

# Technical Specification

## Study Information API



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## 1 Introduction

The Study Information API in Lifecare Education API Services provides services that make it possible to get study plan and subject plan for students and to update or add course choices and subject choices. The services in the Study Information API are accessed via URIs.

This document describes following:

- Which study information that a user can get via the Study Information API.
- How the study information is divided into entities and how these entities are structured.

### 1.1 Prerequisites

Before you can get access to the Study Information 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.

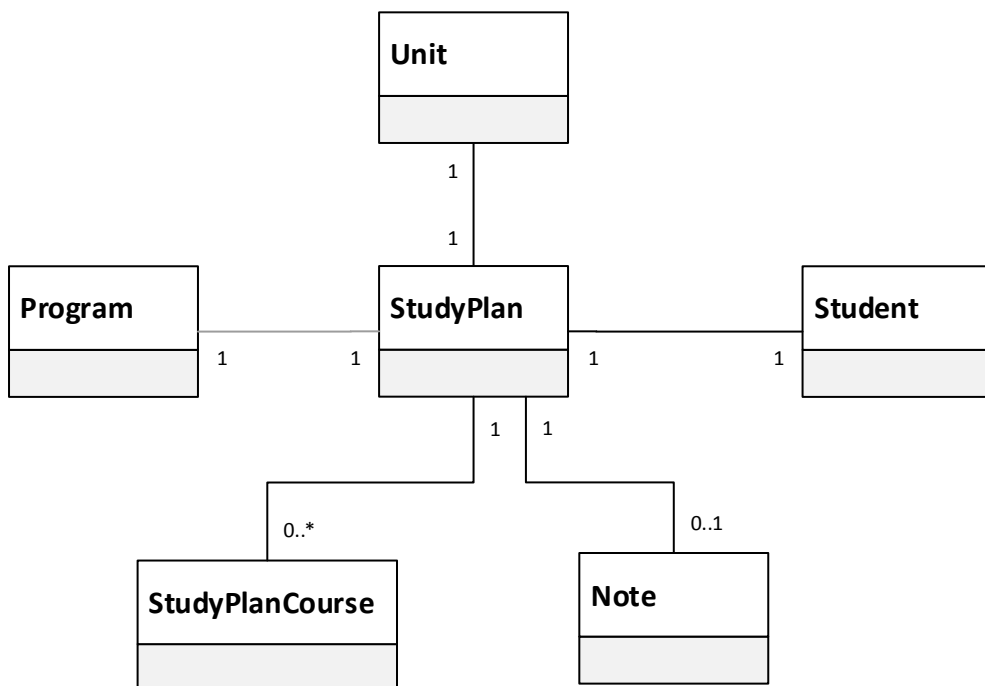
School type	Description	Code
Compulsory School	Compulsory school	GR
Compulsory School For Learning Disabilities	Compulsory school for learning disabilities	S
Upper Secondary School	Secondary school. 3-4 years education	GY
Upper Secondary School For Learning Disabilities	Secondary school for learning 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 Study plan

#### 3.1 Description

This chapter describes the study plan entities and their attributes.

#### 3.2 Domain model



#### 3.3 Entities

##### 3.3.1 Properties

The delivery information of the Study information 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]

Name	Description
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 study information data

### 3.3.2 StudyPlan

Name	Description	Read-only
student	The student	Yes
unit	The responsible school unit.	Yes
program	Program information a student's individual study plan	Yes
courses	All study plan courses	Yes
note	All notes	Yes

### 3.3.3 StudyPlanCourse

Name	Description	Read-only
code	SCB course code	Yes
name	Name of the course	Yes
nameinenglish	Name of the course in English	Yes
type	Type of course <i>UpperSecondarySubjects</i> <i>ProgrammeSpecificSubjects</i> <i>Orientation</i> <i>ProgrammeSpecialisation</i> <i>IndividualOptions</i> <i>DiplomaProject</i> <i>OrientationAndProgrammeSpecialisation</i> <i>UpperSecondarySubjectsForStudentsWithLearningDisabilities</i> <i>AssessedCourseWork</i> <i>CommonSubjectsInFurtherEducation</i> <i>Profile</i> <i>Outcome</i> <i>DegreeProject</i> <i>Other</i>	Yes
deviation	Deviation from the program. Not set for the adult school types. <i>NoDeviation</i> Indicates that the course is part of the program as default	Yes

Name	Description	Read-only
	<i>Added</i> Indicates that the course has been added <i>Removed</i> Indicates that the course has been removed <i>Replacement</i> Indicates that the course has replaced another course. The program is individually tailored. <i>Transformation</i> Indicates that the course has replaced another course that is not valid any longer.	
comment	Can for example be used for mentioning the course code for a replaced or transformed course	Yes
subjectcode	School subject code. For more information see <a href="http://www.skolverket.se">www.skolverket.se</a>	Yes
content	Information about a course specialization. Only set for specialized courses. Not set for the adult school types.	Yes
contentinenglish	Information about a course specialization in english. Only set for specialized courses. Not set for the adult school types.	Yes
points	Points for the course	Yes
hours	Hours for the course	Yes
grade	Grade for the course. Only set if the grade is locked	Yes
gradedate	Grade date	Yes
group	Group in which the course is studied	Yes
start	Start date for the course	Yes
end	End date for the course	Yes
trialperformed	Indicates that a trial of the course knowledge has been performed. Not set for the adult school types.	Yes
specialorientedsubjectplan	Information about a special oriented subject plan.	Yes
schoolname	School name	Yes
courselevel	Level	Yes
continues	Indicates if the course continues	Yes
status	Status for the course <i>active</i> Indicates that the course is active or complete <i>break</i> Indicates that the course is on break	Yes

### 3.3.4 Student

Name	Description	Read-only
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Name	Description	Read-only
id	Student identity. The id can be GUID or PID for the student.	Yes
name	Student name	Yes

### 3.3.5 Unit

Name	Description	Read-only
schoolname	School name	Yes
schoolunitname	School unit name	Yes
schoolunitcode	School unit code	Yes
schooltype	School type, see supported school types	Yes

### 3.3.6 Program

Name	Description	Read-only
code	Program code	Yes
name	Program name	Yes
nameinenglish	Program name in English	Yes
type	Program type <i>None</i> No program type <i>VocationalProgram</i> Vocational program <i>UniversityPreparing</i> University preparing program <i>IntroductionProgram</i> Introduction program	Yes
orientation	Program orientation/specialization	Yes
orientationinenglish	Program orientation/specialization in English	Yes
extent	The program extent for the student. <i>Complete</i> Indicates that the program extent is complete for the student <i>Reduced</i> Indicates that the program is reduced for the student <i>Extended</i> Indicates that the program is extended for the student	Yes
individuallytailored	Indicates if the program is individually tailored	Yes
profilecode	Program profile code	Yes
profilename	Program profile name	Yes
vocationaloutcomecode	Vocational outcome code. Only set for programs with	Yes



Name	Description	Read-only
	vocational outcome.	
vocationaloutcomename	Vocational outcome name. Only set for programs with vocational outcome.	Yes
vocationaloutcomenameinenglish	Vocational outcome name in english. Only set for programs with vocational outcome.	Yes

### 3.3.7 Note

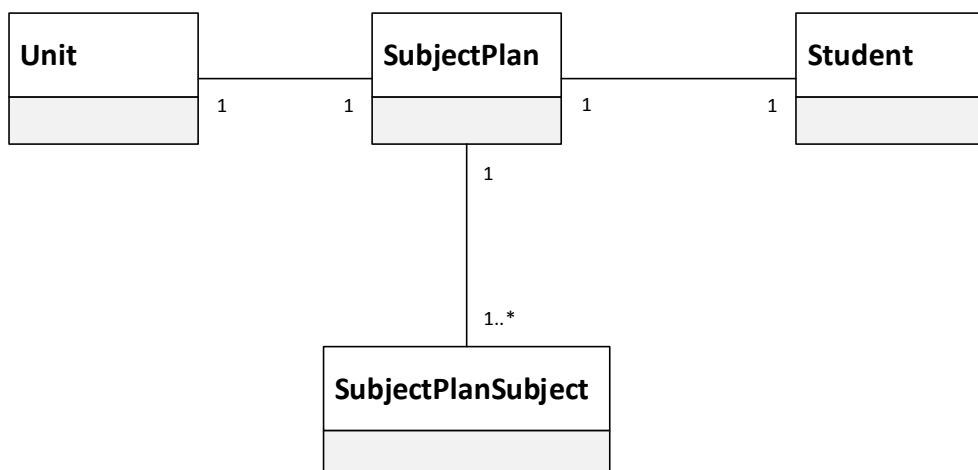
Name	Description	Read-only
motivation	Motivation note	Yes
motivationcounselling	Student counselling note	Yes
educationgoal	Education goal note	Yes
other	Other note	Yes
studyplan	Note from studyplan.	Yes

## 4 Subject plan

### 4.1 Description

This chapter describes the subject plan entities and their attributes.

### 4.2 Domain model



## 4.3 Entities

### 4.3.1 SubjectPlan

Name	Description	Read-only
student	The student	Yes
unit	The responsible school unit.	Yes
subjects	All subjects that are part of the subject plan	Yes

### 4.3.2 SubjectPlanSubject

Name	Description	Read-only
code	SCB subject code	Yes
name	Name for the subject	Yes
nameinenglish	English name for the subject	Yes
language	Language code	Yes
type	Type of subject choice StudentChoice      Student choice (not a modern language) StudentChoiceLanguage      Student choice (modern language) LanguageChoice      Language choice (modern language) AlternativeToLanguageChoice      Alternative to language choice MotherTongue      Mother tongue Other      Other type	Yes
schoolyear	School year	Yes
start	Start date for the subject	Yes
end	End date for the subject	Yes
schoolname	School name	Yes
continues	Indicates if the subject continues	Yes
reduced	Student adapted subject	Yes

### 4.3.3 Student

Name	Description	Read-only
id	Student identity. The id can be GUID or PID for the student.	Yes

Name	Description	Read-only
name	Student name	Yes

#### 4.3.4 Unit

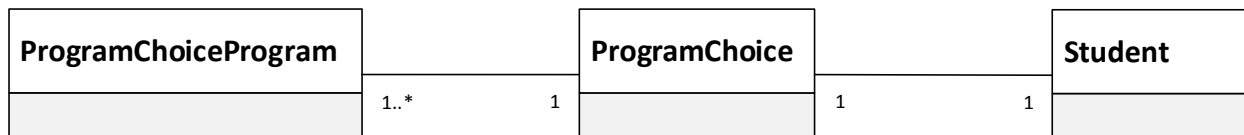
Name	Description	Read-only
schoolname	School name	Yes
schoolunitname	School unit name	Yes
schoolunitcode	School unit code	Yes
schooltype	School type, see supported school types	Yes

## 5 Program choice

### 5.1 Description

This chapter describes the program choice entities and their attributes.

### 5.2 Domain model



### 5.3 Entities

#### 5.3.1 ProgramChoice

Name	Description	Read-only
student	The student	No
program	Program choice program	No

### 5.3.2 ProgramChoiceProgram

Name	Description	Read-only
code	Program code	No
profilecode	Program profile code	No
vocationaloutcomecode	Vocational outcome code. Only set for programs with vocational outcome.	No
reduced	Student adapted subject	No

### 5.3.3 Student

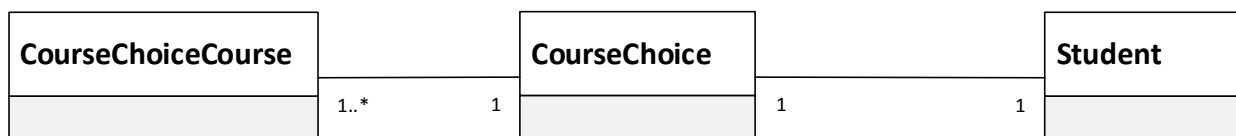
Name	Description	Read-only
id	Student identity. The id can be GUID or PID for the student.	No
name	Student name	Yes

## 6 Course choice

### 6.1 Description

This chapter describes the course choice entities and their attributes.

### 6.2 Domain model



### 6.3 Entities

#### 6.3.1 CourseChoice

Name	Description	Read-only
student	The student	No
courses	All courses that are part of the course choice	No

### 6.3.2 CourseChoiceCourse

Name	Description	Read-only
code	SCB course code	No
type	Course type <i>Orientation</i> Orientation <i>ProgramRecess</i> Program recess <i>IndividualChoice</i> Individual choice	No
deviation	Deviation from the program. Not set for the adult school types. <i>NoDeviation</i> Indicates that the course is part of the program as default  <i>Added</i> Indicates that the course has been added  <i>Removed</i> Indicates that the course has been removed	No
content	Information about a course specialization. Only set for specialized courses. Not set for the adult school types.	No
contentinenglish	Information about a course specialization in english. Only set for specialized courses. Not set for the adult school types.	No
trialperformed	Indicates that a trial of the course knowledge has been performed. Not set for the adult school types.	No
hours	Hours for the course	No
group	Group in which the course is studied	No
start	Start date for the course	No
end	End date for the course	No

### 6.3.3 Student

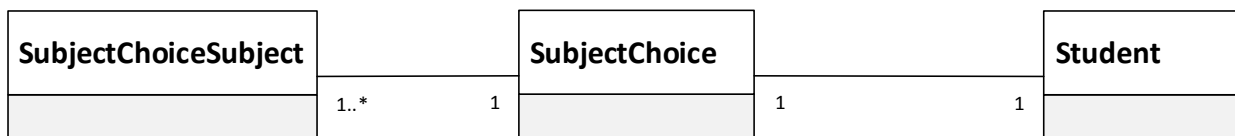
Name	Description	Read-only
id	Student identity. The id can be GUID or PID for the student.	No
name	Student name	Yes

## 7 Subject choice

### 7.1 Description

This chapter describes the subject plan entities and their attributes.

### 7.2 Domain model



### 7.3 Entities

#### 7.3.1 SubjectChoice

Name	Description	Read-only
student	The student	No
subjects	All subjects that are part of the subject choice	No

#### 7.3.2 SubjectChoiceSubject

Name	Description	Read-only
code	SCB subject code	No
type	<div> <div>Type of subject choice</div> <div> <div>StudentChoice</div> <div>Student choice (not a modern language)</div> </div> <div> <div>StudentChoiceLanguage</div> <div>Student choice (modern language)</div> </div> <div> <div>LanguageChoice</div> <div>Language choice (modern language)</div> </div> <div> <div>AlternativeToLanguageChoice</div> <div>Alternative to language choice</div> </div> <div> <div>MotherTongue</div> <div>Mother tongue</div> </div> <div> <div>Other</div> <div>Other type</div> </div> </div>	No

### 7.3.3 Student

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

## 8 Services

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

### 8.1 Study plan

The services below gives study plan for a specified student or study plans valid at a specified date. The output is XML information with the study plans.

Base path for services are:

[https://\[host\]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc](https://[host]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc)

Parameters – Alternative 1 (not available for delta services):

Parameter	Mandatory	Description
Id	Yes	Student identity. The id can be GUID or PID for the student.

Parameters – Alternative 2 (not available for delta services):

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 one year.

Parameters – Alternative 3 (only available for delta services):

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
GetUpperSecondarySchoolStudyPlan	Get study plan for upper secondary school student



Service	Description
GetUpperSecondarySchoolForLearningDisabilitiesStudyPlan	Get study plan for upper secondary school with learning disabilities student
GetSwedishForImmigrantsSchoolStudyPlan	Get study plan for Swedish for immigrants student
GetMunicipalAdultSchoolStudyPlan	Get study plan for municipal adult school student
GetAdultSchoolForLearningDisabilitiesStudyPlan	Get study plan for adult school with learning disabilities student
GetHigherVocationalEducationStudyPlan	Get study plan for higher vocational education student

## 8.2 Subject plan

The services below gives subject plan for a specified student or subject plans valid at a specified date. The output is XML information with the subject plans.

Base path for services are:

[https://\[host\]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc](https://[host]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc)

Parameters – Alternative 1:

Parameter	Mandatory	Description
Id	Yes	Student identity. The id can be GUID or PID for the student.

Parameters – Alternative 2:

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 one year.

Services:

Service	Description
GetCompulsorySchoolSubjectplan	Get subject plan for compulsory school student
GetCompulsorySchoolForLearningDisabilitiesSubjectplan	Get subject plan for compulsory school with learning disabilities student

## 8.3 Program choice

The services below update or add program choices for students. The services take no parameters.

Base path for services are:

[https://\[host\]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc](https://[host]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc)

Services:

Service	Description
UpdateUpperSecondarySchoolProgramChoice	Update program choice for upper secondary school student
UpdateUpperSecondarySchoolForLearningDisabilitiesProgramChoice	Update program choice for upper secondary school with learning disabilities student

## 8.4 Course choice

The services below update or add course choices for students. The services take no parameters.

Base path for services are:

[https://\[host\]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc](https://[host]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc)

Services:

Service	Description
UpdateUpperSecondarySchoolCourseChoice	Update course choice for upper secondary school student
UpdateUpperSecondarySchoolForLearningDisabilitiesCourseChoice	Update course choice for upper secondary school with learning disabilities student

## 8.5 Subject choice

The services below update or add subject choices for students. The services take no parameters.

Base path for services are:

[https://\[host\]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc](https://[host]/WE.Education.Integration.Host/LES/StudyInformation/V3/StudyInformation.svc)

Services:

Service	Description
UpdateCompulsorySchoolSubjectChoice	Update subject choice for compulsory school student
UpdateCompulsorySchoolForLearningDisabilitiesSubjectChoice	Update subject choice for compulsory school with learning disabilities student

## 9 Appendix

### 9.1 References

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

### 9.2 Vocabulary

Word	Description
PID	Personal identity, formatted [YYYYMMDD-NNNN]
GUID	Global unique identifier