Copy of SOR-Registry Core Schema Specification



This document is an early draft

There are no required attributes from the perspective of the Core Schema. It is up to a given protocol or implementation to determine what attributes are required, and how such status is conveyed between participants.

Where attributes are multi-valued, it is up to a given protocol or implementation as to whether multiple values are supported, and how such status is conveyed between participants.

Attribute names containing a slash (/) may be represented "flat" as listed, or "hierarchical" by removing the slash and establishing a suitable representation in the encoding in use. For example, "name/given" could be represented in JSON as

```
{
   "name":{
     "given":"value"
   }
}
```

Multiple values could be represented as

Attribute Release Policy

Attribute Release Policies are encoded in metadata, as described below. The following policies are defined:

- public: The attribute and value may be used without restriction.
- internal: The attribute and value are to be used for official institutional purposes only, and may not be redistributed without permission.
- private: The attribute and value may not be used for any purpose without permission.

Attribute Data Types

- binary
- boolean
- · country: ISO 3166-1 two letter country code
- date: YYYY-MM-DD format (ISO 8601)
- dateTerm: A datestamp used to indicate intervals such as a semester, trimester, or quarter. The general format is YYYY-L#, where L is one of H
 (half year), T (third), or Q (quarter), and # is the sequential number. eg: 2015-H2 designates the second semester of the 2015 academic year
 (and so might physically be in the year 2016).
- dateTime: YYYY-MM-DDTHH:MM:SSZ format (ISO 8601)
- integer
- locale: LL_CC format (ISO 639-1 two letter language code, an underscore, ISO 3166-1 two letter country code)
- region: ISO 3166-2 subdivision code, not including country prefix (eg: BC not CA-BC)
- string: Strings are case-preserving but not case-sensitive

NOTE: case insensitive is not well defined outside roman alphabet-based typographies

extensibleVocabulary: The Core Schema vocabulary should be supported when described values are relevant, however implementations may
add to the vocabulary. How supported values are conveyed between participants is outside of the scope of this document. Extended vocabulary
must begin with x-.

Case Sensitivity

All attribute names and other elements specified here are case sensitive. eg: official and OFFICIAL are not the same.

Metadata

Any complex attribute (Person, Person Role, Address, Identifier, etc) may optionally have the following meta attributes:

- meta/created: Timestamp of record creation, in dateTime format
 meta/id: Identifier for this specific (sub)attribute
- meta/lastModified: Timestamp of last modification, in dateTime format
- meta/release: Attribute release policy, as described above

Person Core Attributes

Attribute	Data Type	Definition	Multi-Valued? (Parent Attribute)
address			Yes (addresses)
address/country	country	Country from a postal address	One per parent object
address/formatted	string	Address rendered as a single string, possibly with embedded newlines (\n)	One per parent object
address/locality	string	Locality information from a postal address (city, etc)	One per parent object
address/language	locale	The language encoding of the address	One per parent object
address/postalCode	string	Postal code from a postal address	One per parent object
address/region	region	Region information from a postal address (state, province, etc)	One per parent object
address/room	string	Room information from a postal address	One per parent object
address/street	string (multi-line)	Street/site information from a postal address (street name, house number, etc)	One per parent object
! Changing to streetAd dress			
address/type	extensibleVocabulary: campus home office parent postal summer former-anyty pe	The type of the address	One per parent object
address/verified	boolean	True if the address has been verified	One per parent object
citizenship	country	Country of citizenship of the person	Yes (citizenships)
dateOfBirth	date	The date of birth of the person	No
emailAddress			Yes (emailAddresses)
emailAddress/address	string	The email address	One per parent object
emailAddress/type	extensibleVocabulary: delivery department department-d eptlabel forwarding official personal preferred former-anyty pe	The type of the email address	One per parent object
emailAddress /verified	boolean	True if the address has been verified	One per parent object

ethnicity	extensibleVocabulary: africanAmerican alaskaNative americanIndian asian hispanic nativeHawaiian other pacificIslander white	The ethnicity of the person (US Census)	Yes (ethnicities)
gender	extensibleVocabulary: • female • male	The gender of the person	No
identifier			Yes (identifiers)
identifier /identifier	string	The identifier	One per parent object
identifier/type	extensibleVocabulary: applicant badge badge- barcode badge-chip badge- magstripe enterprise external national network referenceId role role-affiliate role-alumni role- employee role-guest role-student sor sor- affiliate sor-alumni sor-employee sor-guest sor-student former-anyty pe	 The type of the identifier applicant: Identifier assigned to an applicant (eg: student application registration system) badge: Identifier as encoded on a badge/physical ID card badge-barcode: Identifier as encoded on a 1D or 2D barcode printed on a badge badge-chip: Identifier as stored on a smart chip (contact or NFC) embedded in a badge badge-magstripe: Identifier as encoded on a magnetic stripe of a badge enterprise: Persistent identifier used to uniquely identify an individual across the enterprise external: Identifier assigned by an external (federated) system national: Government issued identifier (eg: SSN) network: Identifier used for access to network services (eg: NetID) referenceld: An ID Match reference identifier role: Persistent identifier for a given role, used by an individual system of record and/or registry role-*: Persistent identifier for a given role assigned by the specified system of record sor: Persistent identifier used by an individual system of record sor-*: Persistent identifier assigned by the specified system of record 	One per parent object
identityProof			Yes (identityProofs)
identityProof /dateOfBirth	date	Date of birth, as confirmed on document	One per parent object
identityProof /documentIssuer	string	Name of agency issuing the confirmation document	One per parent object
/documentType • driversLicen se • nat onal passport passport regional tribal that		 national: ID issued by a national government, other than drivers licenses or passports 	One per parent object
identityProof /fullName			One per parent object
identityProof/status	extensibleVocabulary:	Status of the identity proofing	One per parent object

identityProof /timeVerified	dateTime	Time document was confirmed	One per parent object
identityProof /verifiedAddress	string	Address, as confirmed on document	One per parent object
name			Yes (names)
name/family	string	The component of the person's name excluding the given, middle, and honorific components	One per parent object
name/formatted	string	The person's name, suitably formatted for display	One per parent object
name/given	string	The component of the person's name excluding the middle, family, and honorific components	One per parent object
name/language	locale	The language encoding of the person's name	One per parent object
name/middle	string	The component of the person's name excluding the given, family, and honorific components	One per parent object
name/prefix	string	The honorific prefix of the person's name, such as "Dr" or "Ms"	One per parent object
name/suffix	string	The honorific suffix of the person's name, such as "Jr" or "III"	One per parent object
name/type	extensibleVocabulary:	The type of the name	One per parent object
	• author • fka • official • preferred	 author: Name suitable for publishing (eg: on academic papers) fka: "Formerly Known As", a previous name for the person (eg: maiden name) official: Name as found on government-issued ID preferred: Name as self-asserted 	
photo			Yes (photos)
photo/data	binary	Encoding of a photo of the person	One per parent object
photo/encoding	 extensibleVocabulary: bmp gif jpg png tiff 	The encoding used for the photo	One per parent object
photo/type	extensibleVocabulary: badge official personal	The type of the photo (not the encoding) • badge: Photo used on an ID card • official: Photo taken for official purposes (such as display in a faculty directory) • personal: User supplied photo for non-official purposes	One per parent object
primaryAffiliation	string	The primary affiliation for the person, as defined by the institution (values same as for Person Role affiliation attribute, below)	No
primaryCampus	string	The primary campus location for the person, as defined by the institution	No
role		Parent attribute for Role attributes, described below	Yes
telephoneNumber			Yes (telephoneNumbers
telephoneNumber /number	string	Telephone number for the person, preferably in + notation	One per parent object
telephoneNumber/type	extensibleVocabulary: campus fax home mobile office summer former-anyty pe	The type of the telephone number	One per parent object
telephoneNumber /verified	boolean	True if the telephone number has been verified	One per parent object
test	boolean	True if this record represents a test entry	No
url			Yes (urls)
url/url	string	URL for the person	One per parent object
	•		

url/type	extensibleVocabulary:	The type of the telephone number	One per parent object
	• official • personal		
visa	extensibleVocabulary:	Visa status of the person	No
	• permanentRes ident • A • A-2 • B-1 • B-2 • BCC • C • CR1 • D • E • E-3 • F • G-1 • G-2 • G-3 • G-4 • G-5 • H-1B • H-1B1 • H-2A • H-2B • H-3 • I • IR1 • J • K-1 • K-3 • L • M • NATO • P • Q • T • TD • TN • U		

Person Role Core Attributes

Attribute	Data Type	Definition	Multi-Valued?
address		As defined for Person Attributes	Yes (addresses)
affiliation	extensibleVocabul ary: affiliate alum employee faculty library- walk-in member staff student	The person's broad relationship to the institution for the role (eduPerson)	One per role
campus	string	The campus location this role is attached to, as defined by the institution	Yes (campuses)
campusCode	string	Machine readable identifier for a campus. This value is unlikely to have meaning outside of a specific institution.	Yes (campusCodes)
department	string	The name of the department the role is attached to (multiple values are permitted if multiple departments sponsor a single role)	Yes (departments)
departmentCo de	string	Machine readable identifier for a department. This value is unlikely to have meaning outside of a specific institution.	Yes (departmentCo des)
displayTitle	string	The display title for this role	One per role
emailAddress		As defined for Person Attributes	Yes (emailAddress es)
identifier		As defined for Person Attributes	Yes (identifiers)
leaveBegins	dateTime	Time at which leave from this role begins; advisory – status is controlling	One per role

leaveEnds	dateTime	Time after which leave from this role is no longer in effect; advisory – status is controlling	One per role
manager	string	An identifier (preferably of type enterprise) describing the manager for this role	Yes (managers)
		1 This should become a complex attribute (identifier+type)	
organization	string	The name of the organization/institution the role is attached to (multiple values are permitted if multiple organizations sponsor a single role)	Yes (organizations
organization Code	string	Machine readable identifier for an organization. This value is unlikely to have meaning outside of a specific institution.	Yes (organization Codes)
percentTime	integer (0 - 100)	The percentage time for this role (100 = full time)	One per role
rank	positive integer	The rank of this role relative to all roles from all SORs (highest rank = 1)	One per role
rankSor	positive integer	The rank of this role relative to_ only_ roles from this SOR (highest rank = 1)	One per role
roleBegins	dateTime	Time at which the role officially begins	One per role
roleEnds	dateTime	Time after which the role is officially no longer in effect	One per role
sor	string	Label for the system of record asserting this role	One per role
sponsor	string	An identifier (preferably of type enterprise) describing the sponsor for this role	Yes (sponsors)
		1 This should become a complex attribute (identifier+type)	
status	extensibleVocabul ary: accepted applied active offered onLeave registered suspended terminated	Status associated with this role: • The person has accepted an offer for this role (enrollment or hire) • The person has applied for this role (enrollment or hire) • The role is active (hire) • The person has been made an offer for this role but has not yet accepted (enrollment or hire) • The person is on leave from this role (enrollment or hire) • The person has registered for this role (enrollment) • The person has been suspended from this role (enrollment or hire) • The role has been terminated (enrollment or hire) (termination date is in roleEnds)	One per role
telephoneNum ber		As defined for Person Attributes	Yes (telephoneNum bers)
terminationR eason	extensibleVocabul ary: deceased graduated involuntary resigned retired withdrew	Reason for termination associated with this role	One per role
title	string	The official title for this role	Yes (titles)
url		As defined for Person Attributes	Yes (urls)
validFrom	dateTime	Time at which services associated with the role should begin	One per role
validThrough	dateTime	Time after which services associated with the role should be terminated	One per role

HR Person Role Attributes

Attribute	Data Type	Definition	Multi-Valued?
employeeType	extensibleVocabulary: consultant contractor emeritus exempt regular tenured vendor visiting workStudy		No

Student Person Role Attributes

Attribute	Data Type	Definition	Multi-Valued?
-----------	-----------	------------	---------------

classYear	extensibleVocabu lary:	#### is a four digit expected year of graduation	No
	• freshman		
	• sophomore • junior		
	• senior		
	• ####		
courseAffi liation	extensibleVocabu lary:	Person's affiliation/role with a course. Based on MACE-Dir work.	Yes, per-courseMembership
	• Administr		
	ator		
	• ContentDe veloper		
	• Instructor		
	• Learner • Manager		
	• Member		
	• Mentor • Officer		
	• TeachingA		
	ssistant		
courseMemb	string		Yes
ership			
degree	extensibleVocabu lary:		Yes, if a single program generates more than one degree. (Otherwise use separate roles.)
	• AAS		
	• BA		
	• BFA • BS		
	• DDS • DNP		
	• JD		
	• LLM • MA		
	• MArch		
	• MBA • MD		
	• MFA		
	• MPH • MPS		
	• MS • PhD		
	FIID		
major	otring	Chudanta maiar	Yes (majors) No
major /major	string	Student's major	NO .
major /majorCode	string	Machine readable identifier for the major. This value is unlikely to have meaning outside of a specific institution.	No
major/type	extensibleVocabu lary		No
	• dual		
	• minor • primary		
	• secondary		
residenceH	string		No
	extensibleVocabu lary:	Secondary = (eg) high school	No
	• continuing		
	• graduate		
	• nondegree • professio		
	nal		
	• secondary • summer		
	• undergrad uate		
	• visiting		
term	dateTerm	Term for which this record applies	No
	1	· ·	I .

 $\label{local_control$

Extended Attributes

The Core Schema may be extended. How extended attributes are conveyed between participants is outside of the scope of this document. Extended attributes must begin with x-, may be hierarchical, and may be attached to the Person or Person Role.