

Civil 3D State Kit Webinar Series

FDOT Survey EFB Design Deliverables in Civil 3D Part 1 of 2



Topics will we cover today:

**EFB Desktop 3.2 to LANDXML
LandXML Visualizer tool
LandXML Grouper tool**

**Autodesk Civil 3D:
Survey Database
Database Setup
Import LandXML
SURVRD file
Edit Figures
Point Groups
Point Display**

**Create Model Files for Deliverables
TOPORD
GDTMRD**

EFB3 Overview

Electronic Field Book v3.2 Software

EFB 3 for Windows was developed by CAD Management Resources, Inc. for the department. It is supported by the department's Surveying and Mapping office in Tallahassee. Development began late in 2007 and EFB Version 3 was released for production in February 2012. EFB 3 was designed to mimic "DOS EFB" as closely as possible and to be a simple survey data collector, which interfaces with a fixed number of Total Station Instruments. EFB 3 collects measurement data for radial survey, cross sections, and differential leveling.

EFB 3 is a "Windows" based program and can run in a Windows Mobile 5.0 or newer and Windows CE 4.2 or newer environment, as long as the hand held data collector manufacture has not modified the Operating System. The Windows Mobile or Windows CE computer that EFB 3 runs on must have a 100% PC compatible serial port to correctly communicate with the available total stations. Bluetooth is also available for a few total stations and data collectors that support it.

At present, EFB 3 is a new Program and will possibly have some programming bugs that were not found in beta testing. If you are having an issue please contact the Surveying and Mapping Office.

EFB v3.2 has several new features:

The RAW file has been replaced with a SDF file. Be sure to save a back up copy of the SDF file in another directory to preserve your original work.

An OBS file can be exported directly from the data collector and the EFB Desktop.

EFBP Processing is handled through the EFB Desktop.

The CTL Tab allows a CTL File to be created or added to in the field with or without known positions.

Import an OBS, CTL, XYZ and XML from the SDF file. This will override all existing point data in the SDF file. Make sure you have an original back up.

Export current data to an OBS, CTL, and XML from the SDF file. Merge CTL and XYZ files into the SDF file.

This will only add missing data to the SDF file and will not override existing data. If you need to update all data be sure to use the import function.

Seed a New Segment copies the current segment data, point and chain names into the next segment to be used. Use CEFB Input Mode prompts the user to create a point or chain description from a predefined description through pick lists if available.

The EFB 3 data can be post-processed by the EFB Desktop included in the software download and operates in Windows XP, Windows Vista or Windows 7, utilizing EFBP or in conjunction with GEOPAK to produce finished field survey data.

The EFB Desktop will produce final processed files that can be imported into CAiCE, GEOPAK or Civil 3D.

FDOT EFB Desktop 3.2 Download Page:

<http://www.dot.state.fl.us/surveyingandmapping/software.shtm>



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Surveying & Mapping

Surveying & Mapping Office / Software

Software

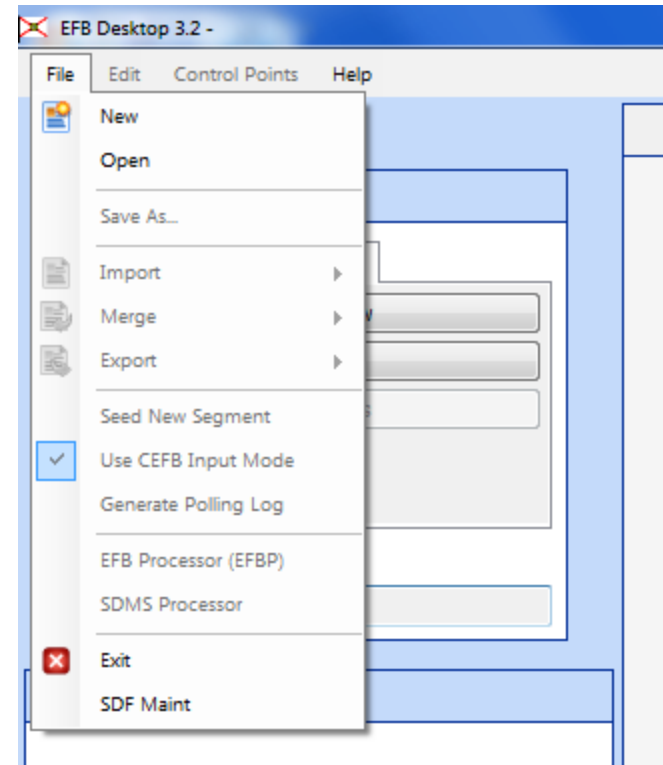
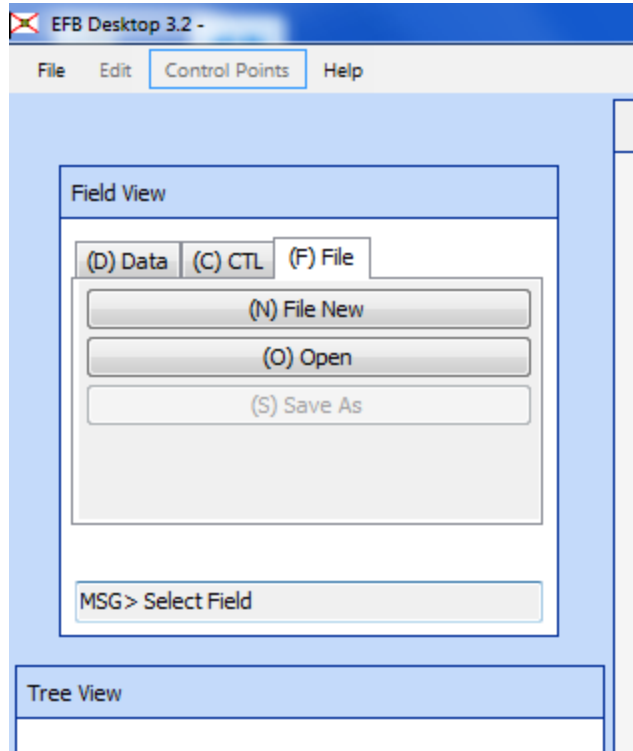
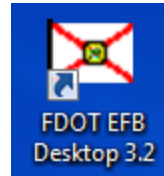


No warranty, expressed or implied, is made by the Florida Department of Transportation as to the accuracy and functioning of any programs or the results they produce, nor shall the fact of distribution constitute any such warranty, and no responsibility is assumed by the Florida Department of Transportation in any connection therewith. By downloading any programs, you are agreeing to the above disclaimer.

Note: Some files may require the use of a spreadsheet program or PDF file reader. Double click name to download file.

Name	Version(size)	Remarks
EFB3.zip (V.3.2)	(1.6mb)	All the files necessary to run EFB 3 are included the program, supporting files and documentation in Adobe Acrobat format. You can find out more about EFB 3 from our EFB 3 webpage .

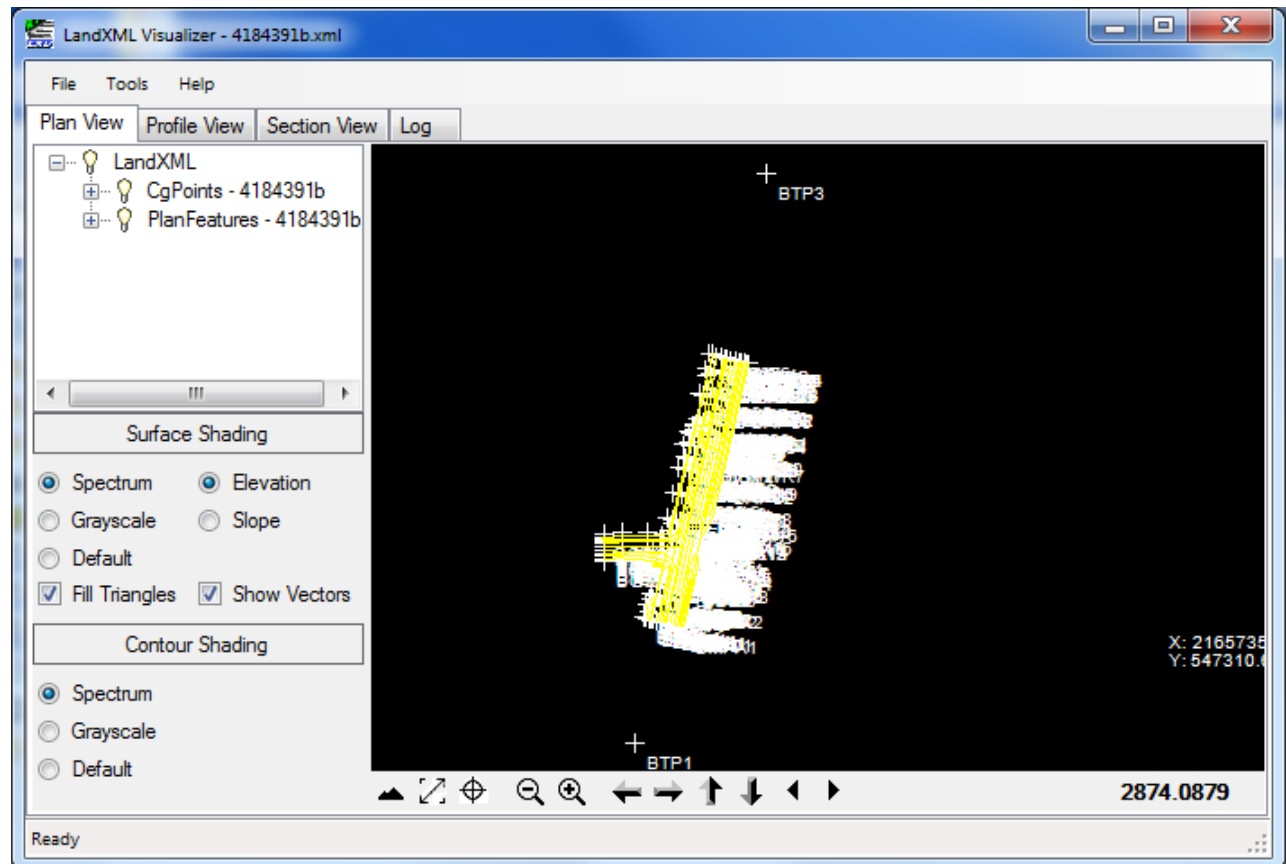
FDOT EFB Desktop 3.2



FDOT2016.C3D Desktop Folder

LAND XML Visualizer

- _FDOT2016.C3D
- Create 3D Deliverables
- Create Project
- ECSO GoToMeeting
- ECSO Website
- FDOT Civil 3D Quick Clips
- FDOT XML Signing
- File Checker
- Land XML Converter
- Land XML Grouper
- Land XML Visualizer
- PEDDS Client
- Sheet Set Organizer
- Submit a Support Request



FDOT2016.C3D Desktop Folder

LAND XML Grouper

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LandXML Group Maker 1.2.5855 Copyright © FDOT 2011-2016

File Filters Help

Group Filters

Name	Type
TOPORD Chains	Chains
TOPORD Points	Points
DREXRD Chains	Chains
DREXRD Points	Points
UTEXRD Chains	Chains
UTEXRD Points	Points
GDTMRD Chains	Chains
GDTMRD Points	Points

Filter Criteria

Names: []

Zones: 1 3

Codes: []

Attributes: FEATURE GROUND

Descriptions: []

LandXML Output















Name	Zone	Code	Attribute	Y (Northing)	X (Easting)	Z (Elevation)	Description
BTP2		IRC	feature	2164347.1552	547741.2069	205.3725	SET 1/2" IRC STAMPED S
BTP3		IRC	feature	2164544.3669	548815.4701	219.6077	SET 1/2" IRC STAMPED S
BTP1		IRC	feature	2164142.8213	547079.045	181.5651	SET 1/2" IRC STAMPED S
BGS1			ground	2164169.5546	547464.3871	201.6176	
BWDL1			feature	2164178.1525	547459.2797	201.6199	
BTBA1			ground	2164188.3211	547456.9092	201.3595	
BGS2			ground	2164199.2536	547454.6454	198.0629	
BTSA1			ground	2164209.6241	547452.4196	194.7728	
BTSB1			ground	2164219.8388	547450.5361	195.0261	
BTBB1			ground	2164227.7658	547448.9552	195.8771	
BSHA1			ground	2164233.5504	547447.6319	196.2853	
BAPA1			ground	2164238.3615	547446.9144	196.6004	
BAC1			ground	2164250.034	547444.4921	196.8765	
BAPB1			ground	2164261.5519	547442.0643	197.0538	
BGS3			ground	2164266.024	547441.3471	196.7617	
BTBC1			ground	2164270.8471	547440.2957	196.5687	
BDA1			ground	2164276.3901	547439.3527	195.9799	
RDR1			ground	2164278.1759	547438.8343	194.8372	

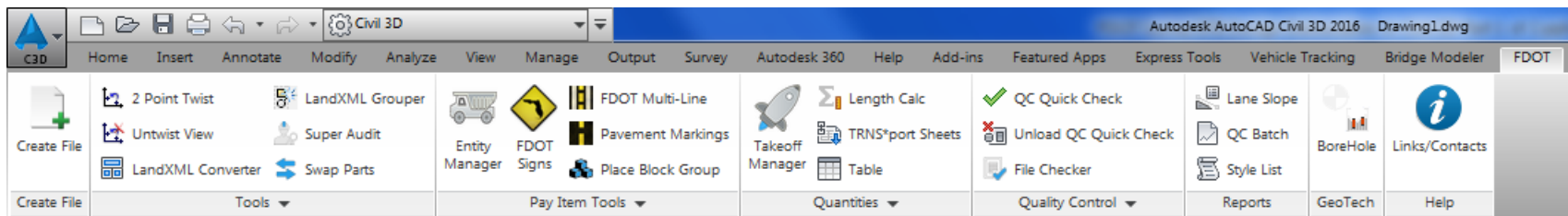
Show All Source Items

Point group "4184391b" contains 362 points.

FDOT2016.C3D Desktop Folder

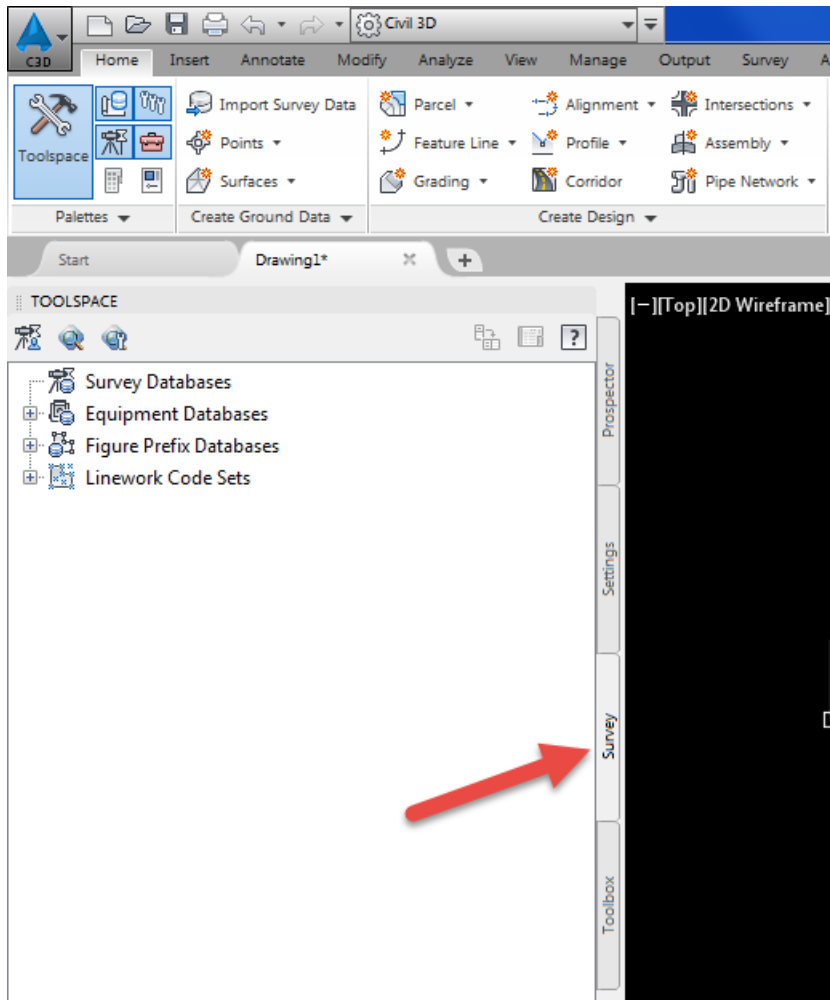
Start Civil 3D using the FDOT Civil 3D State Tool Kit

-  _FDOT2016.C3D
-  Create 3D Deliverables
-  Create Project
-  ECSO GoToMeeting
-  ECSO Website
-  FDOT Civil 3D Quick Clips
-  FDOT XML Signing
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-  Submit a Support Request



Civil 3D:

Survey Tab in Toolspace



Lets get started...

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**Create Model Files for Deliverables
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Thanks for attending today's webinar

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