

Technical Specification

Personnel API



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1 Introduction

The Personnel API in Lifecare Education API Services provides services that make it possible to import and export personnel. The services in the Personnel API are accessed via URIs.

This document describes following:

- Which information that a user can import and export via the Personnel API.
- How the personnel information is divided into entities and how these entities are structured.

1.1 Prerequisites

Before you can get access to the Personnel API you must request a license key from Tieto. You should have basic knowledge on Swedish school system and W3C XML before you start using the API.

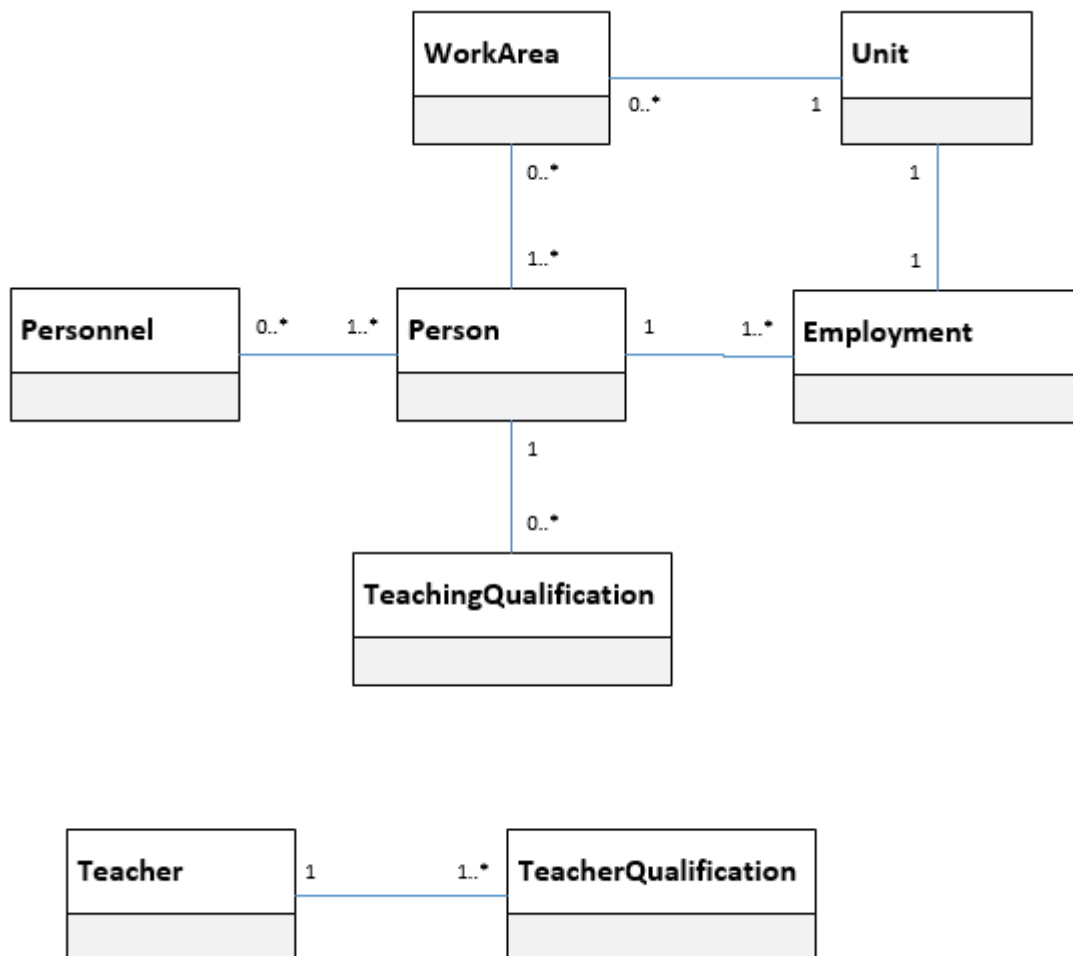
2 Supported school types

The table below describes the supported types of school.

| School type | Description | Code |
|--|--|------|
| Pedagogical care | Childcare groups for children between 1-12 years | PC |
| Preschool | Childcare for children between 1-6 years | FS |
| Leisure time centre | Childcare for school-aged children over 6 years | F |
| Preschool class | Preschool class for children 6 years of age | FK |
| Compulsory School | Primary school for younger students | GR |
| Compulsory School For Learning Disabilities | Compulsory school for learning disabilities | S |
| Upper Secondary School | Secondary school. 3-4 years education | GY |
| Upper Secondary School For Learning Disabilities | Secondary school for learning disabilities | GS |
| Swedish For Immigrants School | Swedish for immigrants school | SF |
| Adult School For Learning Disabilities | School for adults with learning disabilities | SV |
| Municipal Adult School | Municipality school for adults | KV |
| Higher Vocational Education | Higher vocational education | YH |

3 Domain model

The diagram below describes how the information is divided into entities and how these entities are structured.



4 Entities

4.1 Properties

The delivery information of the Personnel data that is used to manage the exchange of data between source and target system.

| Name | Description |
|------------|--|
| datetime | The date and time the XML information were generated. The format is as [YYYY-MM-DDTHH:MM:SS] |
| datasource | This is the source identifier of data source, for export the datasource contains Lifecare and customer domain. |
| comments | Input values for the service, in free text format. |
| type | States the performed operation at export: <ul style="list-style-type: none"> Complete personnel Delta personnel Must be set as Delta personnel at import |
| schooltype | The schooltype of which the data is encompassing |
| timeframe | Time frame for the personnel data |

4.2 Personnel

| Name | Description | Read-only |
|--------|--------------------|-----------|
| person | A number a persons | Yes |

4.3 Person

| Name | Description | Read-only |
|------------|--|-----------|
| id | GUID for the personnel | Yes |
| personid | Person id for the personnel | Yes |
| firstname | First name | Yes |
| middlename | Middle name | Yes |
| lastname | Last name | Yes |
| privacy | The person has restrictions. None None Level1 Privacy highlighted by the "Skatteverket". | Yes |

| Name | Description | Read-only |
|-----------------------|---|-----------|
| status | Status for the person Normal The person is alive and lives in Sweden Deceased The person has deceased Emigrated The person has emigrated | Yes |
| employment | Employment | Yes |
| workarea | Work area | Yes |
| teachingqualification | Teaching qualification | Yes |
| change | This is only used in delta export of personnel. It indicates the type of change Add The person has been added Update The person has been updated Delete The person has been deleted | Yes |
| timestamp | Time when the person was added, updated or deleted. | Yes |
| tel | Phone numbers | No |
| tel.teltype | Identifies the type of telephone number. Enumerated as Voice, Mobile and Work where Voice is home phone. | No |
| emailwork | E-mail address for professional work | No |
| emailhome | Email home address | No |
| gender | The gender of the Person. This is enumerated as Unknown, Female and Male | Yes |
| bday | The birth date of the Person. The format is [YYYY-MM-DD] | Yes |
| adr.pobox | Not used. | Yes |
| adr.extadd | Not used. | Yes |
| adr.street | The actual street address | No |
| adr.locality | The locality component of the address e.g., the City | No |
| adr.region | Not used. | Yes |
| adr.pcode | The post identity number | No |
| adr.country | Not used. | Yes |
| geographickeycode | Geographic key code | Yes |
| municipalitycode | Municipality code, formatted [NNNN], for more information see www.skl.se | Yes |
| municipalityname | Municipality name | Yes |
| nativelanguage | Native language, formatted as longer a form of language name | Yes |

4.4 Employment

| Name | Description | Read-only |
|-----------|--|-----------|
| id | Id for the employment | Yes |
| start | Start date for the employment | Yes |
| end | End date for the employment | Yes |
| signature | Signature | Yes |
| email | Email | Yes |
| phone | Phone number | Yes |
| category | Category <i>TeachingPersonnel</i> Teaching personnel <i>OtherPersonnel</i> Other personnel | Yes |
| unit | Unit | Yes |
| titlecode | Code for the title | Yes |
| titlename | Name for the title | Yes |
| type | Type of employment <i>Other</i> Other <i>Project</i> Project <i>UntilFurther</i> Until further <i>Substitute</i> Substitute <i>CertainTime</i> Certain time <i>Unknown</i> Unknown | Yes |

4.5 Unit

| Name | Description | Read-only |
|------------|------------------|-----------|
| id | The unit id | Yes |
| name | Name of the unit | Yes |
| schooltype | School type | Yes |

4.6 TeachingQualification

| Name | Description | Read-only |
|----------------|--|-----------|
| schooltype | A school type a personnel is qualified to teach in | Yes |
| fromschoolyear | The first school year a personnel is qualified to teach in | Yes |
| toschoolyear | The last school year a personnel is qualified to teach in | Yes |
| subjects | The subjects a personnel is qualified to teach in | Yes |

4.7 WorkArea

| Name | Description | Read-only |
|-------|---|-----------|
| unit | The unit where the person is working in the area | Yes |
| start | Start date for the persons work in the work area | Yes |
| end | End date for the persons work in the work area | Yes |
| code | Code for the work area | Yes |
| name | Name for the work area | Yes |
| note | Note for the persons work in the work area | Yes |
| hours | Number of hours the person is planned to work in the area | Yes |

4.8 Teachers

This structure – and the one in 4.9 Teacher's Qualification below – are identical with the structure defined by Skolverket in their export of teacher qualifications.

| Name | Description | Read-only |
|-----------------------|--|-----------|
| socialsecuritynumber | The social security number of the teacher | No |
| firstname | First name | No |
| middlename | Middle name | No |
| lastname | Last name | No |
| givenname | Given name | No |
| warning | List of warnings for a teacher | No |
| warning.decisiondate | Date of decision to give the warning to the teacher | No |
| license | List of licenses for a teacher | No |
| license.typeoflicense | Type of license: TEACHER or PRESCHOOL_TEACHER | No |
| license.lecturertitle | Lecturer title | No |
| foreignexamtitle | List of foreign exam titles for a teacher | No |
| qualifications | List of qualification for a teacher describing items for which a teacher is qualified to teach | No |

4.9 Teacher's Qualification

| Name | Description | Read-only |
|---------------------|---|-----------|
| typeofqualification | Type of qualification: SUBJECT, SCHOOL_TYPE or STUDY_PATH | No |
| typeofschooling | School type according to Skolverket, (see 4.9.1) | No |
| code | Code identifying subject or study_path | No |

| Name | Description | Read-only |
|--------------------|--|-----------|
| subcode | Sub code for generic subjects, like MOD (Modern languages) | No |
| name | Name of the qualification | No |
| fromyear | The start year for which this qualification applies | No |
| toyear | The end year for which this qualification applies | No |
| specializationcode | Code indicating that a qualification is the result of special pedagogue degree | No |
| specializationname | Name of specialization | No |
| studypathcode | Code of studyPath | No |
| studypathname | Name of studyPath | No |

4.9.1 School types according to Skolverket

| Name | Description |
|---|---|
| LEISURE_TIME_CENTER | Fritidshemmet |
| PRE_SCHOOL | Förskolan |
| PRE_SCHOOL_CLASS | Förskoleklassen |
| SWEDISH_FOR_IMMIGRANTS | Utbildning i svenska för invandrare |
| COMPULSORY_SCHOOL | Grundskolan |
| EDU_FOR_PUPILS_WITH_LEARNING_DISABILITIES | Grundsärskolan |
| UPPER_SECONDARY_EDUCATION | Gymnasieskolan |
| EDU_FOR_ADULTS_WITH_LEARNING_DISABILITIES | Gymnasiesärskolan |
| BASIC_ADULT_EDUCATION | Kommunal vuxenutbildning på grundläggande nivå |
| BASIC_ADULT_EDUCATION_FOR_PUPILS_WITH_LEARNING_DISABILITIES | Särskild utbildning för vuxna på grundläggande nivå |
| ADULT_SECONDARY_EDUCATION | Kommunal vuxenutbildning på gymnasial nivå |
| ADULT_SECONDARY_EDUCATION_FOR_PUPILS_WITH_LEARNING_DISABILITIES | Särskild utbildning för vuxna på gymnasial nivå |
| SAMI_SCHOOL | Sameskolan |
| SPECIAL_SCHOOL_FOR_PUPILS_WITH_IMPAIRED_HEARING | Specialskolan |
| EDUCATION_FOR_CHILDREN_WITH_SEVERE_LEARNING_DISABILITIES | Träningskolan |

5 Services

All services are based on HTTP REST technology and organized in school types to match each school structure. "Update services" are using the method HTTP POST and "Get services" are using the method HTTP GET.

5.1 Complete export of personnel

The services below give personnel at a specified date. The output is XML information with personnel.

Base path for services are: [https://\[host\]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc](https://[host]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc)

Parameters – Alternative 1:

| Parameter | Mandatory | Description |
|------------|-----------|---|
| SearchDate | No | The search date. Current date will be used if SearchDate is not specified. The oldest search date that can be used is current date minus ten years. |

Parameters – Alternative 2:

| Parameter | Mandatory | Description |
|------------|-----------|---|
| UnitId | No | Id for the school unit. Personnel for all school units will be returned if UnitId is not specified. |
| SearchDate | No | The search date. Current date will be used if SearchDate is not specified. The oldest search date that can be used is current date minus ten years. |

Services:

| Service | Description |
|---|--|
| GetPedagogicalCarePersonnel | Get personnel for pedagogical care. |
| GetPreSchoolPersonnel | Get personnel for preschool. |
| GetLeisureTimeCentrePersonnel | Get personnel for leisure time centre. |
| GetPreSchoolClassPersonnel | Get personnel for preschool class |
| GetCompulsorySchoolPersonnel | Get personnel for compulsory schools |
| GetCompulsorySchoolForLearningDisabilitiesPersonnel | Get personnel for compulsory school with learning disabilities |
| GetUpperSecondarySchoolPersonnel | Get personnel for upper secondary school |
| GetUpperSecondarySchoolForLearningDisabilitiesPersonnel | Get personnel for upper secondary |

| Service | Description |
|--|---|
| | school with learning disabilities |
| GetSwedishForImmigrantsSchoolPersonnel | Get personnel for Swedish for immigrants |
| GetMunicipalAdultSchoolPersonnel | Get personnel for municipal adult school |
| GetAdultSchoolForLearningDisabilitiesPersonnel | Get personnel for adult school with learning disabilities |
| GetHigherVocationalEducationPersonnel | Get personnel for higher vocational education |

5.2 Delta export of personnel

These services give the personnel changes done within a specified timeframe. The output is XML information with changed personnel entities. For each changed entity the attribute “change” is used to indicate the type of change. The attribute “change” is enumerated as Add, Update and Delete. All changed entities have a timestamp stored in the extension attribute “timestamp” for all entities to secure information quality.

Base path for services are: [https://\[host\]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc](https://[host]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc)

Parameters:

| Parameter | Mandatory | Description |
|-----------|-----------|-----------------|
| StartDate | Yes | Start date&time |
| EndDate | Yes | End date&time |

Parameter value limitations:

- EndDate – StartDate >= 5 minutes
- EndDate – StartDate <= 24 hours
- Current time – EndDate >= 5 minutes
- Current time – StartDate <= 30 days

Services:

| Service | Description |
|------------------------------------|--|
| GetPedagogicalCarePersonnelDelta | Get personnel for pedagogical care. |
| GetPreSchoolPersonnelDelta | Get personnel for preschool. |
| GetLeisureTimeCentrePersonnelDelta | Get personnel for leisure time centre. |
| GetPreSchoolClassPersonnelDelta | Get personnel for preschool class |

| Service | Description |
|--|---|
| GetCompulsorySchoolPersonnelDelta | Get personnel for compulsory schools |
| GetCompulsorySchoolForLearningDisabilitiesPersonnelDelta | Get personnel for compulsory school with learning disabilities |
| GetUpperSecondarySchoolPersonnelDelta | Get personnel for upper secondary school |
| GetUpperSecondarySchoolForLearningDisabilitiesPersonnelDelta | Get personnel for upper secondary school with learning disabilities |
| GetSwedishForImmigrantsSchoolPersonnelDelta | Get personnel for Swedish for immigrants |
| GetMunicipalAdultSchoolPersonnelDelta | Get personnel for municipal adult school |
| GetAdultSchoolForLearningDisabilitiesPersonnelDelta | Get personnel for adult school with learning disabilities |
| GetHigherVocationalEducationPersonnelDelta | Get personnel for higher vocational education |

5.2.1 Use Cases

Some use cases for delta export of personnel:

| Personnel change | The XML information that is output from the service contains |
|-------------------------------------|--|
| Add a new person to the personnel | - The new person with the attribute "change" set to "Add" |
| Remove a person from the personnel | - The removed person with the attribute "change" set to "Delete" |
| Update of a person in the personnel | - The new person with the attribute "change" set to "Update" |

5.3 Update of personnel

The services update the personnel info at a school.

Using the services you can

- update personnel contact information

The services take no parameters.

Base path for services are: [https://\[host\]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc](https://[host]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc)

Services:

| Service | Description |
|--|--|
| UpdatePedagogicalCarePersonnel | Update personnel for pedagogical care. |
| UpdatePreSchoolPersonnel | Update personnel for preschool. |
| UpdateLeisureTimeCentrePersonnel | Update personnel for leisure time centre. |
| UpdatePreSchoolClassPersonnel | Update personnel for preschool class |
| UpdateCompulsorySchoolPersonnel | Update personnel for compulsory schools |
| UpdateCompulsorySchoolForLearningDisabilitiesPersonnel | Update personnel for compulsory school with learning disabilities |
| UpdateUpperSecondarySchoolPersonnel | Update personnel for upper secondary school |
| UpdateUpperSecondarySchoolForLearningDisabilitiesPersonnel | Update personnel for upper secondary school with learning disabilities |
| UpdateSwedishForImmigrantsSchoolPersonnel | Update personnel for Swedish for immigrants |
| UpdateMunicipalAdultSchoolPersonnel | Update personnel for municipal adult school |
| UpdateAdultSchoolForLearningDisabilitiesPersonnel | Update personnel for adult school with learning disabilities |
| UpdateHigherVocationalEducationPersonnel | Update personnel for higher vocational education |

5.4 Update of teachers' qualifications

The service update the teachers' qualifications.

The services take no parameters.

Base path for services are: [https://\[host\]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc](https://[host]/WE.Education.Integration.Host/LES/Personnel/V2/Personnel.svc)

Services:

| Service | Description |
|------------------------------|--|
| UpdateTeachersQualifications | Updates the qualifications for the supplied teachers |

6 Appendix

6.1 References

| Name | Address |
|--|---|
| Personnel API XML schemas and examples | https://github.com/ExchangeServices |

6.2 Vocabulary

| Word | Description |
|------|-------------|
| | |
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| | |
| | |