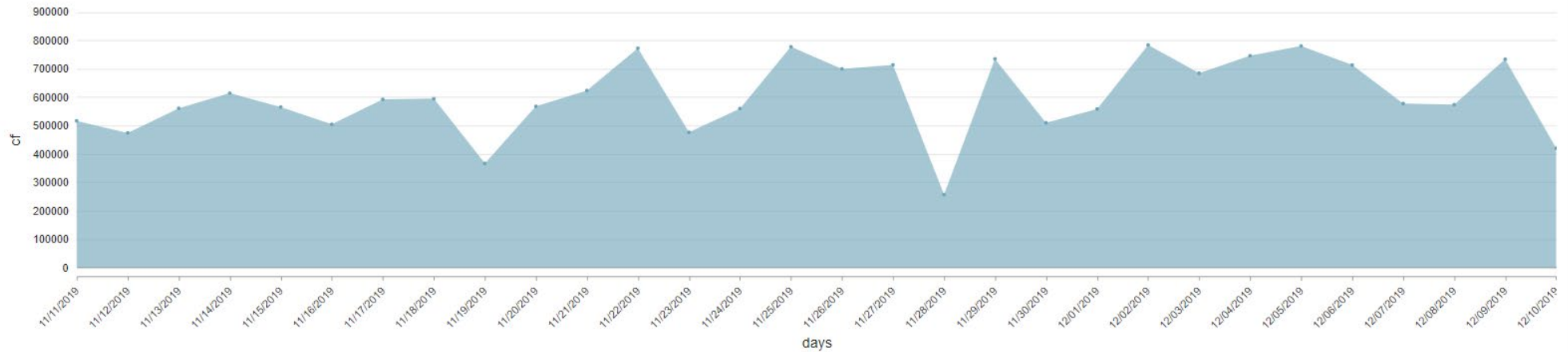
11/11/2019 to 12/10/2019

Total Consumption
18,047,841 cf

Average Consumption
601,595 cf

Minimum Consumption
256,958 cf

Maximum Consumption
783,430 cf



CSV Export

All Accounts Group Top 1,000 Meters in Past 30 days

Past 30 days

Meter Serial Number	Account Number	Total Consumption (cf)	Average Consumption (cf)	Minimum Consumption (cf)	Maximum Consumption (cf)
75059167	042685	1121529	37384	0	79987
78060109	036840	475226	15840	1551	43106
83085630	002052	377083	12569	822	24953
66860912	069480	329685	10989	0	28462

PROACTIVE NOTIFICATIONS

AclaraONE™ J Smith Logout Help

AclaraONE / Administration / Notification Settings >

Notification Settings

Manage Contact Info Create New Notification

Notification Name	Report Group	Event Type	Severity	Frequency	Email	Edit
Commercial Meters			g,Severe,Critical	Immediate	Enabled	
Constant Consumption - Test - Critical				Immediate	Disabled	
End Point Alarm			g,Severe	Immediate	Disabled	
High Consumption			g,Severe,Critical	Immediate	Disabled	
Leak Detection			g,Severe,Critical	Immediate	Disabled	
Manual Consumption Edits			g,Severe,Critical	Immediate	Enabled	
Negative Consumption			g,Severe,Critical	Immediate	Enabled	
Test			g,Severe,Critical	Immediate	Disabled	

AclaraONE™

AclaraONE / Administration / Notification Settings / Edit Notification >

Edit Notification - Negative Consumption

Notification Name: Negative Consumption

Report Group: All Accounts Group (Optional)

Event Group: Consumption

Event Type: Negative Consumption

Duration (days): 1 or more

Severity: Critical Severe Warning Notice

Frequency: Immediate

Email: On Off

Update Notification Cancel

AclaraONE™

AclaraONE / Administration / Notification Settings / Contact Info >

Notification Contact Info

All fields are required

Email:

Update Profile Cancel

VALIDATION, ESTIMATION, AND EDITING (VEE)

- Validation, Estimation & Editing (VEE) is done to resolve missing data, spikes, abnormal usage, stuck registers, etc. It is an automated process that runs daily on the previous day's readings driven by configurable VEE profiles.
- Our approach to ensure the accuracy of your interval data is done through 3 choices:
 - *Leave it alone.*
 - *Fill in with estimates automatically.*
 - *Or manually fill in the data.*
- There are 2 ways to estimate:
 - *linear interpolation, which is just normal averaging*
 - *Rolling average*
 - *Or none*
- It determines whether it is linear or time period by setting rules. For example, if there is 1 gap = use linear, if more = use rolling average.
- There are rules that can be setup if you want data to be automatically estimated or not. If not, you can edit invalid meters manually.
- You can set up groups as well. For example, exclude the C&I accounts.

VALIDATION, ESTIMATION, AND EDITING (VEE)

Validate, Estimate, and Edit Reads

1 - Invalid (Missing)

Search on Device

Search

Filters Saved Views

1 - Invalid (Missing) Remove

Save View Clear Filters

Date Range

Last 7 days

02/09/2021 to 02/15/2021

Report Group

All Accounts Group

VEE Event Type

- Approval Needed
- Approval Needed - Cleared
- Billing Read Export
- Edited Value
- Error - Estimation
- Error - Validation

Date/Time	VEE Event	Consumption	Unit of Measure	Device	Severity	Account Number	Edit
02/15/2021 11:00:00 PM	Invalid - Missing	-		64107133	Warning	770218	
02/15/2021 11:00:00 PM	Invalid - Missing	-		56990344	Warning	789381	
02/15/2021 11:00:00 PM	Invalid - Missing	-		75783278	Warning	768166	
02/15/2021 11:00:00 PM	Invalid - Missing	-		64237713	Warning	762254	
02/15/2021 11:00:00 PM	Invalid - Missing	-		73236504	Warning	262776	
02/15/2021 11:00:00 PM	Invalid - Missing	-		77205860	Warning	806351	
02/15/2021 10:00:00 PM	Invalid - Missing	-		64107133	Warning	770218	
02/15/2021 10:00:00 PM	Invalid - Missing	-		56990344	Warning	789381	
02/15/2021 10:00:00 PM	Invalid - Missing	-		75783278	Warning	768166	
02/15/2021 10:00:00 PM	Invalid - Missing	-		64107133	Warning	770218	
02/15/2021 10:00:00 PM	Invalid - Missing	-		56990344	Warning	789381	
02/15/2021 10:00:00 PM	Invalid - Missing	-		75783278	Warning	768166	

Menu AclaraONE®

J Smith Logout Help

Event Trends

Date Range

02/08/2021 to 02/14/2021

Report Group

All Accounts Group

Event Group

Vee Group

Event Type

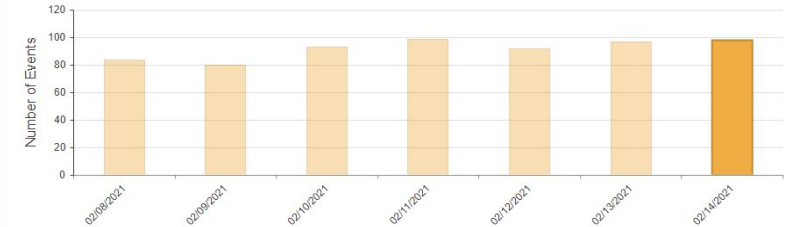
Invalid - Missing

Severity

- Critical
- Severe
- Warning
- Notice

Search

Invalid - Missing - 02/08/2021 to 02/14/2021



List Map

Date/Time	Event	Value	Unit Of Measure	Type	Device	Severity	Account Number
02/14/2021 11:00:00 PM	Invalid - Missing	-		Meter	64107133	Warning	770218
02/14/2021 11:00:00 PM	Invalid - Missing	-		Meter	75783278	Warning	768166
02/14/2021 11:00:00 PM	Invalid - Missing	-		Meter	64237713	Warning	762254
-	-	-	-	Meter	74779925	Warning	761938
-	-	-	-	Meter	73236504	Warning	262776
-	-	-	-	Meter	77205860	Warning	806351

Manual Edit Device Data

Account ID: 770218

Device ID: 64107133

Date/Time: 02/15/2021 10:00:00 PM

Original Value: --

Edited Value:

Original Register Read: --

Edited Register Read:

Cancel Edit Values

VEE Manual Editing

Device: 64107133

Start Date: 2/13/2021

End Date: 2/15/2021

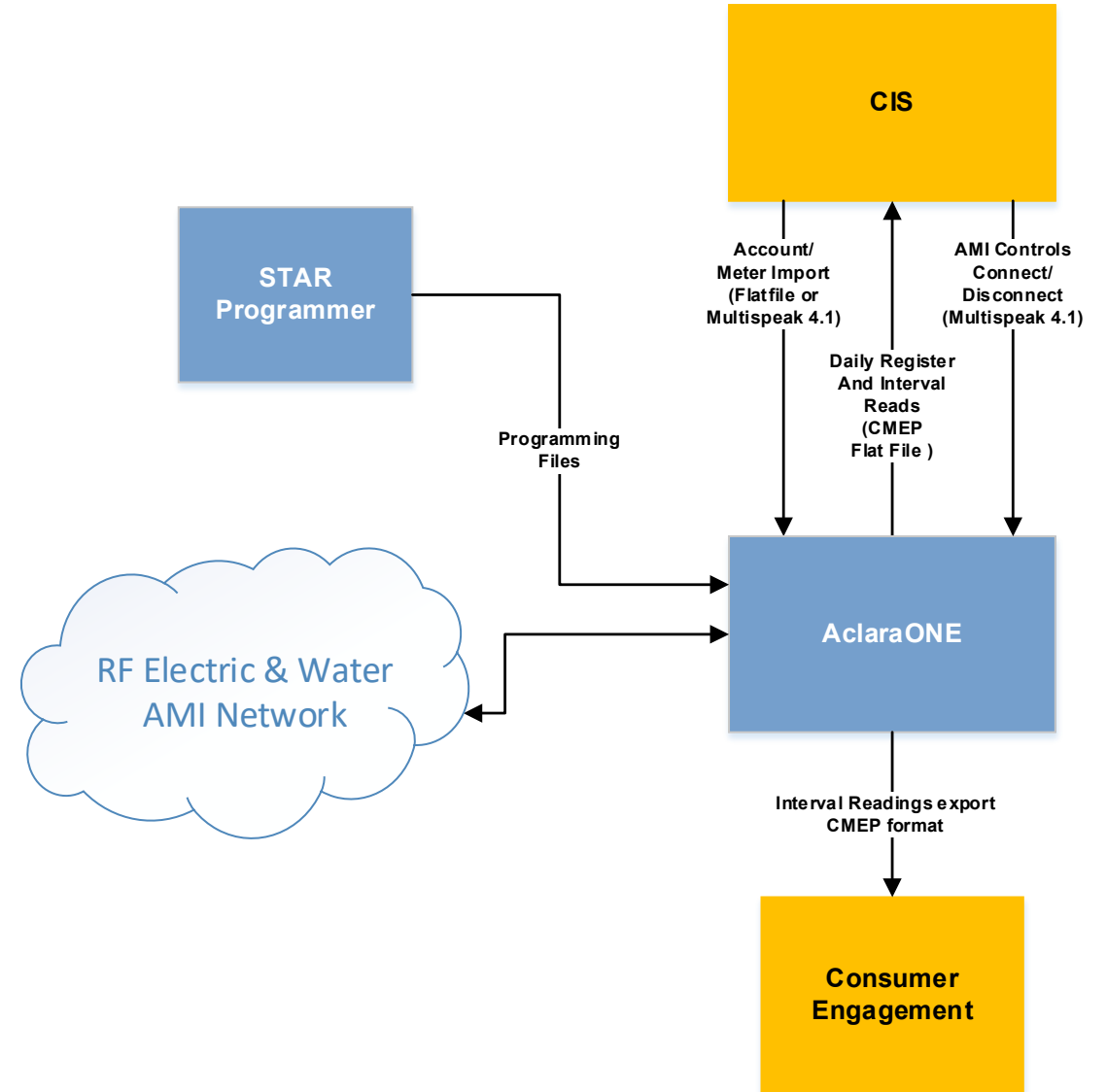
Status: Approved Not Approved

Search

Date/Time	Approved Value	Status	Edit
02/15/2021 11:00:00 PM	No	Not Approved	
02/15/2021 10:00:00 PM	No	Not Approved	
02/15/2021 09:00:00 PM	No	Not Approved	
02/15/2021 08:00:00 PM	No	Not Approved	
02/15/2021 07:00:00 PM	No	Not Approved	
02/15/2021 06:00:00 PM	No	Not Approved	
02/15/2021 05:00:00 PM	No	Not Approved	
02/15/2021 04:00:00 PM	No	Not Approved	
02/15/2021 03:00:00 PM	No	Not Approved	
02/15/2021 02:00:00 PM	No	Not Approved	

ACLARAONE INTEGRATION

- Standards Based
 - CMEP
 - MultiSpeak
- Web Services
- Flat File Exchange



Aclara



「thank you.」