What's New with Digital Delivery?

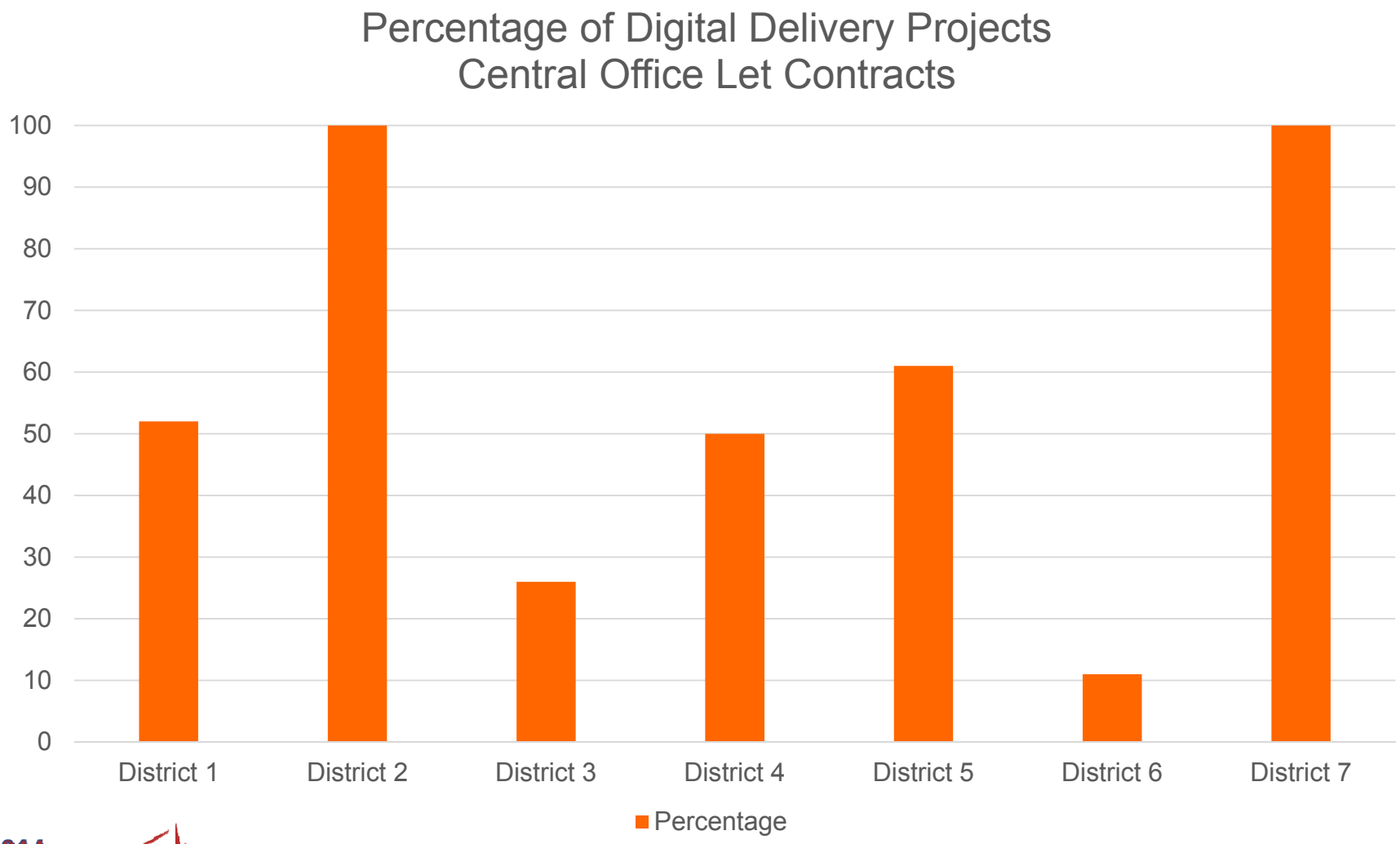
2014 Design Training Expo

A Look Back, A Look Ahead

What's New with Digital Delivery?

- Who’s on-board?
- Acquisition and Management of a Digital Certificate
- The Digital Appearance
- The Digital Delivery
- Popular PDF Software - Compatibility
- Digital Certificates – Do they do more than sign?
- Future of Digital Delivery

Who's On-Board?



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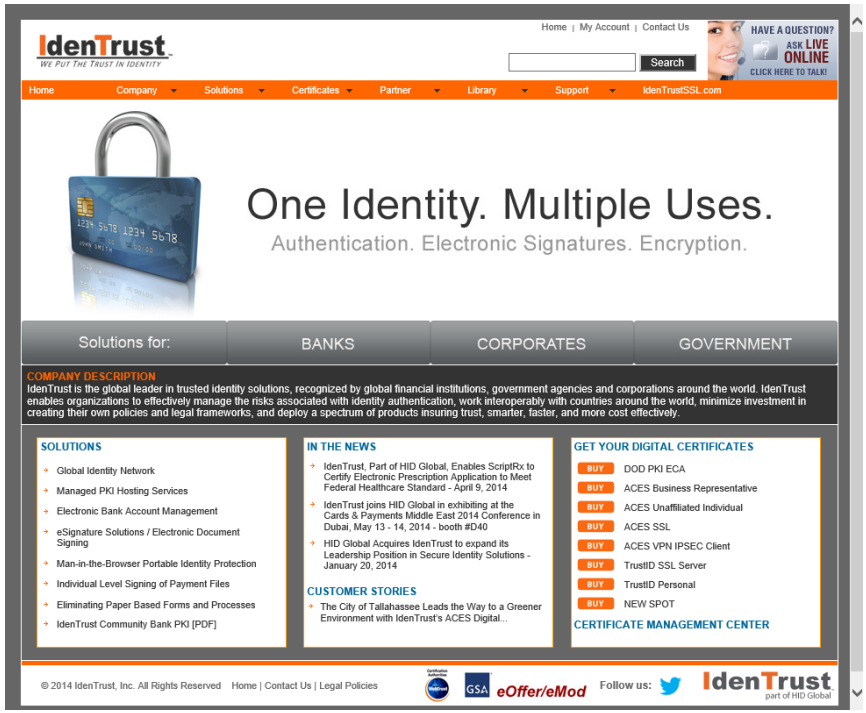
Acquisition and Management of a Digital Certificate

FDOT Employees

Consultants



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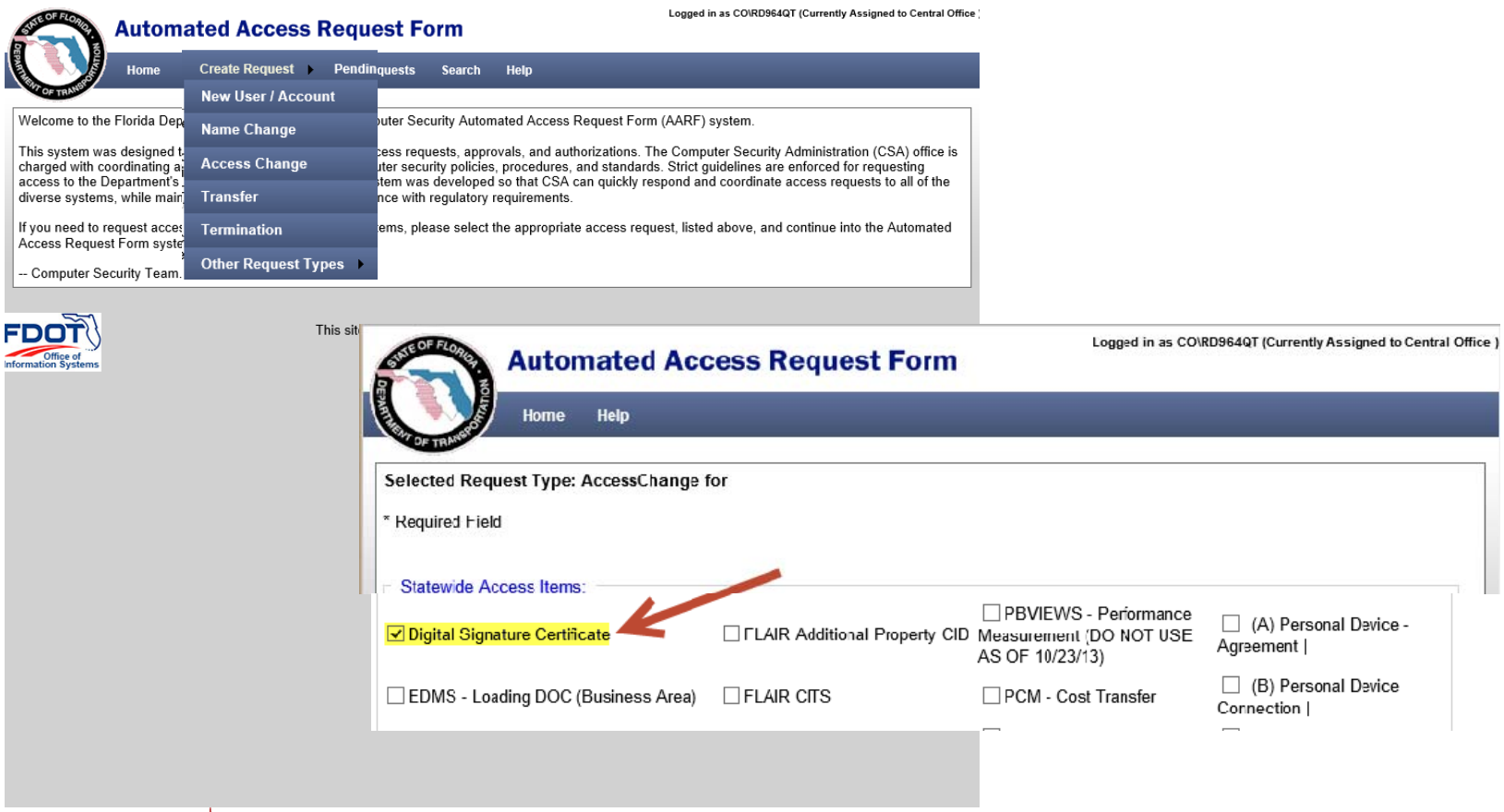
Acquisition and Management of a Digital Certificate

FDOT Employees

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



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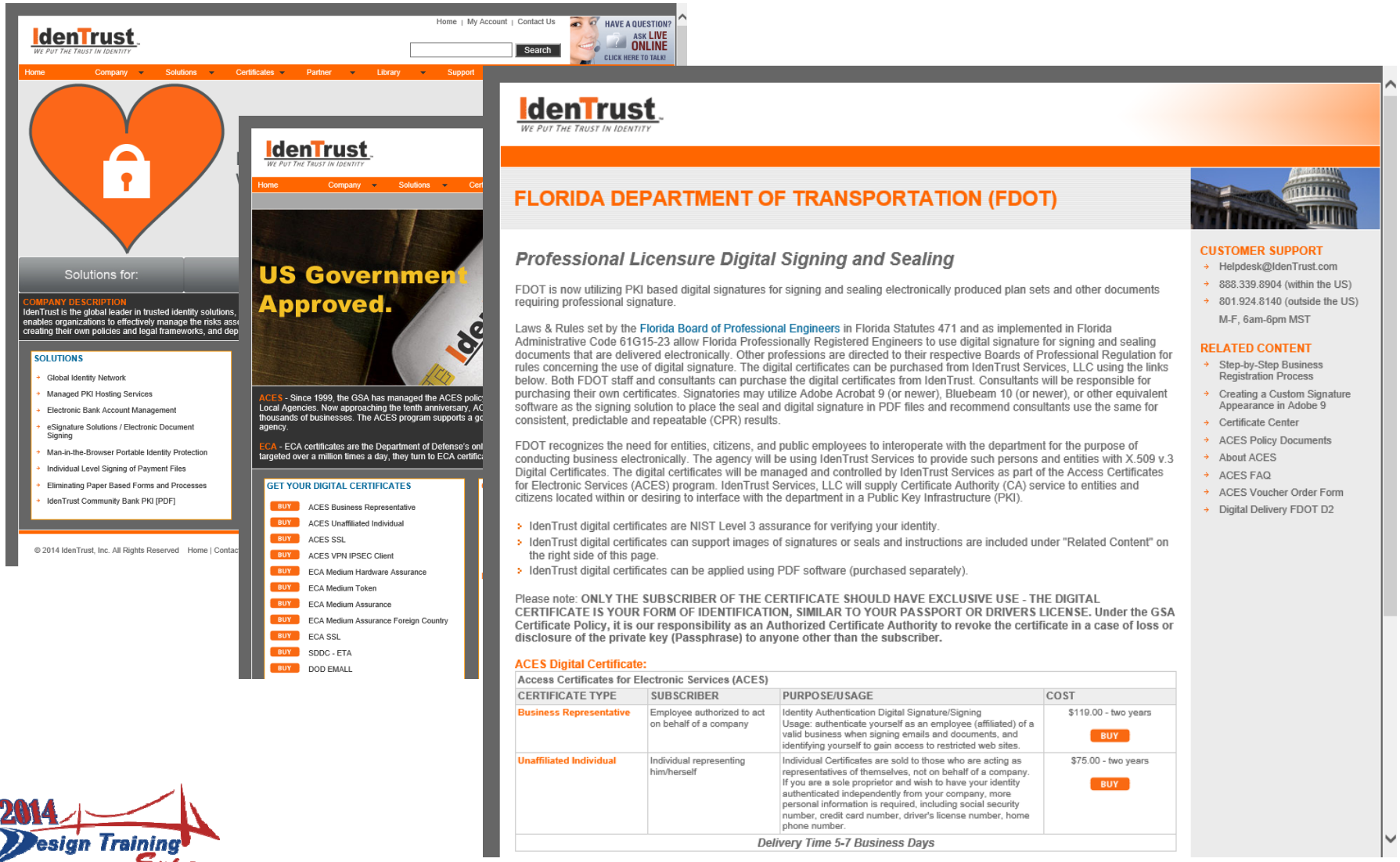
Acquisition and Management of a Digital Certificate

Consultants

http://www.identrust.com/



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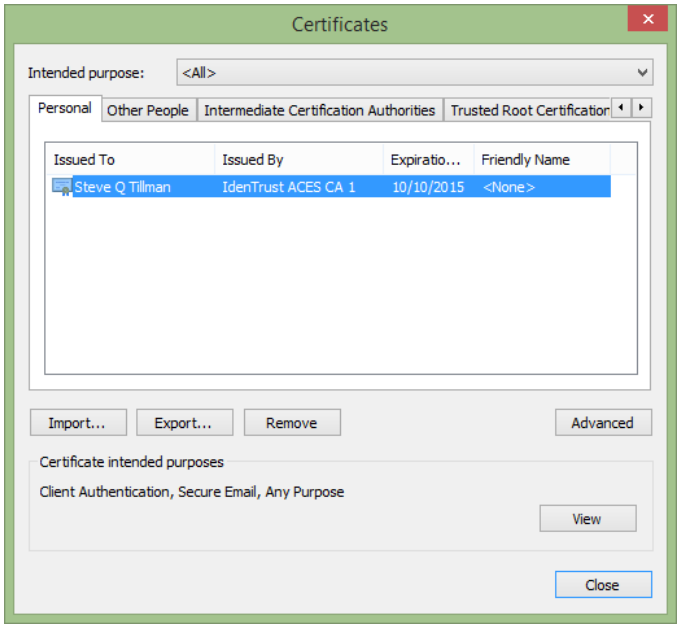
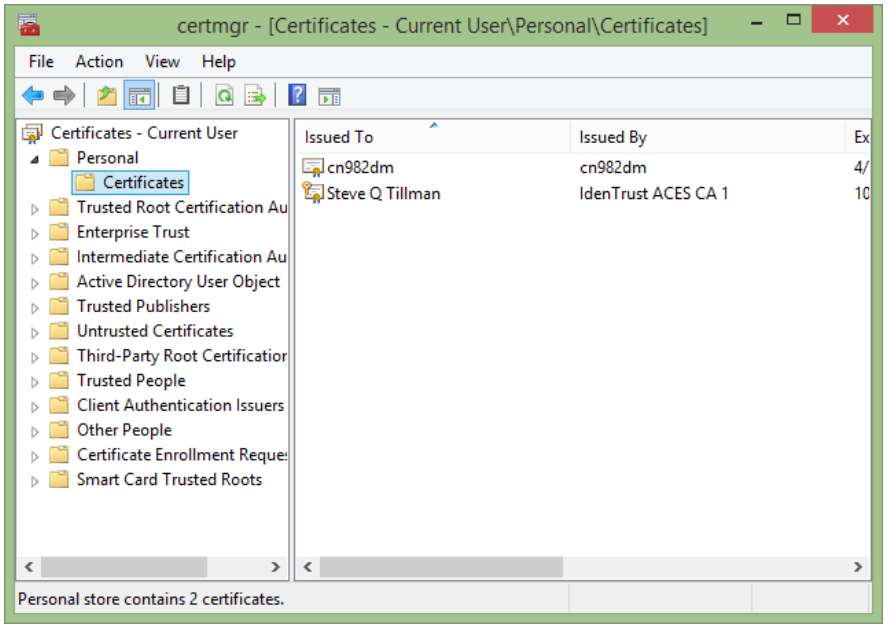
Acquisition and Management of a Digital Certificate

Windows 7 & Earlier



Windows 8.0 & Later



- Keep certificates in a secure location.
- Remember your password

Acquisition and Management of a Digital Certificate

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

IdenTrust
WE PUT THE TRUST IN IDENTITY

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

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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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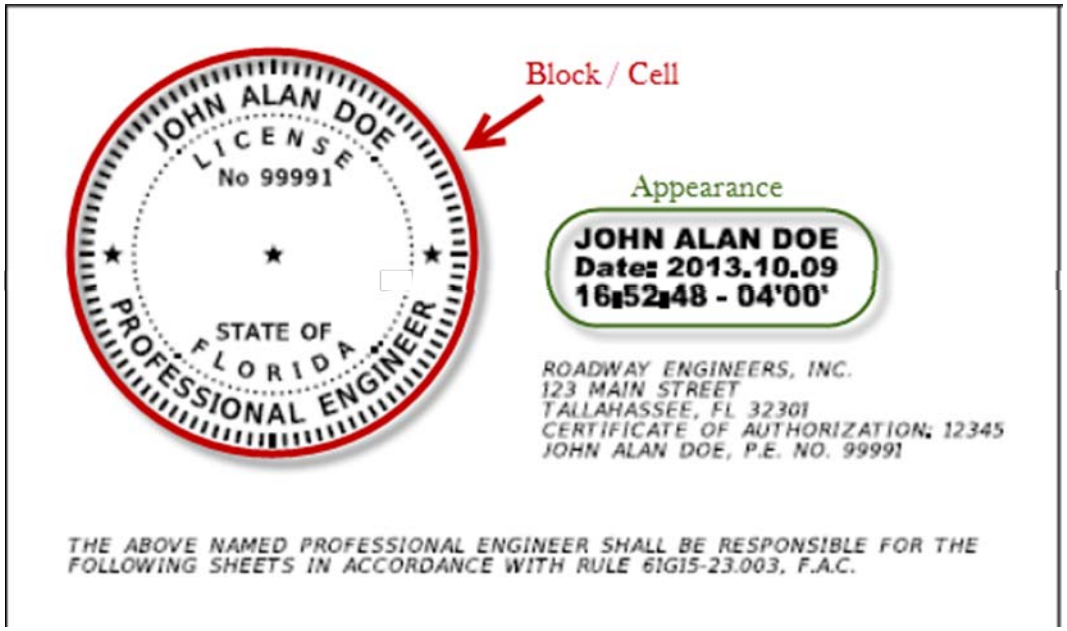
The Digital Appearance

Steve Q
Tillman

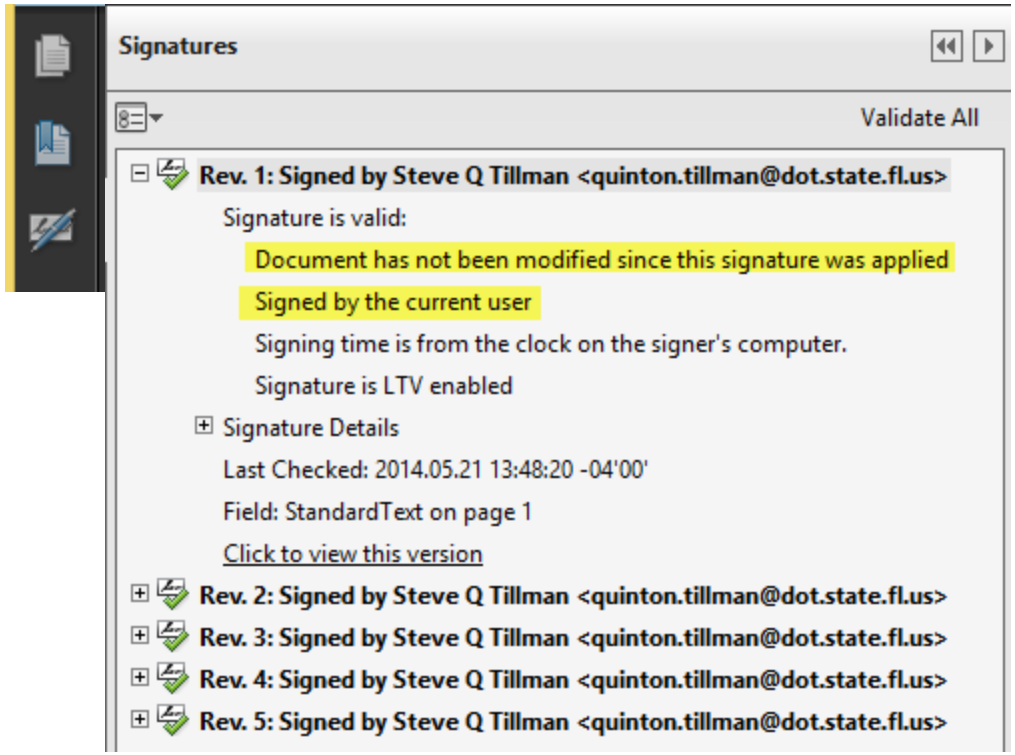
Digitally signed by Steve Q Tillman
DN: c=US, o=IdenTrust ACES Business Representative, ou=FLORIDA DEPARTMENT OF TRANSPORTATION, cn=Steve Q Tillman, 0.9.2342.19200300.100.1.1=A010980000001413353758D0000ADB1
Date: 2014.05.16 16:44:02 -04'00'

The Digital Appearance



The Digital Appearance

Validate digital signatures



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The Digital Delivery

What is in a Digital Delivery?

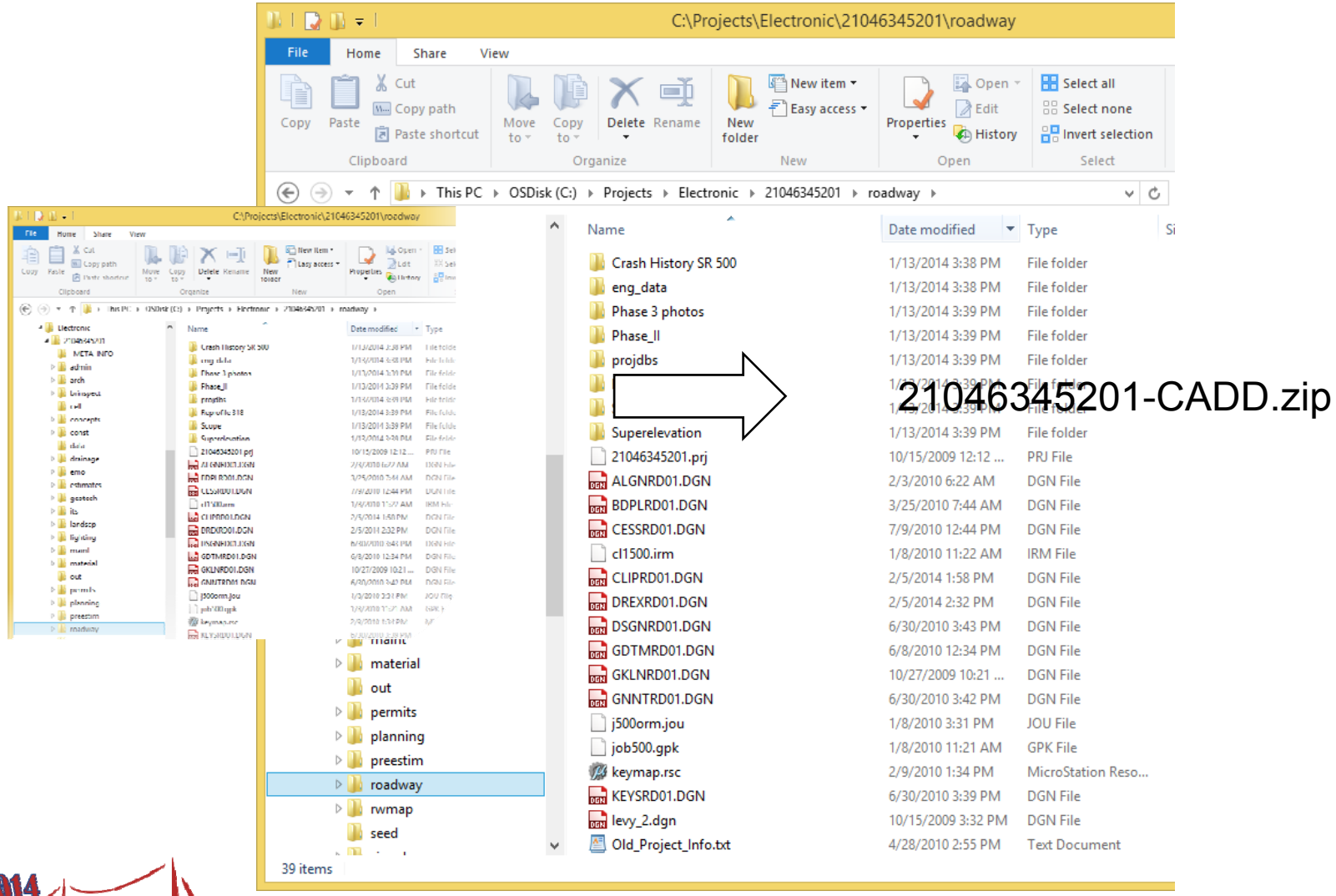
- Survey Data
- Project Data
- Native CADD files
- 3D Models for Automated Machine Guidance
- Multi-sheet PDF Document(s) representing the Plans Set
- Plan Sets now contain a Signature Sheet

The Digital Delivery

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



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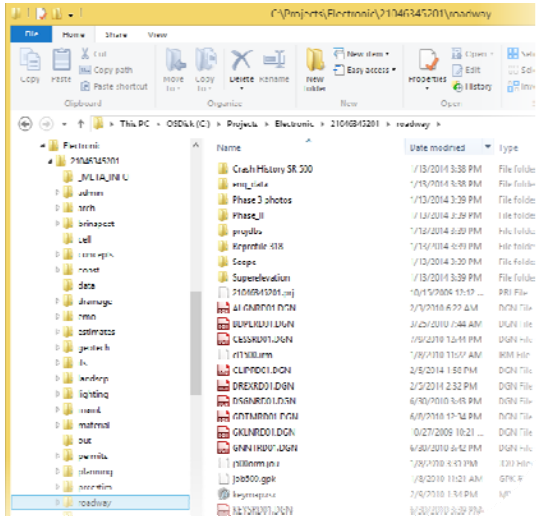
The Digital Delivery



21046345201-CADD.zip

The Digital Delivery

A Simple Digital Delivery

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

The Digital Delivery

A Distributed Digital Delivery

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

The Digital Delivery

A Strung Project Digital Delivery

- 98765415201
  - ✓ 98765415201-CADD.zip
  - ✓ 12345615201-CADD.zip
  - ✓ 98765415201-PLANS.pdf
  - ✓ 12345615201-PLANS.pdf
  - ✓ 98765415201-SPECS.pdf
  - ✓ 98765415201-SPECS-TSP##.pdf

The Digital Delivery

A Digital Delivery Revision

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

The Digital Delivery

A Future Digital Delivery?

- 98765415201
  - ✓ 98765415201-CADD.zip
  - ✓ 98765415201-PLANS.pdf
  - ✓ 98765415201-SPECS.pdf
  - ✓ 98765415201-SPECS-TSP##.pdf
  - ✓ 98765415201-MODEL-LXML.xml
  - ✓ 98765415201-MODEL-TIN.dgn
  - ✓ 98765415201-MODEL-DTM.dwg

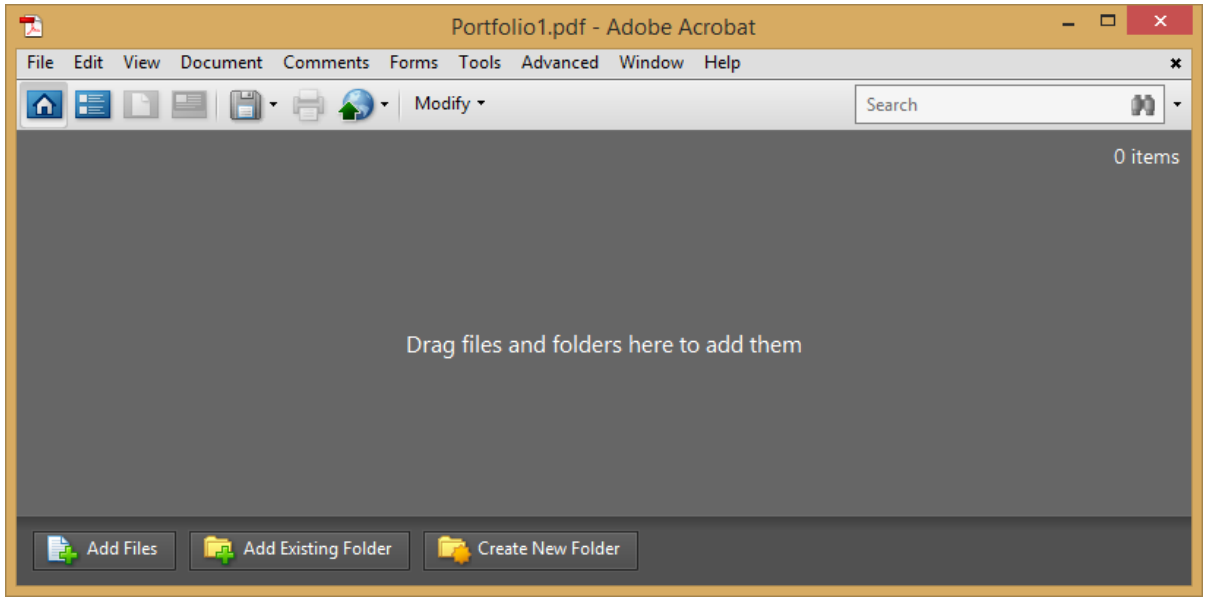
98765415201-ARCHIVE.ZIP

98765415201-PORTFOLIO.PDF

The Digital Delivery

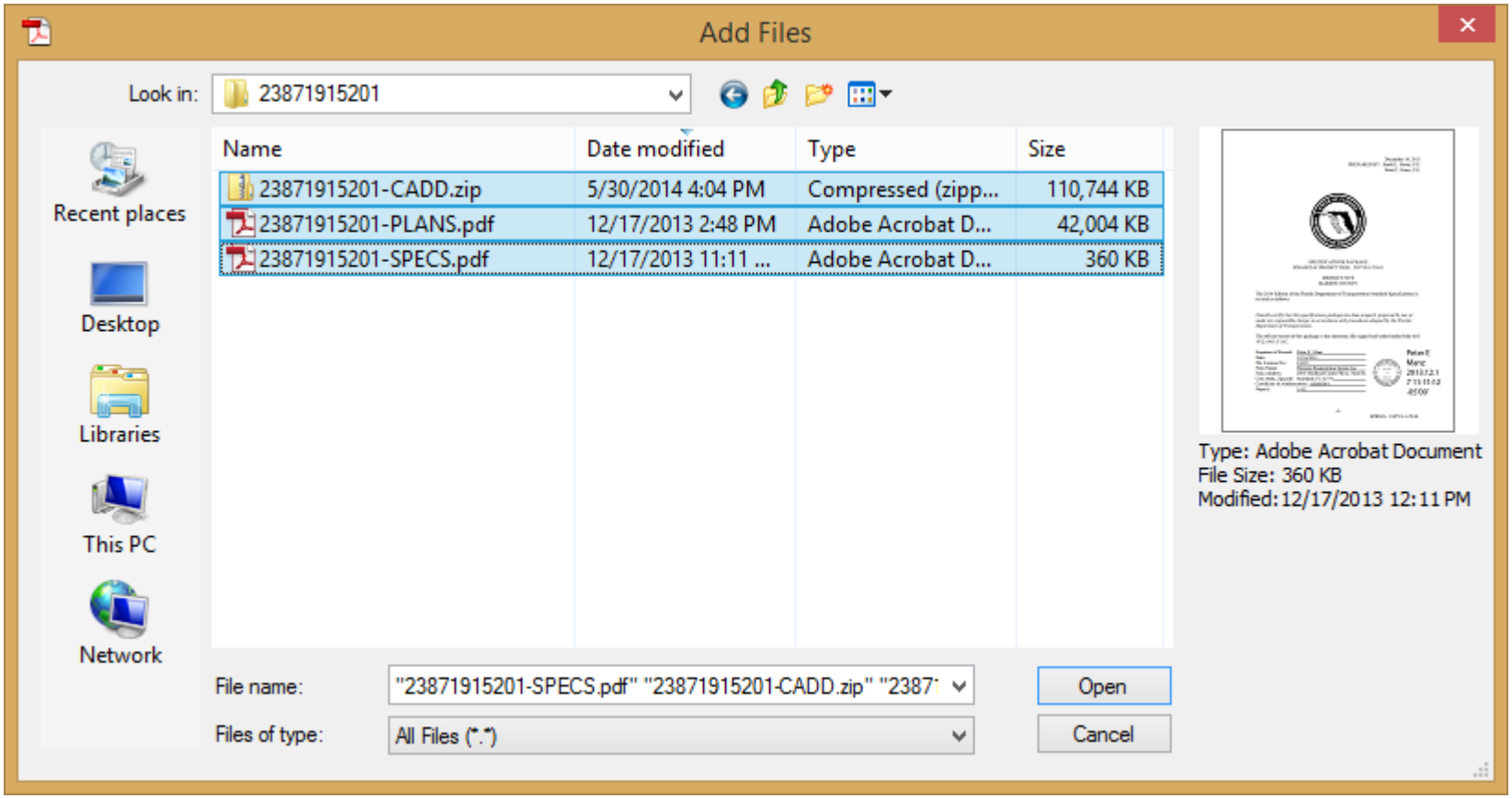
A Portfolio

File >> Create PDF Portfolio



The Digital Delivery

A Portfolio



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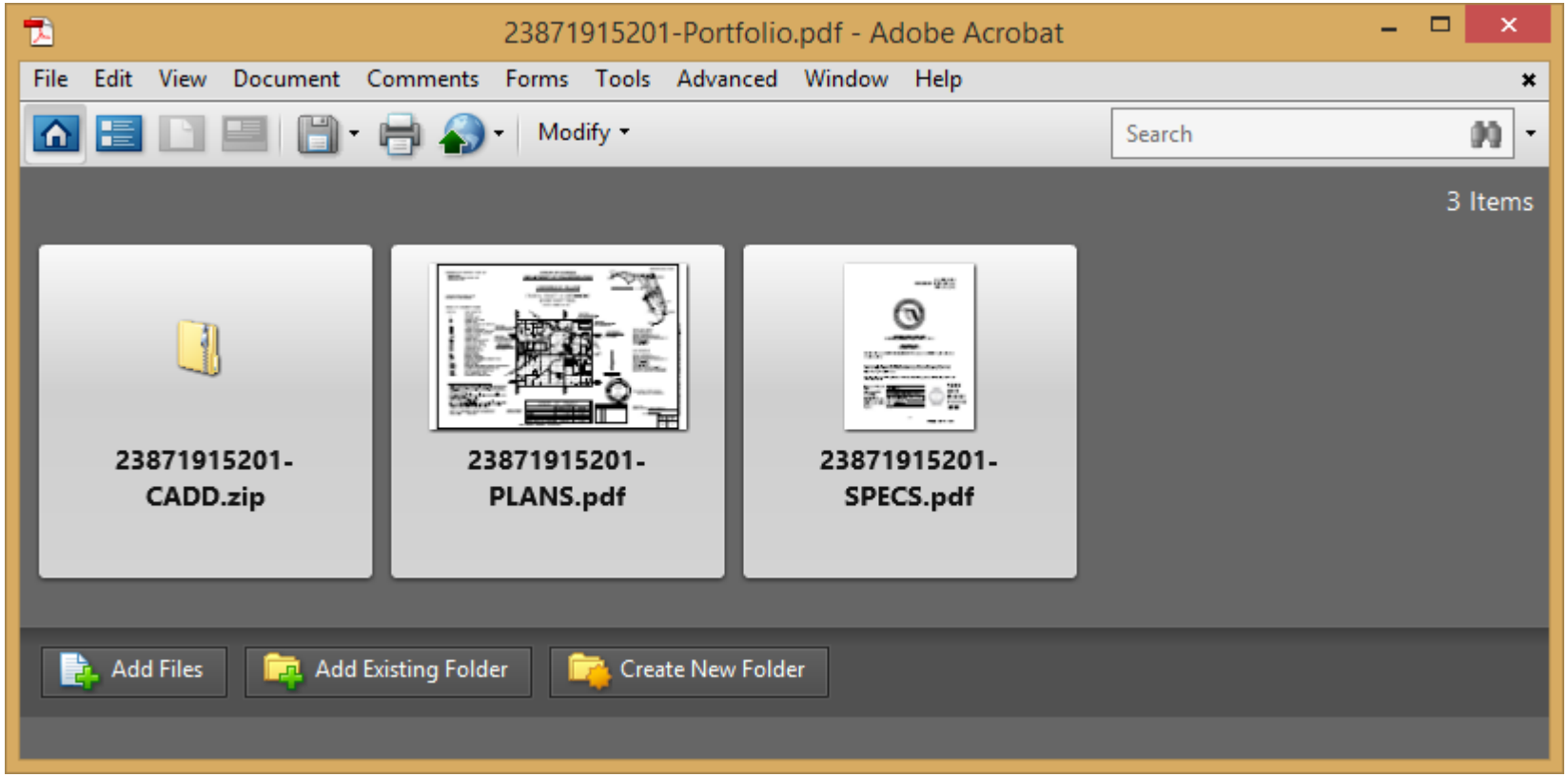
The Digital Delivery

A Portfolio



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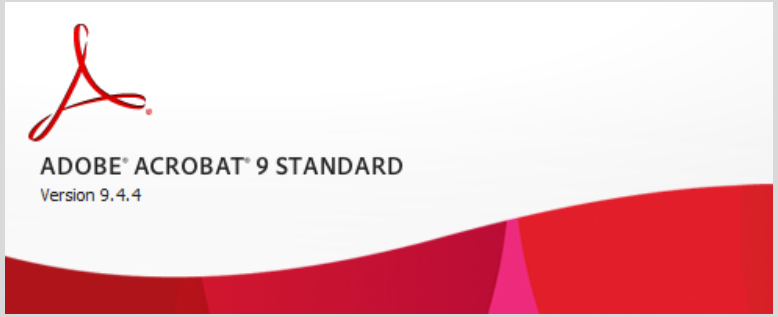
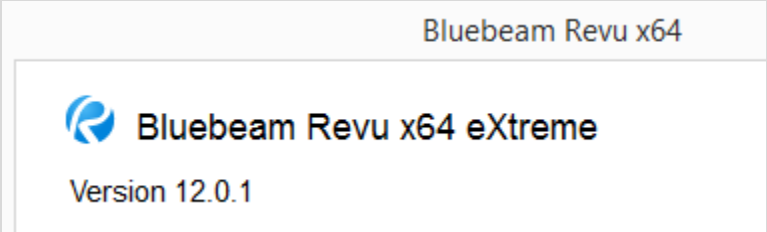
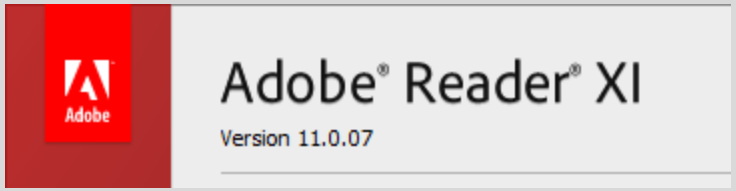
Popular PDF Software - Compatibility







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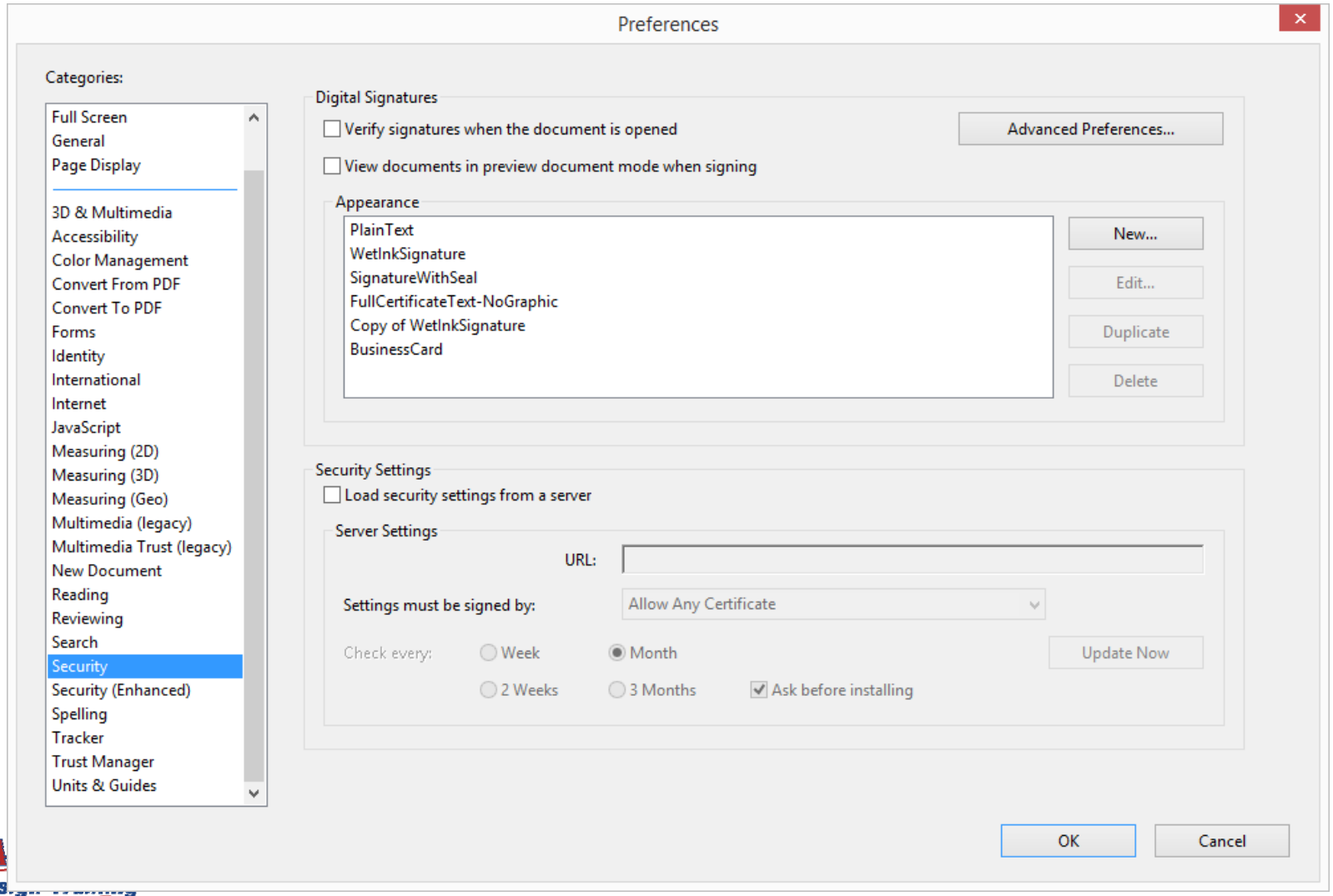
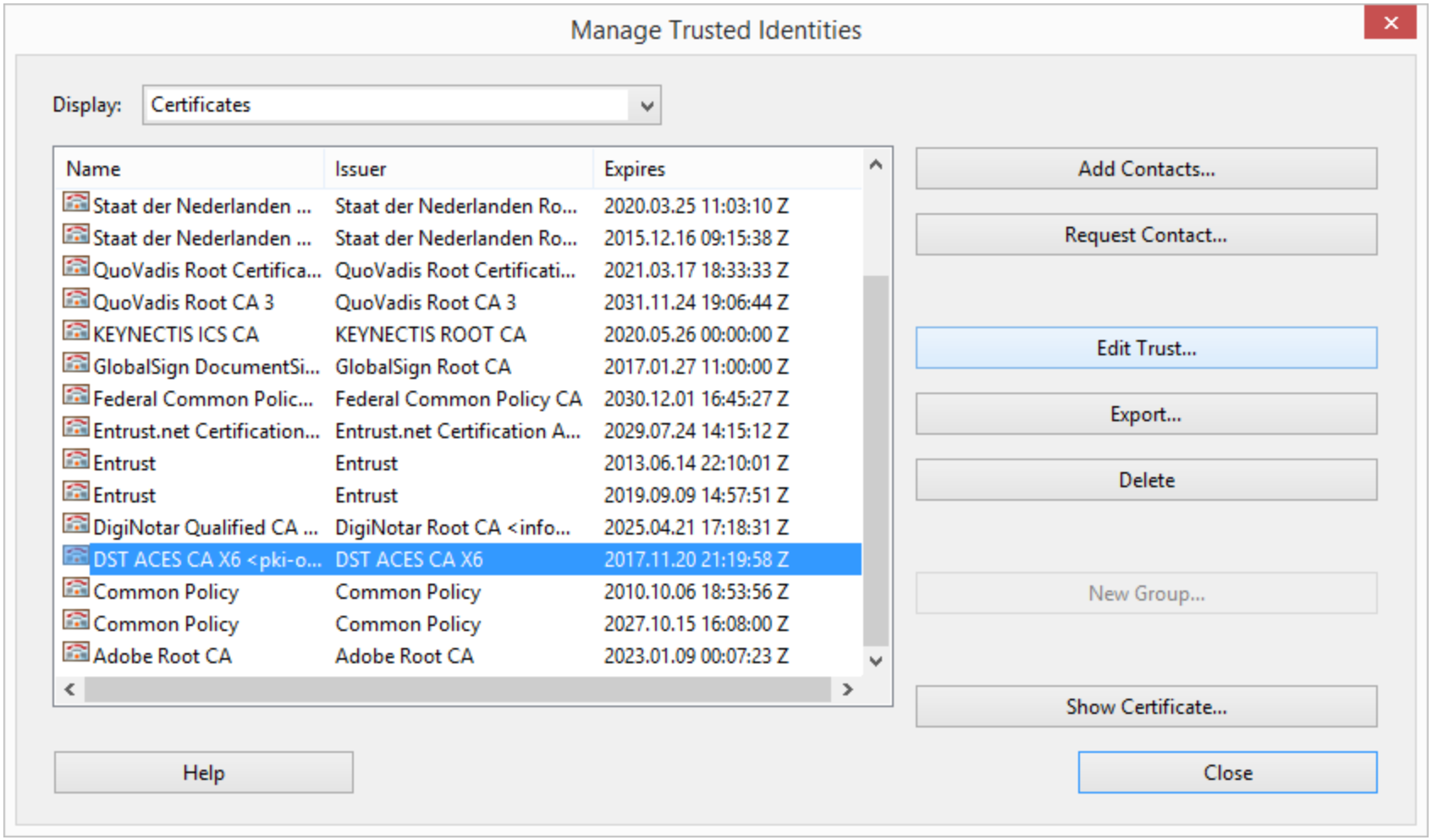
Popular PDF Software - Compatibility

Adobe – Edit >> Preferences



Popular PDF Software - Compatibility



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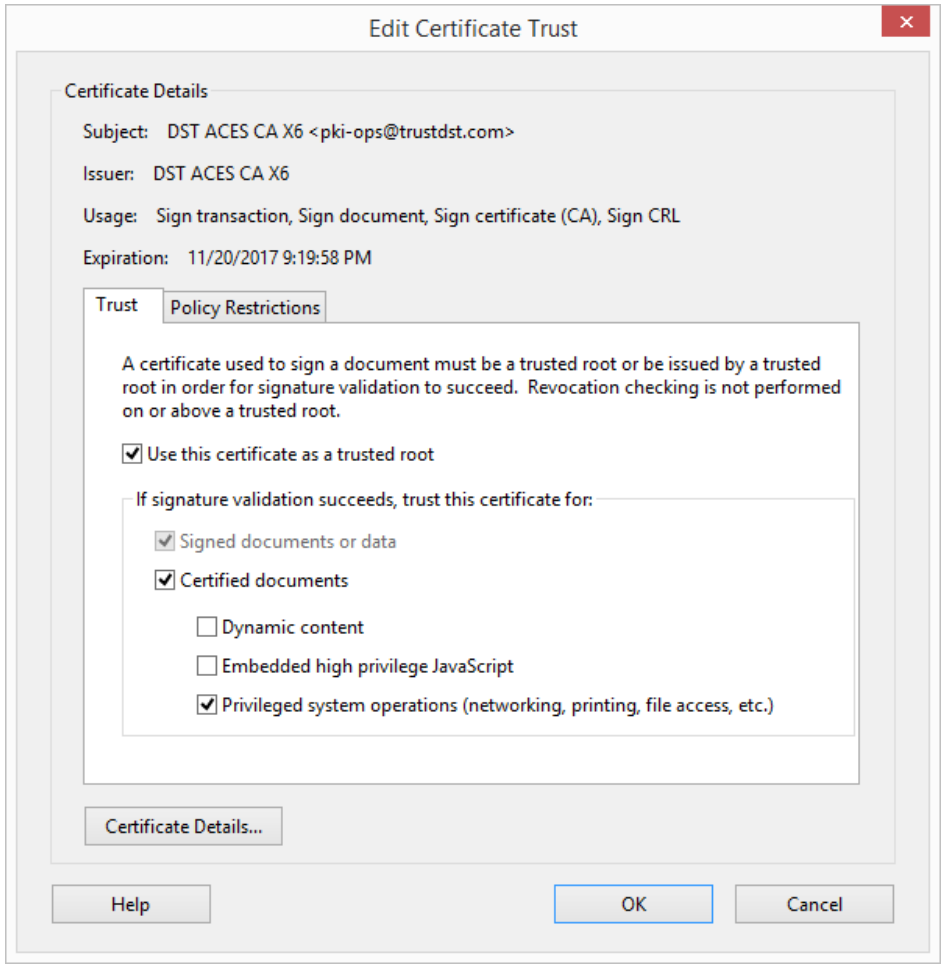
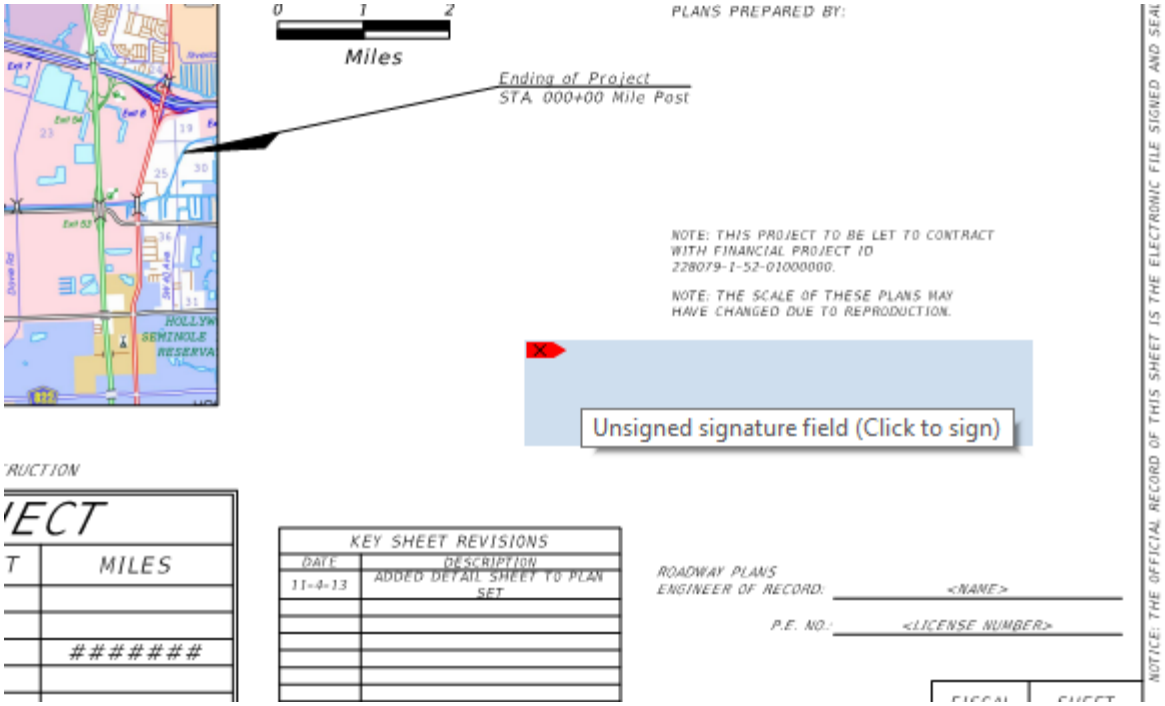
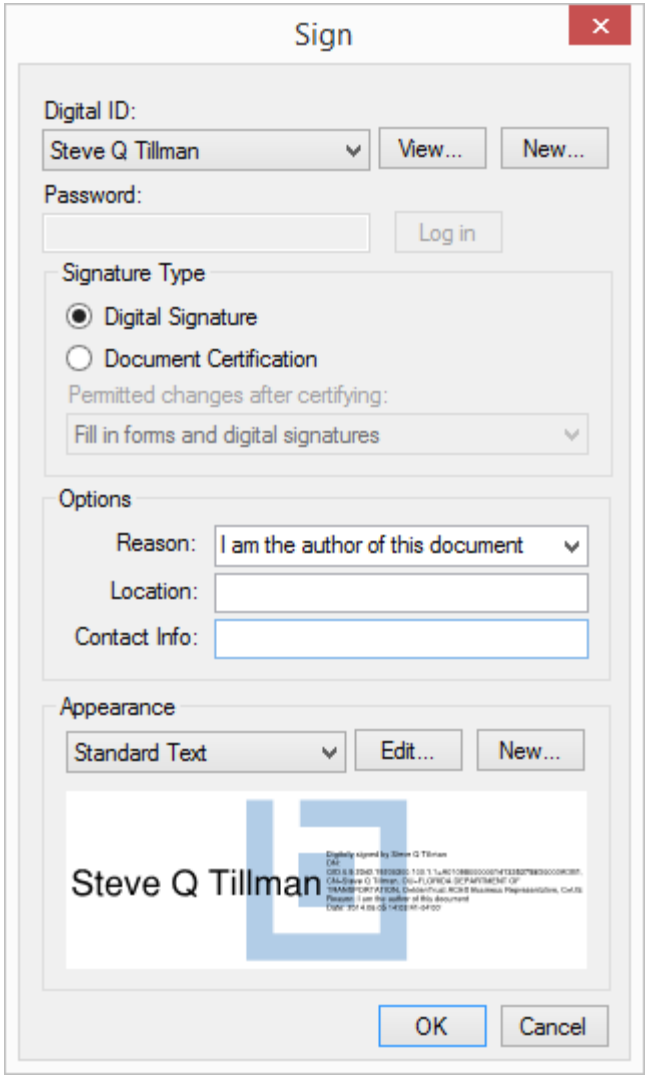
Popular PDF Software - Compatibility



Popular PDF Software - Compatibility



Popular PDF Software - Compatibility



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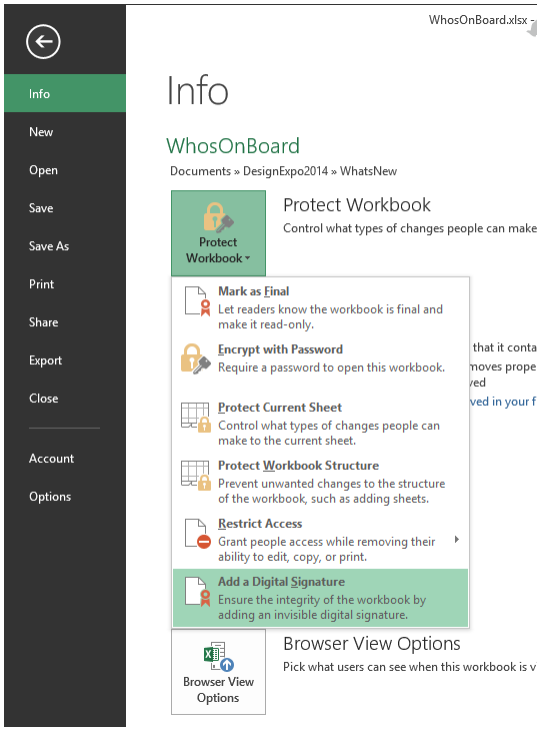
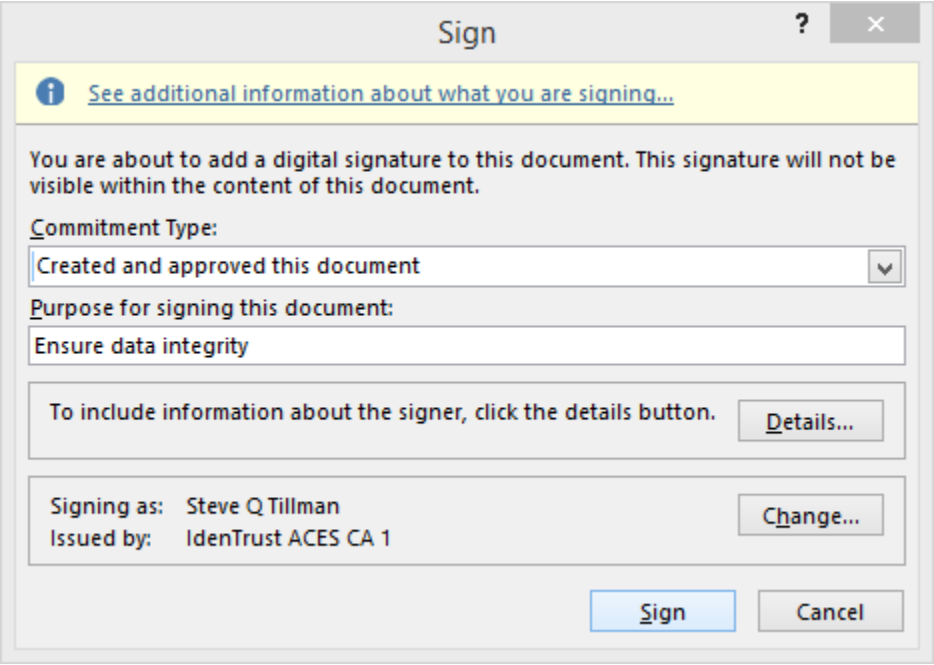
Do they do more than sign?

- 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

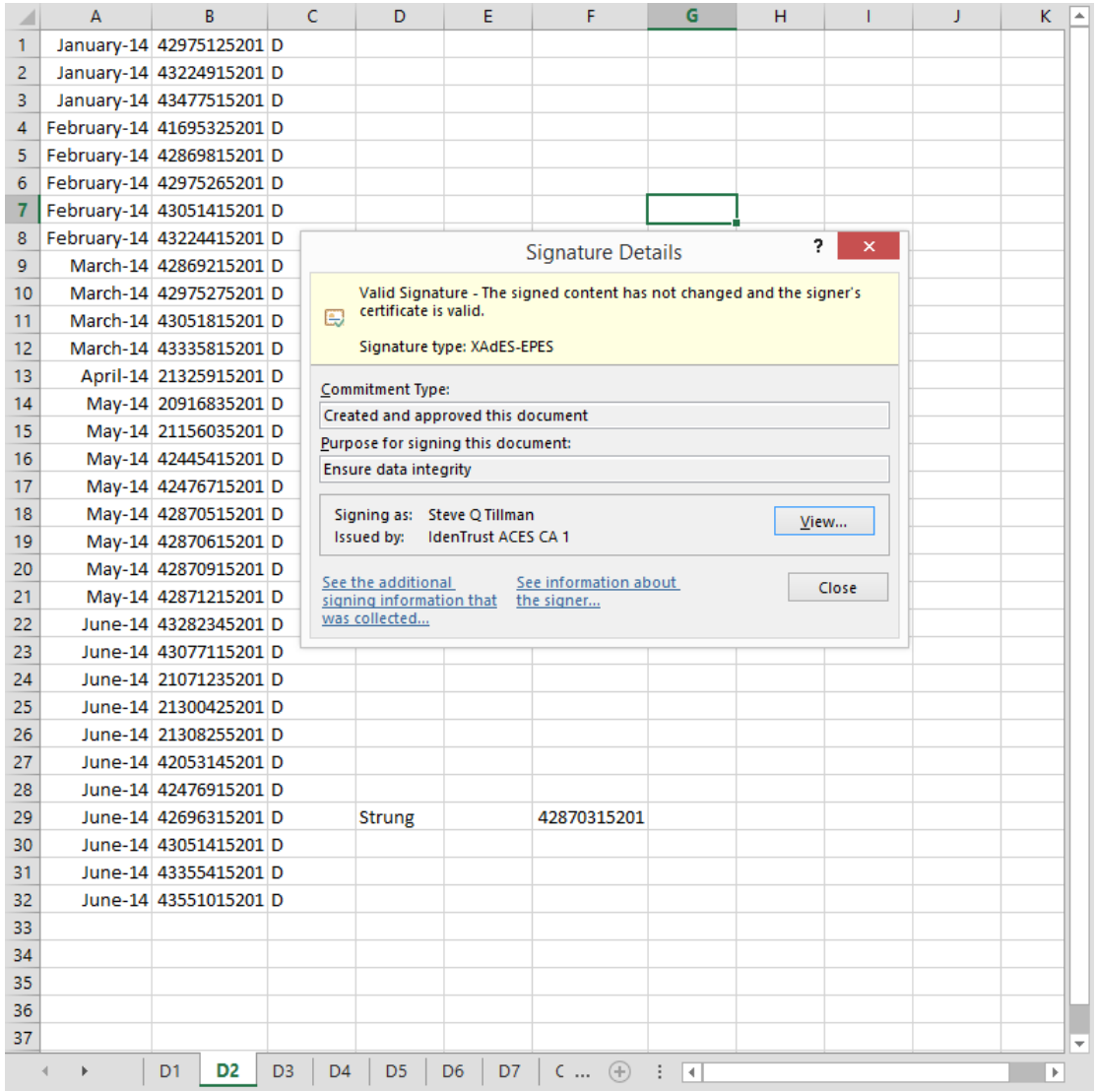




Do they do more than sign?

Excel Workbook –

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



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3	January-14	43477515201	D								
4	February-14	41695325201	D								
5	February-14	42869815201	D								
6	February-14	42975265201	D								
7	February-14	43051415201	D								
8	February-14	43224415201	D								
9	March-14	42869215201	D								
10	March-14	42975275201	D								
11	March-14	43051815201	D								
12	March-14	43335815201	D								
13	April-14	21325915201	D								
14	May-14	20916835201	D								
15	May-14	21156035201	D								
16	May-14	42445415201	D								
17	May-14	42476715201	D								
18	May-14	42870515201	D								
19	May-14	42870615201	D								
20	May-14	42870915201	D								
21	May-14	42871215201	D								
22	June-14	43282345201	D								
23	June-14	43077115201	D								
24	June-14	21071235201	D								
25	June-14	21300425201	D								
26	June-14	21308255201	D								
27	June-14	42053145201	D								
28	June-14	42476915201	D								
29	June-14	42696315201	D	Strung		42870315201					
30	June-14	43051415201	D								
31	June-14	43355415201	D								
32	June-14	43551015201	D								
33											
34											
35											
36											
37											

D1 D2 D3 D4 D5 D6 D7 C ...

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?

Land XML Data


```
<?xml version="1.0"?>
<LandXML xmlns="http://www.landxml.org/schema/LandXML-1.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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21" time="14:17:23" version="1.2" language="English" readOnly="false">
                    <Units>
                                        <Imperial areaUnit="squareFoot" linearUnit="USSurveyFoot" volumeUnit="cubicYard" temperatureUnit="fahrenheit"
pressureUnit="inchHG" diameterUnit="inch" angularUnit="decimal degrees" directionUnit="decimal degrees"></Imperial>
                    </Units>
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000000],PARAMETER[&quot;standard_parallel_2&quot;,29.58333333333333],UNIT[&quot;Foot_US&quot;,0.30480060960122]]"
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                    <P id="8">529361.23467391729 2038216.2703699768 206.884840385759</P>
                    <P id="9">529362.24817946553 2038269.5736652964 208.617054548214</P>
```

Do they do more than sign?

Digital Signature Block in Land XML


```
</Surfaces>
<xsig:Signature xmlns:xsig="http://www.w3.org/2000/09/xmldsig#">
<xsig:SignedInfo>
        <xsig:CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
        <xsig:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
        <xsig:Reference URI="">
        <xsig:Transforms>
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                <xsig:Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
        </xsig:Transforms>
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        </xsig:Reference>
</xsig:SignedInfo>
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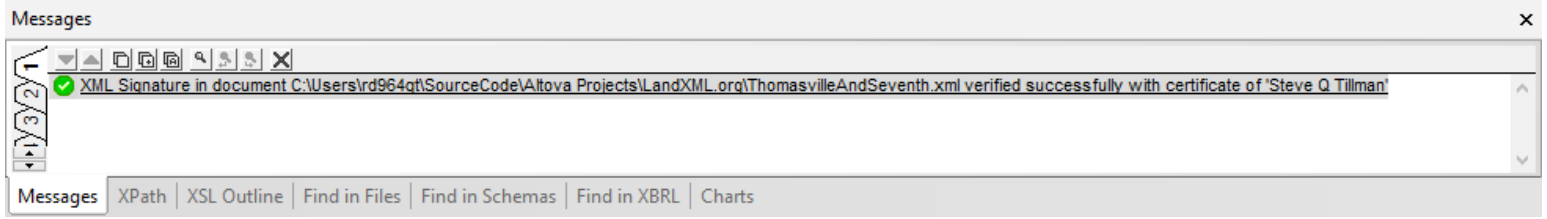
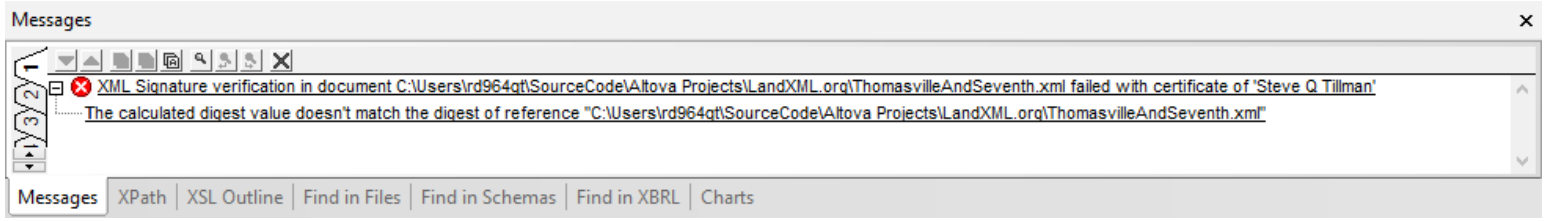
Do they do more than sign?

Validating XML





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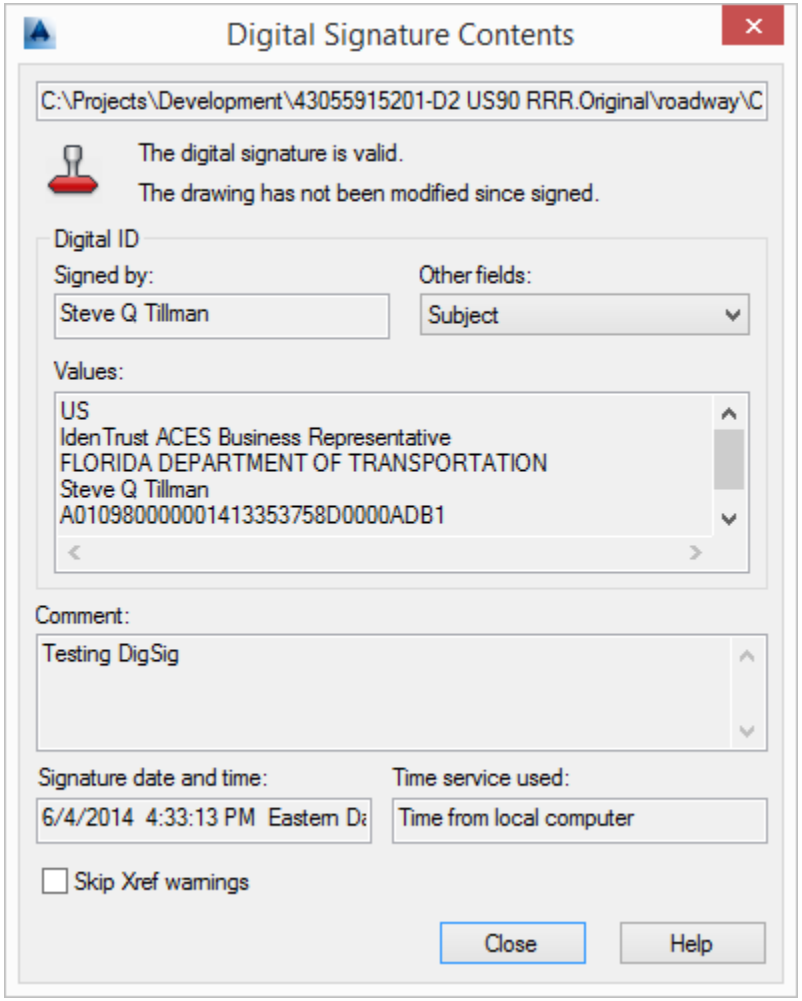
  - ✓ Native CAD files

Do they do more than sign?

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



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- Future of Digital Delivery

Future of Digital Delivery

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.

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WHAT'S NEW WITH DIGITAL DELIVERY?

2014 Design Training Expo