Migration from the OpenSign Java Applet to the NemID CodeFile Client

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Version History

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1 The Purpose and Target Group of the Document

This document is part of the NemID Service Provider Package.

The purpose of this document is to assist you in the migration from the OpenSign Java applet to the NemID CodeFile client.

The document is aimed at developers and architects at the NemID Service Provider or Service Partners.

2 The existing OpenSign Java Applet

The NemID "Client without OTP" for locally stored NemID private key is currently based on the OpenSign Java applet.

The use of Java browser plug-ins is losing support from major browser vendors and Nets DanID wants to provide a "Client without OTP" that can work independent of Java plug-ins.

3   The new NemID CodeFile client

The replacement for the OpenSign applet is called NemID CodeFile client.

This consists of:

- an iframe, which is responsible for embedding web UI. The page can contain only one NemID CodeFile client iframe. (released)

- a native application, which runs on clients PC and enables reuse of OpenSign APIs. (to be released)

- a browser plugin, which enables communication between iframe and native application (to be released)

Response message format delivered from NemID CodeFile client is identical to the one used by OpenSign Applet making reuse of existing response handling logic possible.

It is recommended, that Service Providers migrate their existing OpenSign based implementations to NemID CodeFile client now in order to be prepared for Applet free setup.

If the NemID native application is not available on end users computer, NemID CodeFile client will guide the end user to installation or fall back to the legacy OpenSign applet based implementation by dynamically injecting necessary HTML for applet rendering.

3.1 Integration

In order to instantiate NemID CodeFile client, the following code must be included on service providers page:

- A script tag with id=codefile_parameters containing client parameters in JSON format needed for logon/signing operations

- An iframe tag with id=codefile_iframe

- Java script for communication with the iframe using web messaging.

- A form tag with id=signedForm for encapsulation of response data from NemID CodeFile client to the service providers response handler.

This setup is similar to integration with NemID JavaScript client.

All of the above can be generated with a help of CodeFileClientGenerator class, available within TUExample demo application.

3.2 Parameters

When signing a PDF document, it is now mandatory to include a complete document as a base64 encoded string amongst the client parameters (this has always been true for plain text/html/xml documents). It is still required to include an URI reference and a hash of the document, in order to maintain backwards compatibility with OpenSign Applet. This is also true for attachments, which were not encapsulated in their full (URI's & hashes were used instead) in signing transaction until now.

Parameters used solely by OpenSign Applet became second level arguments under ADDITIONAL_PARAMS parameter. Those include: subjectdnfilter, signtext.uri, signtext.uri, signtext.uri.hash.value, signtext.uri.hash.algorithm, attachments.

For the full list NemID CodeFile parameters, please refer to chapter 11.1 Parameters of the "NemID Integration - OCES.pdf" document.