

How to contribute as issuer of signature creation devices?

The non-profit Open Signature Initiative aims at supporting the process of implementing a single European market of trustworthy services by enhancing transparency and interoperability with respect to electronic signature technology and related trust services.

Issuers of signature creation devices are cordially invited to provide *test devices* and corresponding *technical specifications* in order to facilitate the creation of standardised capability descriptions according to [1] and [2] and provide accessible *information about the implemented registration process* and guidance how to perform the registration in a cross-border setting.

1. How should the device related information be provided?

The description of the issued signature creation devices (SCD) should be provided in form of an XML-based `Issuer`-element according to the schema available at <http://ws.openecard.org/schema/OpenSignature.xsd> and the description provided in Section 2 below.

The XML-based description and any related inquiries should be sent to signature@openecard.org and the test devices should be sent to the following postal address:

Open Signature Initiative
c/o ecsec GmbH
Sudetenstraße 16
96247 Michelau
Germany

2. The structure of the `Issuer`-element

The `Issuer`-element has the following child elements:

- `TSPInformation` – provides information about the issuer of the SCD. The structure and content of this element is specified in [3].
- `IssuerLogo` – is a link to the logo of the issuer of the SCD.



- **Device** – may appear multiple times and provides information for a specific SCD. This element contains the following child elements:
 - **ShortName** – is a short name for the issued SCD, which is a unique identifier among the set of SCDs listed in the directory of the Open Signature Initiative.
 - **Name** – is the localised full name of the SCD. If there are different names for the SCD in different languages, this element may appear multiple times with different `xml:lang` attributes.
 - **ImageFront** – is a link to a picture of the front side of the SCD.
 - **ImageBack** – is a link to a picture of the back side of the SCD.
 - **StartOfIssuance** - indicates since when the SCD has been issued.
 - **IssuanceStatus** – may appear multiple times and describes how many SCDs have been issued at a certain point in time. This element has the following child elements:
 - **IssuedDevices** – indicates the number of issued devices at the point in time specified by the **Date** element below.
 - **Date** – specifies a point in time.
 - **Source** – specifies the source of the figures provided above and should provide a link to further information.
 - **ValidityPeriodYears** – specifies the validity period of the issued SCD.
 - **FormFactor** – may be present multiple times in order to specify the form factors in which the SCD is available. The following values based on [4] are defined:
 - ID-000
 - ID-1
 - ID-2
 - ID-3
 - other
 - **DeviceServiceType** – may be present multiple times in order to describe the services supported by the device, whereas the following values are defined:
 - **eID** – indicates that the device is a national identity document.
 - **QES** – indicates that the device is a secure signature creation device and is equipped with a qualified certificate and hence allows to create qualified electronic signatures.
 - **OptionalQES** – indicates that the device is a secure signature creation device onto which a qualified certificate may be downloaded.



- AdES – indicates that the device allows to create advanced electronic signatures, but can not be equipped with a qualified certificate in practice.
 - Decryption – indicates that the device supports functionality for decryption.
 - Biometrics – indicates that the device supports biometric user authentication.
 - TravelDocument – indicates that the device is a machine readable travel document according to [5].
- CardInfoObjectIdentifier – is the unique identifier of the CardInfo file of the SCD as specified in [2].
 - SpecificationLink – may be present multiple times in order to point to relevant technical specifications, which describe the capabilities and card commands of the SCD.
 - Attribute – may be present multiple times in order to specify what kind of attributes can be derived from the device, whereas the list of specified attributes is defined by <http://ws.futureid.org/attributes.xml>.
 - RegistrationLink – is a localised link to a web site of the issuer, which explains how the registration for the SCD is performed. If there are different web sites in different languages, this element may appear multiple times with different `xml:lang` attributes.

References

- [1] CEN, Identification card systems - European Citizen Card - Part 3: Interoperability using an application interface, CEN/TS 15480-3, 2008.
- [2] ISO/IEC 24727, *Identification cards - Integrated circuit card programming interfaces - Part 3: Service Access Layer*, International Standard, 2008.
- [3] ETSI, Electronic Signatures and Infrastructures (ESI), *Provision of harmonized Trust-service status information*, ETSI TS 102 231, V3.1.2, 2009.
- [4] ISO/IEC 7810, *Identification cards - Physical characteristics*,



International Standard, 2003.

- [5] ICAO, *Machine Readable Travel Document, Doc 9303*, <http://www.icao.int/publications/pages/publication.aspx?docnum=9303>.