

Organization identifier: setting some fields to optional if set

We would like to discuss the following topic "setting some fields to optional if Organizational identifier is set" in *EV* certificates

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Suggestion Overview

- Topic is about naming fields of *EV certificates*, i.e.
 - CABFOrganizationIdentifier extension and
 - Subject Distinguished Name (SDN) attributes (OrganizationIdentifier, Jol-fields and serialNumber)
- If the OrganizationIdentifier is included in the Subject Distinguished Name of a certificate the CABFOrganizationIdentifier extension should be *optional* only.
- The OrganizationIdentifier attribute contains the register information (register ID and jurisdiction). The following attributes are redundant and therefore should be *optional* as well:
 - all JurisdictionOfIncorporation fields, i.e. JoiCountry, JolStateOrProvince and JolLocality (These can be concluded from the value in the OrganizationIdentifier.)
 - serialNumber (the register ID is included in the OrganizationIdentifier as well)

OrganizationIdentifier: Structure & Examples

- Structure: <prefix><country code>-<id, conditional>
- E.g.
 - NTRCH-CHE-109.357.012 – National Trade Register
 - VATDE-123456789 - Tax id
 - GOVUS-NY - Government Entity
 - INTXG (International Organization)
 - LEIXG-UXIATLMNPCXXT5KR1S08 - Legal Entity Identifier (financial sector)
- Please note: OrganizationIdentifier is a SHALL for Organization Validated and Sponsor Validated (S/MIME BR) in addition to organizationName.

CABFOrganizationIdentifier

- OrganizationIdentifier is an *optional* SDN attribute (EVG, chapter 7.1.4.2.8)
- The CABFOrganizationIdentifier extension is mandatory if the OrganizationIdentifier is set (EVG chapter 7.1.2.2)
- Extension originally introduced to streamline with ETSI where OrganizationIdentifier stems from.
- However, this extension is not described in ETSI documents.
- Discussion on GitHub, see <https://github.com/cabforum/servercert/issues/499>
- Added value very limited
- *Suggestion: Make CABFOrganizationIdentifier optional*

SDN attributes: Jol fields & serialNumber

- Jol fields *currently*
 - JolCountry: Must
 - JolState: Conditional (e.g. commercial registers on state level)
 - JolLocality: Conditional (German commercial registers and few others)
- serialNumber: Usually contains register ID as included in OrganizationIdentifier as well
- *Suggestion: Make these attributes optional if OrganizationIdentifier is included*

Example

Example SwissSign:

- **NTRCH-CHE-109.357.012** (worldwide unique within this context)
VS.
- Subject Distinguished Name fields:
 - CN = swissign.com
 - **serialNumber = CHE-109.357.012** (ID in national and cantonal/state trade register)
 - O = SwissSign AG
 - STREET = Sägereistrasse 25
 - postalCode = 8152
 - L = Glattbrugg
 - ST = ZH
 - C = CH
 - businessCategory = Private Organization (loose dependency/coupling with prefix)
 - (jurisdictionLocality empty)
 - jurisdictionStateOrProvinceName = Zürich
(registered in commercial register of Zurich. Not in OrganizationIdentifier, but can be deduced and is redundant to State attribute)
 - **jurisdictionCountryName = CH**

Expected Benefits

- Reduced complexity
- clear requirements
- Less error prone

Questions?

Thank
You!