

Digital delivery

A PRESENTATION ON BASIC PRINCIPLES OF DIGITAL SIGNATURE FOR
FDOT PROJECT DELIVERY

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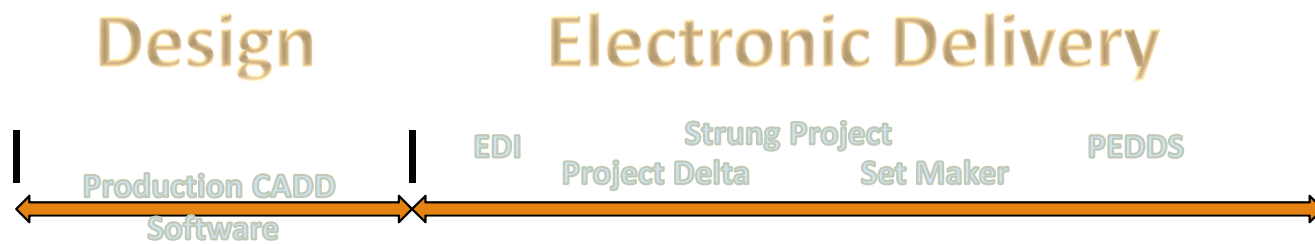
Digital Delivery at FDOT

- Why the Change?
 - Acquisition and Management of a Digital Certificate
 - The Digital Signature and the Digital Appearance
 - The Digital Delivery
 - Digital Certificates – Do they do more than sign?
 - Future of Digital Delivery
- 
- A solid orange horizontal bar spanning the width of the slide, located at the bottom.

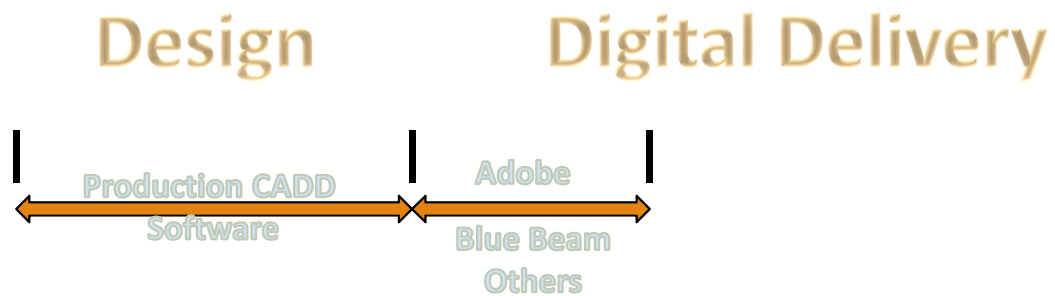
Why the change?

- Effort to produce electronic delivery
- Training and learning curve
- Software maintenance
- PKI prevalence - ubiquitous
- Ease of use

Why the change?



Why the change?



Change is certain!



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD
SECRETARY

OFFICE OF DESIGN MEMORANDUM 14-01

DATE: April 21, 2014

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Program Management Engineers and District Construction Engineers

FROM: Duane Brautigam, P. E., Director, Office of Design 

COPIES: Brian Blanchard, Tom Byron, Bob Crim, Bruce Dana, John Krause, Kurt Lieblong, Michael Shepard, Robert Robertson, David Sadler, Trey Tillander, Rudy Powell, Greg Schiess, Juanita Moore, Chad Thompson (FHWA), Felix Delgado (FHWA), and Nick Finch (FHWA)

SUBJECT: **Sunset of Classical Electronic Delivery for FDOT Project Lettings**

This bulletin changes the Department's policy for project delivery and requires Digital Delivery to be used instead of Electronic Delivery for all FDOT project lettings after June 30, 2015.

Digital Delivery at FDOT

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 - Acquisition and Management of a Digital Certificate
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- 
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Acquisition and Management of a Digital Certificate

Consultants: <https://www.identrust.com/>

The screenshot displays the IdenTrust website with the following elements:

- Header:** IdenTrust logo with the tagline "WE PUT THE TRUST IN IDENTITY". Navigation links include Home, My Account, and Contact Us. A search bar is present.
- Menu:** A horizontal orange bar with links: Home, Company, Solutions, Certificates, Partner, Library, Support, and IdenTrustSSL.com.
- Main Content Area:**
 - Image:** A blue digital certificate card with a silver padlock icon on top.
 - Text:** "One Identity. Multiple Uses. Authentication. Electronic Signatures. Encryption."
 - Call to Action:** A button labeled "Click Government" with an orange arrow pointing to the "GOVERNMENT" tab.
 - Tabs:** "Solutions for:" (BANKS, CORPORATES, **GOVERNMENT**).
 - SOLUTIONS:**
 - Global Identity Network
 - Managed PKI Hosting Services
 - Electronic Bank Account Management
 - eSignature Solutions / Electronic Document Signing
 - Man-in-the-Browser Portable Identity Protection
 - Individual Level Signing of Payment Files
 - Eliminating Paper Based Forms and Processes
 - IdenTrust Community Bank PKI [PDF]
 - HID Global Products and Solutions
 - IN THE NEWS:**
 - IdenTrust Digital Identities Secure MEDENT's Electronic Health Records - November 24, 2014.
 - IdenTrust is pleased to be a part of Let's Encrypt, a new certificate authority (CA) initiative that aims to clear the remaining roadblocks to transition the Web from HTTP to HTTPS - November 18, 2014.
 - IdenTrust, Part of HID Global, Cross-Certifies IdenTrust Global Common PKI Certificates with the U.S. Federal Bridge Authority - October 29, 2014.
 - CUSTOMER STORIES:**
 - The City of Tallahassee Leads the Way to a Greener Environment with IdenTrust's ACES Digital...
 - GET YOUR DIGITAL CERTIFICATES:**
 - BUY** IGC Certificates
 - BUY** DOD PKI ECA
 - BUY** ACES Business Representative
 - BUY** ACES Unaffiliated Individual
 - BUY** ACES SSL
 - BUY** ACES VPN IPSEC Client
 - BUY** TrustID SSL Server
 - BUY** TrustID Personal
 - BUY** NEW SPOT
 - CERTIFICATE MANAGEMENT CENTER**
- Footer:** Includes a URL bar showing <http://www.identrust.com/government/index.html>, links for Contact Us and Legal Policies, logos for Certification Authorities and GSA eOffer/eMod, and social media links for Twitter and Facebook.

Acquisition and Management of a Digital Certificate

Consultants: <https://www.identrust.com/government/>



US Government Approved.

Who the US Government turns to for Trusted Identities.

ACES - Since 1999, the GSA has managed the ACES policy and program for secure logical access and enabling legally binding digital signatures for Federal, State and Local Agencies. Now approaching the tenth anniversary, ACES is going strong; with multiple Federal, State and Local agencies conducting electronic transactions with thousands of businesses. The ACES program supports a government-wide approach, because an ACES digital certificate can be relied upon by any state or federal agency.

ECA - ECA certificates are the Department of Defense's only solution for guaranteeing authenticity of users to remotely access DoD systems. When DoD systems are targeted over a million times a day, they turn to ECA certificates to assure that the right contractors can access the right systems at the right time.

GET YOUR DIGITAL CERTIFICATES	GOVERNMENT PROGRAMS	DEPARTMENT OF DEFENSE PROGRAMS
BUY ACES Business Representative BUY ACES Unclassified Individual BUY ACES SSL BUY ACES VPN IPSEC Client BUY ECA Medium Hardware Assurance BUY ECA Medium Token BUY ECA Medium Assurance BUY ECA Medium Assurance Foreign Country BUY ECA SSL BUY SDDC - ETA BUY DOD EMALL BUY JPAS BUY SPOT BUY TAMMS-A	Learn more about these programs: usage, pricing, step-by-step process to get a certificate, and FAQs. - DoD PKI ECA Certificates - DoD PKI ECA (Video) - ACES Certificates - IGC Certificates FEDERAL AGENCY PROGRAMS - Aecosoft - Benchmark Clinical EHR - Department of State - DTRADE - Drug Enforcement Agency - EPCS - Food and Drug Administration (FDA) - General Services Administration - eOffer - Internal Revenue Service - FATCA - Internal Revenue Service - Secure Data Transfer - Internal Revenue Service - Modernized e File	- AKO - TAMMS-A - SPOT - JPAS - Securing Sensitive But Unclassified Data - SDDC - ETA - DOD EMALL - Worldwide Ammunition Repository Program STATE PROGRAMS - Florida - City of Tallahassee - Florida - Department of Transportation - Florida - JCalendar - Maine - Office of Information Technology - North Carolina - Utah - West Virginia - Department of Environmental Protection

Click FDOT

Acquisition and Management of a Digital Certificate

Consultants: <https://www.identrust.com/fdot/index.html>

FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT)

Professional Licensure Digital Signing and Sealing

FDOT is now utilizing PKI based digital signatures for signing and sealing electronically produced plan sets and other documents requiring professional signature.

Laws & Rules set by the **Florida Board of Professional Engineers** in Florida Statutes 471 and as implemented in Florida Administrative Code 61G15-23 allow Florida Professionally Registered Engineers to use digital signature for signing and sealing documents that are delivered electronically. Other professions are directed to their respective Boards of Professional Regulation for rules concerning the use of digital signature. The digital certificates can be purchased from IdenTrust Services, LLC using the links below. Both FDOT staff and consultants can purchase the digital certificates from IdenTrust. Consultants will be responsible for purchasing their own certificates. Signatories may utilize Adobe Acrobat 9 (or newer), Bluebeam 10 (or newer), or other equivalent software as the signing solution to place the seal and digital signature in PDF files and recommend consultants use the same for consistent, predictable and repeatable (CPR) results.

FDOT recognizes the need for entities, citizens, and public employees to interoperate with the department for the purpose of conducting business electronically. The agency will be using IdenTrust Services to provide such persons and entities with X.509 v.3 Digital Certificates. The digital certificates will be managed and controlled by IdenTrust Services as part of the Access Certificates for Electronic Services (ACES) program. IdenTrust Services, LLC will supply Certificate Authority (CA) service to entities and citizens located within or desiring to interface with the department in a Public Key Infrastructure (PKI).

- IdenTrust digital certificates are NIST Level 3 assurance for verifying your identity.
- IdenTrust digital certificates can support images of signatures or seals and instructions are included under "Related Content" on the right side of this page.
- IdenTrust digital certificates can be applied using PDF software (purchased separately).

Please note: **ONLY THE SUBSCRIBER OF THE CERTIFICATE SHOULD HAVE EXCLUSIVE USE - THE DIGITAL CERTIFICATE IS YOUR FORM OF IDENTIFICATION, SIMILAR TO YOUR PASSPORT OR DRIVERS LICENSE.** Under the GSA Certificate Policy, it is our responsibility as an Authorized Certificate Authority to revoke the certificate in a case of loss or disclosure of the private key (Passphrase) to anyone other than the subscriber.

ACES Digital Certificate:

Access Certificates for Electronic Services (ACES)

CERTIFICATE TYPE	SUBSCRIBER	PURPOSE/USAGE	COST
Business Representative	Employee authorized to act on behalf of a company	Identity Authentication Digital Signature/Signing Usage: authenticate yourself as an employee (affiliated) of a valid business when signing emails and documents, and identifying yourself to gain access to restricted web sites.	\$119.00 - two years BUY
Unaffiliated Individual	Individual representing him/herself	Individual Certificates are sold to those who are acting as representatives of themselves, not on behalf of a company. If you are a sole proprietor and wish to have your identity authenticated independently from your company, more personal information is required, including social security number, credit card number, driver's license number, home phone number.	\$75.00 - two years BUY

Delivery Time 5-7 Business Days



CUSTOMER SUPPORT

- Helpdesk@IdenTrust.com
- 888.339.8904 (within the US)
- 801.924.8140 (outside the US)
- M-F, 6am-6pm MST

RELATED CONTENT

- Step-by-Step Business Registration Process
- Creating a Custom Signature Appearance in Adobe 9
- Certificate Center
- ACES Policy Documents
- About ACES
- ACES FAQ
- ACES Voucher Order Form
- Digital Delivery FDOT D2

Acquisition and Management of a Digital Certificate

<http://infonet/>

The screenshot displays the FDOT INFONET website interface. The browser's address bar shows <http://infonet/>. The website features a dark blue header with the FDOT logo and the text "CENTENNIAL 1915-2015 INFONET". Below the header, there is a navigation bar with links: Home | Agency Directory | Internet | Offices | Search. The main content area is divided into several sections:

- Agency Resources:** Includes links for Awards and Special Events, Emergency Information, Executive Meetings, Executive Management Team, Forms, Policies and Procedures, Historical Archive, Mission, Vision, Values, Organizational Chart, Performance Management, Templates, and Training and Development.
- Secretary's Corner:** Includes links for Innovators! Team, Step-Up Resources, and Town Hall Webinar.
- Latest From Twitter:** Includes a link to tweets from <https://twitter.com/MyFDOT/lists/fdot-central-office>.
- IT VISIONS 2015 presents Office 365:** A large banner featuring a man using a laptop and the Office 365 logo. Below the banner, it says "Making Office 365 work for you." and "Want to learn more about Office 365? Attend an IT Visions Event on February 19 in CO, SM, TP, D1, D2, D5, D7 or February 26 in D3, D4, D6 -- [Learn More](#) (Login Required: Use FDOT e-mail, then press enter.)"
- Employment:** Includes links for Insurance and Benefits, Job Vacancies, Payroll Information, People First Resources, State Holidays, and More...
- News:** Includes links for Daily Clips / DOTNEWS, FDOT / District Newsletters, OIG Examiner, Safety Advisor, Security Newsline, and More...
- Technology:** Includes links for Application / Web Development, E-Mail / File Sharing, Enterprise Applications, Enterprise Information Portal, Mainframe, and More...
- Other Resources:** Includes links for Business (Contracts/Services, Purchasing Card, State Contract Search, Travel, Work Activity Codes, More...), E-Forms (Computer Access (AARE), Computer Software (IRS), Correspondence (FDOTTracker), Publications Registry, Public Meeting Notices, More...), Legal (Claims, Contacts, FL Administrative Code, Florida Statutes, Public Records, More...), and Legislative (Contacts, Current Legislation, Legislative Overview, State Legislators, State Representatives, More...).

An orange arrow points from the text "FDOT Personnel Start Here" to the link "Computer Access (AARE)" under the E-Forms section.

At the bottom of the page, there is a footer with the following information:

Central | District 1 | District 2 | District 3 | District 4 | District 5 | District 6 | District 7 | Turnpike

FDOT Service Desk: 866-955-HELP (4357) | E-Mail Us | Website

Hours: Monday to Friday 7:00 a.m. to 5:30 p.m. (EST)

Acquisition and Management of a Digital Certificate

FDOT Employees:

<http://infonet.dot.state.fl.us/officeofinformationsystems/Applications.htm>

Automated Access

Create Request Pending

New User / Account

Name Change

Access Change

Transfer

Termination

Other Request Types

Welcome to the Florida Department of Transportation's Automated Access Request Form (AARF) system.

This system was designed to automate computer system access requests. The Computer Security Administration (CSA) office is charged with coordinating and administering statewide computer access to the Department's networks and resources, while maintaining the Department's security policies and standards. Strict guidelines are enforced for requesting access. The CSA can quickly respond and coordinate access requests to all of the Department's systems.

If you need to request access to any of the Department's systems, please complete the appropriate access request, listed above, and continue into the Automated Access Request Form system.

— Computer Security Team.

This site is maintained by the Office of Information Systems. Report suggestions, comments, or FDOT Security Feedback to FDOT.ServiceDesk@fla.gov

Automated Access Request Form

Home Help

Selected Request Type: Access Change for

* Required Field

Statewide Access Items:

☒ Digital Signature Certificate

☐ FLAIR Additional Property CID

☐ FLAIR CITS

☐ FBVIEWS - Performance Measurement (DO NOT USE AS OF 10/23/13)

☐ PCM - Cost Transfer

☐ (A) Personal Device - Agreement

☐ (B) Personal Device Connection

<http://www.dot.state.fl.us/construction/forms/ElectronicSubmit/DigitalCertificatesGuide.pdf>

Acquisition and Management of a Digital Certificate

http://www.identrust.com/certificates/cert_management_center.html

Home | My Account | Contact Us

Search

HAVE A QUESTION?
ASK LIVE ONLINE
CLICK HERE TO TALK!

HomeCompanySolutionsCertificatesPartnerLibrarySupportIdenTrustSSL.com

BEFORE YOU BUY | CERTIFICATE CENTER | AFTER YOU BUY | TRUSTID | ACES | ECA

CERTIFICATE MANAGEMENT CENTER

Certificates > After You Buy > Certificate Management Center

LOGIN to the Certificate Management Center with your digital certificate to:

- Renew your certificate if it is within 90 days of expiration.
- Revoke your certificate if information contained in it is no longer accurate or your private key has been lost or compromised.
- Update your contact information if you have moved or would like us to contact you at a different phone number or e-mail address.
- Upgrade your certificate to a higher assurance level prior to renewing your certificate.
- Recover your encryption certificate (requires entering your account number IdenTrust|DST passphrase)
- Download software drivers for your High or Intermediate Assurance level digital certificate hardware.

RELATED CONTENT

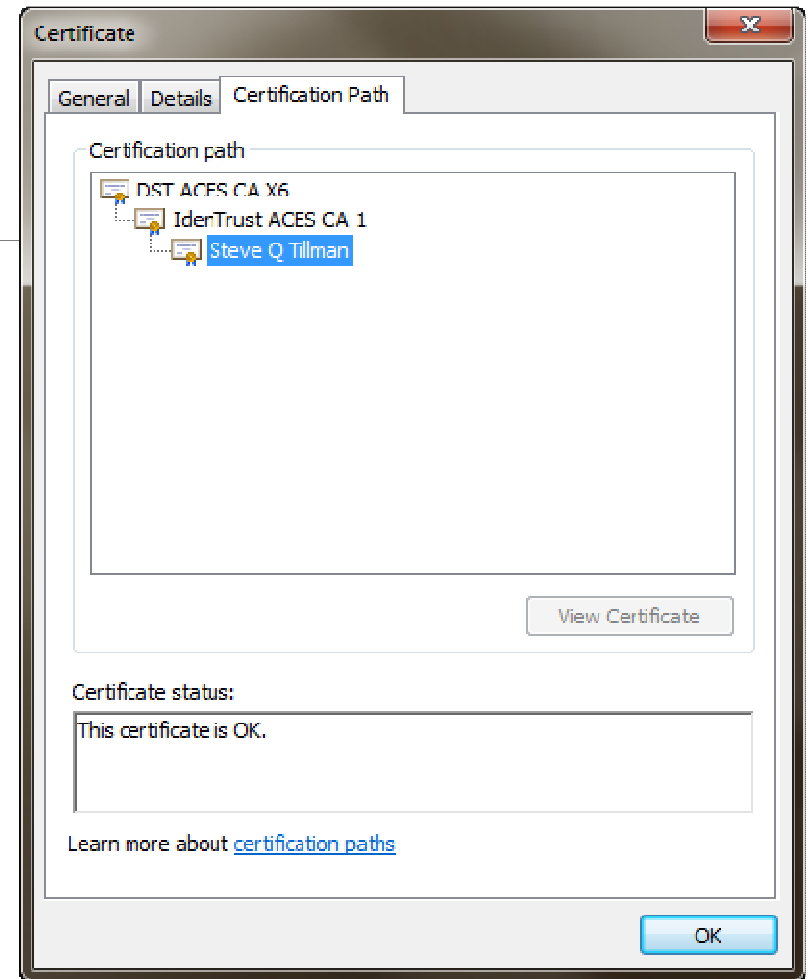
- Certificate Management Center
- Retrieve Digital Certificate
- Retrieve Server Certificate
- Download Root Certificate
- Export Digital Certificate
- Import Digital Certificate
- Add Certificate to Address Book
- Remove Digital Certificate
- Encrypt Messages
- Digitally Sign Messages
- PKI Basics

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Follow us:

IdenTrust
part of HID Global

The Digital certificate



Security Services

Data integrity services address the unauthorized or accidental modification of data. This includes data insertion, deletion, and modification. To ensure data integrity, a system must be able to detect unauthorized data modification. The goal is for the receiver of the data to verify that the data has not been altered.

Confidentiality services restrict access to the content of sensitive data to only those individuals who are authorized to view the data. Confidentiality measures prevent the unauthorized disclosure of information to unauthorized individuals or processes.

Identification and authentication services establish the validity of a transmission, message, and its originator. The goal is for the receiver of the data to determine its origin.

Non-repudiation services prevent an individual from denying that previous actions had been performed. The goal is to ensure that the recipient of the data is assured of the sender's identity.

Access Certificates for Electronic Services (ACES)

- ACES program - created and sponsored by the GSA
- Facilitate secure on-line access to information and services through PKI and digital signature technology
- Business-2-Government , Consumer-2-Government Transactions.
- “Real Time” validation
- Digital Signatures on electronically produced documents and forms which are non-reputable.

Anonymity – Who are you?

The Digital certificate

- Certificate security
 - Keep password safe.
 - Never share!
 - Keep back-up in a secure location
 - Always set security on “High”
 - Always scrub an unused workstation.
 - Compromised certificate.

Digital Delivery at FDOT

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Electronic vs. Digital

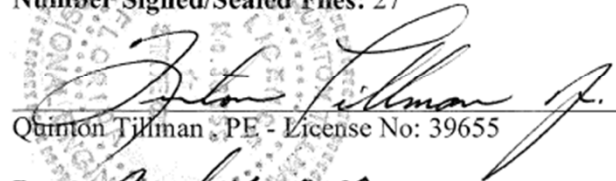
PROFESSIONALS' ELECTRONIC DATA DELIVERY SYSTEM

Signature Document

"This document is signed and sealed to secure the electronic files referenced by the signature files as described in Florida Department of Business and Professional Regulation, Board of Professional Engineers, Procedures for Signing and Sealing Electronically Transmitted Plans, Specifications, Reports or other Documents, Rule 61G15-23.003, F.A.C.. "

Signature File Created: 2008/04/14 - 15:50:11.962

Number Signed/Sealed Files: 27


Quinton Tillman, PE - License No: 39655

Date: April 14, 2008

SIGNATURE FILE NAME:

C:\Projects\MSV8\22807915201SC_META_INFO\PE39655_20080414_154852942.xml

SIGNATURE FILE HASH RESULT:

DFE4F566-AA5148A3-D637B29A-6E29C9C1-E408C419

DFE4F566-AA5148A3-D637B29A-6E29C9C1-E408C419

DFE4F566-AA5148A3-D637B29A-6E29C9C1-E408C419

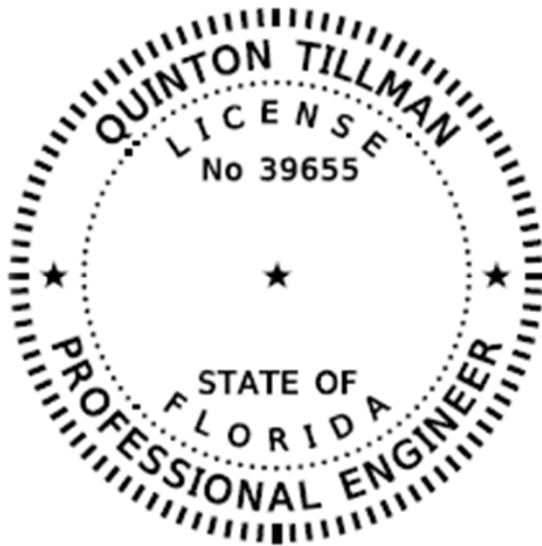
DFE4F566-AA5148A3-D637B29A-6E29C9C1-E408C419

Electronic verses Digital

Are they the same?



Digital signature appearance



Digitally signed by Steve Q
Tillman

Reason: to test the digital
signature process. Not to be
construed as an actual signature.
Date: 2013.03.05 13:40:01 -05'00'

Start Adobe

Digital signature



Rev. 1: Signed by Steve Q Tillman

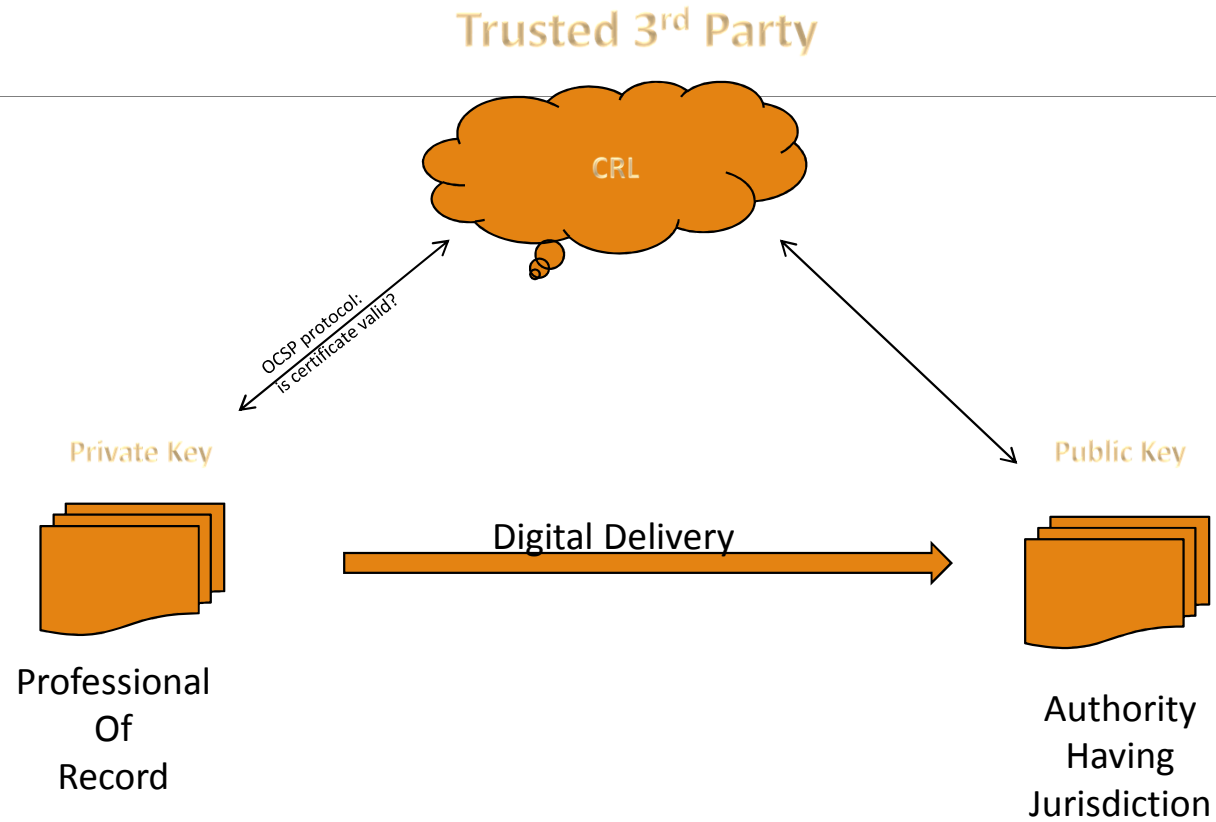
Signature is valid:

Document has not been modified since this signature was applied

Signed by the current user

Signature date/time are from the clock on the signer's computer.

Digital signature



Appearance

Standard Text Signature – This is the generic “out-of-the-box” appearance that is applied by Adobe Standard software.

Steve Q
Tillman



Digitally signed by Steve Q Tillman
DN: c=US, o=IdenTrust ACES Business
Representative, ou=FLORIDA DEPARTMENT OF
TRANSPORTATION, cn=Steve Q Tillman,
0.9.2342.19200300.100.1.1=A010980000001413
353758D0000ADB1
Date: 2014.05.16 16:44:02 -04'00'

Appearance

Plan Text Signature – This is the signature appearance that is applied to FDOT plan sets.

Steve Q
Tillman

2014.05.16
16:44:46 -04'00'

Appearance

Wet Ink Signature – This signature appearance contains a scanned image of a wet-ink signature. This one may be used to sign correspondence such as memos, email, etc.

A blue ink signature of Steve Q Tillman, written in a cursive style.

Steve Q Tillman

I am the author of this
document

2014.05.16 16:45:13 -04'00'

Appearance

Wet Ink Signature with Seal – This signature appearance contains a scanned image of an embossed seal over a wet-ink signature. This one may be used to sign correspondence such as memos, email, etc.



Steve Q Tillman

By placing this digital certificate I intend to apply my professional signature and seal to this document according to the rules of the Florida Department of Business and Professional Regulation, Board of Professional Engineers, Rule 61G15-23.003 F.A.C.

2014.05.16 16:45:57 -04'00'

Electronic vs. Digital



Electronic vs. Digital



Electronic vs. Digital

Art Tillman

Art Tillman

Art Tillman

Art Tillman

Art Tillman

Art Tillman

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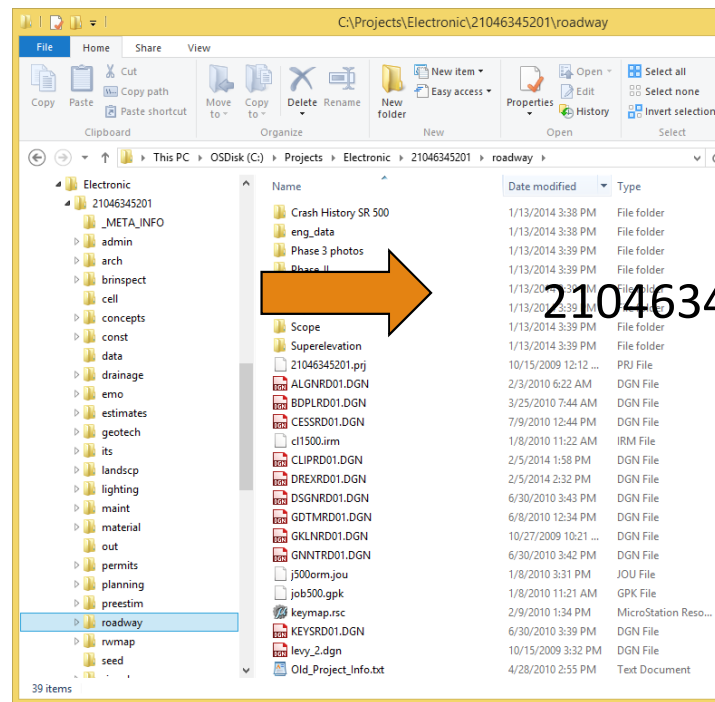
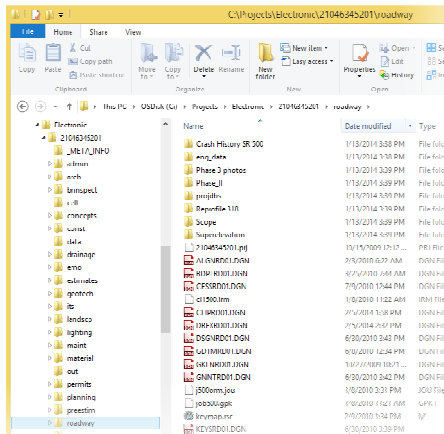
What is in a Digital Delivery?

- Survey Data
- Project Design Data
- Native CADD files
- 3D Models for Automated Machine Guidance
- Multi-sheet PDF Document(s) representing the Plans Set
- Plan Sets now contain a Signature Sheet

What is NOT in a Digital Delivery?

- Empty Folders / Directories (PEDDS >> Create Project)
- Data Mining & Indexing files (Sheet Navigator)
- Project Index (Project Indexer)
- Plotted Post Script files (Project Indexer)
- Signature Files (PEDDS >> Sign & Seal)
- Sub-Set Projects (Project Delta / Set Maker)
- Strung Projects (Strung Project)

The Digital Delivery



21046345201-CADD.zip

The Digital Delivery

98765415201

- 98765415201-CADD.zip
- 98765415201-PLANS.pdf
- 98765415201-SPECS.pdf
- 98765415201-SPECS-TSP##.pdf

The Digital Delivery

98765415201

- 98765415201-CADD-REV01.zip (contemporary)
- 98765415201-PLANS-REV01.pdf (changes only)!
- 98765415201-SPECS.pdf
- 98765415201-SPECS-TSP##.pdf

The Digital Delivery

98765415201

- 98765415201-CADD.zip
- 98765415201-PLANS-ROADWAY.pdf
- 98765415201-PLANS-STRUCT.pdf
- 98765415201-PLANS-LANDSCAPE.pdf
- 98765415201-SPECS.pdf
- 98765415201-SPECS-TSP##.pdf

LandXML
Folder

Importance of file names

12345678901-CADD.zip

12345678901-CADD-ConsultA.zip

12345678901-CADD-ConsultB.zip

12345678901-PLANS.pdf

12345678901-PLANS-ROADWAY.pdf

12345678901-PLANS-SIGNING.pdf

12345678901-PLANS-STRUCTURES-BRIDGE55999-NORTHBOUND.pdf

12345678901-SPECS.pdf

12345678901-SPECS-TSP337.pdf

Digital Delivery at FDOT

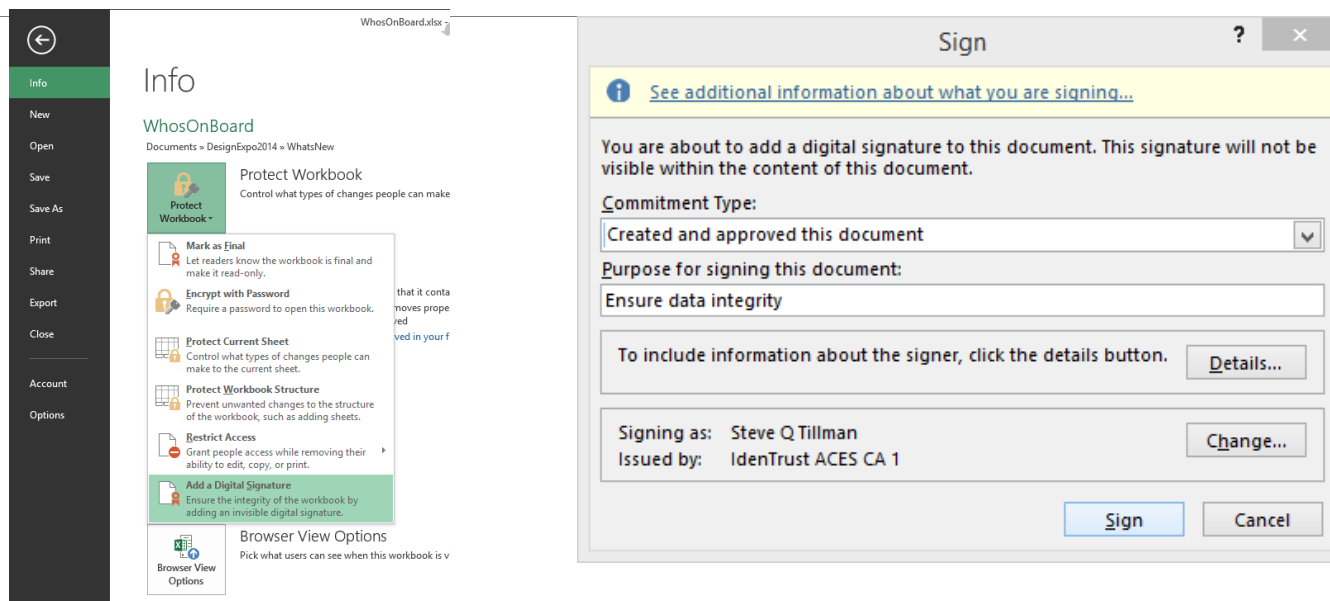
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Do they do more than sign?

- Secure transactions – Project plans Delivery
- Secure email
- Secure other data
 - ✓ Excel Workbooks
 - ✓ Word documents
 - ✓ XML data
 - ✓ Native CAD files

Do they do more than sign?

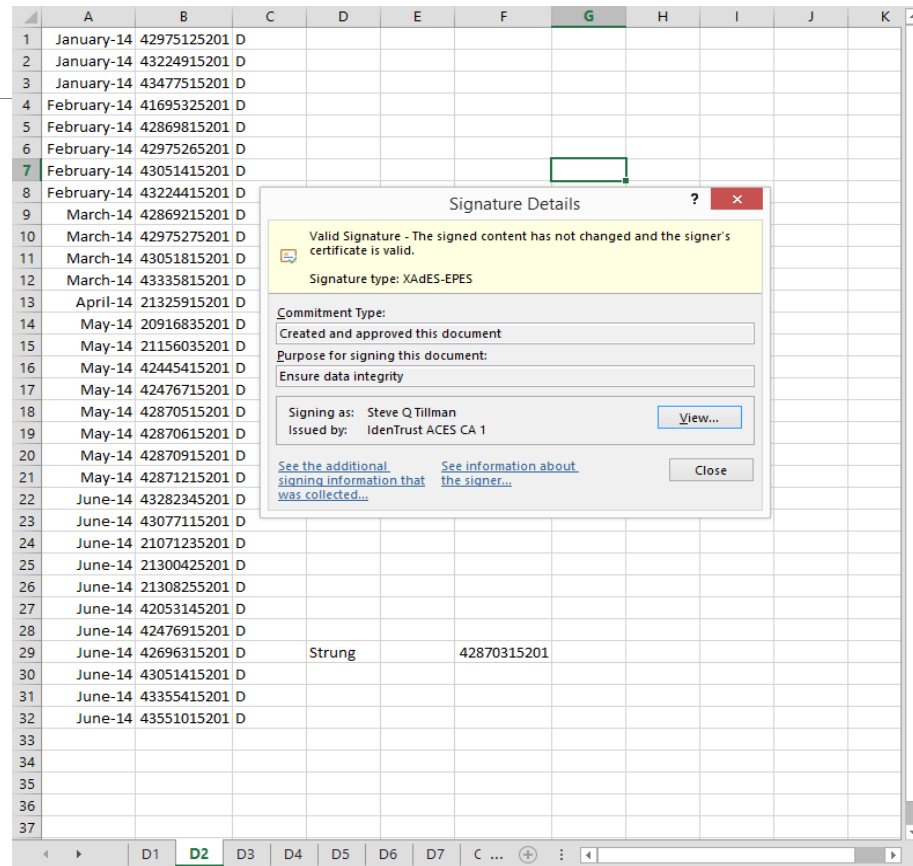
Excel Workbook – ensure data integrity



Do they do more than sign?

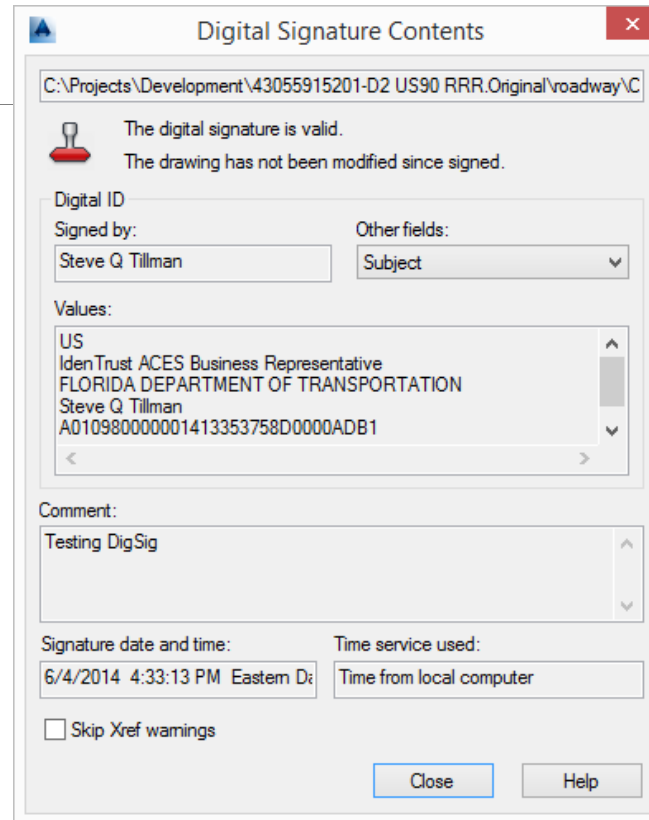
Excel Workbook –
Ensures the
signatory identity
and that no
changes have been
made.

Projects
Folder



Do they do more than sign?

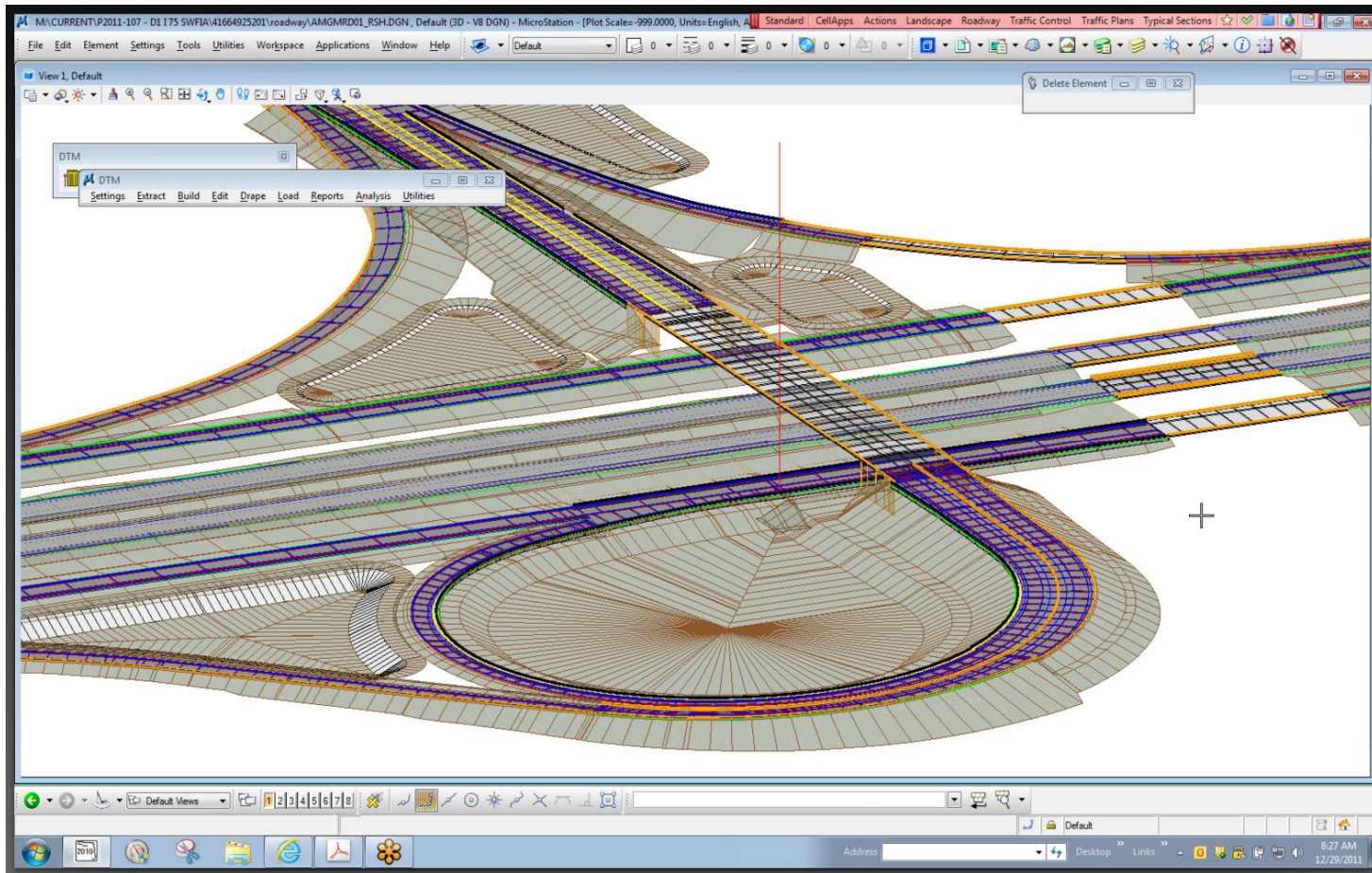
Native Autodesk – Civil 3D
Design file secured with
Digital Signature



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Produce 3D Models: Existing & Designed



LandXMLViewer

LandXMLSigner

LandXML
Folder

Digital delivery

QUINTON TILLMAN P.E.

FLORIDA DEPARTMENT OF TRANSPORTATION
ENGINEERING /CADD SYSTEMS OFFICE

EMAIL: QUINTON.TILLMAN@DOT.STATE.FL.US

WEB: [HTTP://WWW.DOT.STATE.FL.US/ECSO](http://www.dot.state.fl.us/ecso)

PHONE: 850 414 4894
