

Total Engineering Change Management



FEATURES:

- Complete revision control management.
- Digital signatures meeting the requirements to most world wide standards.
- Automatic task assignments and workflow.
- Associate multiple drawings and documents to change orders. Integrated to Windows SharePoint Services.
- Design new products before they are released into AX.
- Attach SOP procedures to new products or engineering change orders.
- Electronic distribution of new orders or change orders for authorization.
- Built-in reporting capabilities.
- Fully integrated and built for Microsoft Dynamics AX.
- Workspace for designing new products.
- Workspace for changing existing products.

Engineering Change Management Series for Microsoft® Dynamics AX. Provides real-time Engineering Change Management for Items, Bills of Materials, and Production Routes.

Optimized for design – integrated for control

Total Engineering Change Management provides a workplace to design your new products and to make changes to existing products, before they are released into production. And it's fully compliant with Dynamics AX Best Practices as it's built right in AX with the same tools used by Microsoft. Same GUI; same database; and same development suite. No other engineering change solution provides this type of integration.

Engineering draw...	Description	Type of change	Under Revision	Created...	Last ECR Id	Last ECO Id
EDN-030004	Flash Light Standard	Item	<input checked="" type="checkbox"/>	6/13/2006	ECR-020000	ECO-010000
EDN-030011	Flashlight BOM	BOM	<input checked="" type="checkbox"/>	6/21/2006	ECR-020003	ECO-010001
EDN-030005	Route Revision A	Route	<input type="checkbox"/>	6/13/2006	ECR-020001	
EDN-030008	Flashlight	Item	<input type="checkbox"/>	6/21/2006		
EDN-030009	book	Item	<input type="checkbox"/>	6/21/2006		
EDN-030010	battery	Item	<input type="checkbox"/>	6/21/2006		
EDN-030000	Sheet Steel	Item	<input type="checkbox"/>	6/12/2006		

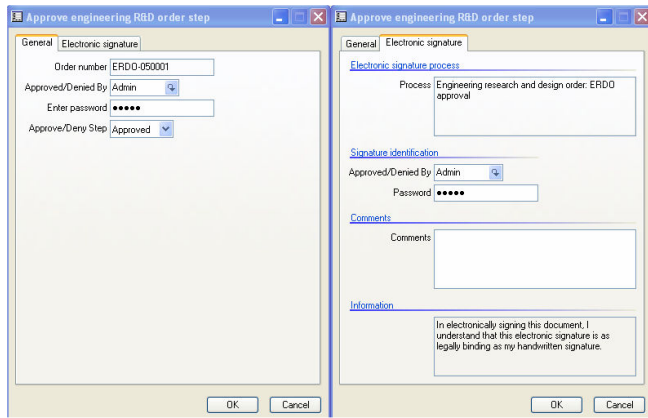
Route number	BOM	Item number	Name	Revision level	ECR ID	Date ECR ...	ECOId	Date E...
		FL-Standard	Flash Light Sta...	A	ECR-020000	6/13/2006	ECO-010000	

With the Engineering Revision table you have a historical record of every change to Items, BOMS, or Routes. You'll know why, how, and when these changes occurred.

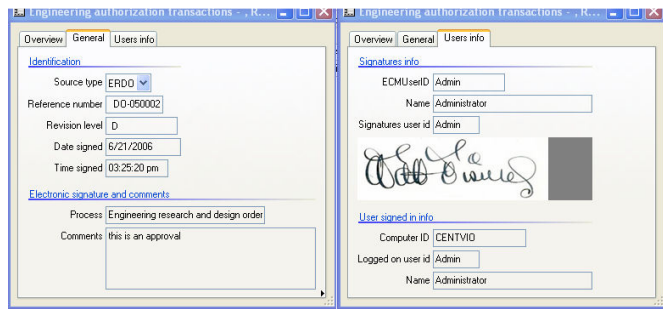
It's simple to use – easy to learn

Engineering Change Management for Microsoft® Dynamics AX is a flexible solution that establishes the controls to manage your items, bills of material, and production routes. You won't need to learn new commands or processes since it's built right in Dynamics AX. So it uses the same logic and navigation making it easy to learn and simple to use.

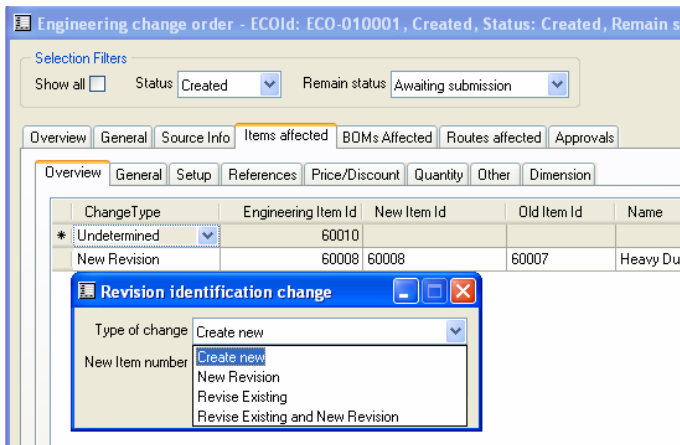
And with its compliancy to AX standards, you benefit from other Microsoft technologies. Incorporate Word or Excel templates and use the collaboration features of Microsoft Windows SharePoint Services and Microsoft Office SharePoint Portal Server 2003. Benefit from the comprehensive business intelligence of SQL Server 2005. Every benefit and feature of Dynamics AX is inherited in Total Engineering Change Management.



Signatures are digitally captured along with the approval and the process.



A detailed transaction table captures the signature along with the specifics of the approval.



The ECO form will track how you make changes and when you use new.

Digital signatures

When designing new products or when making changes to existing products, distribute the ERDO (Engineering Research and Design Order) or the ECO (Engineering Change Order) for approvals. Approvals are user defined and are electronically generated and processed. Total Engineering Change Management tracks the signature approvals along with the engineering changes. Digital signatures in Total Engineering Change Management are compliant to most industry and government standards.

Flexibility in making changes, or designing new

When designing new products or changing existing ones, you can use a mix of existing AX Inventory items or newly created engineering items. Or, "Assume" items, boms, or routes from other engineering projects. Flexibility is key and the process makes it easy to share newly created items, boms, or routes between projects.

Engineering design

The engineering research and design process is simple. Make a request with the form Engineering Research and Design Request. The request is reviewed by a task group and either approved or denied. When approved it is automatically converted into an Engineering Research and Design Order.

The Engineering Research and Design Order is the workplace where you create new items, boms, or routes. You can associate documents, issue task lists and assign revision levels.

Engineering changes

The process to make a change is through the Engineering Change Request. Once the request is approved an Engineering Change Order is created. In this workplace you make changes to items, boms, or routes. Document handling is integrated to relate all drawings or procedures. Each change supports: Revise Existing, New Revision, Create New, or Revise Existing and New Revision. Line changes to routes and boms support: No Change, Update Item, Delete Item, Add Item.

FEATURES

Revision master	<ul style="list-style-type: none">• User defined revision numbers• ECO historical tracking• Change type tracking• Engineering drawing Id numbering• Document handling
Authorizations	<ul style="list-style-type: none">• User defined steps and areas for engineering approvals• Parameter setting to distribute approvals either in, or, out of sequence• Digital signature with authorization required for approval• User and password definitions table• Field to associate user signature
Engineering Standard Procedures (ESP)	<ul style="list-style-type: none">• Compliant to ISO Standard Operating Procedures• Revision control• Automated submittal for approvals• Digital signature for approvals• Revision status: Active, Inactive, Under Construction, Under Revision• Automatic association to Engineering Change Orders and Engineering Research and Design Orders
Engineering desk	<ul style="list-style-type: none">• Electronic or physical document storage• Document check in/check out• Digital signature document check in/check out• Document transaction tracking
Engineering change requests	<ul style="list-style-type: none">• Task group assignments• Document handling• Engineering reason codes• Associations to Customers/Vendors/Internal references• User defined approval sequences with digital signatures
Engineering change orders	<ul style="list-style-type: none">• Task group assignments• Document handling• Make changes to Items, BOMs, or Routes• Change Types: Create New; Revise Existing, New Revision, Revise Existing and New Revision• Build BOMs using existing AX items or new engineering items• Assume Items, Boms, or Routes from other engineering projects• Item, BOMS, and Routes use same functionality as standard AX• User defined approval sequences with digital signatures• Approval based release into AX
Engineering research and design request	<ul style="list-style-type: none">• Task group assignments• Document handling• Engineering reason codes• Associations to Customers/Vendors/Internal references• User defined approval sequences with digital signatures
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For more information about Total Engineering Change Management, visit:
www.ersolutions.biz/ecm.htm

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