



SCHAC and the EU-* schemas

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- Several national/regional formalized schemas through NRENs
- Expressed as extensions to inetOrgPerson and eduPerson
 - Syntax
 - New attributes
 - New classes beyond personal information
 - Semantics
 - New attributes for extending eduPerson contents and vocabularies
- Mostly oriented to support national AAls
- Other applications envisaged somewhere
 - PKI
 - Grid and VO support
 - Yellow and white pages
 - Bi- and multi-lateral interactions (mail, IM, videoconf, lists)
 - Simplify directory management

- A Committee inside TF-EMC2 to define and promote a common schema
 - Contributing attributes and expertise
 - Avoid reventing the wheel in several shapes
- Build an initial kernel from already existing local attributes
 - Agreement on syntax and semantics
 - Allocation to object classes
- Make the kernel evolve via a collaborative approach
 - Propose new attribute/classes
 - Period of comments by the rest of the group

- SCHAC (SCHEMA for ACademia)
- The main goal is interinstitutional data exchange
 - Not pretending to substitute any existing schema
 - Coding rules taking into account schema idiosyncracies
- Applicable to different domains
 - eduroam/eduGAIN
 - Other GEANT2 applications
 - Grids
 - Cotswolds Group, REFEDS
 - ECTS
- A set of attributes for representing individual data
 - Supported by use cases
 - In the process of being formalized as LDAP schema definitions

- **Extensions to:**
 - The **eduPerson** schema v. 200312, as defined at <http://www.educause.edu/eduperson/>
 - The **person** schema, as defined by X.521 (2001)
 - The **organizationalPerson** schema, as defined by X.521 (2001)
 - The **inetOrgPerson** schema, as defined by RFC 2798
- **Defined in terms of:**
 - Name
 - Syntax
 - Semantics
 - Additional references
 - Examples

<http://www.terena.nl/tech/task-forces/tf-emc2/schac.html>

- Personal characteristics
- Contact / Local information
- Student information
- Employee information
- Linkage identifiers (foreign keys)
- Entry metadata
- Security attributes and keys
- Confidentiality / Attribute release / Visibility
- Authorization, entitlements
- Group-related attributes
- Other Attributes

"Higher-Education Person: A comparative Analysis of Collaborative Public LDAP Person Object Classes in Higher Education"

- **schacMotherTongue**
 - Two- or three-letter code (ISO 639)
- **schacGender**
 - M/F
- **schacDateOfBirth**
 - YYYYMMDD (RFC3399 without dashes)
- **schacPlaceOfBirth**
 - Free string
- **schacCountryOfCitizenship**
 - Two-letter code (ISO 3166)

- **schacCountryOfResidence**
 - Two-letter code (ISO 3166)
- **schacSn1, schacSn2**
 - Free string
- **schacPersonalTitle**
 - Free string
- **schacPersonalPosition**
 - urn:SCHACPREFIX:position:<NSS>
<NSS> is a Namespace Specific String (RFC 2141)
urn:SCHACPREFIX:position:umk.pl:programmer

- **schacHomeOrganization**

- Domain name (RFC3035)

- **schacHomeOrganizationType**

- urn:SCHACPREFIX:homeOrgType:<country-code>:<string>

urn:SCHACPREFIX:homeOrgType:ch:vho

urn:SCHACPREFIX:homeOrgType:es:opi

- **schacUserPresenceID**

- urn:SCHACPREFIX:presence:<NSS>

<NSS> is a Namespace Specific String (RFC 2141)

urn:SCHACPREFIX:presence:xmpp:jperez@univx.es

urn:SCHACPREFIX:presence:sip:jose.perez@univx.es

- **schacPersonalUniqueID**

- urn:SCHACPREFIX:uniqueID:<country-type>:<idType>:<idValue>

urn:SCHACPREFIX:uniqueID:es:NIF:31241312L

urn:SCHACPREFIX:uniqueID:fi:FIC:260667-123F

urn:SCHACPREFIX:uniqueID:se:NIN:12345678

- **schacUUID**

- URN (draft-mealling-uuid-urn-05.txt)

urn:uuid:550E8400-E29B-11D4-A716-446655440000

- **Confidentiality: schacUserPrivateAttribute**
 - An attribute type identifier.
 - Operational semantics may imply specific values as wildcards.
- **Metadata: schacUserStatus**
 - urn:SCHACPREFIX:status:<NSS>
<NSS> is a Namespace Specific String (RFC 2141)
`urn:SCHACPREFIX:status:uma.es:affiliation:expired`
`urn:SCHACPREFIX:status:uma.es:sendMail:expired`
`urn:SCHACPREFIX:staus:uma.es:getMail:active`