

Technical Specification

Monitoring API



Table of Contents

| | |
|---------------------------------------|----------|
| 1 Introduction..... | 3 |
| 1.1 Prerequisites | 3 |
| 2 Supported school types | 3 |
| 3 Absence and presence | 4 |
| 3.1 Description | 4 |
| 3.2 Domain model..... | 4 |
| 3.3 Entities | 4 |
| 3.3.1 Student | 4 |
| 3.3.2 AbsenceAggregation..... | 4 |
| 3.3.3 PresenceAggregation..... | 5 |
| 4 Services | 5 |
| 4.1 AbsenceAggregation..... | 5 |
| 4.1.1 Import | 5 |
| 4.2 PresenceAggregation | 6 |
| 4.2.1 Import | 6 |
| 5 Appendix | 8 |
| 5.1 References..... | 8 |
| 5.2 Vocabulary | 8 |

1 Introduction

The Monitoring API in Lifecare Exchange Services provides services that make it possible to get and set the students absence and presence. The services in the Monitoring API are accessed via URIs.

This document describes following:

- Which absence and presence information that a user can get and set via the Monitoring API.
- How the absence and presence information is divided into entities and how these entities are structured.

1.1 Prerequisites

Before you can get access to the Monitoring 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.

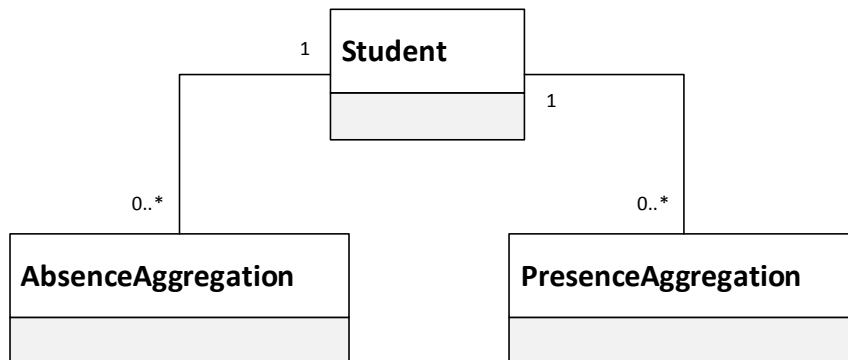
| School type | Description | Code |
|--------------------------------------------------|-------------------------------------------------------------------|------|
| Compulsory School | Primary school organization for younger students | GR |
| Compulsory School For Learning Disabilities | Organization 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 Absence and presence

3.1 Description

This chapter describes absence and presence entities and their attributes.

3.2 Domain model



3.3 Entities

3.3.1 Student

| Name | Description | Read-only |
|------|--------------------------------------------------------------|-----------|
| id | Student identity. The id can be GUID or PID for the student. | No |
| name | Student name | Yes |

3.3.2 AbsenceAggregation

| Name | Description | Read-only |
|---------|------------------------------------------------------------------------------------------------------------------------------------|-----------|
| student | Student | No |
| minutes | Total amount of minutes of absence | No |
| start | The start date for the aggregation period | No |
| end | The end date for the aggregation period | No |
| code | Course or subject code. | No |
| reason | Reason for an absence. <i>Valid</i> Indicates that the absence is valid <i>Invalid</i> Indicates that the absence is invalid | No |

3.3.3 PresenceAggregation

| Name | Description | Read-only |
|---------|-------------------------------------------|-----------|
| student | Student | No |
| minutes | Total amount of minutes of presence | No |
| start | The start date for the aggregation period | No |
| end | The end date for the aggregation period | No |
| code | Course or subject code | No |

4 Services

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

4.1 AbsenceAggregation

4.1.1 Import

The services below update or add new aggregated absence. The services take no parameters.

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

Services:

| Service | Description |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| UpdateCompulsorySchoolAbsenceAggregation | Update or add new aggregated absence for compulsory schools student |
| UpdateCompulsorySchoolForLearningDisabilitiesAbsenceAggregation | Update or add new aggregated absence for compulsory school with learning disabilities student |
| UpdateUpperSecondarySchoolAbsenceAggregation | Update or add new aggregated absence for upper secondary school student |
| UpdateUpperSecondarySchoolForLearningDisabilitiesAbsenceAggregation | Update or add new aggregated absence for upper secondary school with learning disabilities student |
| UpdateSwedishForImmigrantsSchoolAbsenceAggregation | Update or add new aggregated absence for |

| Service | Description |
|------------------------------------------------------------|------------------------------------------------------------------------------------------|
| | Swedish for immigrants student |
| UpdateMunicipalAdultSchoolAbsenceAggregation | Update or add new aggregated absence for municipal adult school student |
| UpdateAdultSchoolForLearningDisabilitiesAbsenceAggregation | Update or add new aggregated absence for adult school with learning disabilities student |
| UpdateHigherVocationalEducationAbsenceAggregation | Update or add new aggregated absence for higher vocational education student |

4.2 PresenceAggregation

4.2.1 Import

The services below update or add new aggregated presence. The services take no parameters.

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

Services:

| Service | Description |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| UpdateCompulsorySchoolPresenceAggregation | Update or add new aggregated presence for compulsory schools student |
| UpdateCompulsorySchoolForLearningDisabilitiesPresenceAggregation | Update or add new aggregated presence for compulsory school with learning disabilities student |
| UpdateUpperSecondarySchoolPresenceAggregation | Update or add new aggregated presence for upper secondary school student |
| UpdateUpperSecondarySchoolForLearningDisabilitiesPresenceAggregation | Update or add new aggregated presence for upper secondary school with learning disabilities student |
| UpdateSwedishForImmigrantsSchoolPresenceAggregation | Update or add new aggregated presence for Swedish for immigrants student |
| UpdateMunicipalAdultSchoolPresenceAggregation | Update or add new aggregated presence for municipal adult school student |

| Service | Description |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| UpdateAdultSchoolForLearningDisabilitiesPresenceAggregation | Update or add new aggregated presence for adult school with learning disabilities student |
| UpdateHigherVocationalEducationPresenceAggregation | Update or add new aggregated presence for higher vocational education student |

5 Appendix

5.1 References

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

5.2 Vocabulary

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