

Epicor Connected Process Control Plans and Features Guide



Epicor Connected Process Control offers three levels of feature packages to fit your needs. Level 1 enables core required features of the system to get you started. Level 2 allows USB device connectivity for data collection, part traceability, and genealogy. Level 3 permits network device connectivity and customization capabilities. Choose the level that fits your needs.

Level 1 Features

- Task Creation
- Work Instruction Editor
- Unlimited Users
- Built-In Part History
- Single Sign-On
- Model Based Instructions
- Multiple Languages

Level 2 Features

- Work Instruction Approval
- USB Device Data Capture
- Image Capture
- Bar Code Error-Proofing
- Record Process Data
- Serial Number Transfer
- Label Printing
- Part Genealogy
- Station Prerequisites
- Part Marriages
- Push to Schedule

Level 3 Features

- Pick and Sensor Tasks (I/O)
- Sensor Error Proofing
- PLC Task and Interface
- Torque Tool Integration
- Multi-Spindle Torque Control
- Node-RED Tasks
- Cobot Integration
- Vision and Smart Camera Integration



Level 1 Features

Task Creation

What makes Epicor's software unique is the ability to create tasks quickly and easily. Based on configured tasks, users can select different task types and easily arrange them into a linear process while associating work instructions, action events, process data, and more.

Work Instruction Editor

Epicor's Work Instruction Editor (WIE) allows users to create, manage, and share work instructions digitally. Easily store, organize, and access work instructions and imported media files within the built-in library. Hyperlinks can be added to work instructions for quick links to documents or videos. Built-in version control captures when work instructions are updated and approved. Advanced WIE features include Dynamic Work Instructions (DWI), allowing users to add trigger events such as "Start," "Pass," and "Reject." These events will enact various actions such as turning on/off IO devices, showing different work instructions, animating work instructions, and much more.

Unlimited Users

To get the most benefit company-wide, Epicor licenses Epicor Connected Process Control by the station rather

than the user. With unlimited users, it doesn't matter how many employees you have, shifts you are running, or engineers that have access. You have the ability to add as many users as you'd like.

Built-In Part History

Epicor Connected Process Control collects and records data from each task a part has gone through. Collected data includes station names, images, users, process data, and more. This information can be exported anytime for reporting needs.

Single Sign-On

We have it! Single sign-on capability for user authentication permits a user to log in with one set of credentials.

Model-Based Instructions

The ability to set up instructions that will react specifically to the options for the model that is being built.

Multiple Languages

Epicor Connected Process Control allows its users to select from many different language choices.

Level 2 Features

Work Instruction Approval

Any work instructions or changes made can be sent through an optional approval process. The approval process consists of the Creator sending the new or revised work instructions to selected individuals, or teams, assigned as Approvers, so they can either accept the work instructions or decline them. Approvers can then leave notes when work instructions are not acceptable. Once complete and fully approved, the work instructions can be deployed.

USB Device Data Capture

USB devices can easily be connected into tasks and various processes; information can then be retrieved from those devices. This allows process data to be automatically entered into the Epicor Connected Process Control application with the ability to use this real-time data in a number of useful ways—and can also automatically advance tasks.

Image Capture

Epicor Connected Process Control has developed an Image Capture task that connects USB cameras. This allows for any placement and positioning of cameras to economically capture images for any number of use, including users to add 2D images to their 1D data. Epicor also stores those images in a File Management library for anytime access.

Bar Code Error-Proofing

Epicor Connected Process Control can connect to USB scanners, where it can specifically look for an expected value when scanned. During the process, the Epicor system prompts the operator to scan a barcode, and if that barcode has the correct value built in, the process will advance.

Record Process Data

Get the benefits of collecting unlimited amounts of process data. Process data fields can be customized to fit your needs and can capture any data that adds value, either automatically or input manually. While guiding the operator through processes, the system prompts the operator when to collect the process data and will not allow advancement until the task is completed.

Serial Number Transfer

Within our software we can generate a unique number, giving you full traceability of your part prior to the serialization state. We can transfer that data to the permanent serial number when required.

Label Printing

Epicor Connected Process Control has the ability to connect to most printers, and to print labels at any point in your process.

Part Genealogy

Epicor Connected Process Control collects and records data from each station that has been through, including its status, and any process data collected. Prerequisites and part marriages can be set up for further error-proofing. Get access to digital birth certificates for every product, the proof you need that products were built correctly and compliance standards are met.

Station Prerequisites

These allows for putting gates in the process, stopping the product from moving forward if there are faults.

Part Marriages

Part marriages allow the ability to marry a subcomponent that was previously run through a process in the system with another part number/assembly, in order to track the history of the product.

Push to Schedule (Model-Based)

This feature allows users to push a schedule to another station, based on the launch of one station or another station.





Level 3 Features

Pick and Sensor Tasks I/O

Epicor Connected Process Control can easily connect to most pick lights, sensors, and light arrays to assist and error-proof correct selections.

PLC Task and Interface

The PLC task allows users the ability to interact with various PLCs. Once configured, it allows the system to exchange multiple variables to and from the PLC.

Torque Tool Integration

Epicor Connected Process Control can easily integrate with any open protocol torque tool. Engineers can quickly control and view torque tooling configurations within the system. The software will enable the controller in a configurable sequence, send parameters, disable the tool after a specific count, store torque and angle data, and track tool faults.

Sensor Error-Proofing

Connect to sensors through I/O for part presence prior to the machine running.

Multi-Spindle Torque Control

Epicor Connected Process Control can easily integrate with any open protocol multi-spindle torque tool. Engineers can quickly control and view the configurations within the system.

Node-RED Tasks

Simply connect any hardware device, API, or online service via Node-RED Flow.

Vision and Smart Camera Integration

Communicate and control smart camera systems based on part or model configuration. Receive pass/fail information along with images. Store those images in a configurable system based on the camera.

Cobot Integration

Epicor Connected Process Control can act as an administrative role, commanding the cobot what program to use based on the model or part in station.

Optional Addons

Business Intelligence and Reporting

Report on any information that is collected throughout the process, such as production counts, cycle times, quality data, process data, and more.

Component-Based Configuration

This capability lets you display specific instructions or send process control parameters based on a serial numbers bill of materials (BOM).

Overall Equipment Effectiveness (OEE)*

Epicor Connected Process Control tracks the state of each station, so that we can allow an accurate OEE reading. This includes the percentage each station is running, starved, faulted, or blocked, as well as changeover and break times.

*Requires the business intelligence reporting addon.

ERP/MES Integration

Connect and communicate easily with upper-level ERP systems, along with MES or other systems.

Cloud Hosting

Epicor Connected Process Control can be deployed on-premises or we can host the software for you via the cloud.

ANDON

User-configurable data displays allow visual content that can be presented on any web-capable device including large overhead displays, any PC connected to the network, and tablets. You'll get a visual picture of everything from production counts to target vs. actuals, quality reports, and much more.

Advanced Part Picking

Epicor Connected Process Control's Advanced Part Picking is a great solution for larger picking and kitting cells, allowing you to prompt with multiple colors and display counts.

Augmented Reality

You'll have the ability to use projected AR guidance to accelerate training, streamline assembly, and improve quality.

Enterprise pricing and custom packages are available as needed. To learn more about pricing and the features included in the plans, please contact Epicor sales at sales@eflexsystems.com

EPICOR

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