Digital Signatures with Transceiver

Signatures and certificates

Transceiver offers a solution for creating digital signatures on any file, not limited to Word, Excel or PDF. The digital signatures are not stored in the file itself, but in a separate file. E.g.: if you have a file "Contract.pdf", the signatures are stored in "Contract.pdf.t-sig".

This T-Sig file is based on the XAdES $1.4.1^1$ standard. To create a signature, you need an X.509 v3 certificate that supports non-repudiation (like the Belgian eID card²). Optionally, the signatures can also be timestamped by a trusted timestamping authority following the RFC 3161^3 standard.

Transceiver products that support digital signatures

- Transceiver Communicator
 - An interactive Windows application to securely transmit and receive files.
- Transceiver Automator

A workflow-driven Windows service to automate the handling of incoming and outgoing files.

Transceiver Q-Sign

An interactive Windows application to create and verify digital signatures. (not publically available yet)

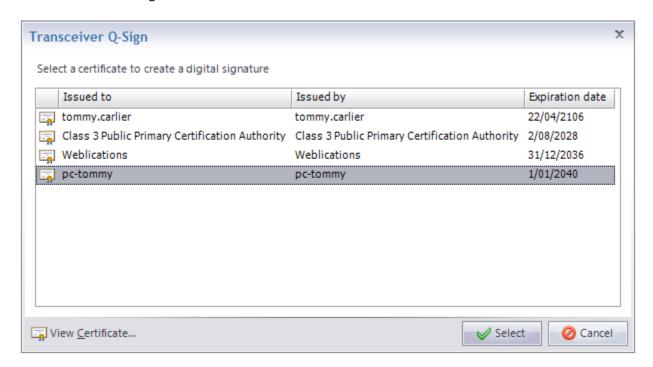
¹ XAdES 1.4.1: http://uri.etsi.org/01903/v1.4.1/ts_101903v010401p.pdf

² Belgian eID: http://eid.belgium.be/

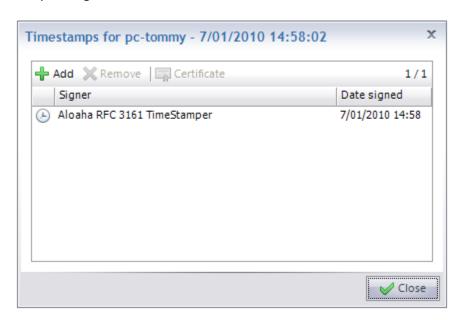
³ RFC 3161: http://tools.ietf.org/html/rfc3161

Creating a digital signature interactively

Select a certificate to sign with:



Optionally, timestamp the signature:

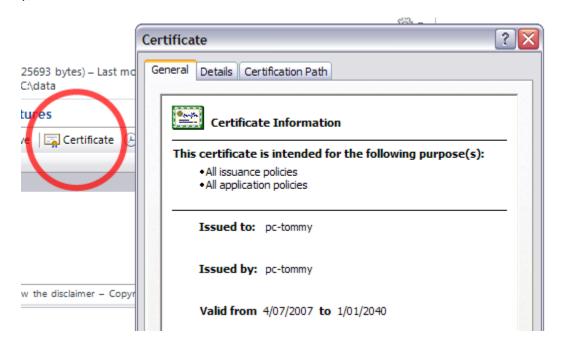


Verifying a signature

Check the signature status:

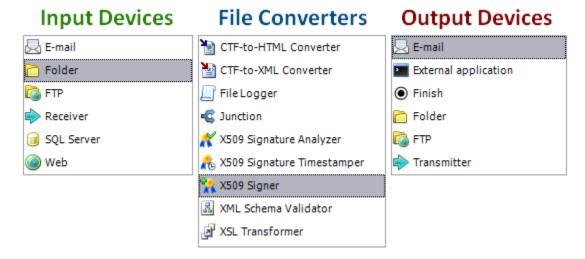


Optionally, check the certificate:

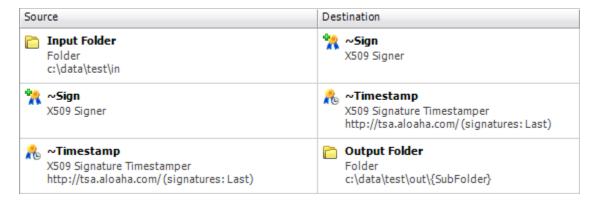


Creating a digital signature automatically using Transceiver Automator

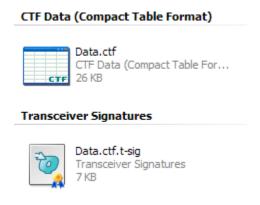
With Transceiver Automator you can create workflows to automatically create digital signatures and trusted timestamps for files that are received from e-mail, FTP, Transceiver, the Web or your local file system. After processing the file, it can be stored locally or on an FTP-server, transmitted via e-mail or Transceiver, or processed by an external application.



Here's an example of a workflow that gets files from a folder, adds a digital signature, adds a timestamp and stores the file (with signature) in a different folder:



After dropping the file Data.ctf in the input folder, the file and signatures appear in the output folder:



Transceiver Automator provides an API (in .NET 2.0) that enables you to write your own *input devices* (plug-ins that receive files), *output devices* (plug-ins that transmit files) or *file converters* (plug-ins that convert files).

```
Disassembler
Weblications.Transceiver.Automator.Extensibility
■ Weblications.Transceiver.Automator.Extensibilit
                           public abstract class FileConverter : Plugin
  ⊕ {} -
                             // Fields
  private int fFileConverterPK;
   private InputDevice fInputDevice;
   private readonly object fLockUpdates;
   private string fName;
   private OutputDevice fOutputDevice;
   // Methods
   protected FileConverter();
   internal override string GetNameToLogStar
   internal void Initialize(InputDevice inpu
   internal void Process(IAutomatorFileOutpu
   protected abstract void ProcessCore(IAuto
   internal void Update(string name, Paramet
   // Properties
   internal int FileConverterPK { get; set;
   internal InputDevice InputDevice { get; }
   public string Name { get; internal set; }
   internal OutputDevice OutputDevice { get;
```