

Webinar on Introduction to using Data Short Cuts in the FDOT Civil 3D 2016 State Kit



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needed.				
FDOT Autodesk				
 FDOT Civil 3D Introduction ...	07/12/2016	Join Randy Roberts at FDOT's Production Support CADD office for this presentation on an introduction to using Data Shortcuts within the FDOT Civil 3D State Kit This webinar will introduce the user on how to harness the power of Data Shortcuts within Civil 3D I will Demonstrate the functionality and proper use of Data Short Cuts within your FDOT project.	9:00 AM - 10:00 AM EST	Randy Roberts
 FDOT Civil 3D - Dynamic ...	07/19/2016	Join Randy Roberts at FDOT's Production Support CADD office for this presentation on an overview of using the FDOT Dynamic Civil Blocks within the FDOT Civil 3D State Kit. This webinar will demonstrate the current Dynamic Civil Blocks available in the FDOT Civil 3D State Kit. Will show how to use the blocks in your transportation design. Will create dynamic blocks to demonstrate the steps. Will demonstrate using the FDOT Multi Line Tool to create Roadway Line work with Pay Item Data already attached.	9:00 AM - 10:00 AM EST	Randy Roberts
 FDOT Civil 3D Plan Production ...	07/26/2016	Join Mike Racca at FDOT's Production Support CADD Office for this presentation on FDOT Civil 3D Plan Production - Drainage Sections & Profiles. This session will cover what is necessary creating FDOT Civil 3D plan/profile, and section sheets with a drainage network. The workflow is different for each. We will demonstrate what objects are required in your drawing data before you can use the plan production tools. Examples will include, Data references, View Frames, Sample lines, Profiles, Section views and Pipe Networks.	9:00 AM - 10:00 AM EST	Mike Racca
 FDOT Civil 3D Visual ...	08/02/2016	Join Mike Racca at FDOT's Production Support CADD Office for this presentation on FDOT Civil 3D Visual and Animation Tools. This webinar will cover Visual and Animation tools that are available in the FDOT Civil 3D state kit. We will also look at rendering a Surface, Visualizing a Corridor with code set styles and how to utilize various tool for design checks.	9:00 AM - 10:00 AM EST	Mike Racca

Showing 1 to 9 of 9 entries

[Link for Scheduled Autodesk Webinars](#)

What will be Covered

- **What are Data Shortcuts & Data References**
- **Data Shortcuts Vs. Autodesk Vault**
- **Setting up a Working Folder in Civil 3D**
- **Using the Create File Application**
- **Create Shortcuts and Reference them into Drawings**
- **Compare Source Files with Referenced Files**
- **The Data Shortcut Editor**

What are Data Shortcuts

Data Shortcuts are used to reference in Intelligent Civil 3D Objects without having to reference in an entire drawing.

What Objects can be Data Referenced?

- Alignments
- Surfaces
- Pipe Networks (Includes Drainage, Sewer, & Utilities)
- Pressure Pipe Networks
- Profiles
- View Frame Groups
- **NEW** in C3D 2017 Corridors
- **NEW** in C3D 2017 Feature Lines

Advantages of Data Shortcuts

- Shortcuts provide a simple, direct mechanism for sharing object data that is based solely on drawings, without the added server space and administration needs of Autodesk Vault.
- They offer access to an object's geometry in a separate drawing while ensuring that the object's geometry can only be changed in the source drawing.
- Reference objects can have **Styles** and **Labels** that are different from the source drawing.
- Reference objects automatically update when you open a file in which you have referenced data.
- During a drawing session, you are notified when a source drawing has been modified, both in the Communication Center, and in the Prospector tab of Toolspace.

Disadvantages of Data Shortcuts

- They cannot provide data versioning.
- They provide no security or data integrity controls.
- Unlike Autodesk Vault, data shortcuts do not provide a secure mechanism for sharing point data or survey data.
- Maintaining the links between the references and their source objects requires fairly stable names and locations on the shared file system. However, most broken references can be easily repaired.

Best Practices of Data Shortcuts

- To minimize broken references, do not move or rename shared objects or their source drawings after creation. You can however move an entire working folder.
- If you need to move or rename multiple objects or data shortcuts in a working folder, use the stand-alone Data Shortcuts Editor. Avoid making direct edits in the shortcut XML files, because this can corrupt the files.
- In a network environment, use UNC (Universal Naming Convention) paths to provide a flexible but accurate path to each working folder.

Data Shortcuts vs. Autodesk Vault

Data shortcuts are external xml files that store the Object Information. This xml file is not to be confused with LandXML files. Though they are written using the same file type (xml), they store very different information.

History of Civil 3D File Management

Data Shortcuts were introduced way back in Civil 3D 2006 as a way for more than one team member to work in files at a time. Autodesk Vault was introduced and was built into Civil 3D 2007.

Autodesk Vault provides access control and version control for all project drawings. One master copy of each project drawing is maintained in the project database. Other team members can reference the master copy, and they are notified when the master copy is updated.

If you are unsure about your need for Autodesk Vault, start with data shortcuts. If you decide to introduce Vault later in the process, you can import your data shortcut projects into Vault. In the process, data shortcuts are automatically converted to Vault references (for supported object types).

Thank You for attending today's Webinar!!

Next week's webinar will be on Dynamic Civil Blocks and the Multi Line Tool, which is equivalent to Civil Cells



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