NIIFSchema

NIIF LDAP Schema

Versioning

Current version: **2.3**

Change log

- changes in 2.4
  - extend niifAuthenticatedObject with niifEduroamVLANI
- changes in 2.3
  - extend niifAuthenticatedObject with niifValidityStart and niifExpireTime attributes
- changes since 2.1b2
  - add niifAuthenticatedObject and its niifEduroamPassword
- changes since 2.1b1
  - updated schema files
- changes since 2.0b5
  - add niifCertificateSHA1Fingerprint
  - add niifEduPersonArchiveCourse
  - add niifEduPersonHeldCourse
  - mark niifCertificateSubjectDN as obsolete

Schema files

- Sun DS format: 99-niifschema.ldif
- OpenLDAP format: niif-openldap.schema
- niifauthentication.ldif{:doenload="niifauthentication.ldif"}

ObjectClasses

niifPerson

	niifPerson
Parent	inetOrgPerson
OID	1.3.6.1.4.1.11914.0.0.0
Description	-
Mandatory attributes	-
Optional attributes	• niifPersonPrefix • niifPersonDegree • niifPersonPosition • ~~niifPrefix~~ • ~~niifStatus~~ • ~~niifTitle~~ • ~~niifCertificateSubjectDN~~ • niifPersonDateOfBirth • niifPersonActivityStatus • niifActiveMemberOf • niifPersonJoinDate • niifPersonQuitDate • niifPersonOrgID • niifPersonCityOfBirth • niifPersonCountryOfBirth • niifPersonMothersName • niifPersonIdentityNumber • niifPersonResidentalAddress • niifUniqueId

niifEduPerson

	niifEduPerson
Parent	eduPerson
OID	1.3.6.1.4.1.11914.0.0.9
Description	-

	niifEduPerson
Mandatory attributes	-
Optional attributes	• niifEduPersonFaculty • niifEduPersonFacultyDN • niifEduPersonMajor • niifEduPersonAcademicYear • niifEduPersonAttendedCourse • niifEduPersonArchiveCourse • niifEduPersonHeldCourse

niifAuthenticatedObject

	niifAuthenticatedObject
Parent	-
OID	1.3.6.1.4.1.11914.0.0.10
Description	An object having extra passwords or time-limited validity
Mandatory attributes	-
Optional attributes	• niifEduroamPassword • niifValidityStart • niifExpireTime • niifEduroamVLANID

Defined attributes

Attributes of niifPerson

niifUniqueID

	niifUniqueID
OID	1.3.6.1.4.1.11914.0.1.3
Description	Unique ID of a person.

	niifUniqueID
Semantics	<unique-local-ID>@<organization-domain> The <organization-domain> part equals to the main internet domain of the organization (i.e.: 'sztaki.hu').The <unique-local-ID> part is a sequence of letters (case insensitive) and numbers. It can be freely chosen by the home organization provided that the ID is unique within the scope of the organization and one and only one ID is assigned to every single person.
Values	nincs korlátozás
# of values	`single`
Availability	`organizational`
Syntax	`Directory String`
Examples	gmx3f0@bme.hu
Notes	It is up to the local policy to define how the <unique-local-ID> is generated and how long does it represent a user. However, assigning the same ID to another person (after the first person entry has been removed from the directory) is deprecated.It is recommended to import the user ID into <unique-local-ID> from a comprehensive user database (like Neptun and ETR at Hungarian Universities) if such a database exists.
Use in federation	-

niifPrefix

	niifPrefix
OID	1.3.6.1.4.1.11914.0.1.0
Description	**OBSOLETED**, use niifPersonPrefix
Semantics	-
Values	nincs korlátozás
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	-
Notes	-
Use in federation	-

niifPersonPrefix

	niifPersonPrefix
OID	1.3.6.1.4.1.11914.0.1.165
Description	Prefix of the person's name
Semantics	A name should have only one prefix, multiple entitlements may be listed one after the other in the same value
Values	nincs korlátozás
# of values	`single`
Availability	`public`
Syntax	`Directory String`
Examples	Prof. Dr.
Notes	-
Use in federation	HREF_attribútum_specifikáció#schacPersonalTitle

niifStatus

	niifStatus
OID	1.3.6.1.4.1.11914.0.1.1
Description	**OBSOLETED**, use niifPersonDegree
Semantics	-
Values	nincs korlátozás
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	-
Notes	-
Use in federation	-

niifPersonDegree

	niifPersonDegree
OID	1.3.6.1.4.1.11914.0.1.166
Description	Scientific degree of the person
Semantics	Only the highest degree should be stored.
Values	nincs korlátozás

	niifPersonDegree
# of values	`multi`
Availability	`public`
Syntax	`Directory String`
Examples	kandidátus
Notes	May be specified in multiple languages by the use of language tags
Use in federation	-

niifTitle

	niifTitle
OID	1.3.6.1.4.1.11914.0.1.2
Description	**OBSOLETED**, use niifPersonPosition
Semantics	-
Values	nincs korlátozás
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	-
Notes	-
Use in federation	-

niifPersonPosition

	niifPersonPosition
OID	1.3.6.1.4.1.11914.0.1.167
Description	Position of the person within a department or organization
Semantics	-
Values	nincs korlátozás
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	dékán

	niifPersonPosition
Notes	May be specified in multiple languages by the use of language tags.When a person is in relationship with multiple departments or organizations, no exact match between a status and a particular organization can be defined within an entry. To solve this situation, some relation-representing entry may be used, eg. use of the schacPersonalPosition attribute, which defines an URN format for this purpose.
Use in federation	-

niifCertificateSubjectDN

	niifCertificateSubjectDN
OID	1.3.6.1.4.1.11914.0.1.151
Description	Subject DN of the certificate of the entity. This attribute is **OBSOLETED**, use niifCertificateSHA1Fingerprint instead.
Semantics	The value must describe a DN which identifies the certificate subject of the entity.
Values	Unlike standard LDAP DN, this value must contain the same number of spaces between DN elements as it is tied in the certificate.
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	-
Notes	Although it is possible for an entity to have more than one certificates at the same time, this kind of usage is deprecated.When used, this attribute must be indexed. This attribute may be applied to any kind of entities that can be certified with an X.509 certificate, including persons, servers, network nodes, etc.
Use in federation	-

niifCertificateSHA1Fingerprint

	niifCertificateSHA1Fingerprint
OID	1.3.6.1.4.1.11914.0.1.173
Description	Fingerprint of a certificate which belongs to the subject.
Semantics	Multiple fingerprints may be stored in this attribute, if a subject has multiple valid certificates. This attribute uses case insensitive matching rule.

	niifCertificateSHA1Fingerprint
Values	SHA-1 hash in hexadecimal string format without any separator characters.
# of values	`multi`
Availability	`-`
Syntax	`IA5String`
Examples	fe6d5980e2c02912024054cec114ee53ebeb2e6c
Notes	-
Use in federation	-

niifPersonDateOfBirth

	niifPersonDateOfBirth
OID	1.3.6.1.4.1.11914.0.1.152
Description	Date of birth of the person
Semantics	-
Values	YYYYMMDD date format according to RFC 3339 'full-date' format
# of values	`single`
Availability	`confidential`
Syntax	`Directory String`
Examples	19800316
Notes	It's recommended to use the schacDateOfBirth attribute instead, as it has the same syntax and semantics.
Use in federation	HREF_attribútum_specifikáció#schacDateOfBirth, HREF_attribútum_specifikáció#schacYearOfBirth

niifPersonActivityStatus

	niifPersonActivityStatus
OID	1.3.6.1.4.1.11914.0.1.153
Description	Activity status
Semantics	Describes whether the person is an active employee/student of the home organization
Values	One of the term 'active' or 'inactive'
# of values	`single`

	niifPersonActivityStatus
Availability	`organizational`
Syntax	`Directory String`
Examples	-
Notes	-
Use in federation	-

niifActiveMemberOf

	niifActiveMemberOf
OID	1.3.6.1.4.1.11914.0.1.168
Description	DN of a group entry to which the entity currently belongs.
Semantics	-
Values	nincs korlátozás
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	-
Notes	As a special case, this attribute may be used to keep a record of a student's active major(s), but it's recommended to use niifEduPersonMajor instead.
Use in federation	-

niifPersonJoinDate

	niifPersonJoinDate
OID	1.3.6.1.4.1.11914.0.1.169
Description	Date of joining to the organization
Semantics	Date of joining to the organization. For students it may represent the first date of enrollment.
Values	YYYYMMDD date format according to RFC 3339 'full-date' format
# of values	`single`
Availability	`organizational`
Syntax	`Integer`
Examples	19980901

	niifPersonJoinDate
Notes	-
Use in federation	-

niifPersonQuitDate

	niifPersonQuitDate
OID	1.3.6.1.4.1.11914.0.1.170
Description	Date of leaving the organization
Semantics	-
Values	YYYYMMDD date format according to RFC 3339 'full-date' format.
# of values	`single`
Availability	`organizational`
Syntax	`Integer`
Examples	20030627
Notes	If this date is in the past, niifPersonActivityStatus must be 'inactive', and the user should be locked out.
Use in federation	-

niifPersonOrgID

	niifPersonOrgID
OID	1.3.6.1.4.1.11914.0.1.154
Description	Organizational ID of a person
Semantics	ID of a person in a comprehensive organizational user database if such a database exists. This ID shall be unique within the organization.It is strongly recommended to use the <unique-local-ID> part of the niifUniqueID as a value for niifPersonOrgID.
Values	For integration with niifUniqueID, value must not contain the '@' mark.
# of values	`single`
Availability	`-`
Syntax	`Directory String`
Examples	-

	niifPersonOrgID
Notes	It is recommended to import the user ID into <unique-local-ID> from a comprehensive user database (like Neptun and ETR at Hungarian Universities) if such a database exists.This attribute is for facilitating the use of user ID's in intra-organizational applications in cases when standard uid attribute can not be applied for some reason.
Use in federation	-

niifPersonCityOfBirth

	niifPersonCityOfBirth
OID	1.3.6.1.4.1.11914.0.1.155
Description	The city or settlement where the person was born
Semantics	Name of the city or settlement where the person was born. If the place of birth is outside the borders of Hungary, the name may be given in Hungarian.
Values	nincs korlátozás
# of values	`single`
Availability	`confidential`
Syntax	`Directory String`
Examples	Kolozsvár
Notes	It's recommended to use the schacPlaceOfBirth attribute instead.
Use in federation	-

niifPersonCountryOfBirth

	niifPersonCountryOfBirth
OID	1.3.6.1.4.1.11914.0.1.156
Description	The country where the person was born
Semantics	Name of the country where the person was born. If the place of birth is outside the borders of Hungary, the name must be given in Hungarian.
Values	nincs korlátozás
# of values	`single`
Availability	`confidential`
Syntax	`Directory String`

	niifPersonCountryOfBirth
Examples	Románia
Notes	It's recommended to use the schacPlaceOfBirth attribute instead.
Use in federation	-

niifPersonMothersName

	niifPersonMothersName
OID	1.3.6.1.4.1.11914.0.1.157
Description	Name of the mother of the person
Semantics	Maiden name of the mother of the person.
Values	nincs korlátozás
# of values	`single`
Availability	`confidential`
Syntax	`Directory String`
Examples	-
Notes	-
Use in federation	-

niifPersonIdentityNumber

	niifPersonIdentityNumber
OID	1.3.6.1.4.1.11914.0.1.158
Description	Number of the Identity Card
Semantics	Number of the Identity Card of the person or Passport Number for those who are non-Hungarian citizens
Values	nincs korlátozás
# of values	`single`
Availability	`confidential`
Syntax	`Directory String`
Examples	329906AA

	niifPersonIdentityNumber
Notes	Every Hungarian citizen by the age of 14 receives an Identity Card. For foreigners, Passport Number should be used. This number should never be made public.Format of the code may vary as numbering scheme has been changed in the recent years.It's recommended to use the URN-formatted schacPersonalUniqueID attribute instead.
Use in federation	-

niifPersonResidentialAddress

	niifPersonResidentialAddress
OID	1.3.6.1.4.1.11914.0.1.159
Description	Home address of the person
Semantics	Permanent home address of the person. The postal code, the name of the city, street and apartment number shall be included.
Values	nincs korlátozás
# of values	`single`
Availability	`confidential`
Syntax	`Directory String`
Examples	1234 Budapest, Harap u. 3.
Notes	-
Use in federation	-

Attributes of niifEduPerson

niifEduPersonFaculty

	niifEduPersonFaculty
OID	1.3.6.1.4.1.11914.0.1.160
Description	Faculty of the person
Semantics	Full name of the faculty the person belongs to. List of accredited faculties can be found here (in institutional order): http://www.mab.hu/doc/akkrint040106.doc (in Hungarian)
Values	nincs korlátozás
# of values	`multi`

	niifEduPersonFaculty
Availability	`organizational`
Syntax	`Directory String`
Examples	Villamosmérnöki és Informatikai Kar
Notes	Local directory policy may mark this attribute as mandatory.It is recommended if an LDAP entry has niifEduPersonFaculty attribute set, it should also have an eduPersonFacultyDN attribute pointing to the entry of the faculty.
Use in federation	-

niifEduPersonFacultyDN

	niifEduPersonFacultyDN
OID	1.3.6.1.4.1.11914.0.1.161
Description	Pointer to the faculty of the person
Semantics	-
Values	nincs korlátozás
# of values	`multi`
Availability	`organizational`
Syntax	`DN`
Examples	-
Notes	This attribute has a meaning only if the person participates in education (eduPersonAffiliation=student or faculty)Local directory policy may mark this attribute as mandatory.
Use in federation	-

niifEduPersonMajor

	niifEduPersonMajor
OID	1.3.6.1.4.1.11914.0.1.162
Description	Major(s) of the student
Semantics	Majors are defined at http://www.mab.hu/listak2.html (in Hungarian)
Values	nincs korlátozás
# of values	`multi`
Availability	`organizational`

	niifEduPersonMajor
Syntax	`Directory String`
Examples	műszaki informatikai
Notes	This attribute has a meaning only if the person is a student (eduPersonAffiliation=student)Local directory policy may mark this attribute as mandatory for students.
Use in federation	-

niifEduPersonAcademicYear

	niifEduPersonAcademicYear
OID	1.3.6.1.4.1.11914.0.1.163
Description	Current academic year of the student. This attribute is **DEPRECATED**.
Semantics	-
Values	Integer numbers from 1 to the number of years required for graduation
# of values	`multi`
Availability	`confidential`
Syntax	`Directory String`
Examples	-
Notes	This attribute has a meaning only if the person is a student (eduPersonAffiliation = student)It is unclear that if a student has more than one majors, the number of which should be stored in this attribute and how a connection between major and year can be set up. As the concept of academic year gets lesser important (and not well-defined), depending on the value of this attribute is deprecated.
Use in federation	-

niifEduPersonAttendedCourse

	niifEduPersonAttendedCourse
OID	1.3.6.1.4.1.11914.0.1.164
Description	Code of the courses the student attends to in the current semester
Semantics	-
Values	Course codes defined in the student calendar.

	niifEduPersonAttendedCourse
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	BMEVIMM1234BMEVIMA3214
Notes	This attribute has a meaning only if the person is a student (eduPersonAffiliation = student), and the values should be taken from the student calendar.
Use in federation	-

niifEduPersonArchiveCourse

	niifEduPersonArchiveCourse
OID	1.3.6.1.4.1.11914.0.1.171
Description	Code of the courses the student have ever attended
Semantics	-
Values	Course codes defined in the student calendar.
# of values	`multi`
Availability	`-`
Syntax	`Directory String`
Examples	-
Notes	This attribute has a meaning only if the person is a student (eduPersonAffiliation = student), and the values should be taken from the student calendar.
Use in federation	-

niifEduPersonHeldCourse

	niifEduPersonHeldCourse
OID	1.3.6.1.4.1.11914.0.1.172
Description	Code of the courses which are associated with the faculty member or professor in the current semester.
Semantics	-
Values	Course codes defined in the student calendar.
# of values	`multi`
Availability	`-`

	niifEduPersonHeldCourse
Syntax	`Directory String`
Examples	-
Notes	This attribute has a meaning only if the person is a faculty (eduPersonAffiliation = faculty), the values should be taken from the student calendar.For authorization decision reasons, courses from previous semester(s) might appear in this attribute if the local policy needs these additional values.
Use in federation	-

Attributes of niifAuthenticatedObject

niifEduroamPassword

	niifEduroamPassword
OID	1.3.6.1.4.1.11914.0.1.4
Description	Clear text password for eduroam authentication
Semantics	-
Values	nincs korlátozás
# of values	`multi`
Availability	`-`
Syntax	`Octet String`
Examples	-
Notes	SUP userPassword
Use in federation	-

niifValidityStart

	niifValidityStart
OID	1.3.6.1.4.1.11914.0.1.5
Description	When to enable this account
Semantics	-
Values	nincs korlátozás
# of values	`single`
Availability	`-`

	niifValidityStart
Syntax	`Generalized Time`
Examples	-
Notes	-
Use in federation	-

niifExpireTime

	niifExpireTime
OID	1.3.6.1.4.1.11914.0.1.6
Description	When to disable this account
Semantics	-
Values	nincs korlátozás
# of values	`single`
Availability	`-`
Syntax	`Generalized Time`
Examples	-
Notes	-
Use in federation	-

niifEduroamVLANID

	niifEduroamVLANID
OID	1.3.6.1.4.1.11914.0.1.7
Description	VLAN ID for eduroam
Semantics	-
Values	-
# of values	`single`
Availability	`-`
Syntax	`Numeric String`
Examples	-
Notes	-
Use in federation	-

Változat #1
document-uploader hozta létre 2025-08-07 12:04:50 CEST

document-uploader frissítette 2025-08-07 12:04:50 CEST