

**dataPARC**

# INTUITIVE. POWERFUL. CONNECTED.

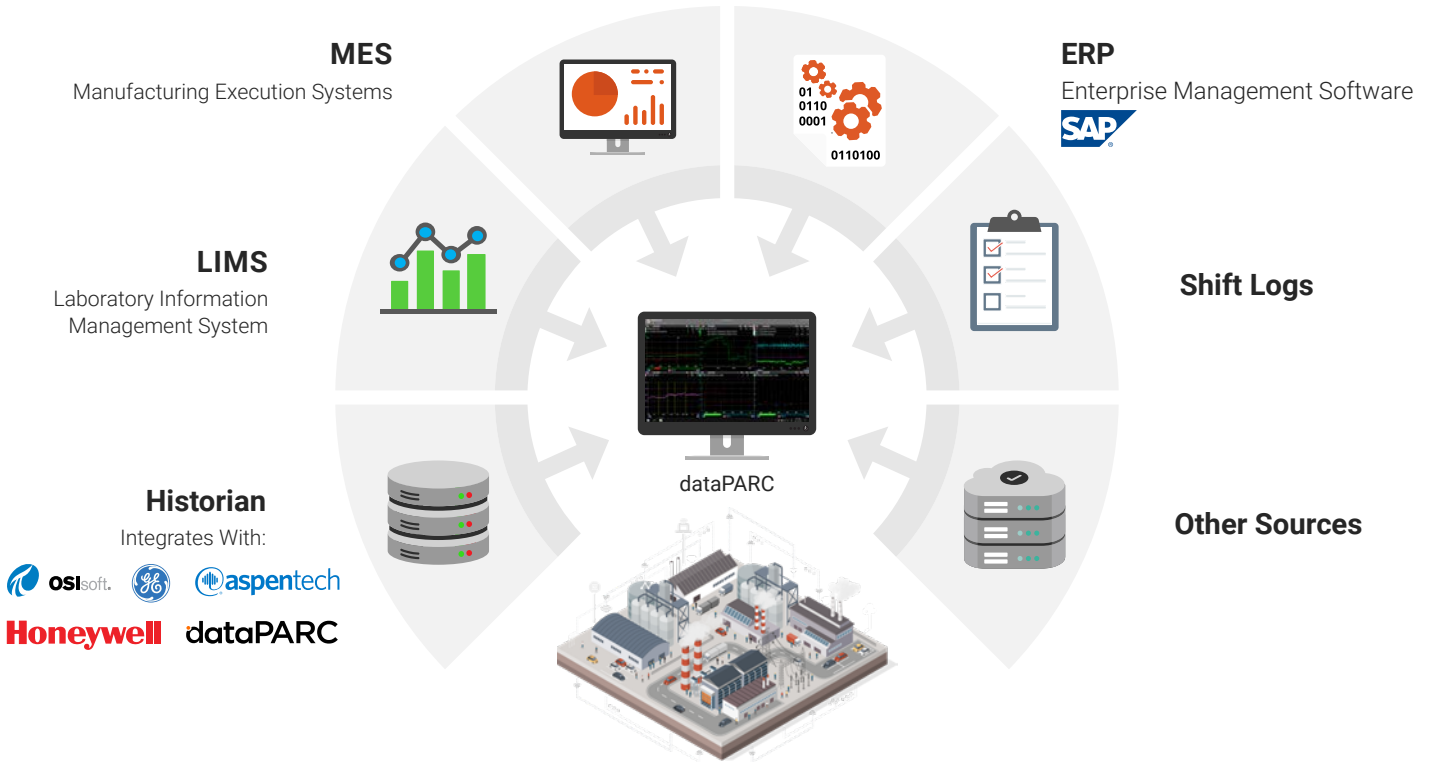
## Product Overview

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# All Your Plant's Data In A Single View - PARCview Architecture

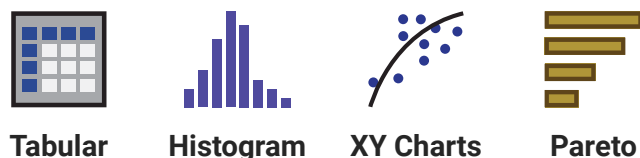
Combine data from multiple sites and multiple data sources in a single view without double configuration of tags or double storing of data. "Data Series" connections include drivers to real-time historians built on vendor provided API/SDK's and industry standard templates (SQL, Web Services, etc.) to connect other key sources of data".



## Industry-Leading Trending Tools

Widely considered the best trending application available, PARCview provides a combination of powerful features and ease of use. Features such as drag & drop, right-click menu, dragging time-axis, multi-trend templates, time syncing of Multi-Trends, and unlimited traces on each trend provide a potent tool for troubleshooting and analysis.

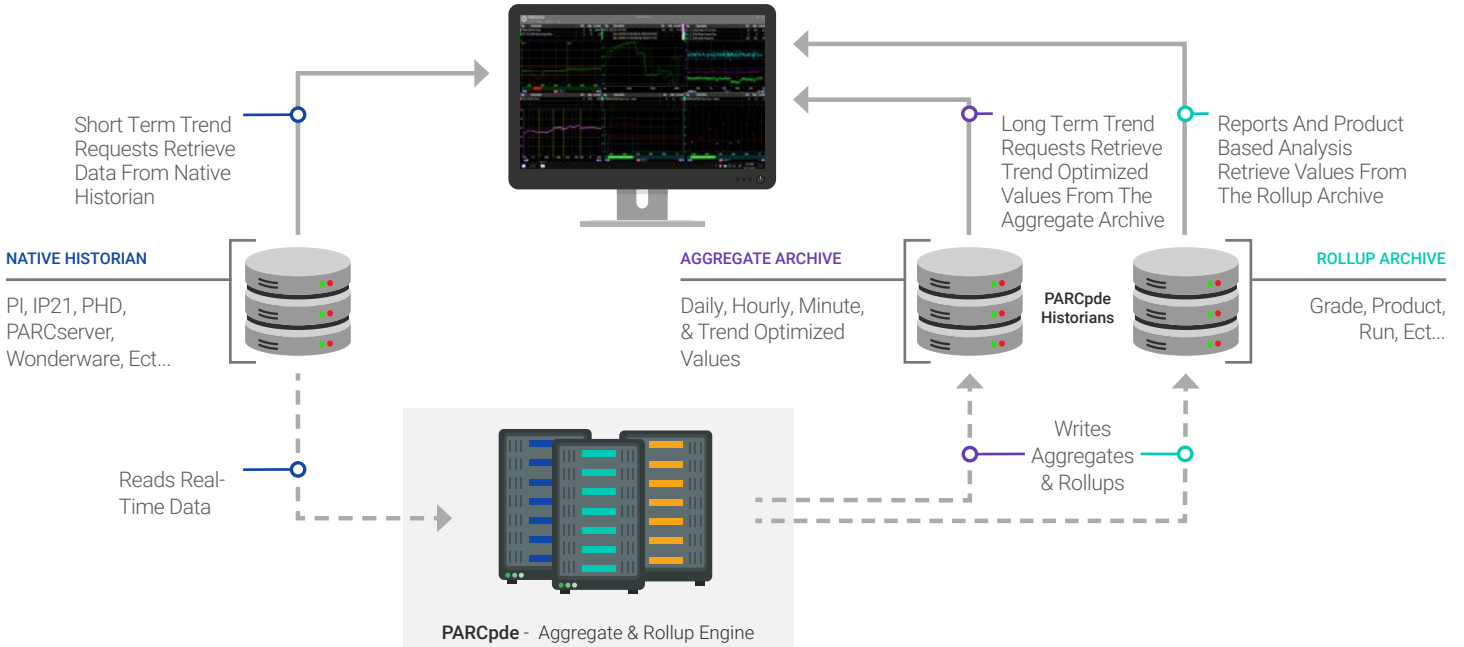
- + Standard Trends
- + Alarm Trends
- + Batch Runs
- + Grade Limits
- + Grade Runs





## Faster Is Better

Plants often face a performance vs. resolution dilemma with data. Infrastructure improvements have allowed plants to more easily capture and store high resolution data (1 second or lower sample rate). From a troubleshooting standpoint this is great, but there is a penalty paid when trying to access the data. Running reports or long-term trends of high resolution data is slow, hindering the problem solving process.



### Aggregate Archive

PARCpde solves this problem by creating two Archives alongside your real-time archive. The Aggregate Archive works seamlessly with the PARCview trend, providing unmatched performance and accessibility to real-time data. Two-year trends can be recalled in seconds not hours and users can easily switch between real-time data and hourly/daily averages.

### Rollup Archive

The Rollup Archive makes reporting on production based time periods easy. It creates statistics (Min, Max, Avg & Std Dev) for any user defined period, like Product Runs, Batches, Shifts and more.

## Easy To Use Design Tools

PARCgraphics is dataPARC's feature-rich design tool for creating sophisticated, animated and dynamic dashboards.

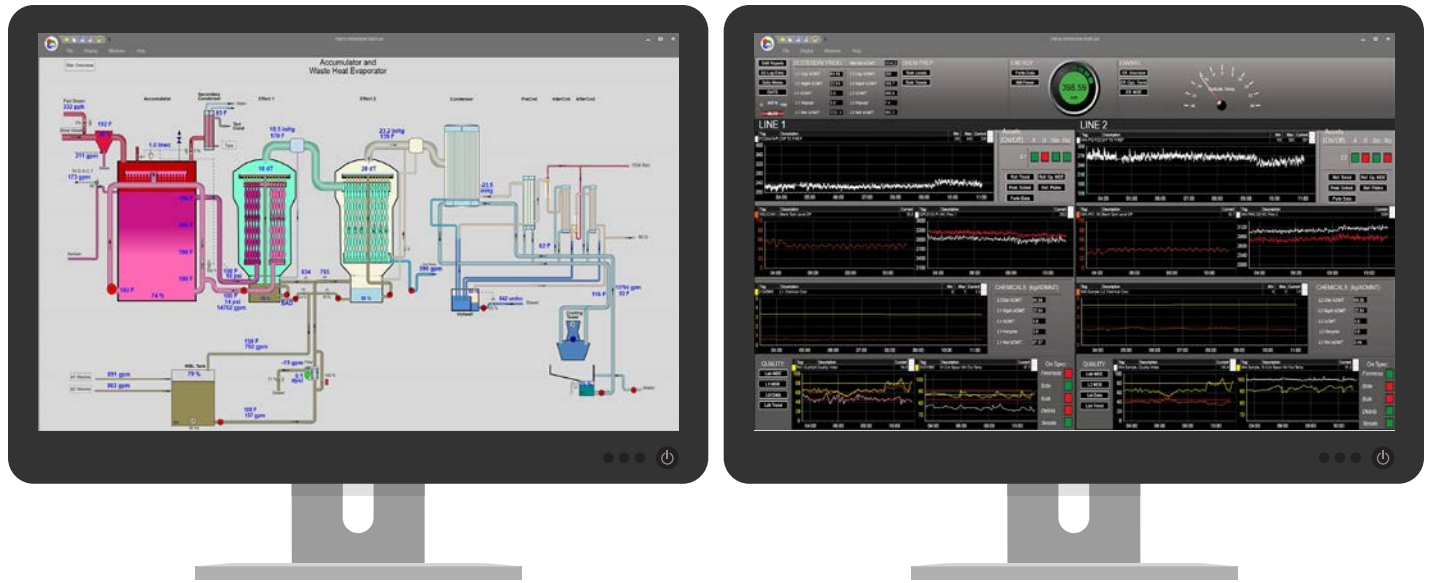
### Industry Standard Graphics Library

PARCgraphics Designer offers a graphics library based on Microsoft® WPF and XAML, with over 5000 graphic objects and controls. Import existing dashboard graphics from PI, IP.21, and more.



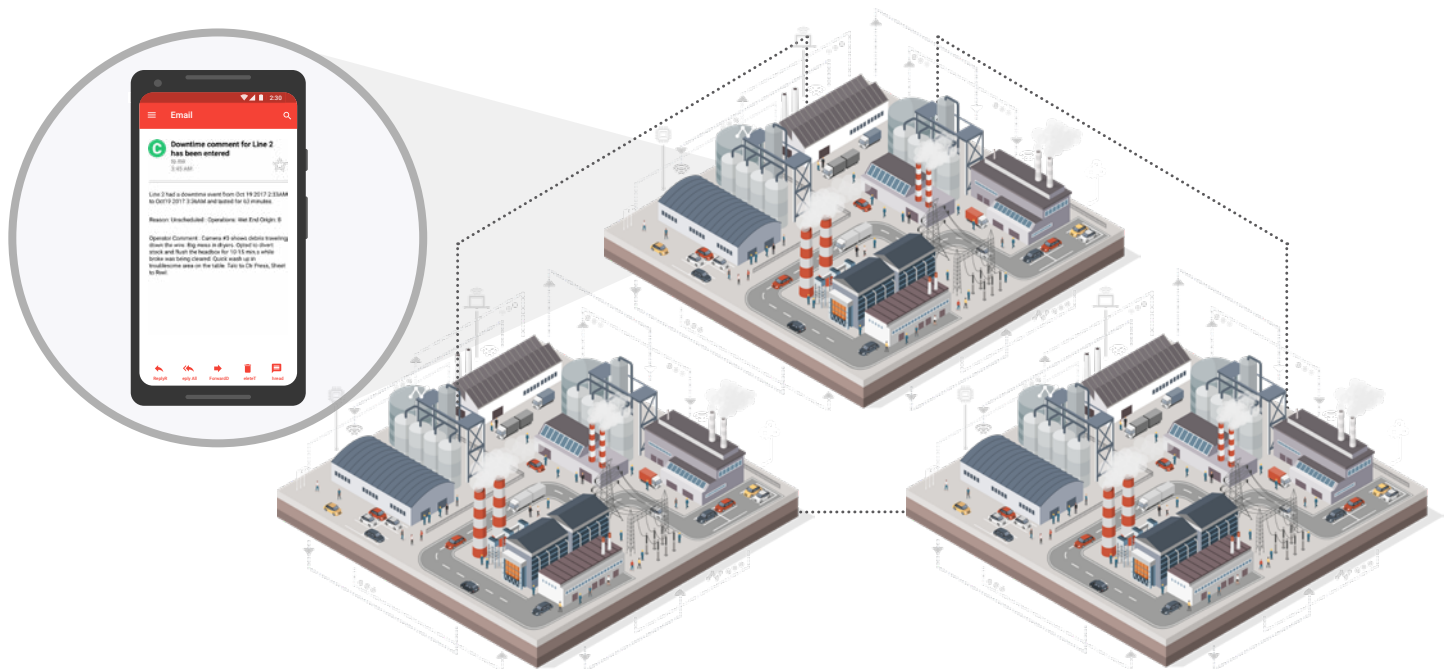
# Dashboards & KPI Displays

You don't always need large amounts of detailed, in-depth data. Many users just want the "big picture". dataPARC's built-in graphic designer can be used to create dynamic, highly-informative dashboards that give you an at-a-glance overview of the condition of major process flows and KPIs at your plant.



# Anytime Access To Live Plant Data

Get critical plant data into the hands of important decision-makers, no matter where they may be. We bring PARCview's powerful data visualization tools to mobile phones and tablets, making it easy for key personnel to respond to downtime events or simply monitor plant conditions, regardless if they're in meetings, travelling, or at home.



## Robust Reporting Tools

PARCview's highly configurable scripting and scheduling application can schedule and deliver recurring reports or other key data to management and other decision-makers.



### Dashboards Via Email

Automatically capture screenshots of trends or process displays and attach to reports for engineers & managers to have delivered while on-call or during key plant trials.

### Event-Triggered Reports

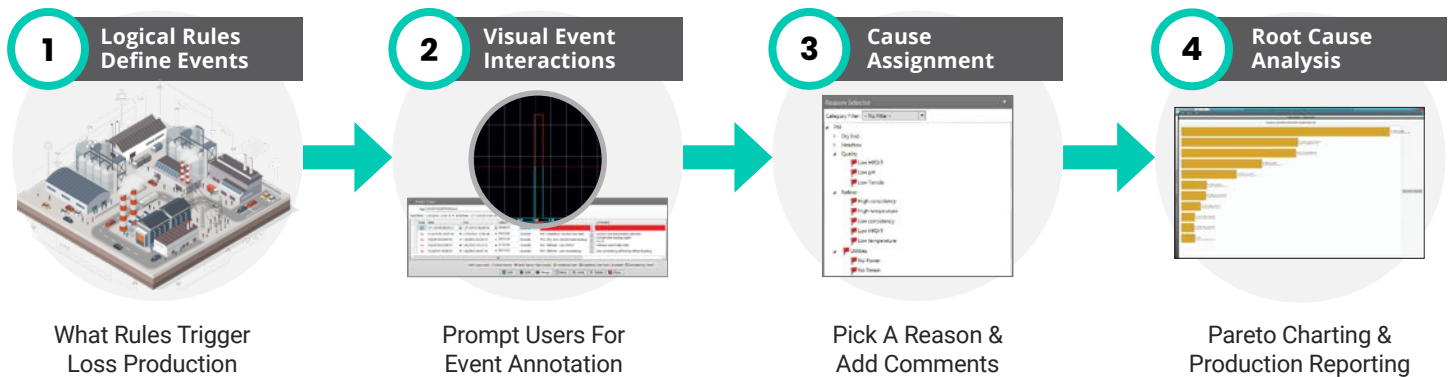
Reports can be configured to run in response to any number of triggers, including process-based events such as process values that are too high or too low

### Scheduled Reports

Build workflows that populate and send preconfigured reports. For instance, report hourly production averages and average quality parameters for the last 24 hours.

## Real-Time Process Monitoring & Notification

Capture key process variable excursions and send automatic notifications via email or SMS when events occur.



### Easy To Configure

Create alarms from many pre-defined templates, including alarms based on Western Electric rules (SQC/QPC), conditional rules, noise filtering, and more. Assign a priority and categories to alarms, or take advantage of sophisticated deadbanding.

### Timely Notifications

Configure email and SMS notifications to alert individuals when an alarm is triggered. Define message templates to include tag values, the assigned cause, custom instructions, and links to trends, enabling engineers and managers to respond without needing to be at the plant.

### Incident Tracking

Store event information in a centralized database that can be accessed by other dataPARC applications. Alarm events can be viewed from Trends, Graphics, Centerlines, Logbook, Pareto Charts, Excel, and SQL reports.

## High-Performance Plant Management

Our plant visualization tools will give you the insights needed to quickly optimize your manufacturing processes.



### **Batch Analysis**

Historical and real-time analysis of batch processes.



### **Production Cost Monitoring**

Draw correlations between process operations and financial performance.



### **SPC/SQC**

Integrated limit management tools and alarm/event engine.



### **Environmental Monitoring**

Understand environmental expectations and process compliance states.



### **Production Loss Tracking & OEE**

Calculating, reporting and analyzing production loss from down time.



### **Grade Troubleshooting**

Identify the impact process changes have on equipment.



### **KPI Management**

Monitor selected Key Performance Indicators (KPIs).



### **Operating Envelopes**

Instant visualization of the plant's operating state.



### **LIMS**

Data acquisition, processing, and analysis of lab and quality data.



### **Soft Sensors**

Predict plant quality variables in real-time allowing property estimations.

## The Foundation For Your Plant Information Management System (PIMS)

dataPARC's PARCserver offers everything you expect from a mission-critical plant data historian product, including essential accessibility performance and security. Scalable and flexible, it enables users from every level of the plant to rely on the data by ensuring the highest levels of system uptime and data integrity.



### **Performance**

Maintain a small disk footprint with optimized storage based on exception with option for deadbanding. Capstone's OPCHDA data portal optimizes data sent from the server to the client, minimizing network load – a bottleneck in many scenarios.



### **3rd Party Connectivity**

dataPARC takes advantage of open protocols (ODBC and OPC, et al.) to provide easy access to a broad range of data sources such as DCS, PLC, SCADA, MES, Advanced Metering, PLC, Batch, database, IT assets and others.



### **Reliability**

PARCserver's data collectors utilize "store and forward" technology to buffer data, ensuring maximum integrity by preventing data loss during network failures. Options for historian redundancy and failover tolerance provide consistent access to data.



### **Scalability**

Suitable for systems with 100 tags or 1,000,000 tags, PARCserver's architecture can accommodate small operations as well as multi-location corporations. Additional data sources and storage capacity can be incorporated seamlessly.

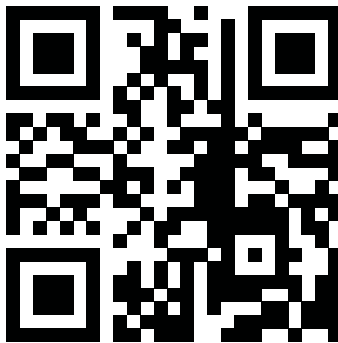
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