Autodesk® Vault Professional: You Got It—Now What?

Brian Verboort - M2 Technologies, Inc.

PL2915 Whether you have had Autodesk Vault Professional software for a while and aren't using it to its full potential or you just got Vault Professional through a recent purchase or upgrade—let's put it to use. We cover practical workflows, including when to use (and when not to use) categories, items, change orders, change order routings, and lifecycle states.

Learning Objectives

At the end of this class, you will be able to:

- · Identify the Benefits of Vault Professional
- Upgrade existing Vault Installation
- Plan Practical Workflows for Vault Professional
- Configure Vault Professional Functions & Workflows

About the Speaker

As Director of Solution Engineers at M2, Brian is responsible for managing and direction of the technical team providing technical support to M2 customers, helping to solve their most complex design challenges. His duties include developing software customization's to meet customers' workflow requirements, providing Tech Support for all Autodesk Manufacturing products and facilitating training of all supported software.

Brian has extensive experience providing consulting services, facilitating on-site product demonstrations, performing engineering and manufacturing department process analysis, as well as providing product training, implementation and technical support.

Brian is an Autodesk Authorized Consultant (AAC) and an Autodesk Inventor Certified Expert (ICE) and an Autodesk Certified Instructor (ACI) and contributed to creation of The Autodesk Inventor Essentials Plus by Delmar Learning. Brian has been invited numerous times to present at Autodesk University.

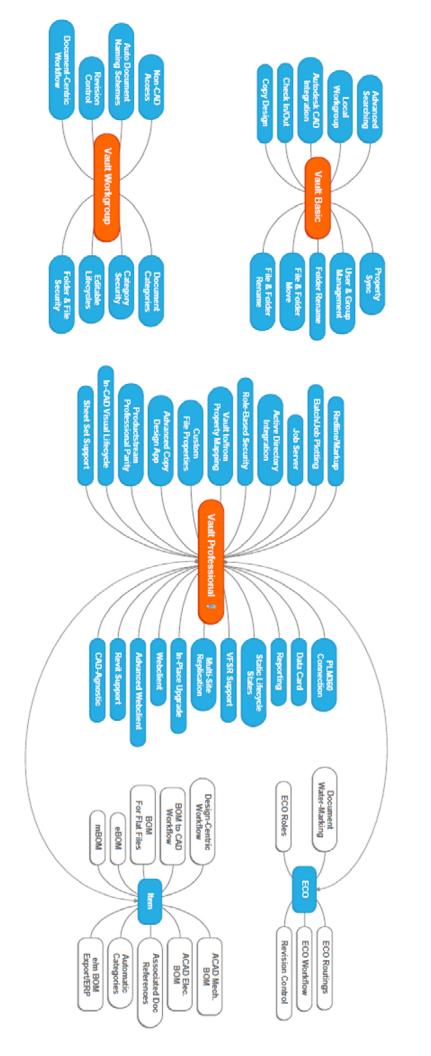
#BRIANVERBOORT

http://www.linkedin.com/profile/view?id=4103886

Functional Benefits of Vault Professional

Table 1: Vault Family Functional Matrix

Feature	Autodesk° Vault Basic	Autodesk [®] Vault Workgroup	Autodesk° Vault Professional
Autodesk CAD Integration	V	V	V
File Management Tools	V	V	V
Single Workgroup	V	V	V
Fast Searching	V	V	V
Data Reuse Tools	V	V	V
File Revision Control and Lifecycles		~	V
Automatic File Naming		V	V
Access for Non-CAD Users		V	V
File and Folder Security		V	V
Reporting		V	V
Server Based DWF Publishing		V	V
Multi-Site Replication			V
'Query, View, and Print' Web Client			V
Custom Objects			V
Bill of Material Management			V
Engineering Change Management			~
PLM 360 Integration			V
Coexist with Enterprise Business Systems			V

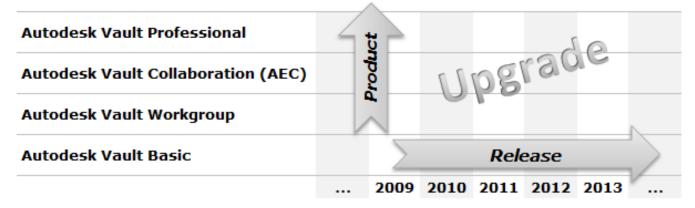


Upgrade Existing Vault Installation

In-Place Upgrade Process

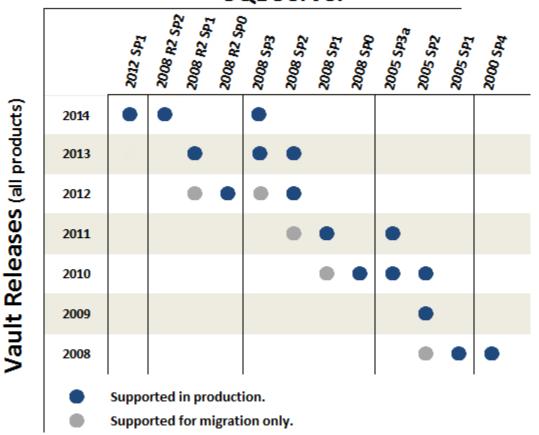


Do I qualify for In-Place Upgrade?



What about MS SQL?

SQL Server



See the documentation for each release of Vault for details about supported SQL products.

The absolute best upgrade resource is found here...

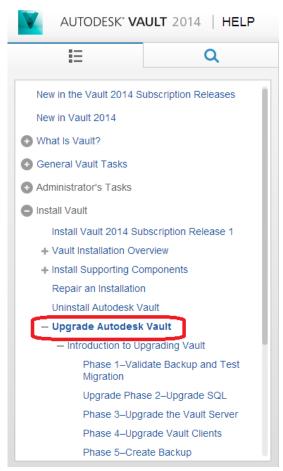


Figure 1: Best Upgrade Resource

http://help.autodesk.com/cloudhelp/2014/ENU/Vault/files/GUID-F7C93287-98E9-4950-93A0-E7A3BC96181E.htm

Tuning the User Interface pre-rollout

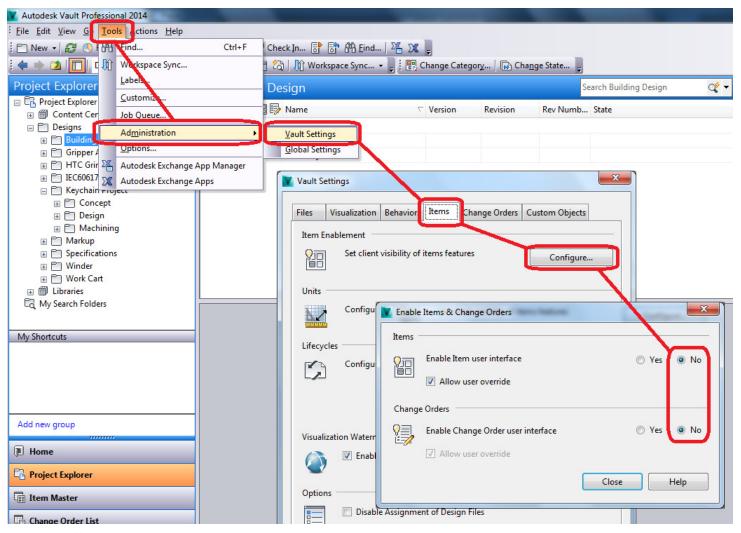


Figure 2: Disable ECO & Item UI

Plan Practical Workflows for Vault Professional

Release & Revision & BOM Management Scenarios

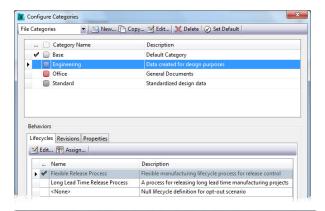
1). Document-Centric: Lifecycles Using Categories
Existing Vault Collaboration method.
Release accomplished on a file-by-file basis

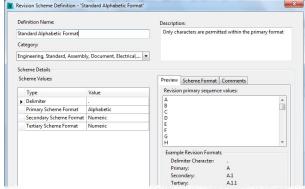
- 2). Document-Centric: Lifecycles + ECO Workflow
 Same as above, plus ECO routing, signoffs notifications & approval.
- 3). Document-Centric: Item(s) + ECO Workflow
 Above with Items assigned to document(s)
- 4). Design-Centric Item Lifecycles

 Design BOM with Item-specific lifecycle states
- 5). Design-Centric Item Lifecycles + ECO Workflow

 Design BOM with Items, ECO routing, signoffs notifications & approval.

• What's a Category?



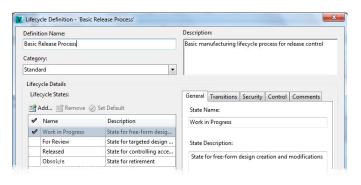


What's A Revision Scheme?

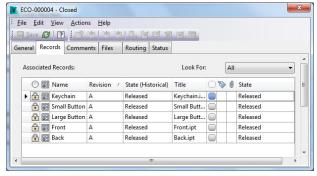


What Is a Numbering Scheme?

What's a Lifecycle?



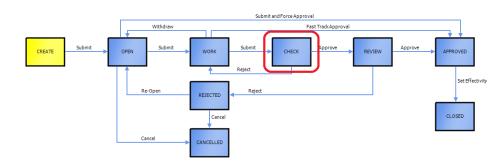
What's an ECO?



Withdraw

Cancel

• What's an ECO Routing/State?



Submit and Force Approval

Cancel

CANCELLED

Fast TrackApproval

What's an Item?



BOM Management Scenarios

1). Flat Files: Many files in 1 Finished Good Item

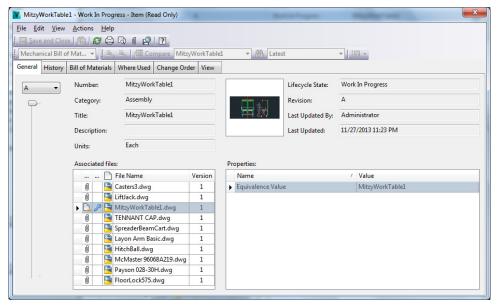


Figure 3: Many Files in One Item (file List)

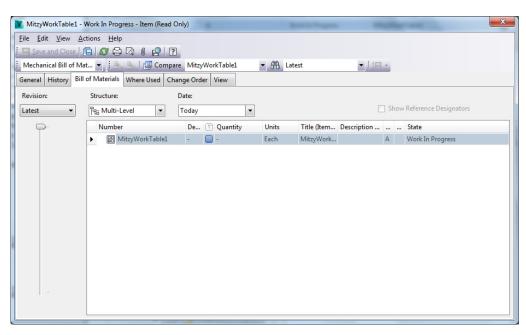


Figure 4: Many Files in One Item (BOM List)

2). Flat Files: One Item for each file + Finished Good Item

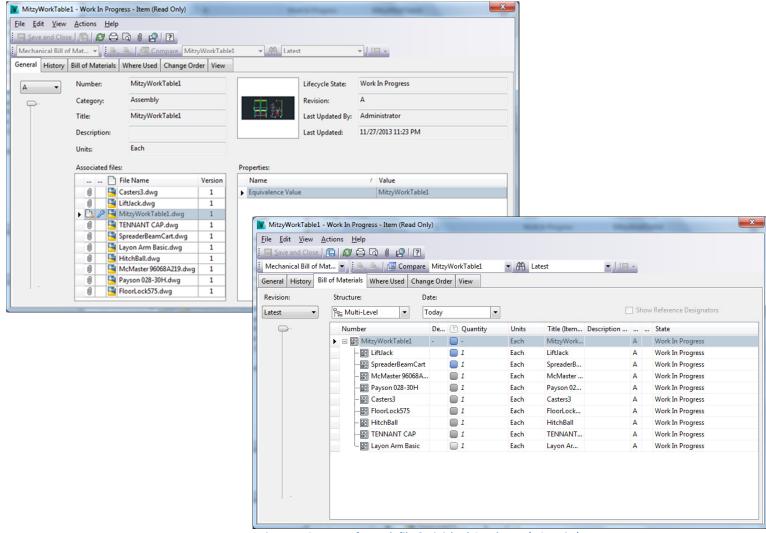


Figure 5: One Item for each file & Finished Good Item (BOM List)

3). Engineering BOM Items + MFG BOM Items

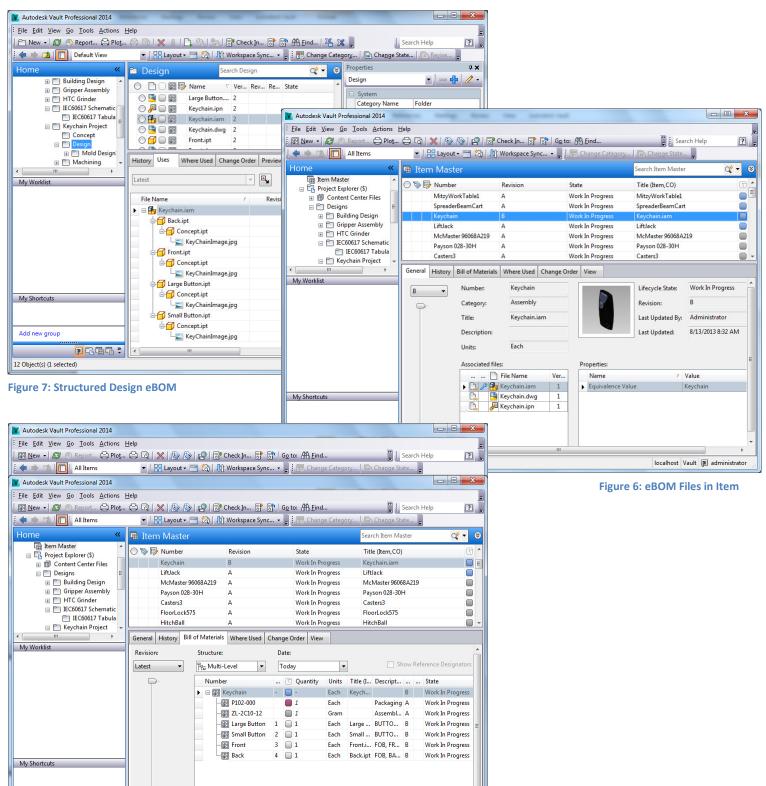
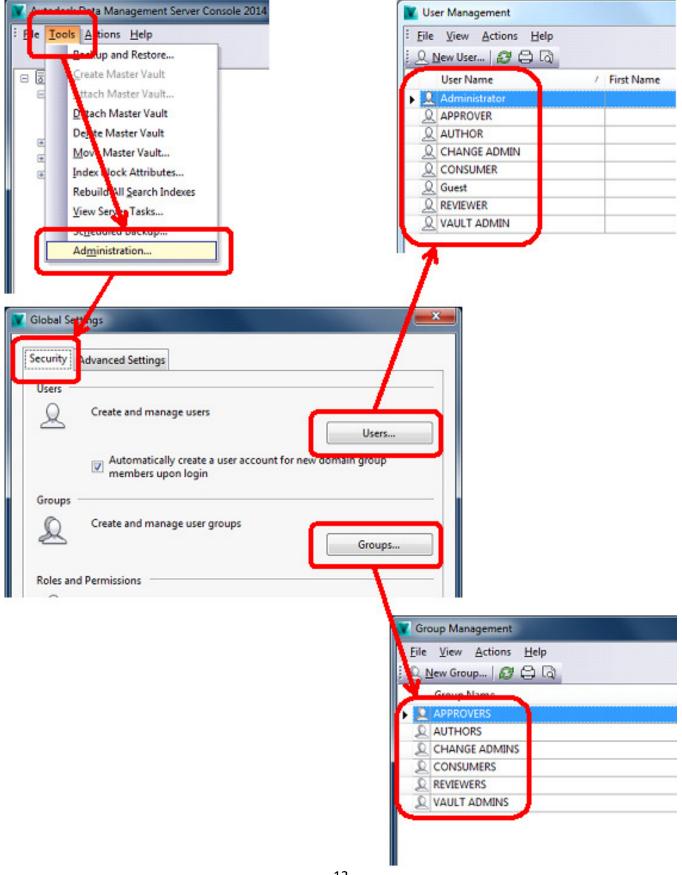


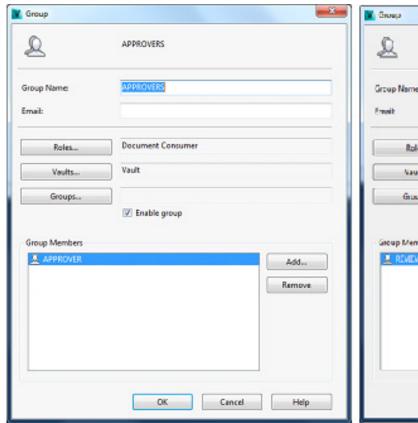
Figure 8: eBOM and mBOM in Item

Configure Vault Professional Functions & Workflows

Creation of Users and Groups to support ECO Process



Adding Users to Groups



Enable

Group Name

Biblish

Bolds

Document Boltor (Level 1], Item Reviewer, Change Order Etit

Nauts

Vault

Groups

Enable group

Group Membars

Reviewer

Add.

Remove

Figure 1: APPROVERS Group

Figure 2: REVIEWERS Group

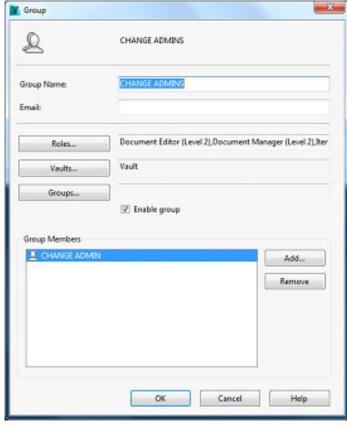


Figure 3: CHANGE ADMINS Group

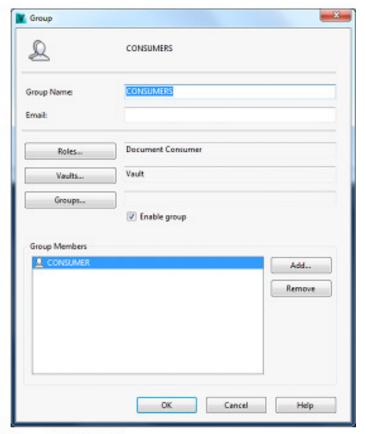
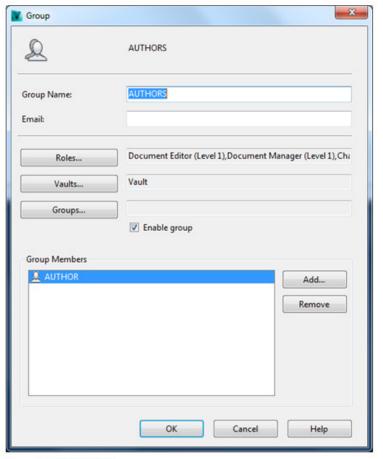


Figure 4: CONSUMERS Group

Adding Users to Groups Cont...



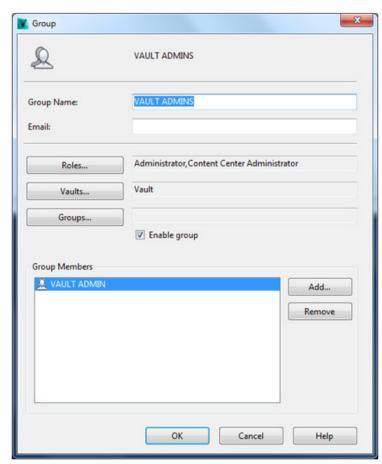


Figure 5: AUTHORS Group

Figure 6: VAULT ADMINS Group

GROUP NAME	"TEMPLATE" USER NAME	VAULT USER ROLE(S)	ECO ROLE(S)
VAULT-	Vault-Admin	Administrator, Content	
ADMINS	vauit-Admin	Center Administrator	
		Change Order Editor (Level 2)	
		Document Editor (Level 2)	Approver
CHANGE-	Change-Admin	Document Manager (Level 2)	Change Administrator
ADMINS	Change-Admin	ERP Manager	Notification User
		Item Editor (Level 2)	Change Requestor
		Item Reviewer	
AUTHORS	Author	Change Order Editor (Level 1) Document Editor (Level 1) Document Manager (Level 1) Item Editor (Level 2) Item Reviewer	Responsible Engineer Reviewer Notification User Change Requestor
APPROVERS	Approver	Change Order Editor (Level 1) Item Reviewer	Approver Reviewer Notification User Change Requestor
REVIEWERS	Reviewer	Change Order Editor (Level 1) Item Reviewer	Approver Reviewer Notification User
CONSUMERS	Consumer	Document Consumer	Change Requestor
CONSOINERS	Consumer	Document Consumer	

Figure 9: Groups, Users, Vault & ECO Roles

Create ECO Numbering Scheme

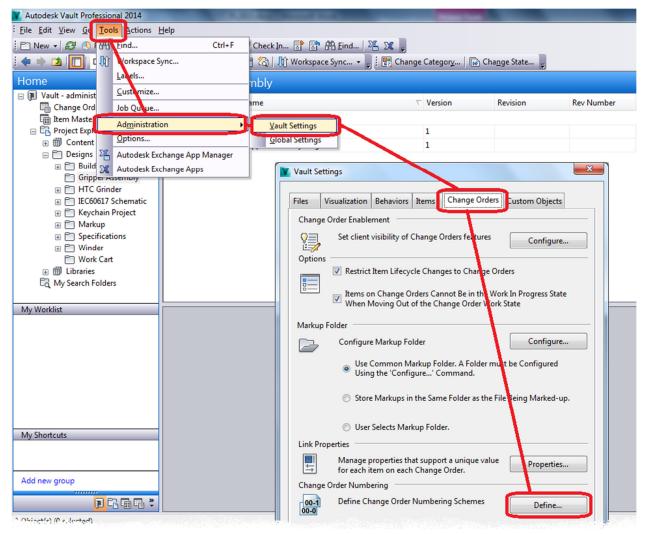


Figure 10: Define a New ECO Numbering Scheme

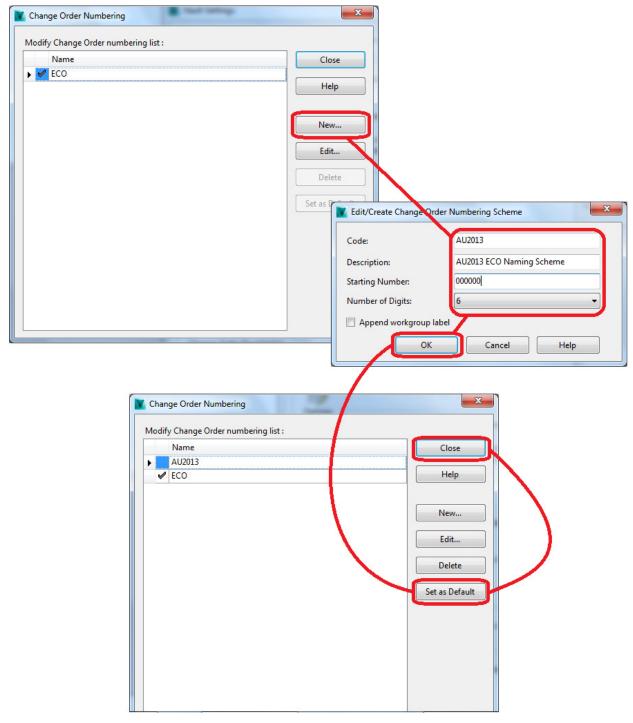


Figure 11: Configure a New ECO Numbering Scheme

Configure ECO Behaviors

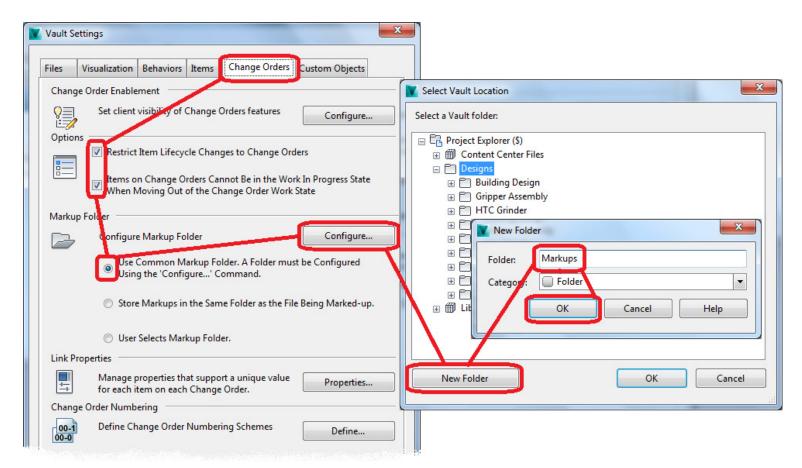
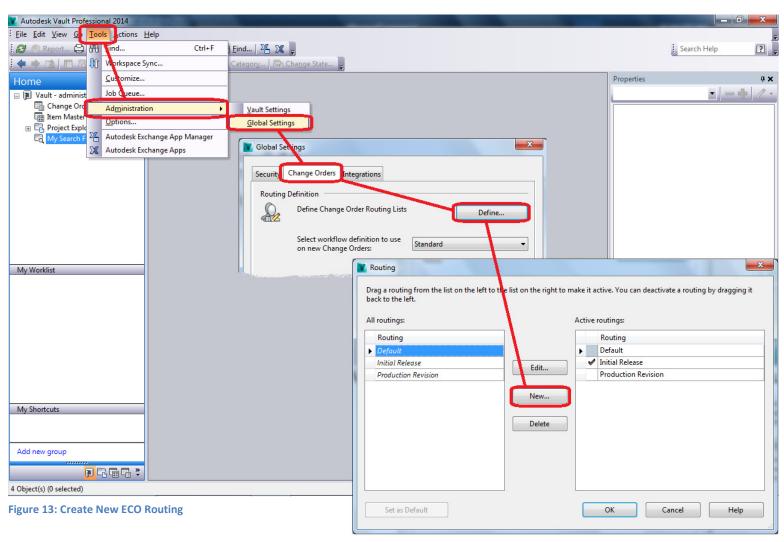


Figure 12: ECO Behaviors & Configure Markup Folder

Create ECO Routing



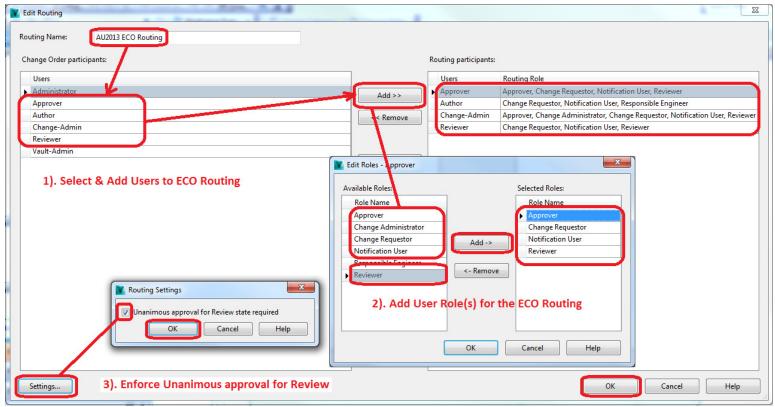


Figure 14: Add Users & Assign ECO Roles

GROUP NAME	"TEMPLATE" USER NAME	VAULT USER ROLE(S)	ECO ROLE(S)
VAULT-	Vault-Admin	Administrator, Content	
ADMINS	vadic / tarriir	Center Administrator	
CHANGE- ADMINS	Change-Admin	Change Order Editor (Level 2) Document Editor (Level 2) Document Manager (Level 2) ERP Manager Item Editor (Level 2) Item Reviewer	Approver Change Administrator Notification User Change Requestor
AUTHORS	Author	Change Order Editor (Level 1) Document Editor (Level 1) Document Manager (Level 1) Item Editor (Level 2) Item Reviewer	Responsible Engineer Reviewer Notification User Change Requestor
APPROVERS	Approver	Change Order Editor (Level 1) Item Reviewer	Approver Reviewer Notification User Change Requestor
REVIEWERS	Reviewer	Change Order Editor (Level 1) Item Reviewer	Approver Reviewer Notification User Change Requestor
CONSUMERS	Consumer	Document Consumer	

Figure 15: Groups, Users, Vault & ECO Roles

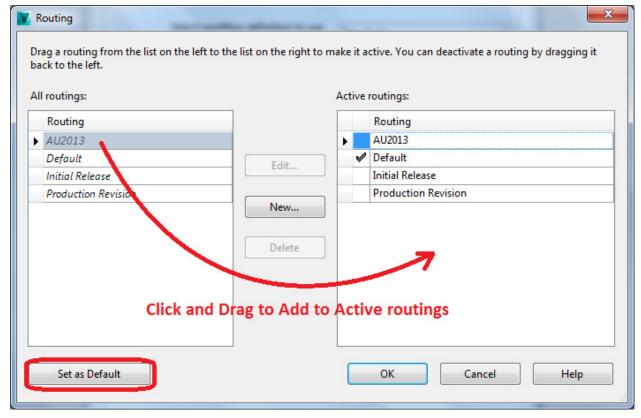


Figure 16: Add ECO Routing to Active and Set Default

Create Item(s)

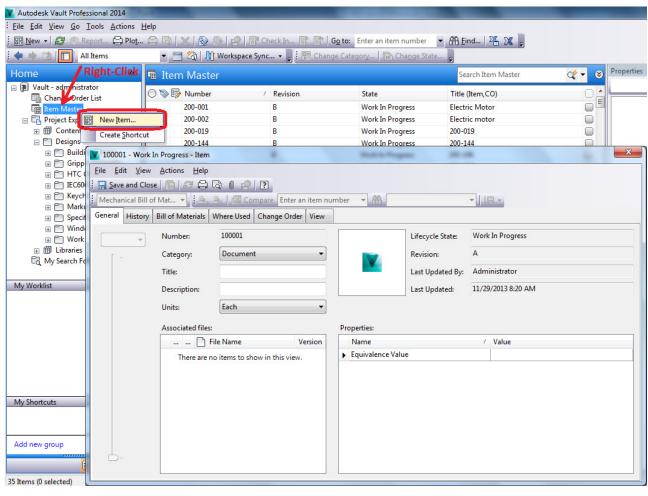


Figure 18: Creating a Empty Item

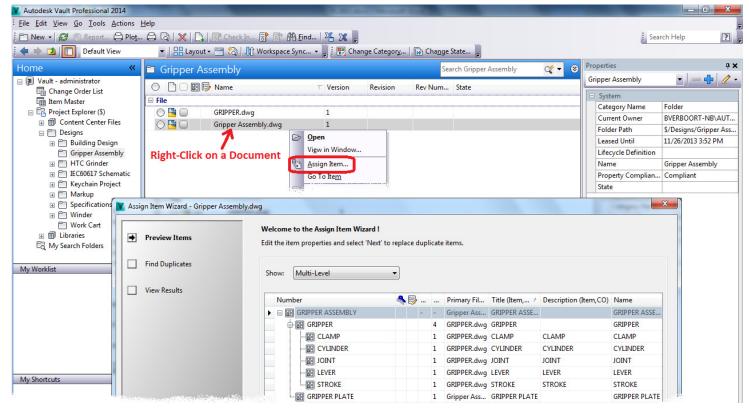


Figure 17: Assigning an Item to Document(s)

Create ECO For Files

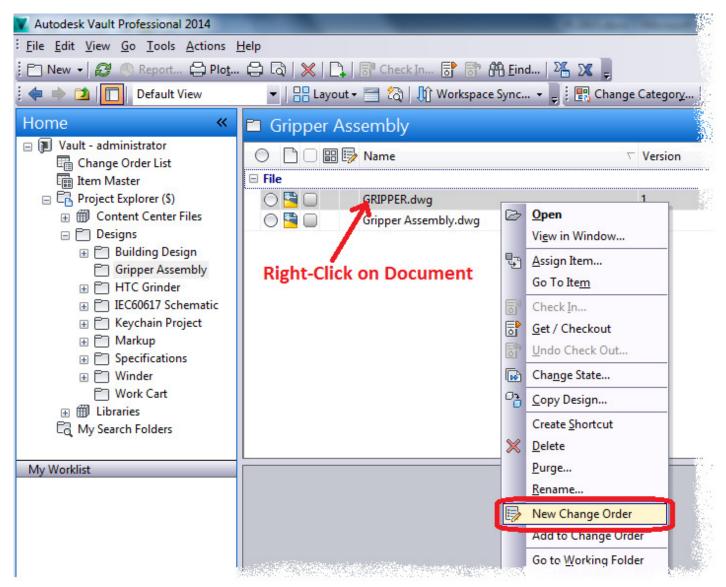


Figure 19: New ECO from Document

Create ECO For Items

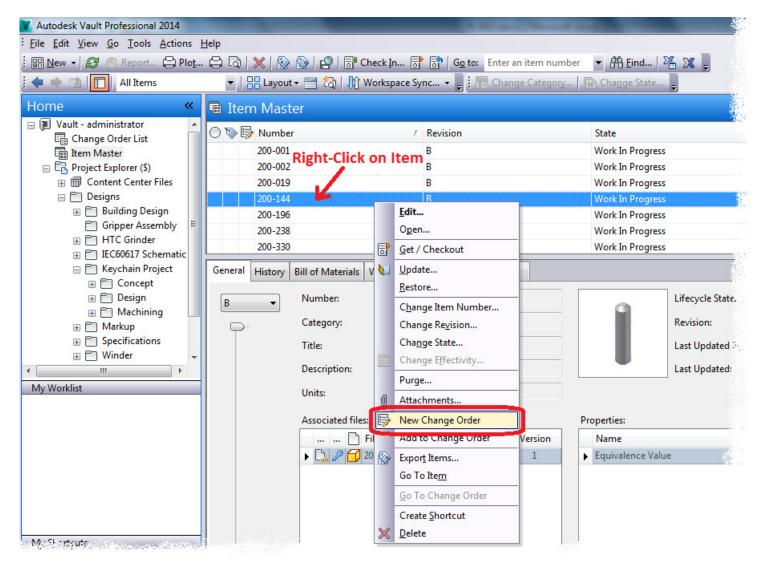


Figure 20: New ECO from Item