

Attribute definitions for individual data



Introduction

These schema definitions are intended to facilitate information exchange among European, and possibly international, academic and research institutions.

In its current version, the SCHAC schemas are not oriented to any particular technology. They define a set of attributes to describe individuals in the academic and research institutions. Appropriate profiles, at least for LDAP and XML, will be defined in other documents.

These definitions asume that other attributes describing individuals are already available and properly coded, according with the following standards:

- 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

Attribute meta-information and notation

For all attributes, the following metadata is defined:

Name	A label used to i	dentify and distinguish one attribute from another
Description	A short descripti	on of the attribute
Format	The syntax for the	ne representation of the attribute's values
# of values	Single	Only one value is permitted for describing a given individual
	Multi	An indefinite number of values can be used
References	Additional inforn description or #	nation used to clarify some properties of attributes like format, of values
Examples	Example of valu	es used within the attribute



Attributes defined by SCHAC

Name	schacMotherTongue
Description	Is the language a person learns first. Correspondingly, the person is called a native speaker of the language. Usually a child learns the basics of their first language from their family.
Format	- ISO 639: 2-letter codes if the code is defined for our language - ISO 639: 3-letter codes if the 2-letter code is not defined - If ISO 639: 3-letter codes is not defined for our language we need to use a code defined in another classification.
# of values	Single
References	ISO 639 - Language Codes
	RFC 2798 - Definition of the inetOrgPerson LDAP Object Class
	RFC 3066 - Tags for the Identification of Languages
Examples	schacMotherTongue = fr

Name	schacGender
Description	The state of being male or female. The gender attribute specifies the legal gender of the subject it is associated with.
	"Either of the two groups that people, animals and plants are divided into according to their function of producing young" (Oxford Advanced Learner's Dictionary)
Format	The letter "M" (or "m") represents "male" and the letter "F" (or "f") represents "female"
# of values	Single
References	• RFC 2985 - PKCS #9: Selected Object Classes and Attribute Types Version 2.0. Sections 5.2.6, B.3.10
	 ISO 5218 - Information interchange Representation of human sexes. The standar ISO 5218 defines the representation of the human sexes by a numeric digital code. It was created by the Data Management and Interchange Technical Committee and proposed in November 1976
Examples	schacGender = F



Name	schacDateOfBirth	
Description	The date of birth for the subject it is associated with	
Format	Numeric value YYYYMMDD, using 4 digits for year, 2 digits for month and 2 digits for day as described in RFC 3339 'Date and Time on the Internet: Timestamps' as reference using the 'full-date' format from paragraph 5.6 but without the dashes.	
# of values	Single	
References	• RFC 2985 - PKCS #9: Selected Object Classes and Attribute Types Version 2.0. Sections 5.2.4, B.3.8	
	 RFC 3339 - Date and Time on the Internet: Timestamps. 'Date and Time on the Internet: Timestamps' as reference using the 'full-date' format from paragraph 5.6 but without the dashes 	
	ISO 8601 - Data elements and interchange formats - Information interchange - Representation of dates and times	
Examples	schacDateOfBirth = 19660412	

Name	schacPlaceOfBirth
Description	The schacPlaceOfBirth attribute specifies the place of birth for the subject it is associated with.
Format	Free string
# of values	Single
References	• RFC 2985 - PKCS #9: Selected Object Classes and Attribute Types Version 2.0. Sections 5.2.5, B.3.9
Examples	schacPlaceOfBirth = Algeciras, Spain

Name	schacCountryOfCitizenship
Description	The schacCountryOfCitizenship attribute specifies the (claimed) countries of citizenship for the subject it is associated with.
Format	Two-letter country acronym in accordance with ISO 3166
# of values	Multi
References	 RFC 2985 - PKCS #9: Selected Object Classes and Attribute Types Version 2.0. Sections 5.2.7, B.3.11
	 ISO 3166 - Codes for the representation of names of countries and their subdivisions
Examples	schacCountryOfCitizenship = es

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Name	schacCountryOfResidence
Description	The schacCountryOfResidence attribute specifies the (claimed) country of residence for the subject is associated with.
Format	Two-letter country acronym in accordance with ISO 3166 country code identifier
# of values	Multi
References	• RFC 2985 - PKCS #9: Selected Object Classes and Attribute Types Version 2.0. Sections 5.2.8, B.3.12
	 ISO 3166 - Codes for the representation of names of countries and their subdivisions
Examples	schacCountryOfResidence = es

Name	schacHomeOrganization
Description	Specifies a person's home organization using the domain name of the organization
Format	Domain name acording to RFC 1035
# of values	Single
References	RFC 1035 - Domain names - implementation and specification
Examples	schacHomeOrganization = terena.nl

Name	schacHomeOrganizationType	
Description	Type of a Home Organization	
Format	urn:SCHACPREFIX:homeOrgType: <country-code>:<string></string></country-code>	
	• The <country-code> must be a valid two-letter ISO 3166 country code identifier.</country-code>	
	 <string> from a nationally controlled vocabulary</string> 	
# of values	Single	
References	 ISO 3166 - Codes for the representation of names of countries and their subdivisions 	
Examples	schacHomeOrganizationType = urn:SCHACPREFIX:homeOrgType:ch:vho schacHomeOrganizationType = urn:SCHACPREFIX:homeOrgType:es:opi	

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Name	schacSn1
Description	First surname of a person ("the surname" in international terms).
	schacSn1 would contain whatever values the described person thinks they should contain. Splitting shall be done by humans. That means that, when filling a SCHAC-based description that allows the use of schacSn1 and schacSn2, the administrators must ask for 1st surname and 2nd surname (if applicable) as well as they do for givenName, surname, etc.
Format	Free string
	The following notes have been taken from the inetOrgPerson specification. If the person has a multi-part sn (whether hyphenated or not), store the multi-part name as one value and each component as separate values in this multi-valued attribute. That yields the best re-sults for the broadest range of clients doing name searches.
	Resource has to be able to support UTF-8 encoded accented character strings
# of values	Multi
Examples	If $sn = Lopez$ de la Moraleda y de Las Altas Alcurnias and that person uses Lopez de la Moraleda as the first component of the surname we can write:
	schacSn1 = Lopez de la Moraleda

Name	schacSn2
Description	Second surname of a person ("the surname" in international terms).
	schacSn2 would contain whatever values the described person thinks they should contain. Splitting shall be done by humans. That means that, when filling a SCHAC-based description that allows the use of schacSn1 and schacSn2, the administrators must ask for 1st surname and 2nd surname (if applicable) as well as they do for givenName, surname, etc.
Format	Free string
	The following notes have been taken from the inetOrgPerson specification. If the person has a multi-part sn (whether hyphenated or not), store the multi-part name as one value and each component as separate values in this multi-valued attribute. That yields the best re-sults for the broadest range of clients doing name searches.
	Resource has to be able to support UTF-8 encoded accented character strings
# of values	Multi
Examples	If $sn = Lopez$ de la Moraleda y de Las Altas Alcurnias and that person uses de Las Altas Alcurnias as the second component of the surname we can write:
	schacSn2 = de Las Altas Alcurnias

Name	schacPersonalUniqueID
Description	Specifies a "legally unique identifier" for The subject it is associated with.
	This might be DNI in Spain, FIC in Finland, NIN in Sweden,
Format	urn:SCHACPREFIX:uniqueID: <country-code>:<idtype>:<idvalue></idvalue></idtype></country-code>
	• The <country-code> must be a valid two-letter ISO 3166 country code identifier.</country-code>
	 <idtype>. Acceptable values must be declared per each country code.</idtype>
	● <idvalue></idvalue>
# of values	Multi
References	 ISO 3166 - Codes for the representation of names of countries and their subdivisions
Examples	schacPersonalUniqueID = urn:SCHACPREFIX:uniqueID:es:NIF:31241312L schacPersonalUniqueID = urn:SCHACPREFIX:uniqueIID:fi:FIC:260667-123F schacPersonalUniqueID = urn:SCHACPREFIX:uniqueIID:se:NIN:12345678

Name	schacUUID
Description	Specifies a "universally unique identifier" for an entity representing a person.
	Peter Gietz said: If the group decides to go into this direction I would gladly provide an attribute description. We'll update when we receive it.
Format	urn:uuid: <uuid></uuid>
	 <uuid>. A UUID is essentially a 16-byte number and in its canonical form a UUID may look like this: 597ae2f6-16a6-1027-98f4-d28b5365dc14</uuid>
# of values	Single
References	draft-mealling-uuid-urn-05.txt - A UUID URN Namespace
Examples	schacPersonalUniqueID = urn:uuid:550E8400-E29B-11D4-A716-446655440000

Name	schacPersonalTitle
Description	The Personal Title attribute type specifies a personal title for a person. Examples of personal titles are "Ms", "Dr", "Prof", "Rev", "Sr".
Format	Free format string
# of values	Single
References	RFC1274 - The COSINE and Internet X.500 Schema personal title Sections 9.3.30
Examples	schacPersonalTitle = Prof

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Name	schacPersonalPosition	
Description	The Personal Position attribute type specifies a personal position inside an institution	
Format	urn:SCHACPREFIX:position: <nss></nss>	
	<nss> is a Namespace Specific String as defined in RFC 2141</nss>	
# of values	Multi	
References	RFC 2141 - URN Syntax	
	• RFC 2256 - A Summary of the X.500(96) User Schema for use with LDAPv3.	
	Section: 5.13 title	
	This attribute contains the title, such as "Vice President", of a person in their organizational context. The "personalTitle" attribute would be used for a person's title independent of their job function.	
Examples	schacPersonalPosition = urn:SCHACPREFIX:position:umk.pl:programmer	

Name	schacUserPrivateAttribute	
Description	Used to model privacy requirements, as expressed by the user and/or the organizational policies. The values are intended to be attribute type names and applies to the attribute and any subtypes of it for a given entity.	
	In what respects to data exchange, it applies to the expression of privacy requirements.	
	This attribute can also have specific operational semantics (one has already been applied to LDAP servers: see references below), that will be defined in a separate document.	
Format	An attribute type identifier.	
	Operational semantics may imply specific values as wildcards.	
# of values	Multi	
References	http://www.rediris.es/ldap/doc/irisUserPrivateAttribute/ tnc2005-irisUserPrivateAttribute.pdf	
Examples	Attributes mail and telephoneNumber are considered private	
	schacUserPrivateAttribute = mail schacUserPrivateAttribute = telephoneNumber	

Name	schacUserPresenceID	
Description	To store a set of values related to network presence protocols	
Format	urn:SCHACPREFIX:presence: <nss></nss>	
	<nss> is a Namespace Specific String as defined in RFC 2141</nss>	
# of values	Multi	
References	RFC 2141 - URN Syntax	
Examples	schacUserPresenceID = urn:SCHACPREFIX:presence:xmpp:pepe@im.univx.es schacUserPresenceID = urn:SCHACPREFIX:presence:sip:pepe@myweb.com schacUserPresenceID = urn:SCHACPREFIX:presence:sip:jose.perez@univx.es schacUserPresenceID = urn:SCHACPREFIX:presence:h323:pepe@myweb.fi:808;pars	

Name	schacUserStatus	
Description	Used to store a set of status of a person as user of services	
Format	urn:SCHACPREFIX:status: <nss></nss>	
	 <nss> is a Namespace Specific String as defined in RFC 2141</nss> 	
# of values	Multi	
References	RFC 2141 - URN Syntax	
Examples	To store different user activity states at UMA:	
	schacUserStaus = urn:SCHACPREFIX:status:uma.es:affiliation:expired schacUserStaus = urn:SCHACPREFIX:status:uma.es:sendMail:expired schacUserStaus = urn:SCHACPREFIX:staus:uma.es:getMail:active	

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