

# Software Release Process

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V1.0

## Contents

<b>1</b>	<b>Initial Release</b>	<b>2</b>
1.1	TortoiseSVN . . . . .	2
1.1.1	Check In Code . . . . .	2
1.1.2	Create Tag . . . . .	3
1.1.3	Release . . . . .	4
1.2	SmarTeam . . . . .	4
1.2.1	Updating Files . . . . .	5
1.2.2	Submitting an ECO . . . . .	7
<b>2</b>	<b>ECO Kickback</b>	<b>10</b>

# 1 Initial Release

## 1.1 TortoiseSVN

### 1.1.1 Check In Code

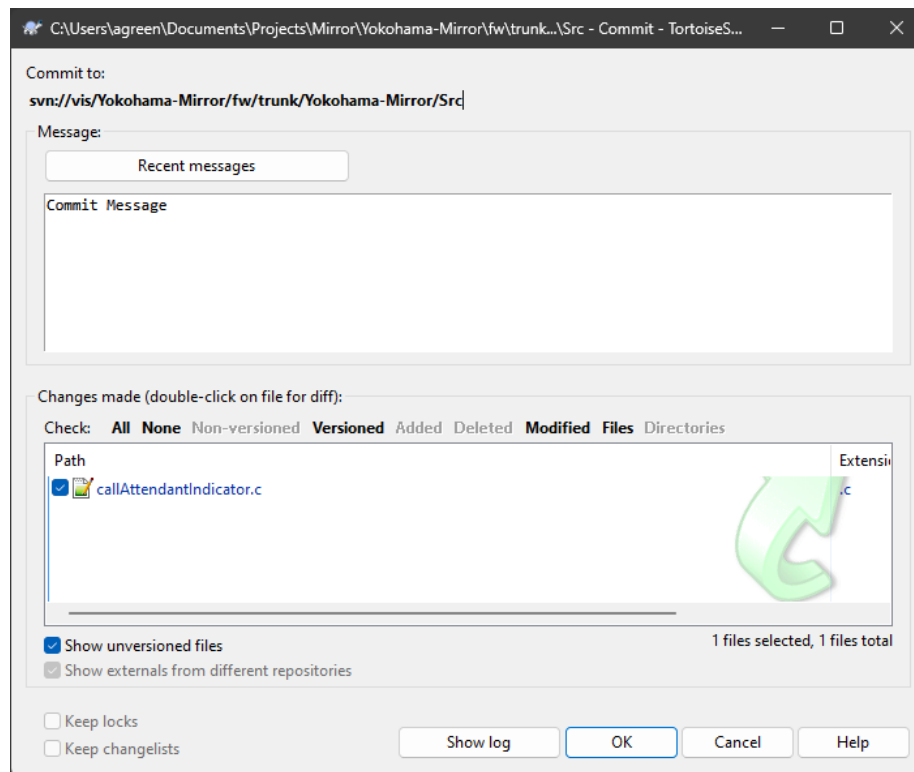
Checking in code in Tortoise SVN is relatively simple. You can tell that code is modified and needs to be checked in based on the green check mark turning into a red exclamation point.



To check in, right click in the folder and select *SVN Commit....* Changes will be shown in the current folder and any sub-folders. Therefore selecting *SVN Commit...* in the uppermost folder (folder with `.svn` inside of it) will show all changes, but doing it in a folder with no sub-folders will only show changes in that folder. I believe it is a good idea to do the highest folder in the hierarchy, but if you only want to check in code at that moment, doing it in the *trunk* directory will suffice.



The files to be committed will be in the bottom portion of the window, selecting the check box will indicate you wish to commit them. You can double click on the files to bring up a diff between the current and previous versions of the file. When you are ready, type a description of the commit in the upper window and click OK.

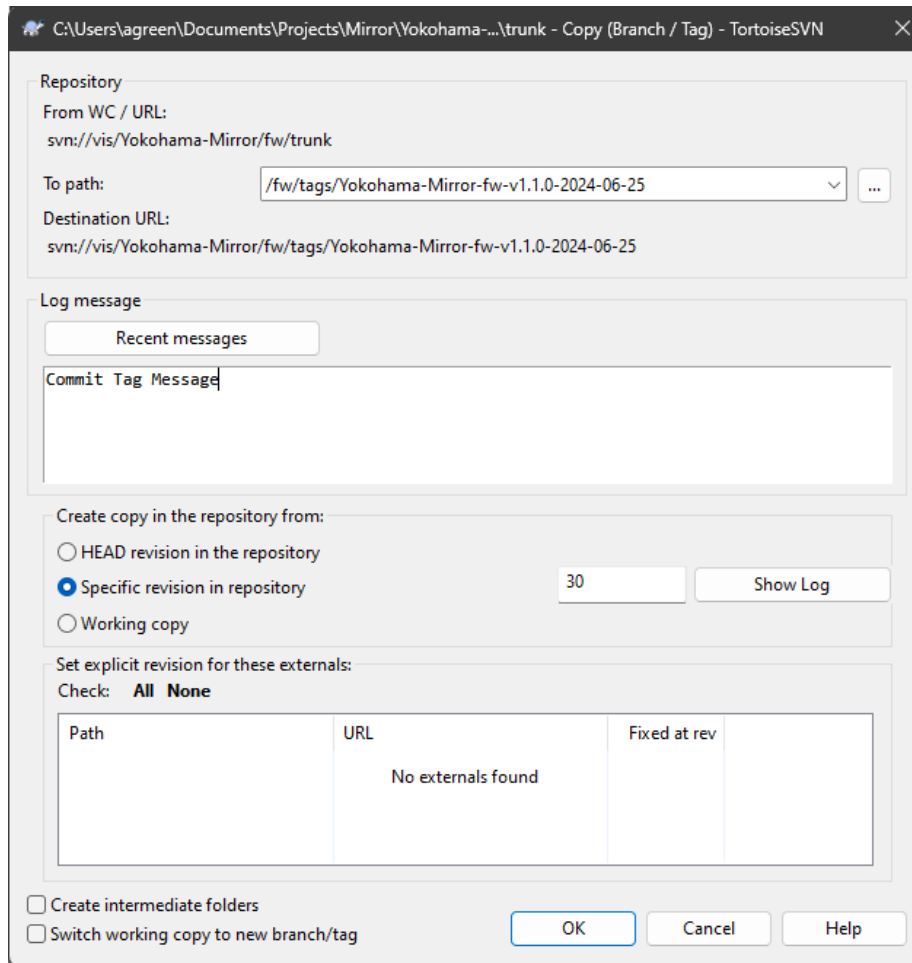


### 1.1.2 Create Tag

To create a tag, go to into the trunk directory and right click and select *TortoiseSVN->Branch/tag....*



The *To path:* on the top is where to create the tag. This should be in a folder in the *tags* folder with the <project>-<version>-<date> format. In the *Log message* section, write a message associated with this tag. And finally, you can click *Show Log* to select the version you want to include in this tag. Click OK when finished.



### 1.1.3 Release

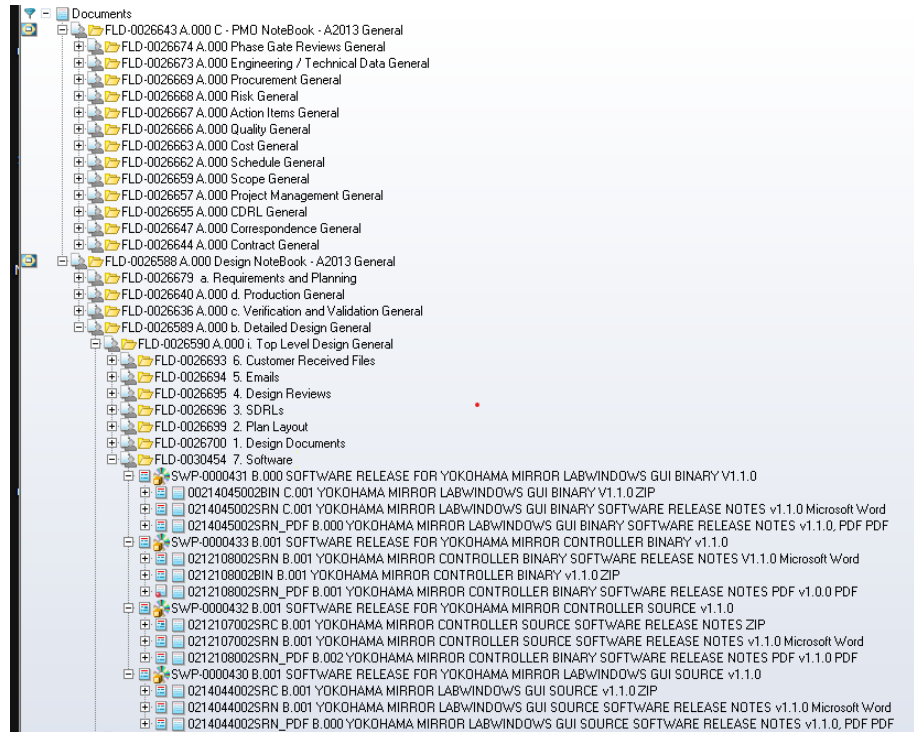
To release software, create a folder in the *releases* folder with the *Release\_<version number>* format. In this folder, create *bin* and *src* folders. Inside each of these folders should be a .zip file (of output files in *bin* and source files in *src*), a *Software Release Notes* word document, and a PDF of this document. Commit this folder to SVN using the above steps when you finish with this folder.

## 1.2 SmarTeam

Note: It is important to have all documents filled out in the way that they should be submitted before submitting an ECO, because any edits to the files will kick back the ECO to you. See the *ECO Kickback* section for information about this.

### 1.2.1 Updating Files

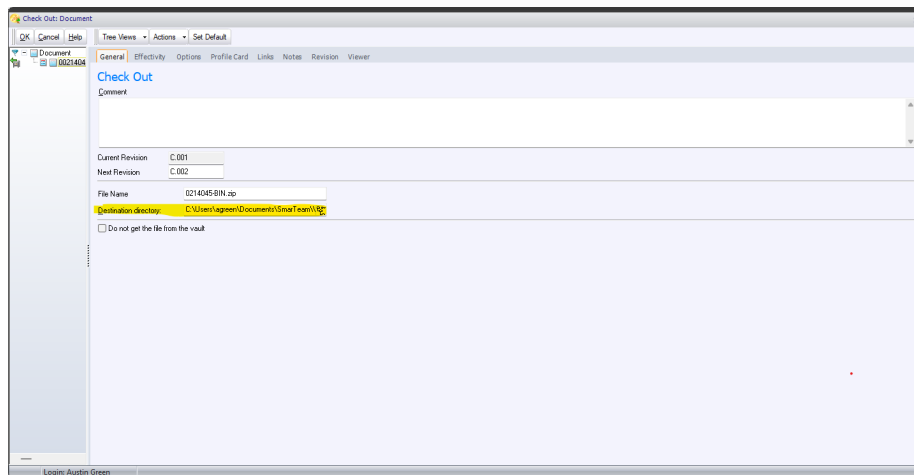
SmarTeam is a bit tricky to get right the first time, so follow these steps carefully. First, in SmarTeam, navigate to your project, then the files you wish to update (*Design NoteBook->Detailed Design General->Top Level Design General->Software*).



Next, right click on the *SWP* (Software Package) and select *Life Cycle->Check Out*. If this does not exist, you will need to right click on the *Software* folder and select *Add->Design->Software Package* and fill out the information.



Next, right click and select *Life Cycle->Check Out* any files below the *SWP* you are changing, paying attention to the *Destination directory:* field. This is where SmarTeam will place the documents. Click OK when you select the destination.



If the file does not already exist in SmarTeam, right click on the *SWP* and select *Add->Document* and fill out the information similar to the other documents.

Next, using Windows Explorer, navigate to the folder you selected as the destination directory and replace the checked out files with the ones you created in the *releases* folder above.

Next, back in SmarTeam, update the file similar to the way you updated the *SWP* above by right clicking the file and selecting *Update*. You will need to update the *ID* and *PART NUMBER* by incrementing the slash number and update the *DESCRIPTION* and *COMMENTS* on the right to reflect the new version number.

Finally, right click and select *Life Cycle->Check In* when you are done. Add a description of the change and select *OK*.

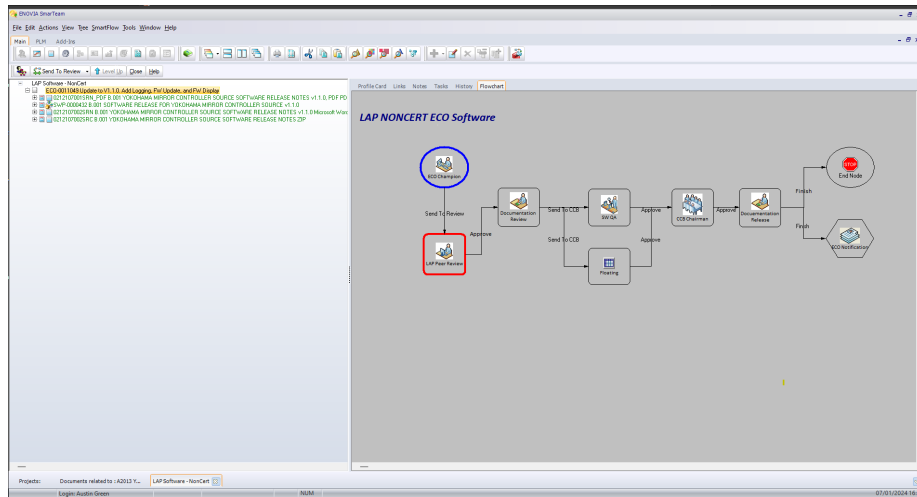
### 1.2.2 Submitting an ECO

There should be one ECO submitted per SWP. When you are done updating all of the files in an SWP and any files with the same *Part Number*, right click on the SWP and select *Initiate Process->LAP ECO-LAP Software - Cert/NonCert* depending on if this needs to be certified or not. Ask for guidance if you are unsure.





Next, select the *Flowchart* tab at the top. Right click the *LAP Peer Review* box and select *Executors*. From here click *Add New...* and add an people that you wish to review or see the the ECO by clicking the *To->* or *Cc->* buttons respectively.



The 'Select Names' dialog box is shown. It has a text input field at the top for 'Type Name or select from list :'. Below this is a 'Users/Group list' table with columns for 'First name' and 'Last Name'. The table lists several users, including Admin, SW\_Designer, Takis, Testing, Lead, Mark, MRat, Nathan, Smart, Mitra, Larry, and Jaime. To the right of this list are buttons for 'To ->', 'Remove...', 'Cc ->', and 'Remove'. On the far right, there are two 'Message Recipients' tables. The top table shows 'U Nicholas Nganga' and 'U Mark Lane' added as recipients. The bottom table shows 'U Jeff Good' and 'U Lisa Gregory'. At the bottom of the dialog are 'OK', 'Cancel', and 'Help' buttons.

	First name	Last Name
<input type="checkbox"/>	U	Admin
<input type="checkbox"/>	U	SW_Designer
<input type="checkbox"/>	U	Takis Eleftheric
<input type="checkbox"/>	U	Testing Eng
<input type="checkbox"/>	U	Lead Des
<input type="checkbox"/>	U	Mark Pfeiffer
<input type="checkbox"/>	U	MRat Admin
<input type="checkbox"/>	U	Nathan Boe
<input type="checkbox"/>	U	Smart Team Ac
<input type="checkbox"/>	U	Mitra Singh
<input type="checkbox"/>	U	Larry Saunder
<input type="checkbox"/>	U	Jaime Castilleg

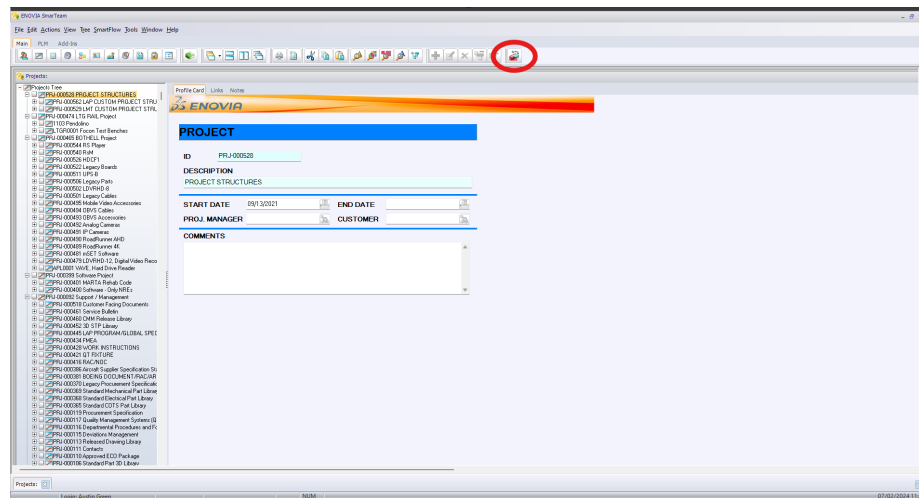
	First name	Last Name
<input type="checkbox"/>	U	Nicholas Nganga
<input type="checkbox"/>	U	Mark Lane

	First name	Last Name
<input type="checkbox"/>	U	Jeff Good
<input type="checkbox"/>	U	Lisa Gregory

When you are finished, select the *Send To Review* button in the top left and click *OK*. This will pull up an Outlook email which you can go ahead and send. You have now submitted an ECO!

## 2 ECO Kickback

If an ECO is kicked back to you (rejected) it will show up in your SmarTeam inbox.



If you double click on the message, it will open up the ECO. Resubmitting the ECO is easy, all the files you submitted are already in there, so if you need to change any go through the same Checkout-Checkin process listed above. Likewise, if you need to add more files, go through the Add files process listed above. Any modified and checked in files should automatically be reflected in the ECO. All you need to do from here is double check that the documents in the ECO are correct, and if not replace them. From there click the *Send To Review* button again.