

Technical Specification

Personnel API



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1 Introduction

The Personnel API 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.

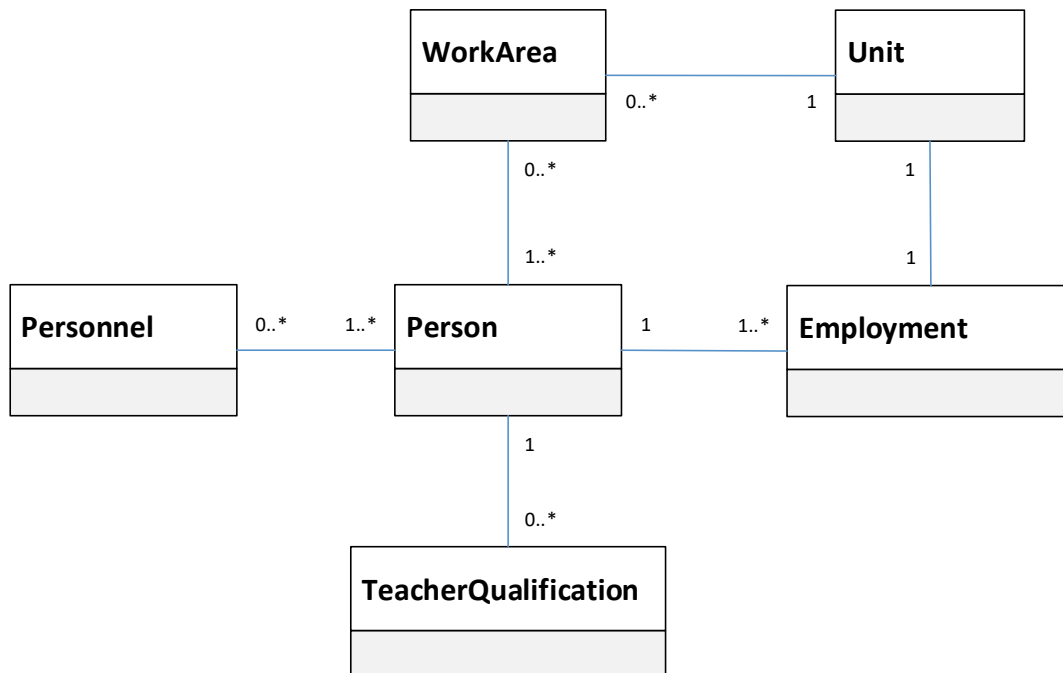
2 Supported school types

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 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
lastname	Middle name and last name	Yes
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 <i>Add</i> The person has been added <i>Update</i> The person has been updated <i>Delete</i> The person has been deleted	Yes
timestamp	Time when the person was added, updated or deleted.	Yes

4.4 Employment

Name	Description	Read-only
start	Start date for the employment	Yes
end	End date for the employment	Yes

Name	Description	Read-only
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	No
fromschoolyear	The first school year a personnel is qualified to teach in	No
toschoolyear	The last school year a personnel is qualified to teach in	No
subjects	The subjects a personnel is qualified to teach in	No

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

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.

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.
MunicipalityCode	No	If supplied, only data for school units with same value for municipality code are returned.
GovernedBy	No	If supplied, the allowed values are: municipal, private, state, or other. If supplied, only data for school units with supplied GovernedBy will be returned.

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.

Parameters:

Parameter	Mandatory	Description
StartDate	Yes	Start date&time
EndDate	Yes	End date&time
MunicipalityCode	No	If supplied, only data for school units with same value for municipality code are returned.
GovernedBy	No	If supplied, the allowed values are: municipal, private, state, or other. If supplied, only data for school units with supplied GovernedBy will be returned.

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
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

Service	Description
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 at a school. Using the services you can

- update teacher qualifications for education personnel (teachers)

The services take no parameters.

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	https://github.com/ExchangeServices

6.2 Vocabulary

Word	Description