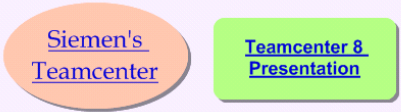
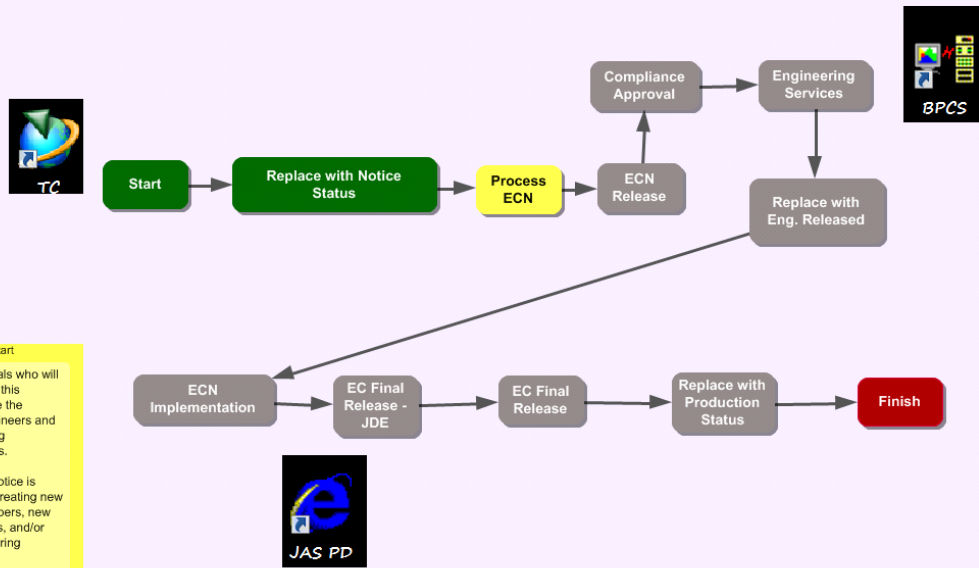
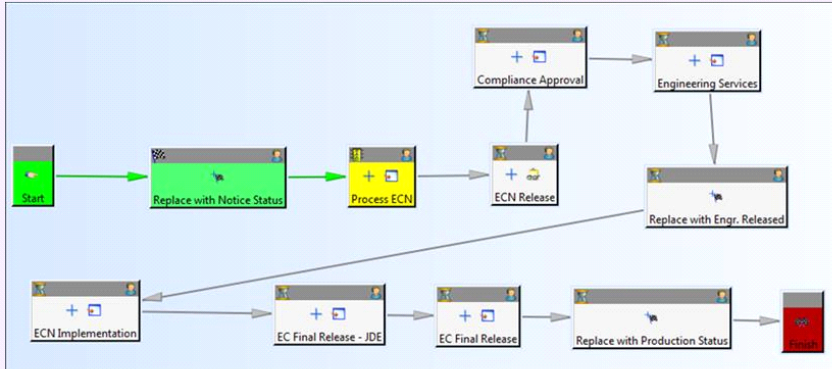


Change Notices in Teamcenter

Cathryn Hennes
 PLM Coordinator - Ridge Tool Company
 ETE 565 - Cleveland State University
 November 17, 2013



Original Workflow from Teamcenter



Start
 The individuals who will typically use this Workflow are the Product Engineers and the Marketing Professionals.
 A Change Notice is used when creating new catalog numbers, new part numbers, and/or new engineering drawings.
 In a Change Notice workflow, the main group of individuals who complete the work in the implementation state will only sign-off on your engineering change notice once. In a Change Revision, those same individuals who complete the work in the implementation stage will sign-off on your engineering change twice. We will discuss this later in the Change Revision workflow.
 Only the Product Engineering Department has the access level to also use this workflow when they are revising catalog numbers, part numbers, and/or engineering drawings so that the sign-off team only needs to see the EC once.
 What is an EC? EC is an acronym for Engineering Change. The manufacturing process to create, revise, and/or obsolete a product and/or its parts.

Process ECN
 Teamcenter sends an email notification to the Product Engineering Group Leader (PEGL) who delegates the EC to one of his engineers who completes the work required by the notice. If work has already been completed by the Marketing Department or Technical Services Department, the engineer confirms all steps have been completed for the engineering change notice. When the engineering work is complete, the engineer approves his/her work is completed, and Teamcenter sends a notification back to the PEGL to approve the work.

ECN Release...
 The PEGL reviews the changes that were documented by the engineer and approves the EC or asks the engineer to fix any errors they see. Once approved, Teamcenter notifies the Compliance Manager who is next, to approve the EC.

Compliance...
 The Compliance Manager reviews each of the items designated on the EC. These items could be new parts, new products, documentation, etc. His review deals with the electrical aspects of the products/parts. Due to the nature of our products being sold globally, there are multiple country regulations regarding items like Lithium-Ion Batteries, Chargers, or anything of an electrical nature. All of the items need to be in compliance for import/export issues. Once approved, the EC moves to the PLM Coordinator.

Engineering Se...
 The PLM Coordinator reviews the EC and processes the work requested from Teamcenter into BPCS. This is the only point where a manual process occurs. Once the PLM Coordinator completes the work, Teamcenter processes the EC, changing the status to Engineering Released. At this point, a large team of approvers are notified that the EC is ready for them to complete their work.

ECN Imple...
 All of the different groups/people receive notifications that work needs to be completed for a specific EC. Departments who may receive this notification: Customer Service, Tech Service, Purchasing Quality Assurance, Manufacturing Engineering (only for internally made items), Production Control, Marketing, Product Engineering. Other departments can be added depending on the product being revised, as well as other locations such as Shanghai, China (RTS), Cluj, Romania (RTR), Mumbai, India (EDIC). Once ALL of the work has been completed in this step, the EC will forward to the JD Edwards specialist who reviews the items in that software.

EC Final Rele...
 The Global Pricing Analyst receives the EC for review and work. For new products, this person is looking for list pricing information from the Marketing Department where they price the product globally (where does the product globally) and makes the product active for customers to purchase through Distributors, Home Depot, or Ridge Tool Customer Service. Once completed, Teamcenter notifies the PLM Coordinator the EC is ready for Final Review and release to Production.

EC Final R...
 The PLM Coordinator receives an email notification that the EC is ready for Final Release. This person reprocesses the EC as noted in Step 4 in the Workflow. If ANY item has not been completed, the EC is not approved until the work has been completed. Once everything has been completed and is accurate, the PLM Coordinator approves the EC. Teamcenter closes out the process and finalizes the EC for Production.

The individuals who will typically use this Workflow are the Product Engineers and the Marketing

Professionals.

A Change Notice is used when creating new catalog numbers, new part numbers, and/or new engineering drawings.

In a Change Notice workflow, the main group of individuals who complete the work in the implementation state will only sign-off on your engineering change notice once. In a Change Revision, those same individuals who complete the work in the implementation stage will sign-off on your engineering change twice. We will discuss this later in the Change Revision workflow.

Only the Product Engineering Department has the access level to also use this workflow when they are revising catalog numbers, part numbers, and/or engineering drawings so that the sign-off team only needs to see the EC once.

What is an EC? EC is an acronym for Engineering Change. The manufacturing process to create, revise, and/or obsolete a product and/or its parts.

There is NO set timeframe for any EC to complete. They can complete as quickly as a week to over a year, depending on the product.

Replace with Notice Status

Process ECN

Teamcenter sends an email notification to the Product Engineering Group Leader (PEGL) who delegates the EC to one of his engineers who completes the work required by the notice. If work has already been completed by the Marketing Department or Technical Services Department, the engineer confirms all steps have been completed for the engineering change notice. When the engineering work is complete, the engineer approves his/her work is completed, and Teamcenter sends a notification back to the PEGL to approve the work.

ECN Release

The PEGL reviews the changes that were documented by the engineer and approves the EC or asks the engineer to fix any errors they see. Once approved, Teamcenter notifies the Compliance Manager who is next, to approve the EC.

Compliance Approval

The Compliance Manager reviews each of the items designated on the EC. These items could be new parts, new products, documentation, etc. His review deals with the electrical aspects of the products/parts. Due to the

nature of our products being sold globally, there are multiple country regulations regarding items like Lithium-Ion Batteries, Chargers, or anything of an electrical nature. All of the items need to be in compliance for import/export issues. Once approved, the EC moves to the PLM Coordinator.

Engineering Services

The PLM Coordinator reviews the EC and processes the work requested from Teamcenter into BPCS. This is the only point where a manual process occurs. Once the PLM Coordinator completes the work, Teamcenter processes the EC, changing the status to Engineering Released. At this point, a large team of approvers are notified that the EC is ready for them to complete their work.

Replace with Eng. Released

ECN Implementation

All of the different groups/people receive notifications that work needs to be completed for a specific EC. Departments who may receive this notification: Customer Service, Tech Service, Purchasing Quality Assurance, Manufacturing Engineering (only for internally made items), Cost Accounting, Manufacturing (only for internally made items), Production Control, Marketing, Product Engineering. Other departments can be added depending on the product being revised, as well as other locations such as Shanghai, China (RTS), Cluj, Romania (RTR), Mumbai, India (EDIC). Once ALL of the work has been completed in this step, the EC will forward to the JD Edwards specialist who reviews the items in that software.

EC Final Release - JDE

The Global Pricing Analyst receives the EC for review and work. For new products, this person is looking for list pricing information from the Marketing Department where they price the product globally (where does the Product Manager wish to sell the product globally) and makes the product active for customers to purchase through Distributors, Home Depot, or Ridge Tool Customer Service. Once completed, Teamcenter notifies the PLM Coordinator the EC is ready for Final Review and release to Production.

EC Final Release

The PLM Coordinator receives an email notification that the EC is ready for Final Release. This person reprocesses the EC as noted in Step 4 in the Workflow. If ANY item has not been completed, the EC is not approved until the work has been completed. Once everything has been completed and is accurate, the PLM Coordinator approves the EC. Teamcenter closes out the process and finalizes the EC for Production.

Replace with Production Status

Finish

Change Notices in Teamcenter

Original Workflow from Teamcenter

[Siemen's Teamcenter](#)

[Teamcenter 8 Presentation](#)

Cathryn Hennes

PLM Coordinator - Ridge Tool Company

ETE 565 - Cleveland State University

November 17, 2013