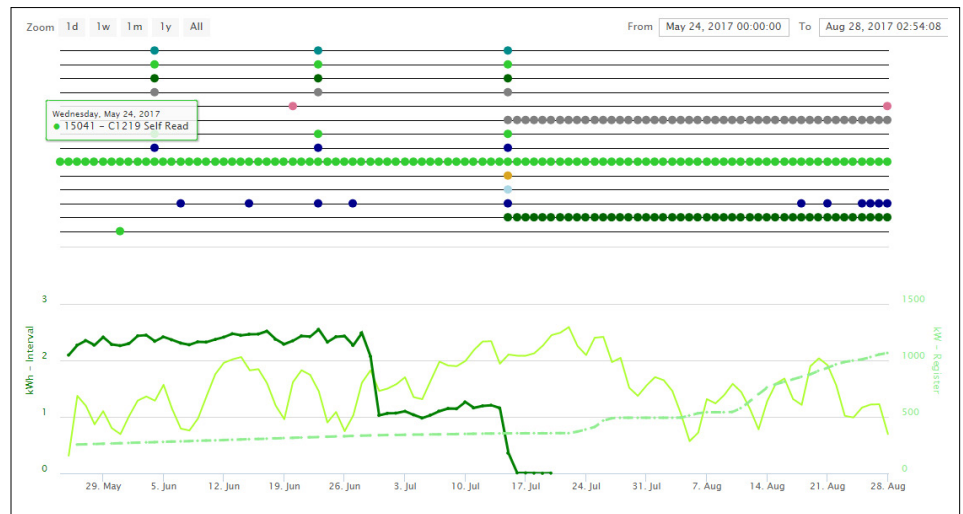




AMI Operations

Operations Optimizer

In order to support utility business processes that are now dependent on timely meter data, your AMI system must achieve and maintain high data collection success rates. Maintaining such rates across millions of endpoints deployed in a dynamic and harsh field environment poses new and difficult challenges to your AMI operations teams. With AMI deployments, often times it's the one percent of exceptions that can take most of your team's effort to manage and fix. AMI Operations helps replace the excess of spreadsheets, customized tools and ad-hoc reporting with a purpose-built application to facilitate solving those problems.



Interval data viewer showing meter interval, register and event data all on the same timeline.

| VIEWS | | ACTIONS | | | | | FILTER | | | | | QUERY | | | | | | | | | | |
|--------------------------|------------|-------------|----------|----|------------|-------------|-------------|------|---------------|------------|-----------|----------|------------|---------------|-------------|-------------|--------------|----------------------|------------|----------|--------|-----|
| Service Point | Meter | DeviceAlt | Model | ST | SetDate | AdminStatus | OpStatus | DyOp | 1stAMIMtrSIDt | 1stAMIData | FlapperSc | UnRchCnt | ActToUrCnt | LastUnreachDt | DysNoDelInt | DysNoDelReg | LastDelIntDt | LastDelRegTime | LastDelReg | MtrAtAdd | NrElec | NrI |
| <input type="checkbox"/> | 1453000050 | AREW186781 | 11537442 | W | 12/20/2017 | Active | Active | 1458 | 12/20/2017 | | 7 | 8 | 7 | 5/23/2018 | 17 | 17 | 5/9/2018 | 5/9/2018 1:00:00 PM | 4114.71 | 2 | | |
| <input type="checkbox"/> | 4487400020 | AREW174553 | 11507158 | W | 1/30/2018 | Active | Active | 1459 | 1/30/2018 | | 7 | 7 | 7 | 5/14/2018 | 1 | 1 | 5/25/2018 | 5/25/2018 7:00:00 AM | 2667.37 | 3 | | |
| <input type="checkbox"/> | 4695100070 | ACOW165901 | 11524803 | W | 11/2/2017 | Active | Active | 1469 | 11/2/2017 | | 6 | 6 | 6 | 5/9/2018 | 0 | 1 | 5/28/2018 | 5/25/2018 7:00:00 PM | 2457.36 | 2 | | |
| <input type="checkbox"/> | 5413211545 | AREW164416 | 11515401 | W | 11/16/2017 | Active | Active | 1461 | 11/16/2017 | | 6 | 7 | 6 | 5/15/2018 | 4 | 4 | 5/22/2018 | 5/22/2018 1:00:00 PM | 6054.34 | 3 | | |
| <input type="checkbox"/> | 152100001 | ACOW500393 | 11462495 | W | 11/29/2017 | Active | Unreachable | 1461 | 11/29/2017 | | 5 | 6 | 5 | 5/23/2018 | 20 | 20 | 5/6/2018 | 5/6/2018 1:00:00 PM | 32652.15 | 3 | | |
| <input type="checkbox"/> | 1785592232 | ACOW145917 | 11537381 | W | 12/18/2017 | Active | Active | 1458 | 12/18/2017 | | 5 | 6 | 5 | 5/12/2018 | 19 | 19 | 5/7/2018 | 5/7/2018 7:00:00 AM | 5795.75 | 3 | | |
| <input type="checkbox"/> | 2009200030 | ACOW601315 | 11462456 | W | 4/4/2018 | Active | Unreachable | 1471 | 4/4/2018 | | 5 | 5 | 5 | 5/13/2018 | 19 | 19 | 5/7/2018 | 5/7/2018 7:00:00 PM | 0.03 | 1 | | |
| <input type="checkbox"/> | 2827300001 | AREW163680 | 11522856 | W | 12/2/2017 | Active | Unreachable | 1461 | 12/2/2017 | | 5 | 6 | 5 | 5/23/2018 | 12 | 12 | 5/14/2018 | 5/14/2018 1:00:00 PM | 1913.64 | 3 | | |
| <input type="checkbox"/> | 2980581506 | ACOW800654 | 11462764 | W | 11/29/2017 | Active | Unreachable | 1460 | 11/29/2017 | | 5 | 5 | 5 | 5/24/2018 | 11 | 12 | 5/15/2018 | 5/14/2018 7:00:00 AM | 5834.89 | 3 | | |
| <input type="checkbox"/> | 3120768990 | ACOW145603 | 11464320 | W | 3/15/2018 | Active | Active | 1458 | 3/15/2018 | | 5 | 6 | 5 | 5/24/2018 | 1 | 1 | 5/25/2018 | 5/25/2018 7:01:00 PM | 15486.44 | 1 | | |
| <input type="checkbox"/> | 3195100040 | AREW165539 | 11527049 | W | 2/15/2018 | Active | Unreachable | 1461 | 2/15/2018 | | 5 | 6 | 5 | 5/23/2018 | 17 | 17 | 5/9/2018 | 5/9/2018 1:00:00 PM | 759.4 | 2 | | |
| <input type="checkbox"/> | 3247595728 | AREW172553 | 11524300 | W | 12/21/2017 | Active | Unreachable | 1458 | 12/21/2017 | | 5 | 6 | 5 | 5/26/2018 | 4 | 4 | 5/22/2018 | 5/22/2018 7:00:00 AM | 0 | 1 | | |
| <input type="checkbox"/> | 3510000040 | AREW168931 | 11522155 | W | 9/15/2017 | Active | Unreachable | 1461 | 9/15/2017 | | 5 | 6 | 5 | 5/23/2018 | 11 | 11 | 5/15/2018 | 5/15/2018 1:00:00 PM | 5954.92 | 3 | | |
| <input type="checkbox"/> | 4009200030 | ACOW165825 | 11551200 | W | 3/20/2018 | Active | Unreachable | 1474 | 3/20/2018 | | 5 | 5 | 5 | 5/10/2018 | 31 | 31 | 4/25/2018 | 4/25/2018 7:00:00 AM | 11002.39 | 1 | | |
| <input type="checkbox"/> | 4212000020 | AREW183776 | 11513257 | W | 11/4/2017 | Active | Active | 1460 | 11/4/2017 | | 5 | 5 | 5 | 5/23/2018 | 1 | 1 | 5/25/2018 | 5/25/2018 1:00:00 AM | 5860.9 | 3 | | |
| <input type="checkbox"/> | 4296256748 | ACOW400545 | 11463579 | W | 4/4/2018 | Active | Unreachable | 1461 | 4/4/2018 | | 5 | 5 | 5 | 5/23/2018 | 11 | 11 | 5/15/2018 | 5/15/2018 7:00:00 PM | 1184.33 | 2 | | |
| <input type="checkbox"/> | 4592300070 | ACOW165997 | 11538359 | W | 3/17/2018 | Active | Unreachable | 1459 | 3/17/2018 | | 5 | 6 | 5 | 5/25/2018 | 11 | 12 | 5/15/2018 | 5/14/2018 7:00:00 AM | 6306.04 | 1 | | |
| <input type="checkbox"/> | 5007100020 | AREW2142452 | 11506851 | W | 6/19/2017 | Active | Active | 1474 | 6/19/2017 | | 5 | 5 | 5 | 5/4/2018 | 3 | 3 | 5/23/2018 | 5/23/2018 7:00:00 AM | 4633.06 | 3 | | |

A list view showing actionable analytic results that have been prioritized to assist with operational efficiency.

With Itron AMI Operations, you get a proven, industry-leading solution:

- » Built upon the Itron Operations Optimizer platform
- » Monitoring more than 33 million endpoints
- » Containing more than 35 analytics that can be tuned and customized
- » Providing a complete issue-tracking system that supports best-in class investigation processes
- » Able to tune analytics based on field results, ensuring the system is ever-evolving to meet your needs

BENEFITS

Itron's AMI Operations benefits you by helping manage meter exceptions in a structured and intelligent manner.

- » Realize operations savings with effective tools that minimize required back-office efforts
- » Quickly identify AMI meter faults
- » Reduce unnecessary truck rolls
- » Prioritize issues intelligently
- » Understand the state of your system

FEATURES

Itron AMI Operations offers analytics, tools and workflow support to facilitate detecting and resolving meter issues.

Analytics

AMI Operations uses highly accurate, high-granularity data with field-tested detection algorithms.

- » Library of analytics developed by data scientists and proven by utilities
- » Ability to customize and tune existing analytics to meet your needs
- » Itron data scientist dedicated to extending or creating new analytics

Investigation Tools

AMI Operations offers a plethora of tools to efficiently and effectively manage the revenue assurance process.

- » Simple and complex filters and queries
- » Spatial views of suspects
- » Graphical timeline views showing meter consumption history and meter event history

Process Support

AMI Operations offers service order prioritization based on several factors such as time that an issue has existed and service type.

- » Issue management including workflow and work order integration
- » Ability to track issue verification by field crews (hit rate)

CONCLUSION

Itron AMI Operations is a proven solution that will help you maintain high-collection success rates that are needed to support many utility business processes that depend on this data. Supported by a deployment methodology that requires minimal utility IT resources and delivers industry-leading analytic methods and easy to-use tools for analysis and investigation, Itron AMI Operations delivers efficiency and value to your operations.

OPERATIONS OPTIMIZER PLATFORM

The Operations Optimizer platform is used to integrate data from multiple sources and leverage big data technologies to maximize analytic performance and support various outcomes. Leading utilities count on data-driven insights from Operations Optimizer in their daily operations. Operations Optimizer is used by utilities around the globe and analyzes data from over 40 million water, gas and electricity meters, in both AMI and legacy environments, at more than 30 utilities. The Operations Optimizer platform supports many outcomes such as AMI operations, revenue assurance, EV and solar detection, meter-to-transformer connectivity and transformer load monitoring. Operations Optimizer is available as a hosted solution and is integrated with Microsoft Azure.



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