

# Epicor Advanced MES ABLE Apps

Use our ABLE Apps, powered by Sage Clarity, to continue your companies evolution into Industry 4.0.

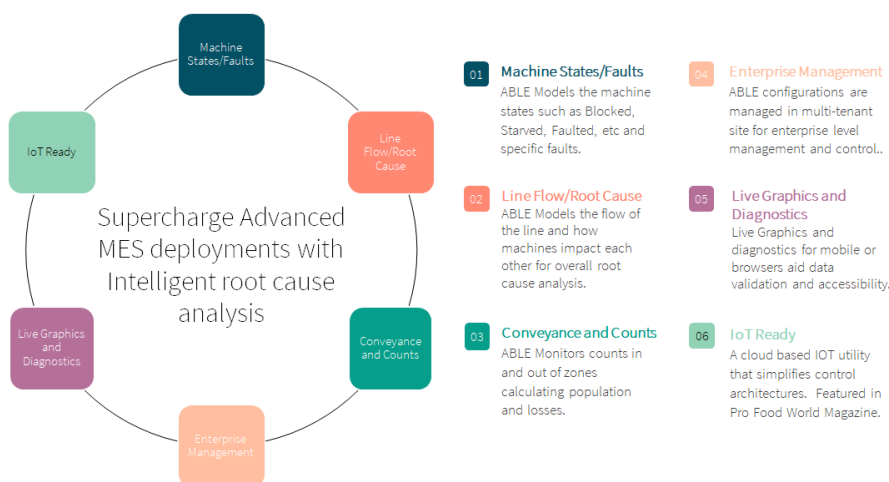
Epicor Advanced MES ABLE apps help model machines and provide root cause analysis with no modification to PLC logic. Coupled with our Digital Twin Replay capabilities you can create digital twins from real-time information

## Intelligent Root Cause App

ABLE models machines and production lines with no modification to PLC logic to provide downtime reasons/locations automatically; referred to as Autotagging - production lines and machine stats, counts, and root cause are all coalesced in our logic engine and published via Kepware.

This non-intrusive method combined with our advanced diagnostics validation tools allows for remote deployment. Our root cause algorithm has helped our customers achieve 20% higher data fidelity creating more actionable intelligence.

## Supercharge Advanced MES Deployments



When an assembly line or resource goes down, downtime cascades up and down the value stream. ABLE scans the line, and can identify the root cause at the bottleneck based on the machine status.



## Advanced MES

### Benefits

Better root cause analysis for complex production lines

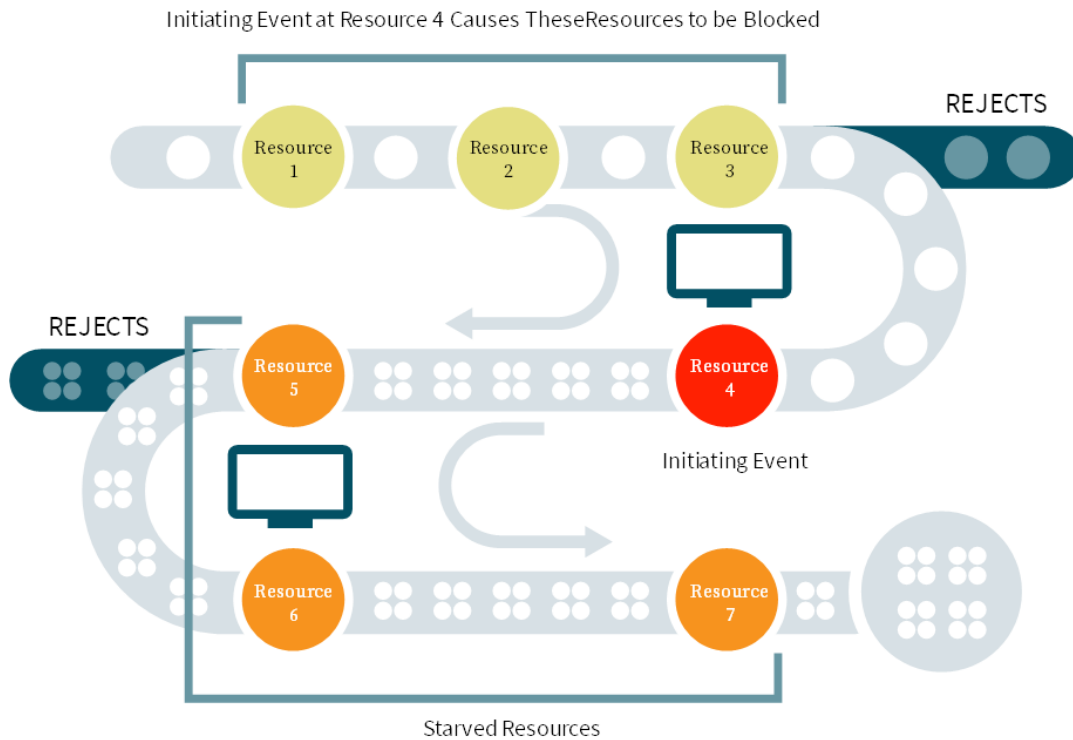
No PLC programming required and eliminates the need for a concentrator PLC

Ability to create Digital Twins from real-time manufacturing data

Cloud based configuration for enterprise management

Live plant views and visualizations

## Production Line Example

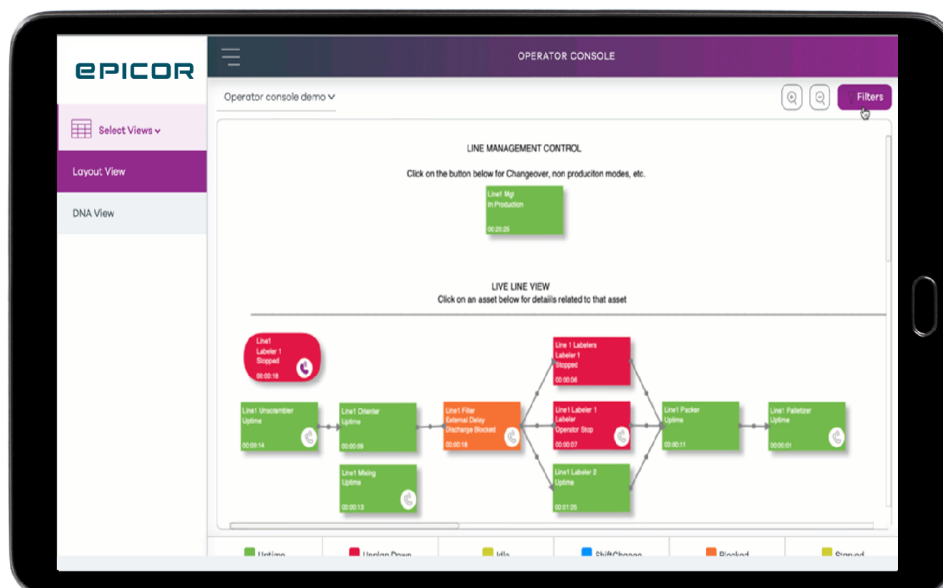


In the example above the production line has an initiating downtime event at resource 4 which causes the line to go down. Our ABLE app is scanning the line to determine where the initiating event occurred so that when the line goes down you have some specifics about the root cause of the failure.

## Factory View App

Live visualization into your manufacturing operations is a critical part of any Industry 4.0 solution.

Use the Epicor Advanced MES ABLE Factory View App to visualize what is happening in your facility. The color-coding helps you visualize when things are operating well and when you have a problem that you need to take action on.



“Sage Clarity’s innovative solution suite enhances the functionality of Advanced MES creating new value for the combined products, which is why we are so excited about it.”

John Oskin  
President, Sage Clarity Solutions

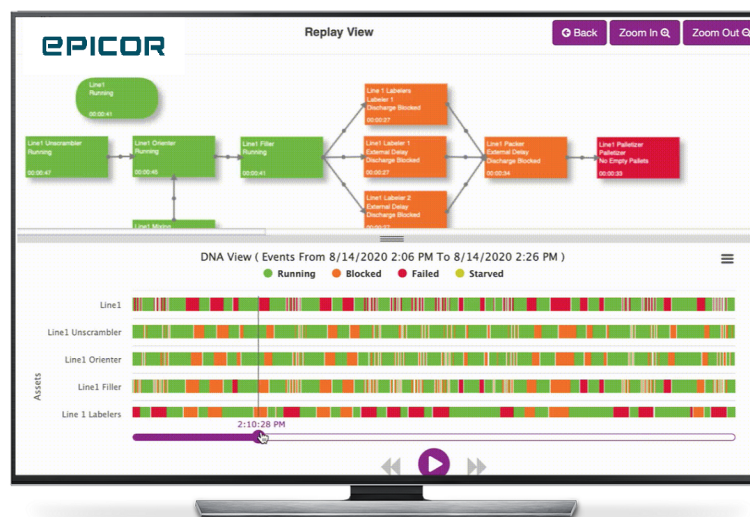
## Digital Twin App

The Epicor Advanced MES ABLE Digital Twin™ application is a versatile tool that pulls data from your IoT devices to create a visualization of all your shop floor data.

A digital twin is a representation of a physical system, recreated in software. Our Digital twin system for manufacturing is built on top of your Advanced MES solution and is used to monitor processes, detect downtime, and predict performance.

The Digital Twin application, powered by Sage Clarity, was designed to be lightweight, scalable, and built for maximizing manufacturing quality and efficiency.

Using the ABLE Digital Twin application's replay mode you can go back in history and visually review information to perhaps see what caused an issue that occurred earlier in the day. Armed with real information you will be in a better position to implement continuous improvement programs to help improve efficiency on your shop floor.



## EPICOR

We’re here for the hard-working businesses that keep the world turning. They’re the companies who make, deliver, and sell the things we all need. They trust Epicor to help them do business better. Their industries are our industries, and we understand them better than anyone. By working hand-in-hand with our customers, we get to know their business almost as well as they do. Our innovative solution sets are carefully curated to fit their needs, and built to respond flexibly to their fast-changing reality. We accelerate every customer’s ambitions, whether to grow and transform, or simply become more productive and effective. That’s what makes us the essential partners for the world’s most essential businesses.

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