

Assembla & TortoiseSVN

for FRC team file management

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Paul Fossenier
Steven Lao

TEAM 3161



- This paper focuses on the use of the free Assembla SVN service in conjunction with the TortoiseSVN windows client. The described methods can be used for design, CAD, code, etcetera.
- Perfect for FRC!
- 3161 has been using it largely for CAD work and design, especially during the off season. It has allowed a number of people to work on the same project at their leisure, on their own machines. In addition, it has allowed remote mentors to continue to contribute.



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Remove Email Alerts

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Assembla vs. Dropbox

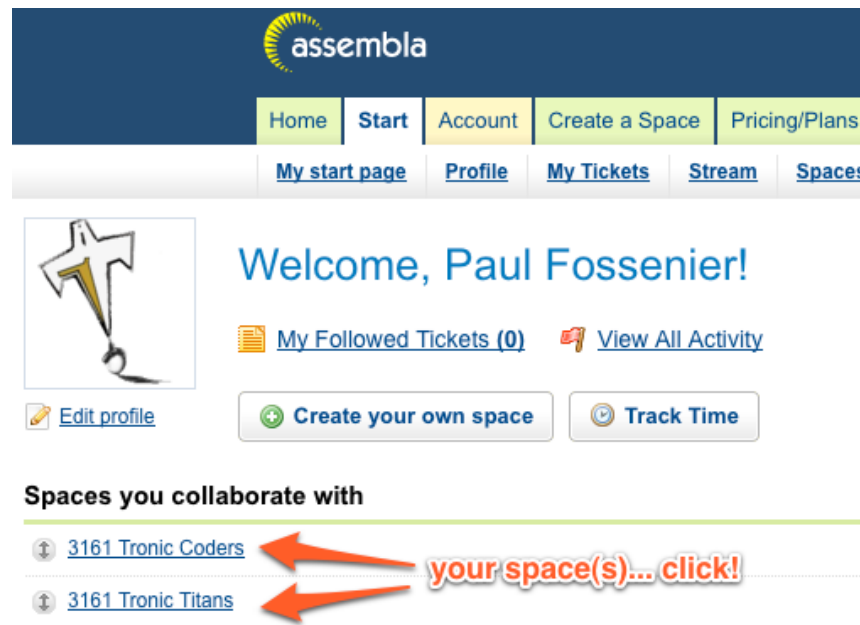
- Dropbox is used effectively by many FRC teams for file sharing and project management and work.
- Assembla shines with multiple users collaborating on a single project, with common files (CAD projects, code, etc)
- Free, 2GB of storage (per 'space')
- SVN = Subversion. Multiple copies of files kept, ability to roll back.
- Changes published

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Make a Space

- assembla.com → create a space → Free Subversion Repository
- Register, name and create your space



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Assembla


3161 Tronic Titans






Source/SVN Team Stream Admin Tickets Add a server Wiki Management

Browse source Changesets Forks Sites Instructions Import/Export Settings

svn url https://subversion.assembla.com/svn/3161_T  Use

 [root](#)

 Author: [AMF10](#) Revision: [81](#) («[Previous](#)»)
(Nov 01 17:01) 2 days ago

| Name | Date | Rev. | Commit message |
|--|-------------|--------------------|---|
|  Battery Cart | Mon, Nov 01 | 80 | [Luke Franceschini] |
|  RLP chassis | Sat, Oct 30 | 78 | [dangiles] |
|  Sheet Metal Chassis | Fri, Oct 08 | 17 | [Paul Fossenier] |
|  Chain length calculator.xls | Thu, Oct 14 | 40 | [stevenlao] Included note to change pitch length (for 35 chain) |
|  Sheet Metal Cutout Options.bmp | Fri, Oct 15 | 48 | [Luke Franceschini] |

'svn url' - access url for tortoise

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Invite & Promote Users

- Go into the “team” tab. On the right, start inviting members by email
- Once they have confirmed, click the green arrow to give them, ‘member’ or ‘owner’ permissions (unless you just want them to be a ‘watcher’).

The screenshot displays the Assembla team management interface. On the left, a table lists team members with their roles and permissions. The third member's role is highlighted with a red circle and an arrow pointing to it, with the text "promote here" below. On the right, there is a form titled "Invite multiple members by e-mail" with a text input field containing "invite here" and an "Invite" button. Below the form, there is a section titled "To add or invite team members" with instructions on how to search for and add users.

| | | |
|---------|----------|-------|
| Edit... | ✓ Member | ↑ ↓ - |
| Edit... | ✓ Member | ↑ ↓ - |
| Edit... | ✓ Member | ↑ ↓ - |

To add or invite team members

Search in the **Add Team Members** box by login name or e-mail address.

If the user is already in the database, you will have the option to select **Add** from the result list.

If you do not find the user in the database, please search by e-mail address. If the user is not found by e-mail address, you will have the option to **invite** the user. Select

Invite multiple members by e-mail

invite here

Enter e-mail addresses separated by commas. If the e-mail you have entered matches an existing user, he will be added automatically.

Invite



Tortoise

- Great! Assembla is setup and ready to go.
- Assembla does all the heavy lifting (hosting the files)
- Tortoise is the desktop client we use to easily access, change, and update our files.
- Tortoise makes it easier to use SVN by providing a graphical user interface. (command line isn't for everyone!)



Installation

- <http://tortoisesvn.net/downloads>
- 32 and 64 bit flavours available, windows only
- download, install, and restart

The current version is 1.6.11.

For detailed info on what's new, read the [changelog](#) and the [release notes](#).

This page points to installers for 32 bit and 64 bit operating systems. Please make sure that you choose the right installer for your PC, otherwise the setup will fail. Note that x64 users can install both the 32 and 64-bit versions side by side. This will enable the TortoiseSVN features also for 32-bit applications.

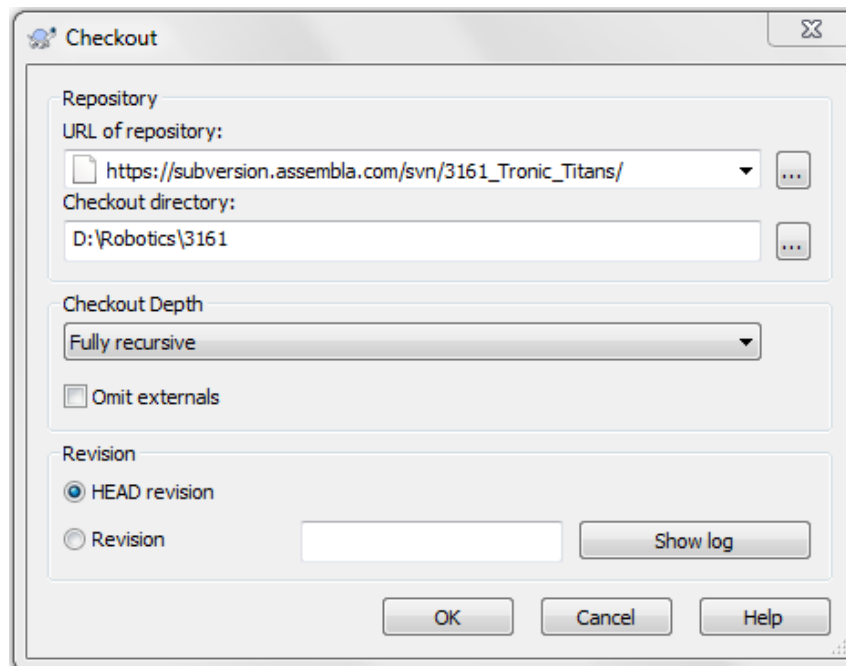
| Download Application | | |
|----------------------|---|-----------|
| 32 Bit | TortoiseSVN-1.6.11.20210-win32-svn-1.6.13.msi | Installer |
| 64 Bit | TortoiseSVN-1.6.11.20210-x64-svn-1.6.13.msi | Installer |

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Connecting to SVN

- Create a new folder (hence forth referred to as ‘Tortoise folder’) where ever you want to keep the local files
- right click the folder -> SVN Checkout

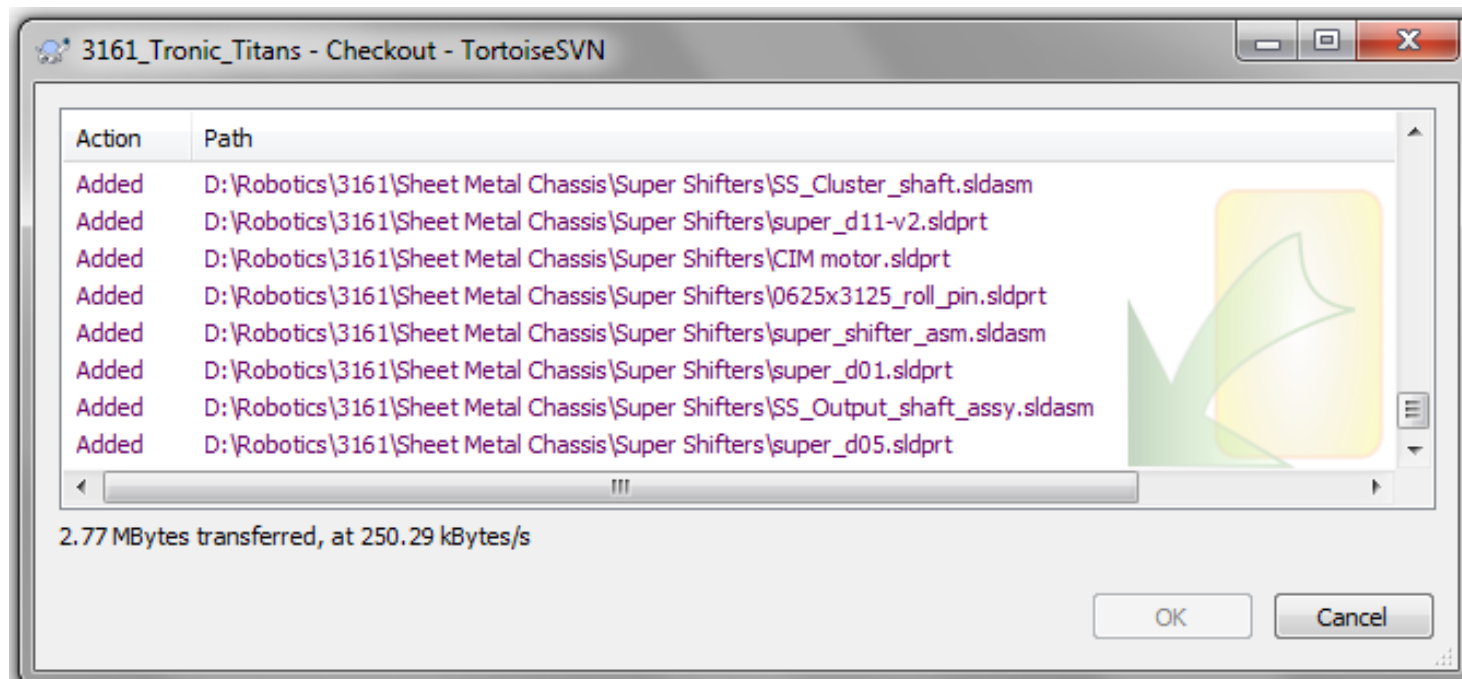


- URL Repository (from the assembla website)
- https://subversion.assembla.com/svn/your_space_here/
- Leave everything else default and hit OK



Tortoise

- Files will be downloaded to your local directory. Press OK once its completed, and you're set.



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Updating Files

- If your files are out of sync with the repository, you can update them by right clicking the (‘Tortoise folder’) folder and pressing “SVN Update”
- Always, always update your files before you start to work!



Committing Files

- If **you** change files, you must commit your changes to the repository for them to take effect.
- Files and parent folders will have a red exclamation point if they are out of sync with the repository
- Right click on the file or folder and select “SVN Commit” or, commit everything by right clicking ‘Tortoise Folder’ -> ‘SVN Commit’
- Enter a short summary of your changes (just like commenting your code!)
- You can select which files to commit by selecting specific checkboxes (usually just commit everything)

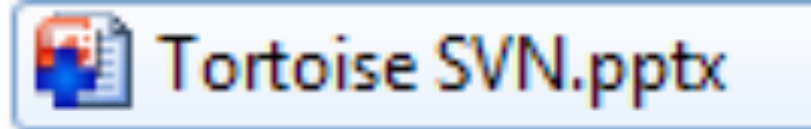


Sheet Metal Chassis Assembly.SLDASM



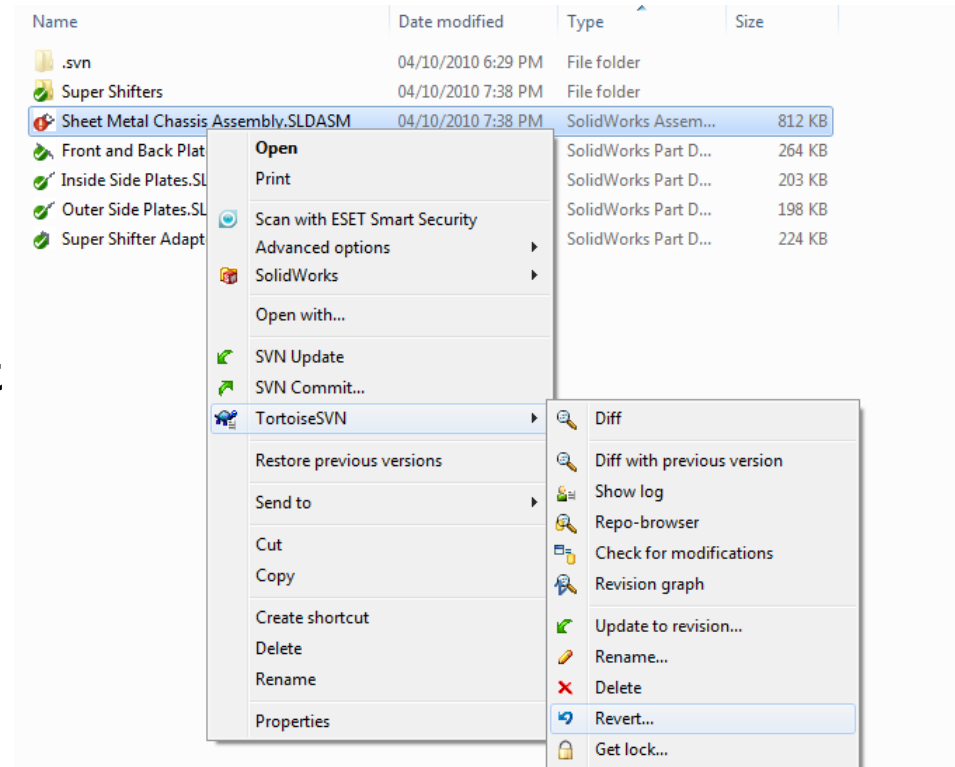
Adding new files

- Save a new file in your local repository folder
- Right click on the file>Tortoise SVN>Add
- A blue plus sign should appear
- Commit your changes



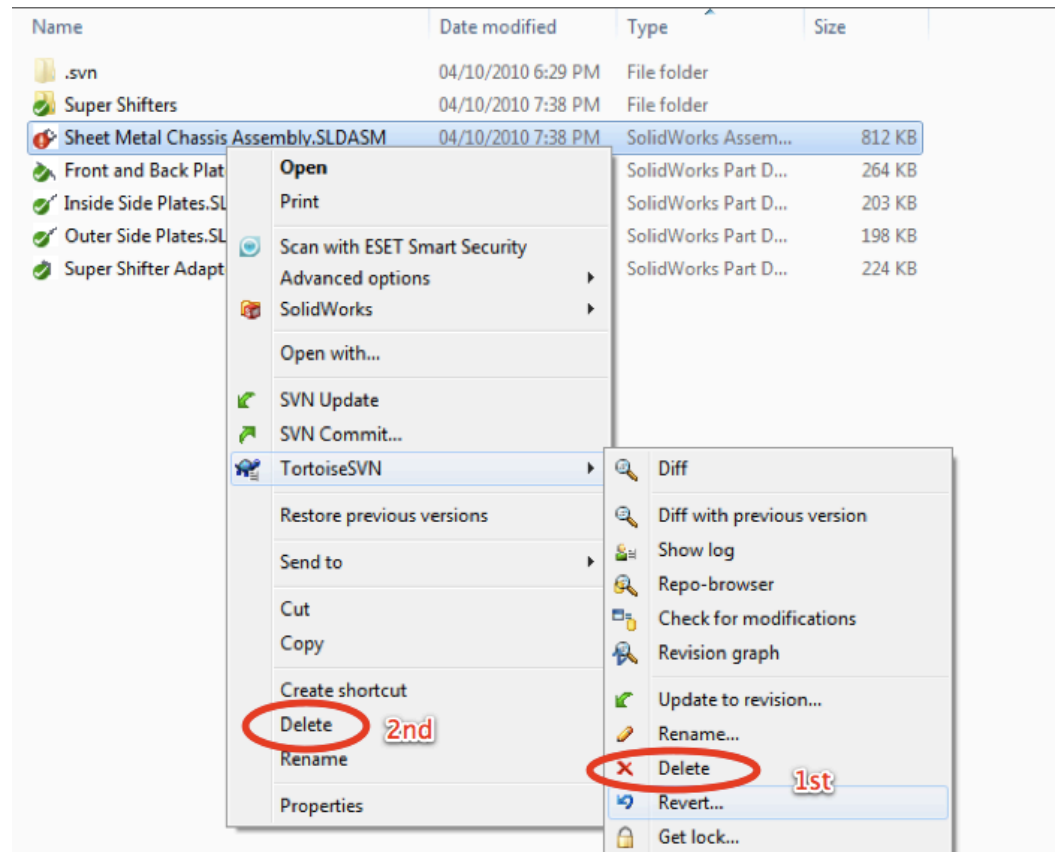
Reverting Changes

- To undo changes that **you** have made, right click on the file>TortoiseSVN>Revert
- Select the file you want to revert and hit OK



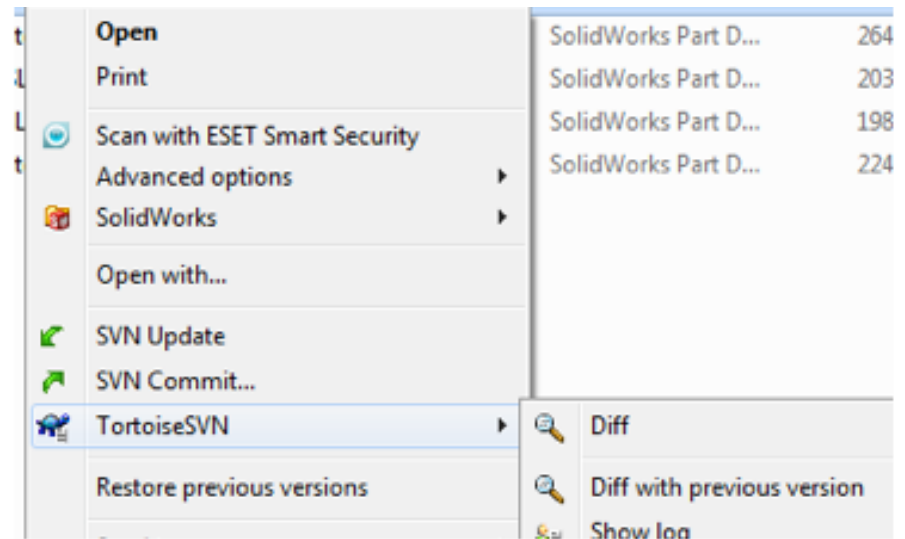
Deleting files

- To properly remove files from your SVN, first under 'TortoiseSVN' select delete, then if the file is still showing, click the 'regular' delete, highlighter to the left.
- Now, SVN commit to submit your change



Dff Feature

- Compares two different revisions of the same file (text based files only) For text-based files, you can see exactly what has changed between revisions Very useful for code development



Tortoise


```
trunk/CCL.c
32
7 // -- Created: November 3, 2010          Last modified: November 8, 2010 --
8 // -----
9
10 #include "CCI.h"
11 #include "messageEnv.h"
12 #include "wallClock.h"
13 #include <stdlib.h>
14 #include <string.h>
15 #include <stdio.h>
16
17 int print_bad_command_notification(MsgEnv* msg, char reason[]) {
18     // Prepares a message envelope and send it to CRT i-process
19     // Returns the result of send_message
20     msg->destPID = pidCRT;
21     ...
22
23     // Changes wall clock time
24     int h = -1, m = -1, s = -1;
25     // Parse message further to get new time
26     sscanf(msg, "%s %d:%d:%d", sh, sm, ss);
27
28     if (h < 0 || h >= 24 || m < 0 || m >= 60 || s < 0 || s >= 60) {
29         // Invalid time, print notification
30     }
31 }
32
33
7 // -- Created: November 3, 2010          Last modified: November 8, 2010 --
8 // -----
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29         // Invalid time, print notification
30     }
31 }
```

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Remove Email Alerts


- By default you will receive a email notification whenever anyone commits changes.
- If you don't want email alerts
[http://www.assembla.com/spaces/
your_team_here/stream](http://www.assembla.com/spaces/your_team_here/stream)
- On the right, Change Alert Settings
- Set to desired settings


Now you get emailed  when an event happens for 3 event types

[Change alert settings](#)

Email frequency
When an event happens ▾


Email me about

 Code commits

 Team Events

Svn diffs

Avoid My Own Changes

 Automatically Follow New Tickets

[Update Settings](#)



Setting up your email filter

- Optionally, If you want to filter, or separate the SVN file update email notifications, filter emails from from your_spacename@alerts.assembla.com to redirect to a different folder

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Not on Windows?

- RapidSVN on linux <http://rapidsvn.tigris.org/>
- svnX on Mac OS X
- <http://code.google.com/p/svnx/>

Among Many

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Happy SVN-ing!

- Questions?
- Paul Fossenier paul.fossenier@team3161.ca
- Steven Lao steven.lao@team3161.ca

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