



Engineering Change Control

Inaccurate bill of material and routing definitions trickle down throughout the manufacturing process negatively affecting material planning, cost analysis, and resource scheduling. Engineering Change Control (ECC) helps manufacturers to maintain control of master data in a rapidly changing world.

- Combine multiple Engineering Change Requests into a single Engineering Change Order
- Route changes through defined approval processes
- Leverage Where-Used and Engineering Workbench comparisons to streamline design processes

Key business benefits

- Manage change requests with approvals workflow.
- Control which users can access ECC for design changes.
- Monitor changes with a historic audit change log with security.
- Compare BOMs side-by-side to visualize changes.
- Gain insights into engineering with role-based dashboards and reports.

Related resources

- Multi-Modal Manufacturing with Acumatica > [LEARN MORE](#)
- Simplify Manufacturing Quality and Compliance > [LEARN MORE](#)
- Schedule a Personalized Demo > [LEARN MORE](#)

Automate the Engineering Change Requests and Change Order Processes

Manage version control and updates to bills of material (BOM) and routings while controlling effectivity dates that impact material planning, costing, and scheduling. Gain insights into pending changes with full audit capabilities for historical changes.

Engineering Change Control (ECC) is essential for maintaining control of manufacturing master data in a rapidly changing world. In an ever-changing or heavily regulated manufacturing company, ECC monitors the process of changing a bill of material and routing with built-in approvals workflow.

Engineering Change Control Features:

- Complete control from Engineering Change Request (ECR) to Engineering Change Order (ECO) to BOM update. Merge multiple ECRs to a single ECO for like parts.
- Automates, controls, and organizes all change requests, plans, and actual changes to a BOM and routing. The BOM Compare screen lets you see ECR, ECO, and BOM changes and variances quickly.
- Use Acumatica Approval and Assignment Maps to control the approval process for requests and change orders. You can choose if approvals are required for either or both ECR and ECO.

“We get their serial number, we can see case history, the bill of materials and revisions, and we can replace a part, or substitute with a different part. Then we can tell you what production line it ran on, who was the QC person when it was put on a truck, which dock it went out from, what truck it was on, and which distribution center it went to...”

–Bill Ferron, Director of Information Technology, Portacool LLC

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Engineering Change Requests

Manage engineering change requests by bill of material (BOM) and revision with requested dates, effective dates, requester names, priority codes, and additional information.

Engineering Change Orders

Tie multiple ECRs to a single ECO for the same item or skip the ECR process and manage changes directly from the new ECO.

Engineering Workbench

Shorten engineering cycles by creating or modifying a multi-level bill of material with drag-and-drop and copy-and-paste features from the interactive Engineering Workbench.

Security / Audit Log

Control user access to engineering change requests and engineering change order processes with database logs for changes with user identification and time stamps.

Engineering Dashboard

Gain insights into engineering and design with real-time data for engineering change orders, engineering change requests, and approval status.

Approval Process

Setup an automated process to route ECRs and ECOs internally for approval with optional delegation to other employees.

BOM Compare

View BOM revisions side-by-side to identify changes between versions quickly.

Side Panels

Save time with manufacturing side panels providing direct access to engineering change requests and engineering change orders without leaving data entry screens.

Optional Acumatica for Arena Native Connector

Manufacturers with complex engineering and product release processes may be interested in the [Acumatica for Arena Native Connector](#) application for connectivity with advanced product lifecycle management (PLM) features.

Optional CAD Connections

Marketplace apps like CADLINK by QBUILD support CAD integration with engineering change orders to synchronize engineering changes from design applications.

The screenshot displays the Acumatica Engineering Workbench interface. The top navigation bar includes the Acumatica logo, a search bar, and user information (Revision Two Products, Products Wholesale, 2/23/2023 5:06 AM, admin admin). The left sidebar contains navigation options: Favorites, Bills of Material, Material Requirements, Product Configurator, Time and Expenses, Inventory, Sales Orders, Purchases, Production Orders, Estimating, Dashboards, and More Items. The main area is titled 'Engineering Workbench' and shows a BOM tree for 'BOM000020 - B (AMKEURIG45)'. The tree includes items like '0010 - WC10 - Assembly', 'MGRESVINLT - Reservoir Inlet', 'MGBASE - Base Unit', '0010 - WC40 - Cutting', 'MGSHEET10 - Sheet Metal 10 Gauge', 'MGBLACKDYE - Black Dye', '0020 - WC70 - Form', 'MGDRIPTRAY - Drip Tray', 'MGFHSCREW - Flat Head Screw', '0030 - WC100 - Inspection', 'MGWPUMP - Pump', 'MGWIREHARN - Wire Harness', '0020 - WC30 - Final Assembly', 'MGFHSCREW - Flat Head Screw', 'MGPCB - Printed Circuit Board', and '0010 - WC10 - Assembly' with 'MG CIRBOARD - Circuit Board'. A table below the tree lists items with columns for Qty and UOM. The right side of the interface shows 'SELECTED OPERATION' and 'MATERIAL' sections with various settings and input fields.

Streamline manufacturing product design revisions with Acumatica's interactive Engineering Workbench.

ABOUT ACUMATICA

Acumatica Cloud ERP provides the best business management solution for digitally resilient companies. Built for mobile and telework scenarios and easily integrated with the collaboration tools of your choice, Acumatica delivers flexibility, efficiency, and continuity of operations to growing small and midmarket organizations.

Business Resilience. Delivered.

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Founded in 1984 in San Diego, DSD Business Systems is an award-winning cloud accounting, ERP, CRM, HR and custom development technology partner with 45 offices throughout North America. As a Gold Acumatica Partner, DSD is recognized annually by Accounting Technology Magazine as a Technology Pacesetter, as well as a Top 100 VAR Firm by both Bob Scott's Insights and Accounting Today.

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