



E-Delivery: Concepts and Production Steps

Short Guide

District 4 CADD/Engineering Support Team

GOALS



In Plain English

- Clarify Concepts and Terms Used in E-Delivery Software
- E-Delivery Production: Steps by Steps Instructions

ARE YOU LOST ... ?



- Data Mining? What's Mining?
- Files Attributes? What's an Attribute?
- Project Index?
- Sheet Index?
- What's an Index?
- How many "Project Index" do we need?
- How many times data must be mined?

ARE YOU LOST (cont.) ... ?



- Purpose of these files ?
 - Index.xml
 - ProjectIndex.xml
 - Sheetndx.xml
 - SheetInfo.xml
 - ProjectFiles.htm
 - Project.pdf
- Relationship between files?

HELP ... !

HELP ... !



Where to Start ???

CLARIFY TERMS USED ...



- Index = LIST
 - Sheet Index = List of Plan Sheets
 - Project Index = List of All Files (in Project) with Attributes

- Attributes = Information/Properties
 - File Attributes = Information on a File
 - Date, Time, Size
 - EDMS Comment = Short Description
 - Used to describe non standard file name

 - DGN: Reference Attachments, Sheet Borders

CLARIFY TERMS USED (Cont.)



- Data Mining = Building a LIST of All Project Files with Attributes
 - EDI Process initiated by USER
 - Scanning complete project folder

SIMPLE ?

E-Delivery Software can be confusing

ED Software in a Nut Shell . . .



Goals of ED Software

- Produce two simple Indexes in readable format
 - Project Index
 - Sheets Index
- Produce one PDF that contains all sheets in sheet order

Files in ED Production Process



- SheetInfo.xml
 - Sheet Index produced by Sheet Navigator
 - List of all Plan Sheets
 - Raw data readable only by Sheet Navigator

- Index.xml
 - Project Index
 - List of ALL Project Files with Attributes
 - Created or Updated with Data Mining Process
 - Raw data readable only by EDI

ED Files (cont.) ...



- ProjectIndex.xml
 - Sheet Index produced by EDI
 - List of all Plan Sheets
 - Raw data readable only by EDI

- Sheetndx.htm
 - Sheet Index produced by Project Browser
 - List of all plan sheets
 - Generated from ProjectIndex.xml
 - Contains hyperlinks to each sheet image
 - Readable by Humans through IE
 - Sheets printable through QSHEET

ED Files (cont.) ...



- ProjectFiles.htm
 - Project Index produced_by EDI
 - List of all Project Files with Attributes
 - Generated from Index.xml
 - Readable by Humans through IE

- Project.pdf
 - All plan sheets (in sheet order) in one PDF
 - Used by bidders, contractors and others to print complete plan set
 - **MUST be in SYNC with Sheet images (PS)**

Files Relationship ...



Raw Data vs Readable Data: Raw Data Must be generated first !

Project Index

- Index.xml = ProjectFiles.htm
- Created/Updated through Data Mining
- **To Update when files are changed or created ... i.e: Often !**

Sheets Index

- ProjectIndex.xml = Sheetndx.htm
- Created from Project Index

Ready ... ?



Ready for an ED Production ?

See Short Guide for Production
Submittal ...

Short Guide for Revision Submittal will
be published at a later date

Short Guide



1. MicroStation > Produce or Edit DGN's in compliance with CPCH and PPM.
 - Use FDOT standard sheet or sheet cell.
 - Set Plot Scale on all DGN's with sheet borders
 - Fill up all sheets through **Sheet Navigator**.
 - From Sheet Navigator tab, create a new sheet index (SheetInfo.xml in root of project) and review the subsequent spreadsheet for duplicate sheets, missing sheets, sheet order and erroneous information.
 - **Hint:** Don't even think of opening the E-Delivery software until this sheet index is complete and accurate.
2. EDI 2 > Mine File Attributes (From root of project folder)
 - This creates attribute data for all project files in the file **Index.xml**
3. EDI 2 > Index > Project > Update (Add Index.xml into itself).
4. EDI 2 > Index > Project > Save (save complete project index **Index.xml**)

Short Guide (cont.) ...



5. EDI 2 > Sheet Information Tab > Create Plot Files > **ALL** (right click on root project folder)
 - This creates all sheet images in PS format. This process also mines those PS files at the same time (i.e: adding them to complete project index Index.xml)
6. EDI 2 > Index > Sheet > Update > Check box Create New Index > Click OK
 - This creates a new sheet index in xml format (**ProjectIndex.xml**)
7. EDI 2 > Index > Sheets > Save > Click OK to save sheet index **ProjectIndex.xml**
8. EDI 2 > Review the sheets with Index Editor for accuracy (fix sheets if necessary in EDI or Export/Edit/Import .CSV file)
9. EDI 2 > Index > Sheets > Save > OK (only if you had to fix sheets in step 8) (save ProjectIndex.xml)

Short Guide (cont.) ...



10. EDI 2 > View > Project Viewer > Project Files Tab
11. EDI 2 > Index > Project > Update
 - This adds newly created files in complete project index Index.xml
12. EDI 2 > Index > Project > Save (save complete project index Index.xml)
13. Close EDI 2 (click OK to all prompts)
14. PEDDS > Sign and Seal PS files
 - Print Signature Document
 - Manually sign and seal Signature Document
 - Secure Project (don't print Manifest Document at this time)
15. **EDI 2** > Index > Project > Update
 - This adds newly created files in Index.xml
16. EDI 2 > Index > Project > Save (save Index.xml)

Short Guide (cont.) ...



18. EDI 2 > Index > All Files Report
 - This creates complete project index in readable HTM format (**ProjectFiles.htm**)
19. Close EDI 2 (click OK to all prompts)
20. Project Browser > Create sheet index in readable HTM format (**Sheetndx.htm**)
 - Review links and order of sheets
21. Project Browser > Create **Project.pdf**
 - Make sure ALL sheets are in landscape orientation
22. EDI 2 > Index > Project > Update
 - This adds newly created files in Index.xml
23. EDI 2 > Index > Project > Save (save Index.xml)
24. EDI 2 > Index > All Files Report (ProjectFiles.htm)
 - This creates project index in HTM format
25. Close EDI 2

Short Guide (cont.) ...



26. File Checker > Required ED Files tab > All Required ED Files should be green
 - Check other requirements, insure compliance with CPCH and PPM
27. PEDDS > Secure project (Change Project Header first if necessary)
 - Secure Project
 - Print Manifest Document, then manually sign Manifest Document
28. Burn CD

Sequence ...



Sequence DO Matter:

1. SheetInfo.xml (sheet Nav. Index)
2. Index.xml (project index)
3. ProjectIndex.xml (sheet index)
4. Sheetndx.htm (sheet index)
5. Project.pdf (all sheets in pdf)
6. Index.xml
7. ProjectFiles.htm

Last Word ...



Will there be less Data Duplication?

- YES

Will there be more consolidation in ED Tools?

- YES

Will ED Software improve?

- YES

When?

- EDI 3 ... Fall 007 (probably!) with MR 4

DEMO ...



LIVE DEMO ...



Questions ??

