

# Technical Specification

## Personnel API



# Table of Contents

<b>1 Introduction.....</b>	<b>3</b>
1.1 Prerequisites .....	3
<b>2 Supported school types .....</b>	<b>4</b>
<b>3 Domain model .....</b>	<b>5</b>
<b>4 Entities.....</b>	<b>5</b>
4.1 Personnel.....	5
4.2 Person.....	5
4.3 Employment .....	6
4.4 Unit.....	7
4.5 TeachingQualification .....	7
4.6 WorkArea .....	7
<b>5 Services .....</b>	<b>8</b>
5.1 Complete export of personnel.....	8
5.2 Delta export of personnel.....	10
5.2.1 Use Cases.....	11
5.3 Update of personnel.....	12
<b>6 Appendix .....</b>	<b>13</b>
6.1 References.....	13
6.2 Vocabulary .....	13

## 1 Introduction

The Personnel API in Lifecare Exchange 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.

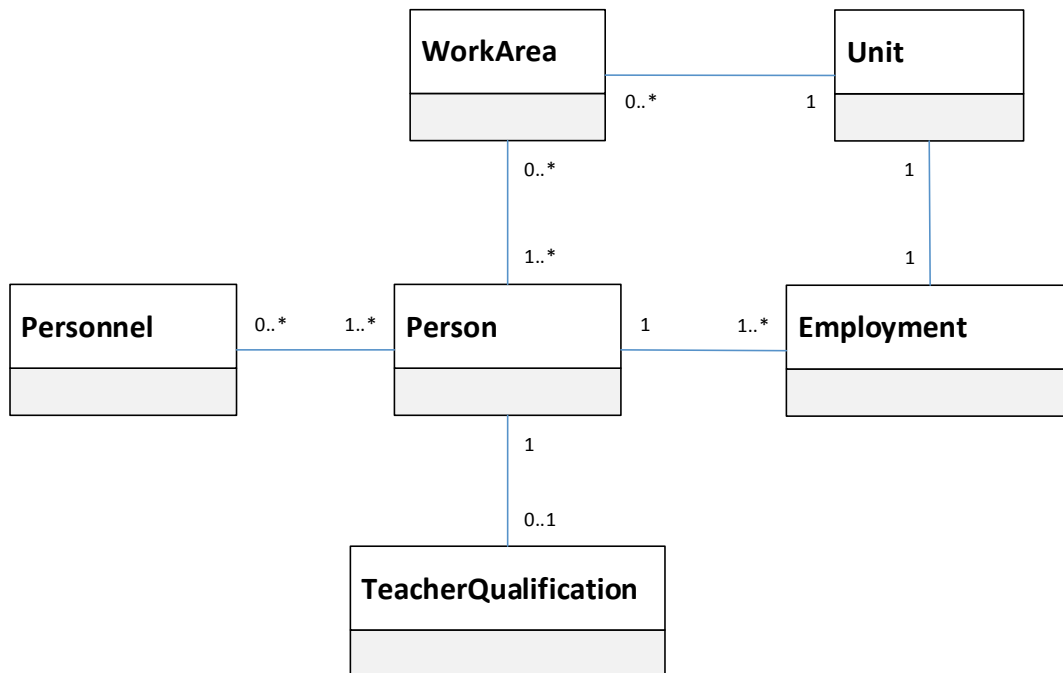
## 2 Supported school types

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 Personnel

Name	Description	Read-only
person	A number a persons	Yes

### 4.2 Person

Name	Description	Read-only
id	GUID for the personnel	Yes
personid	Person id for the personnel	Yes
firstname	First name	Yes
lastname	Last name	Yes

Name	Description	Read-only
privacy	The person has restrictions. None          None Level1        Privacy highlighted by the "Skatteverket".	Yes
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	No
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 created, updated or deleted.	Yes

### 4.3 Employment

Name	Description	Read-only
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 TeachingPersonnel          Teaching personnel OtherPersonnel              Other personnel	Yes
unit	Unit	Yes
title	Title	Yes
type	Type of employment Other                              Other Project                            Project UntilFurther                    Until further Substitute                        Substitute CertainTime                      Certain time Unknown                           Unknown	Yes

#### 4.4 Unit

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

#### 4.5 TeachingQualification

Name	Description	Read-only
schoolyears	The school years a personnel is qualified to teach in	No
subjects	The subjects a personnel is qualified to teach in	No
schooltypes	The school types a personnel is qualified to teach in	No

#### 4.6 WorkArea

Name	Description	Read-only
unit	The unit where the person is working in the area	No
start	Start date for the persons work in the work area	No
end	End date for the persons work in the work area	No
type	Type of work area <i>GradeAdministration</i> Grade administration	No
name	Name of the work area	No
note	Note for the persons work in the work area	No
hours	Number of hours the person is planned to work in the area	No

## 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/V1/Personnel.svc](https://[host]/WE.Education.Integration.Host/LES/Personnel/V1/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	Yes	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 school with learning disabilities



Service	Description
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

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
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

Service	Description
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 at a school. Using the services you can

- update teacher qualifications for education personnel (teachers)

The services take no parameters.

Base path for services are: [https://\[host\]/WE.Education.Integration.Host/LES/Personnel/V1/Personnel.svc](https://[host]/WE.Education.Integration.Host/LES/Personnel/V1/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

## 6 Appendix

### 6.1 References

Name	Address
Personnel API XML schemas and examples	<a href="https://github.com/ExchangeServices/API">https://github.com/ExchangeServices/API</a>

### 6.2 Vocabulary

Word	Description