

# Niagara Analytics Framework

Shrink big data and grow performance for your customers with the only analytics framework native to Niagara

The Niagara platform is the industry's first truly open framework, harnessing the power of the Internet of Things. Now, with the Niagara Analytics Framework, we're giving you the power to bring your customers the one thing they need most to optimize their operations—real-time intelligence that gives them actionable insights into their enterprise.

The Niagara Analytics Framework takes the big data generated by Niagara and shrinks it through a variety of analytic applications—from building automation to manufacturing to transportation and beyond. But unlike the vast majority of analytics tools, which provide business intelligence through historical data, the Niagara Analytics Framework captures historical patterns as well as real-time data on events as they unfold. No longer do your customers have to rely solely on data from last cycle to plan for the upcoming cycle—with our analytics platform they can respond proactively and make smarter, swifter decisions that drive their business forward.

BECAUSE THE NIAGARA ANALYTICS FRAMEWORK IS POWERED BY NIAGARA, YOU GET THE ADDED BENEFIT OF:

- The Niagara community to help expand your product
- Our global, end-user footprint to upsell a high-demand solution
- An open platform for support of multiple analytics applications
- Built-in analytics to enhance your enterprise solutions

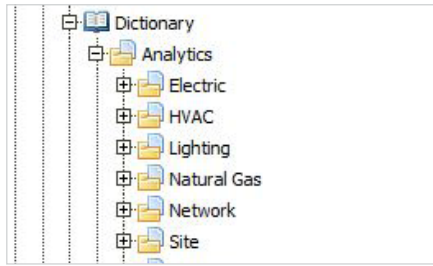
AND YOUR CUSTOMERS BENEFIT FROM AN ENTERPRISE SOLUTION THAT INCLUDES:

- Operational intelligence—real-time visibility for immediate remediation
- Single software certification for a complete solution



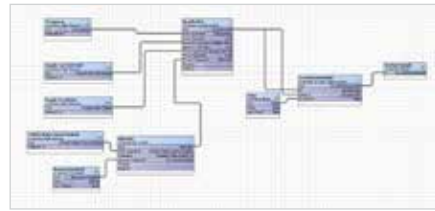
# Niagara Analytics Framework

Niagara Analytics Framework will run in Niagara<sup>AX</sup> Supervisor and is compatible with Niagara<sup>AX</sup> 3.7.106 or later.



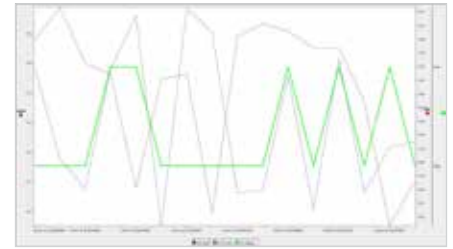
## DATA DEFINITIONS VIEW

Data definitions let the user define data and formulas in a specific way to make results clearer and more consistent when running analytics.



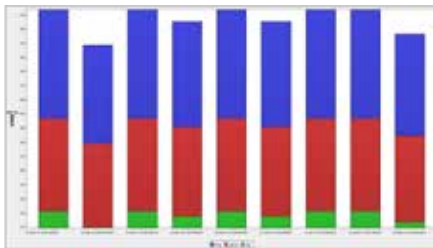
## FORMULA & RULE CREATIONS VIEW

Formulas and rules can be created on the Niagara Wiresheet without code, so no new programming or logic language needs to be learned.



## LINE CHART VIEW

Issues can be identified on a line chart—for example, when the belt drive speed increases while the belt tension decreases, resulting in belt slippage.



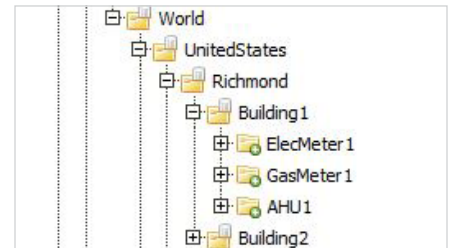
## BAR CHART VIEW

Data can be viewed in aggregate—for example, this bar chart shows the electrical load of the HVAC, lighting and plug circuits.



## INDIVIDUAL RESULTS VIEW

Individual results—such as this alarm record of a faulty water valve on an air handler—can be reviewed with hourly and total cost implications.



## DATA MODELING VIEW

Data is taken out of the “driver-based” modeling format in Niagara<sup>AX</sup> and set up in a geographically or system-typed model based on project requirements.

Integrate the Niagara Analytics Framework with your next application and give your customers the real-time intelligence they need to increase production, reduce costs and improve quality.

Contact your Niagara OEM to get started.

**TRIDIUM**

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