

# Engineering Change Control

## SOLUTION FACTSHEET

Manufacturers need the ability to bridge the gap between engineering, quality assurance, and production to control and speed the process of driving new product revisions to market quickly and cost-effectively. SYSPRO engineering change control (ecc) module enforces controls in product design with a user-defined workflow that can supplement or replace the paper trail that usually accompanies any product design or changes to product design. Groups or individuals are electronically notified of required actions, accompanied by instructions, comments, documents and drawings. Specific actions or responses are required before the change order can move to the next step in the design and ultimate approval process. Existing orders (sales, purchase or work orders) can optionally be locked by the system, when a change order request is accepted. Prior revisions of an item are archived and can be accessed for manufacturing or investigative purposes.

SYSPRO provides control and visibility of this process by providing detailed audit reports for all transactions, including all historical changes and the operator performing the change to meet all compliance requirements. Engineering change control is crucial to quality control and is a requirement for ISO and QS certification. Engineering change Orders provides the mechanisms to:

- Assign product design tasks to particular users (or groups of users)
- Transfer tasks between users (or groups of users)
- Notify users of new tasks
- Remind users of outstanding tasks
- Sign off engineering changes electronically

### The benefits of Engineering Change Control

- Analyze and monitor engineering change information to gain insights into how material and labor changes will affect production costs and pricing
- User-defined workflow for the streamlined control of product design changes
- Automatic or manual movement between statuses
- Association of triggers and events for automated alerts
- Electronic sign-off for engineering change Orders (ecOs) for ease of tracking
- Archiving of versions for tracking and retrieval



#### Product Version:

SYSPRO 8

#### Related Modules:

- Inventory
- Bill of materials

#### Sectors:

- Manufacturing
- Distribution

#### Industries:

- Automotive Parts and Accessories
- Electronics
- Fabricated Metals
- Food and Beverage
- Industrial Machinery and Equipment
- Packaging
- Plastics and Rubber

# Engineering Change Control features

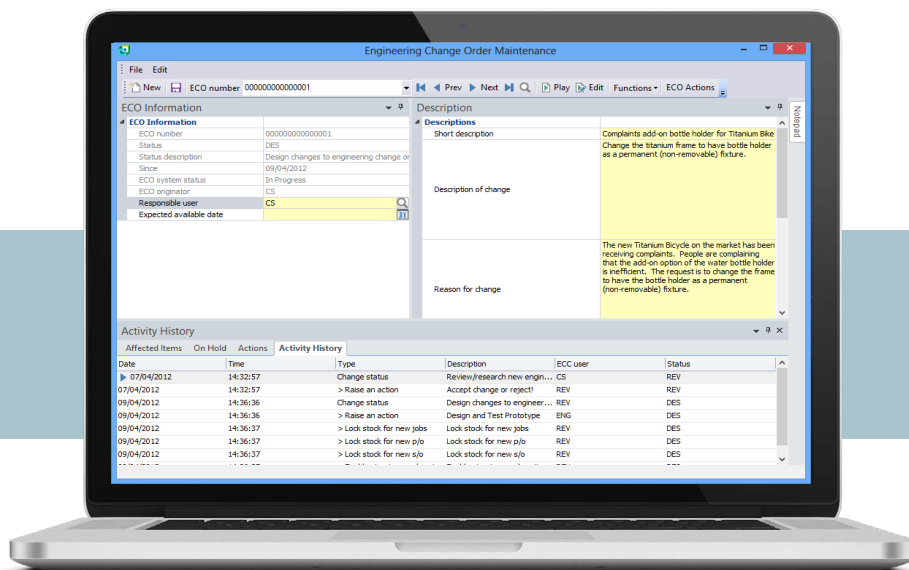
- Enforce security and controls in the ecc process
- Govern revision/release sensitivity at stock code level
- Keep track of product-related data such as drawings, circuit diagrams and cNc programs
- Record all notes by the ecO reveiwer, providing a complete chronology of all comments for future reference
- Assign product design tasks to specific users/groups of usersntransfer tasks between users/groups of users
- Define new task notifications, outstanding task reminders and electronic sign-off
- Control structure and/or routings maintenance with mandatory ecOs
- Define any number of user-defined statuses with associated routings
- trigger an associated event when an ecO is moved into a statusIdentify affected products against an ecO
- Identify existing jobs, purchase orders and sales orders relating to the affected products on the ecO with where-used queries
- Optionally prevent creation or maintenance of purchase orders, jobs and sales orders for products on an ecO
- Optionally prevent stock code maintenance for ecc-affected items
- Optionally increment affected parent BOM revision/release numbers when attached component version/release numbers change, as long as the parent is also an affected item on the same ecO.
- Optionally allow cosmetic changes to a BOM without increasing the revision/release number
- Optionally allow the tracking of release when ecc stock control is at Revision level
- Retrieve previous revisions of structures, routings and jobs from archives for production as planned or as built
- Optionally allow non-sequential revision or release numbering

# Integration with SYSPRO

- Bill of Materials (essential)
- Inventory (essential)
- Purchase Orders
- Quotations
- Sales Orders
- Work in Progress

# Audit trails and reporting

- Report on status of all change Orders
- Report on all revisions and releases held against ecc controlled items
- Listing of ecc users, Status codes and Routings



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