Technical Specification

CALENDAR API

Version 2.0.0
2020-10-12

Table of Contents

1 Introduction

The Calendar API provides services that make it possible to get information about calendar events. The services in the Calendar API are accessed via URIs.

This document describes following:

- Which calendar event information that a user can get via the Calendar API.

- How the calendar event information is divided into entities and how these entities are structured.

1.1 Prerequisites

Before you can get access to the Calendar 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

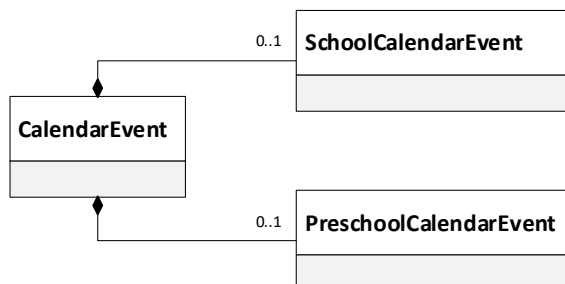The table below describes the supported types of school.

School type	Description	Code
Preschool	Preschool for children up to 6 years of age	FS
Preschool class	Preschool class for children 6 years of age	FK
Compulsory School	Primary school organization for younger students	GR
Compulsory School for Learning Disabilities	Organization for compulsory school for learning disabilities	S
Upper Secondary School	Upper secondary school organization 3-4 years education	GY
Upper Secondary School For Learning Disabilities	Organization for upper secondary school for learning disabilities	GS
Swedish For Immigrants School	Organization for Swedish immigrants	SF
Adult School For Learning Disabilities	Organization for adult school for learning disabilities	SV
Municipal Adult School	Municipality school organization for adults	KV
Higher Vocational Education	Organizations for Higher Vocational Education	YH

3 Calendar events

3.1 Description

This chapter describes calendar events entities and their attributes.

3.2 Domain model

3.3 Entities

3.3.1 Properties

The delivery information of the calendar events 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
comments	Input values for the service, in free text format.
schooltype	The schooltype of which the data is encompassing
timeframe	Time frame for the data

3.3.2 CalendarEvent

Name	Description	Read-only
unitid	Id of the school the event is registered on	Yes
unitname	Name of the unit the event is registered on	Yes
start	Date and time of the event start	Yes
stop	Date and time of the event stop	Yes

3.3.3 SchoolCalendarEvent

Name	Description	Read-only
eventid	Event id	Yes

Name	Description	Read-only
teacherid	Id of the teacher	Yes
teachersocialsecuritynumber	PID of the teacher	Yes
teachername	Name of the teacher	Yes
courseorsubjectid	Course or subject id.	Yes
courseorsubjectcode	Course or subject code.	Yes
courseorsubjectname	Course or subject name.	Yes
comment	Free text comment by the teacher	Yes
roomname	Room or rooms used reserved for the event	Yes

3.3.4 PreschoolCalendarEvent

Name	Description	Read-only
childid	Unique identifier for child	Yes
departmentid	Id of the department the event is registered on	Yes
departmentname	Name of the department the event is registered on	Yes

4 Services

All network services are based on HTTP REST technology and organized in school types to match each school structure. Export is using the method HTTP GET. Import is using the method HTTP POST.

4.1 Parameters and limits

All export methods take 2 parameters that are mandatory

Name	Description	Required
StartDate	The start date for the period	Yes
EndDate	The end date for the period	Yes

One parameter is only valid and also mandatory preschool

Name	Description	Required
Id	Unique identifier for child (GUID or PID)	Yes

Calendar events are limited to a span of one year per call.

4.2 Calendar events

The services below export scheduled events.

Services:

Service	Description
GetPreschoolCalendarEvents	Get calendar events for preschool child
GetPreschoolClassCalendarEvents	Get calendar events for preschool class
GetCompulsorySchoolCalendarEvents	Get calendar events for compulsory school
GetCompulsorySchoolForLearningDisabilitiesCalendarEvents	Get calendar events for compulsory school with learning disabilities
GetUpperSecondarySchoolCalendarEvents	Get calendar events for upper secondary school
GetUpperSecondarySchoolForLearningDisabilitiesCalendarEvents	Get calendar events for upper secondary school with learning disabilities
GetSwedishForImmigrantsSchoolCalendarEvents	Get calendar events for Swedish for immigrants
GetMunicipalAdultSchoolCalendarEvents	Get calendar events for municipal adult school

Service	Description
GetAdultSchoolForLearningDisabilitiesCalendarEvents	Get calendar events for adult school with learning disabilities
GetHigherVocationalEducationCalendarEvents	Get calendar events for higher vocational education

5 Appendix

5.1 References

Name	Address
Absence API XML schemas and examples	https://github.com/ExchangeServices

5.2 Vocabulary

Word	Description
Child	Children below 6 year
Student	School student 6 year and older
PID	Personal identity, formatted [YYYYMMDDNNNN]
GUID	Global unique identifier