# Key Capabilities

Configuration

Enact offers innovative graphical Process Modeling for improving the efficiency and flexibility of configuring the system, which includes:

> Parts
> Processes
    o Process State
> Features (Test)
    o Variable Attributes
    o Calculations
    o Process Models
    o Part Recipes
    o Checklists
    o Conditions
    o Sampling Requirements
    o Control & Specification
    o Limits
    o Lots
    o Notification Rules
    o Parameter Sets
    o Process Hierarchy
   o Shifts
    o Tags
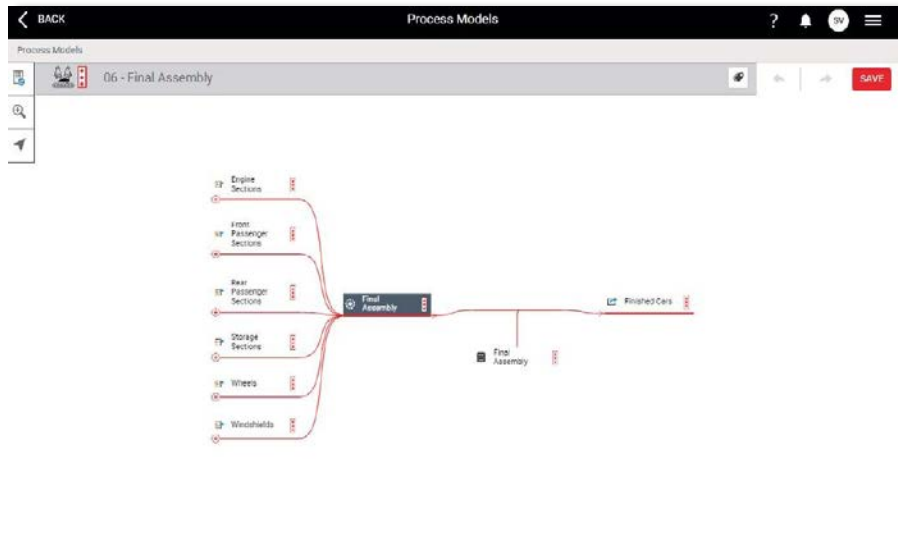
Data Collection

Enact supports a comprehensive range of ways to access and collect quality and process data:

> Manual (Timed, Untimed)
    o Variable, Attribute
    o Checklists
    o Comments
> Semi-Automated (Gauges, Measurement Devices)
> Fully Automated
    o OPC, Flat File, Serial, RS-232, TCP/IP, OLE, DB, XML Files, AQDEF, Format Files, GE iHistorian, custom
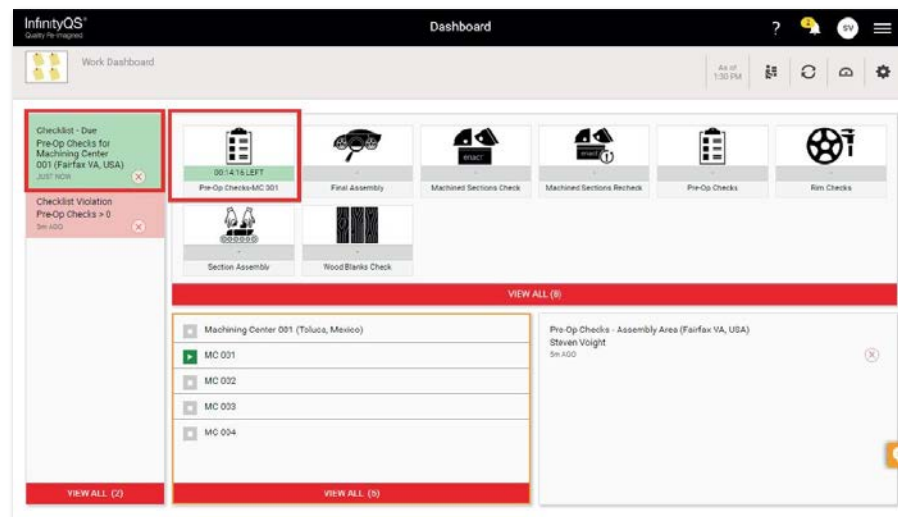
Process Monitoring

Enact's dashboards help you monitor real-time product quality and performance. Dashboards also provide you with system notifications, help you collect data, and enable investigation of possible performance shortfalls. You can easily filter data to learn more about a growing quality issue.
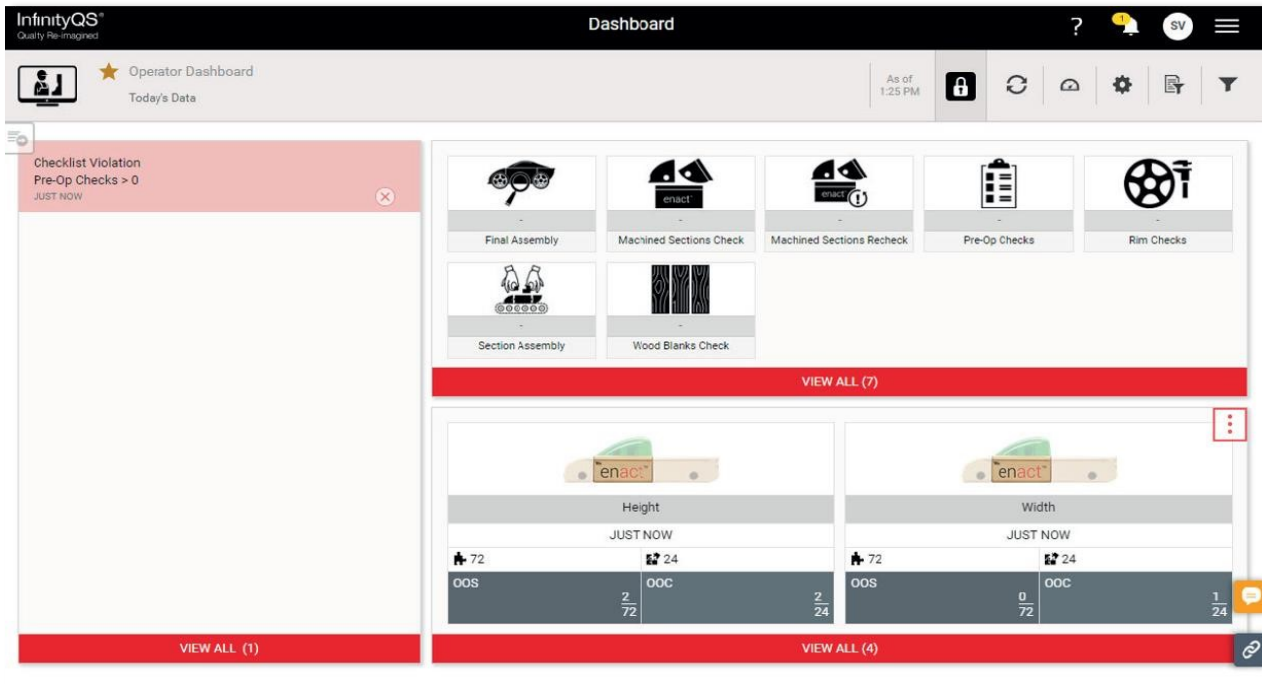
Parameter sets make it easy for you to provide access to only the quality data that specific personnel need to see. This improves user efficiency and system performance.

> Dashboards
  o Work Aggregate, Raw
    Dashboard Tiles
    - Notifications
    - Data Collections
    - Process State
    - Finished Items
    - Box & Whisker (10 Levels)
    - Pareto: Events or Data (10 Levels)
    - Data Summary
    - Stream Summary: Control Charts
      (Xbar S, IX MS, others)
    - Compliance
    - Summary Tables
    - Stream Statistics (Speedometer Style)
    - 2D Line Charts
> Parameter Sets (Data Set Selection, Saved or Ad Hoc)
> Filters (Chart Data)

Partial List of Reported Metrics:

- Process Capability Indexes: Cp and Cpk
- Process Performance Indexes: PP and Ppk
- Measures of Robustness
- Expected and Potential Yields
- Tallies of Out-of-Control Events
- Potential and expected percent Out-of-Specification
- Defects Per Million (DPM)
- Potential Defects Per Million (PDPM
- Expected and Potential Sigma Levels

There's a forgotten opportunity in quality data. It's not just about fixing problems; it's about revealing insights and taking actions that can transform your organization.

- *Doug Fair*
  COO, InfinityQS

Alert/Notification

Today's workforce is leaner than ever. Enact's automated event notification system detects and then notifies users based on the event and the user's role.

Enact uses notification rules to trigger real-time warnings when an event occurs, including:

> Missed Data Collections
> Net Content Control Violations
> Specification Limit Violations
> Other Statistical Violations
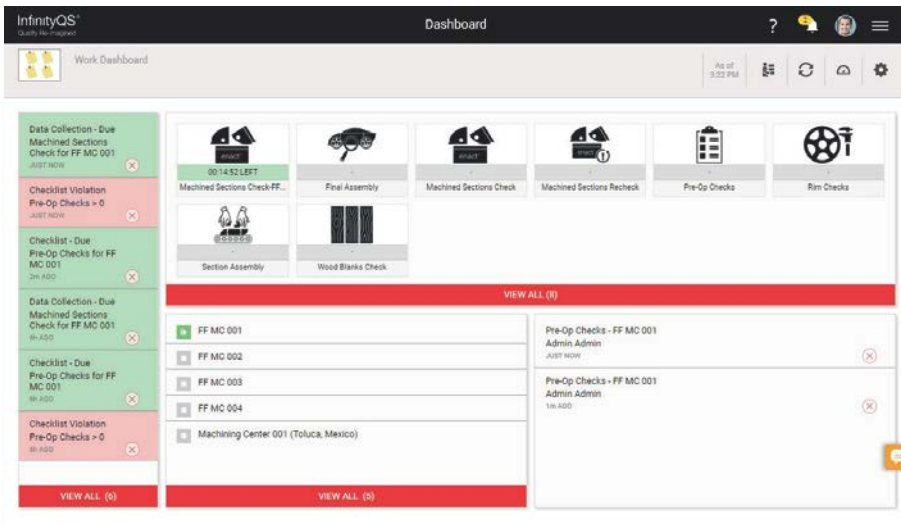
Enact can be configured to send a message to all selected users when a notification rule is violated. Notifications can be delivered by the following options:

> Dashboard Notifications
> Email
> Text Message

System Administration

Enact has been designed so system administrators can tune the Enact experience, the available tools, and presented information to the needs and responsibilities of each user. Our web-based approach means that changes can be made by the system administrator from any web connected device.
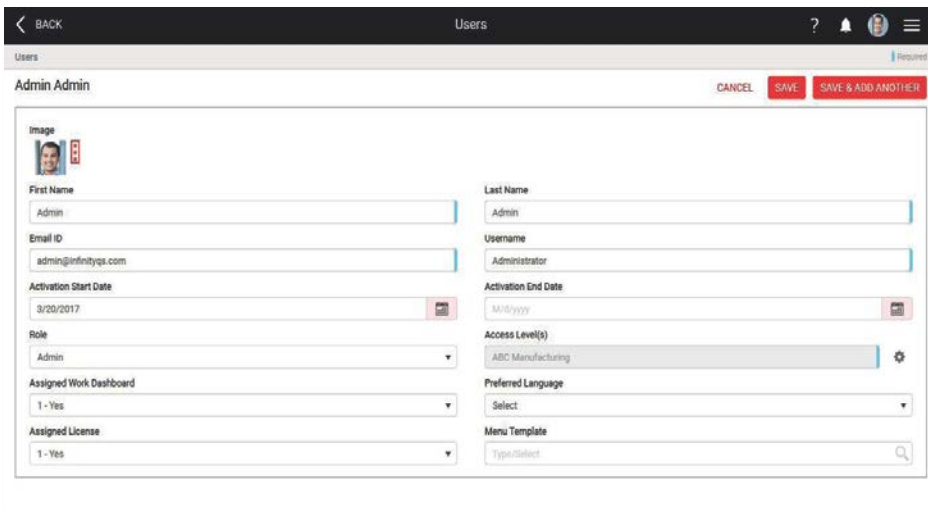
> User/Role creation & maintenance
  - Users: Create, Assign Role, Data Access Level
  - Roles: System Administrator, Custom Roles
> Configurable Security Policies
  - User Login Settings
  - Credential Settings
  - Data Authentication Settings
> Screen Appearance Options
> Manager User Workstation Licenses

Quality Performance Grading

With limited resources, how do you know where to expend your effort? Manufacturers have a lot of data; how can they summarize their data to enable easy comparisons? Metrics like Cpk, Ppk, and PPM require proper normalization and are not very intuitive for most decision makers. *Quality Performance Grading* for InfinityQS is a completely new way to assess the performance of manufacturing assets.

Quality performance grades combine a letter (A,B,C) and number (1,2,3) into a simple grade that indicates how a specific part/ process/feature combination or data stream is performing. It indicates the stream's potential (how centered and narrow is the variation?) and the action performance relative to that potential (is the actual variation shifted relative to the target?). In practice, some of your production assets might have a grade A1, while others have grades B2 or C3.

Stream Information			Stream Grading					
				Yield Potential (Centered Process)		Yield Performance		
Category	Piece Count	Grade	Grade	Percentage	Grade	Percentage	Expected Yield
◢ Weight	5400	B2	Moderate	99.91%	Moderate	94.10%	94.02%
▶ Line 01	1080	A1	High	100.00%	High	96.76%	96.76%
▶ Line 02	1080	A3	High	100.00%	Low	85.81%	85.81%
▶ Line 03	1080	B2	Moderate	99.76%	Moderate	94.02%	93.79%
◢ Line 04	1080	C3	Low	92.85%	Low	88.61%	82.27%
Product A	216	A1	High	100.00%	High	96.56%	96.56%
Product B	216	C3	Low	98.16%	Low	89.48%	87.83%
Product C	216	B2	Moderate	99.78%	Moderate	92.28%	92.08%
Product D	216	C3	Low	92.48%	Low	85.88%	79.42%
Product E	216	B3	Moderate	99.76%	Low	89.01%	88.80%
▶ Line 05	1080	A3	High	100.00%	Low	88.92%	88.92%

Grading in Enact

We allow manufacturers to sort their data streams so they can quickly see their best (and worst) performers. They can select a specific grade, and the drill down to find out what is happening with specific data streams. We think that *Quality Performance Grading* is a meaningful, actionable metric that any quality professional can use to simplify the evaluation of critical asset performance.

Quality Performance Grading provides:
> A meaningful, actionable metric for evaluating asset performance
> An easy way to compare many different, unrelated processes
> The ability to drill down and determine root causes

Analysis

Once a possible process issue has been detected, manufacturers need to fully understand it and develop the proper response to minimize disruptions to production. Enact has a powerful set of data analysis tools embedded in our dashboard-centric user interface to make it easy for users to drill-down and really understand what their processes are doing, so they can develop the best possible response.
> Process Hierarchy
  • Nine Levels
> Control Charts
  • X-s, IX-Ms, and more
> Pareto Plots
  • Event or Subgroup Data
  • 10 Level
> Mobile Devices
  • Supports full analysis capabilities
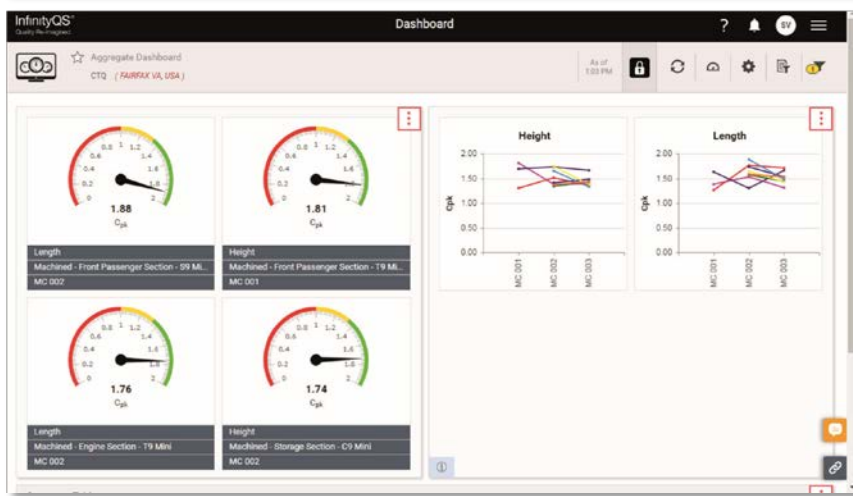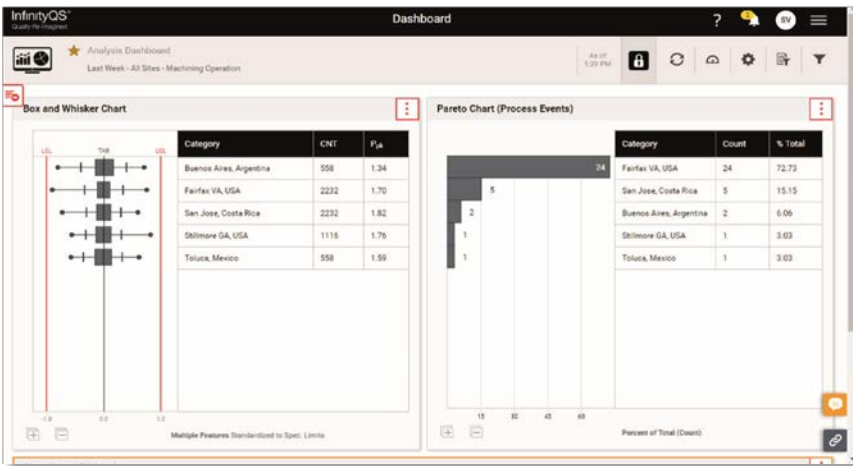
Enact simplifies the acquisition, deployment, operation, and maintenance of real-time quality management via a modern, native-cloud, mobile-friendly, Quality Intelligence platform.
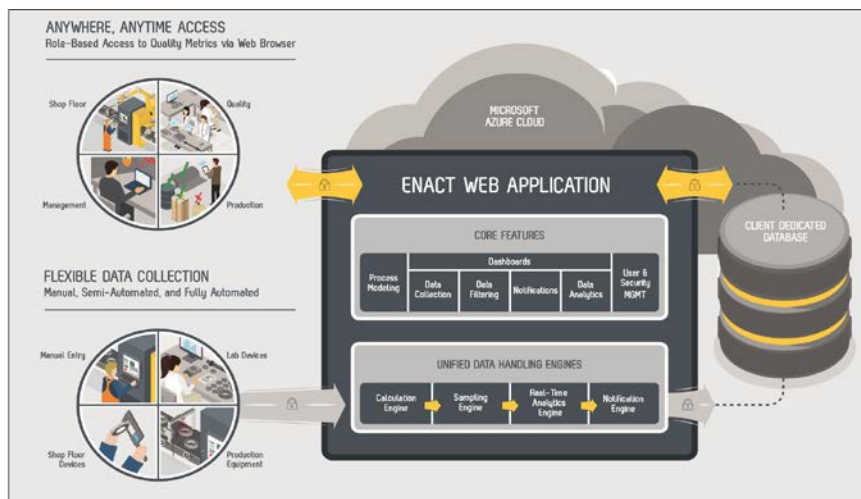
Transform Your Quality with Enact

Ready to discover more about Enact and how it can improve your quality and process challenges?
Please visit www.infinityqs.com/enact for videos, white papers, and next steps.