

Technical Specification

Outcome API



Table of Contents

1 Introduction.....	4
1.1 Prerequisites	4
2 Supported school types	5
3 Grade reports.....	6
3.1 Outcome	6
3.1.1 Supported outcome for the different school types	6
3.1.2 Final report	6
3.1.3 Semester report	7
3.1.4 Diploma certificate report	7
3.1.5 Study certificate report	7
3.1.6 Catalog extraction report	7
3.1.7 Upper secondary school certificate report	7
3.2 Domain model	7
3.3 Entities	8
3.3.1 Report.....	8
3.3.2 SubjectReport	8
3.3.3 SubjectReportGrade	9
3.3.4 FinalReport.....	9
3.3.5 SemesterReport	9
3.3.6 CourseReport	9
3.3.7 CourseReportGrade	10
3.3.8 DiplomaCertificateReport	10
3.3.9 StudyCertificateReport	10
3.3.10 UpperSecondarySchoolCertificateReport	10
3.3.11 CatalogExtractionReport	10
3.3.12 Unit	11
3.3.13 Principal.....	11
3.3.14 Student	11
3.3.15 Assessor.....	11
3.3.16 Course	11
3.3.17 Subject	12
4 Grades	13
4.1 GradeOutcome	13
4.1.1 Supported outcome for the different school types	13
4.1.2 Subject outcome	13
4.1.3 Course grade.....	13
4.2 Domain model	13
4.3 Entities	14
4.3.1 GradeOutcome.....	14
4.3.2 SubjectGrade	15
4.3.3 CourseGrade.....	15
4.3.4 Student	15
4.3.5 Assessor.....	16

4.3.6 Course	16
4.3.7 Subject	16
4.3.8 Semester	16
5 Assessment	17
5.1 AssessmentOutcome	17
5.1.1 Supported outcome for the different school types	17
5.1.2 Course assessment	17
5.2 Domain model	17
5.3 Entities	18
5.3.1 AssessmentOutcome	18
5.3.2 CourseAssessment	18
5.3.3 Student	18
5.3.4 Assessor	18
5.3.5 Course	19
6 National tests	20
6.1 NationalTestOutcome	20
6.1.1 Supported outcome for the different school types	20
6.2 Domain model	20
6.3 Entities	22
6.3.1 NationalTestOutcome	22
6.3.2 SubjectNationalTestResult	22
6.3.3 SubjectNationalSubTestResult	22
6.3.4 CourseNationalTestResult	23
6.3.5 CourseNationalSubTestResult	23
6.3.6 Student	23
6.3.7 Course	23
6.3.8 Subject	24
6.3.9 System	24
6.3.10 Testopportunity	24
6.3.11 Math	24
6.3.12 Swedish	24
6.3.13 English	24
6.3.14 Testresult	25
6.3.15 Nationaltestexport	25
7 Services	26
7.1 Grade reports	26
7.1.1 Export	26
7.1.2 Import	27
7.2 Grades	27
7.2.1 Export	27
7.2.2 Import	28
7.3 Assessments	29
7.3.1 Export	29
7.3.2 Import	30
7.4 National tests	30
7.4.1 Export	30
7.4.1.1 Get methods	30

7.4.1.2 Export methods	31
7.4.2 Import	32
7.4.2.1 Use cases	32
7.4.2.1.1 Import with the complete-attribute set to false (default behaviour)	32
7.4.2.1.2 Import with the complete-attribute set to true	32
8 Appendix	34
8.1 References	34
8.2 Vocabulary	34

1 Introduction

The Outcome API provides services that make it possible to get and set the students outcome, i.e. grades, assessments and national tests. The services in the Outcome API are accessed via URIs.

This document describes following:

- Which grade, assessment and national test information that a user can get and set via the Outcome API.
- How the grade, assessment and national test information is divided into entities and how these entities are structured.

1.1 Prerequisites

Before you can get access to the Outcome 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	Secondary school organization 3-4 years education	GY
Upper Secondary School For Learning Disabilities	Organization for 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 Grade reports

3.1 Outcome

3.1.1 Supported outcome for the different school types

This chapter describes the supported outcome for the different types of school.

School type	Outcome
Compulsory School	Final report, Semester report
Compulsory School For Learning Disabilities	Final report, Semester report
Upper Secondary School	Diploma certificate report, Study certificate report, Catalog extraction report, Upper secondary school certificate report
Upper Secondary School For Learning Disabilities	Diploma certificate report, Catalog extraction report
Swedish For Immigrants School	Catalog extraction report
Adult School For Learning Disabilities	Catalog extraction report
Municipal Adult School	Diploma certificate report, Study certificate report, Catalog extraction report
Higher Vocational Education	Diploma certificate report, Study certificate report, Catalog extraction report

3.1.2 Final report

Final report is given to students who finish the ninth grade at compulsory school and compulsory school for learning disabilities.

3.1.3 Semester report

Semester report is given to students twice a year, at the end of each semester. The first semester report is given at the end of the first semester in the sixth grade. The last semester report is given at the end of the first semester in the ninth grade.

The semester report is used for compulsory school and for compulsory school for learning disabilities.

3.1.4 Diploma certificate report

Diploma certificate report is given to students finishing last grade, with approved study result.

3.1.5 Study certificate report

Study certificate report is given to students finishing last grade, with not approved study result.

3.1.6 Catalog extraction report

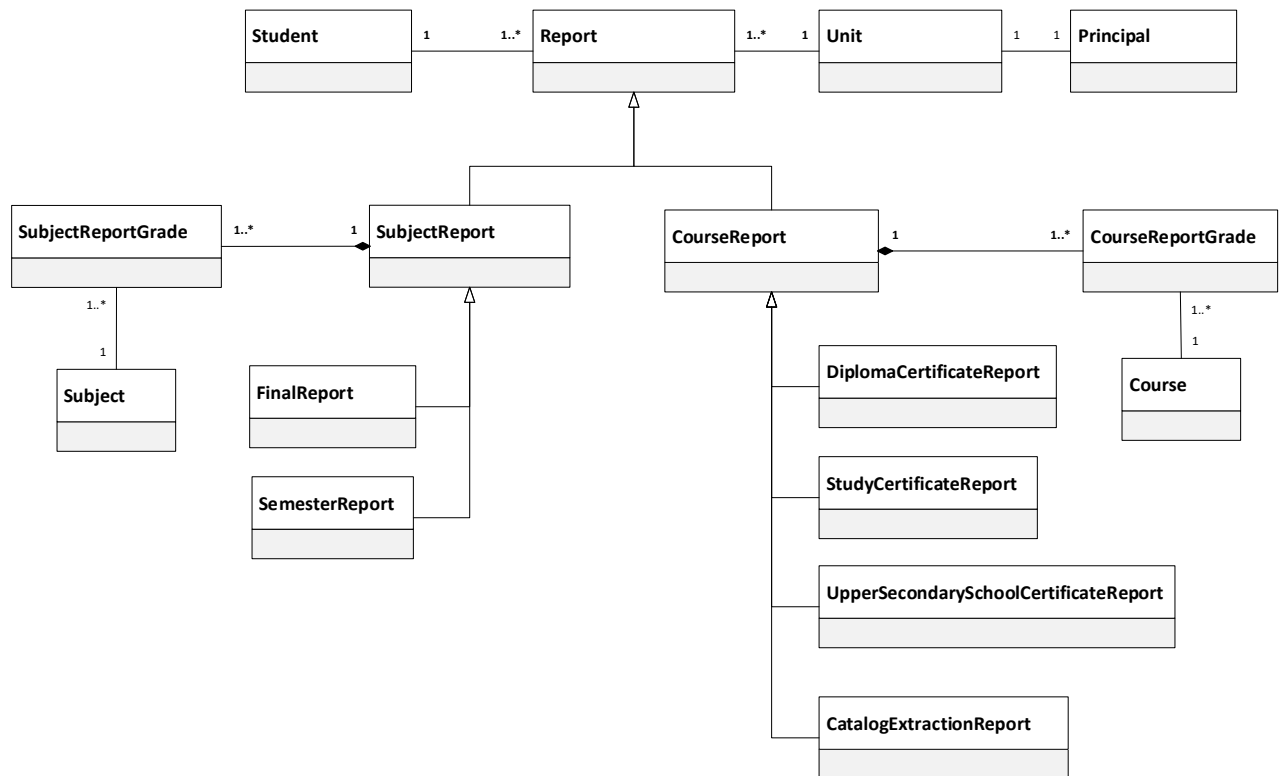
A catalog extraction report contains the grades that have been set for a student at the time the catalog extraction report was created.

3.1.7 Upper secondary school certificate report

Upper secondary school certificate report is given to students that have finished an introduction program at upper secondary school.

3.2 Domain model

The diagram below describes how the grade information is divided into entities and how these entities are structured. The entities are grouped into course and subject oriented grades.



3.3 Entities

3.3.1 Report

Name	Description	Read-only
date	Date and time for the report	No
unit	The issuing unit	No
student	Student	No

3.3.2 SubjectReport

Name	Description	Read-only
schoolyear	School year for report	No

3.3.3 SubjectReportGrade

Name	Description	Read-only
subject	SCB subject code	No
grade	Grade for the subject	Yes
finalgrade	Indicates if the subject grade refers to a final grade, enumerated as True, False. (This attribute is only used for semester reports.)	Yes
trialperformed	Indicates that a trial of the subject knowledge has been performed	Yes
remark	Indicates eventual remark of the grade. Is an enumeration. (This attribute is only used for semester reports.) AdaptedStudyPlan Adapted study plan GradeNotSet77 Goal not reached according to Grf 7:7 GradeNotSet1018 No grade set, Education Act 10:18 GradeNotSet1120 No grade set, Education Act 11:20	Yes
period	Period when grade was set as finalgrade	Yes

3.3.4 FinalReport

Name	Description	Read-only
grades	One or more subject report grades	No

3.3.5 SemesterReport

Name	Description	Read-only
semester	Autumn or spring semester	No
absence	Total absence in hours for the student	No
grades	One or more subject report grades	No

3.3.6 CourseReport

Name	Description	Read-only
program	The program code	No
basiceligibility	Basic eligibility	No

3.3.7 CourseReportGrade

Name	Description	Read-only
course	SCB course code	No
grade	Grade for the course	Yes
trialperformed	Indicates that a trial of the course knowledge has been performed	Yes
date	Grade date	Yes
courselevel	Level of course	Yes

3.3.8 DiplomaCertificateReport

Name	Description	Read-only
grades	One or more course report grades	No

3.3.9 StudyCertificateReport

Name	Description	Read-only
grades	One or more course report grades	No

3.3.10 UpperSecondarySchoolCertificateReport

Name	Description	Read-only
grades	One or more course report grades	No

3.3.11 CatalogExtractionReport

Name	Description	Read-only
grades	One or more course report grades	Yes
absence	Total absence in hours for the student	Yes

Comment: Since all attributes are read-only, the whole CatalogExtractionReport is read-only and therefore import of CatalogExtractionReport is not supported.

3.3.12 Unit

Name	Description	Read-only
id	Id for the unit	No
schoolname	School name	Yes
schoolunitcode	School unit code	Yes
schoolunitname	School unit name	Yes
schooltype	School type, see supported school types	Yes
principal	Principal	Yes

3.3.13 Principal

Name	Description	Read-only
id	Principal identity	No
name	Principal name	Yes

3.3.14 Student

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

3.3.15 Assessor

Name	Description	Read-only
id	Assessor identity	No
name	Assessor name	Yes

3.3.16 Course

Name	Description	Read-only
code	Course code	No
name	Course name	Yes

Name	Description	Read-only
points	Total number of points for the course	Yes

3.3.17 Subject

Name	Description	Read-only
code	Subject code	No
name	Subject name	Yes

4 Grades

4.1 GradeOutcome

4.1.1 Supported outcome for the different school types

This chapter describes the supported outcome for the different types of school.

School type	Outcome
Compulsory School	Grade outcome with subject grades
Compulsory School For Learning Disabilities	Grade outcome with subject grades
Upper Secondary School	Grade outcome with course grades
Upper Secondary School For Learning Disabilities	Grade outcome with course grades
Swedish For Immigrants School	Grade outcome with course grades
Adult School For Learning Disabilities	Grade outcome with course grades
Municipal Adult School	Grade outcome with course grades
Higher Vocational Education	Grade outcome with course grades

4.1.2 Subject outcome

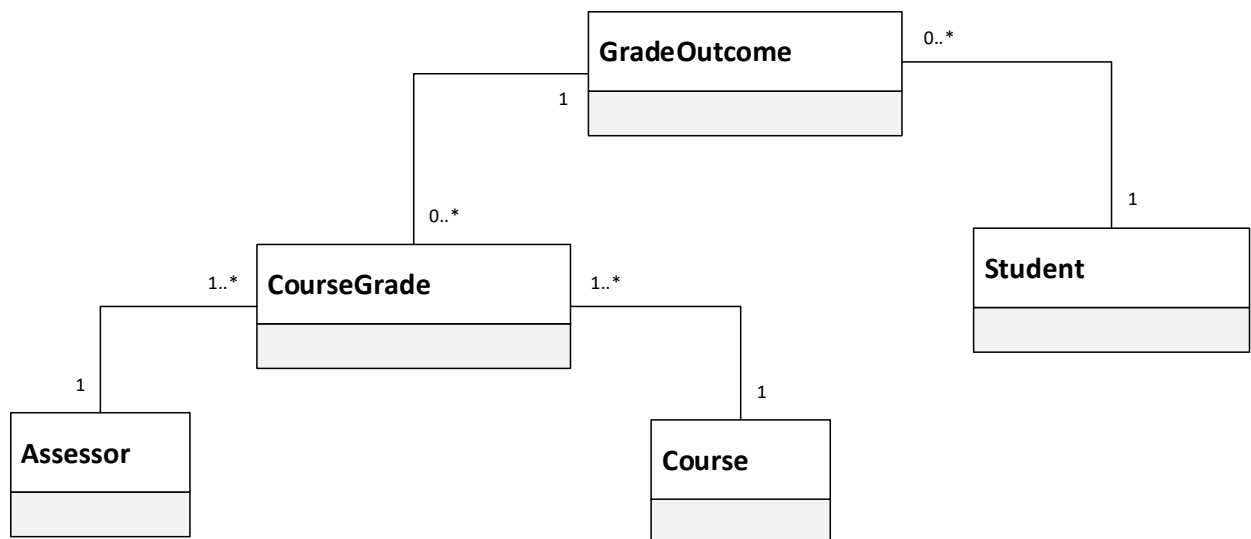
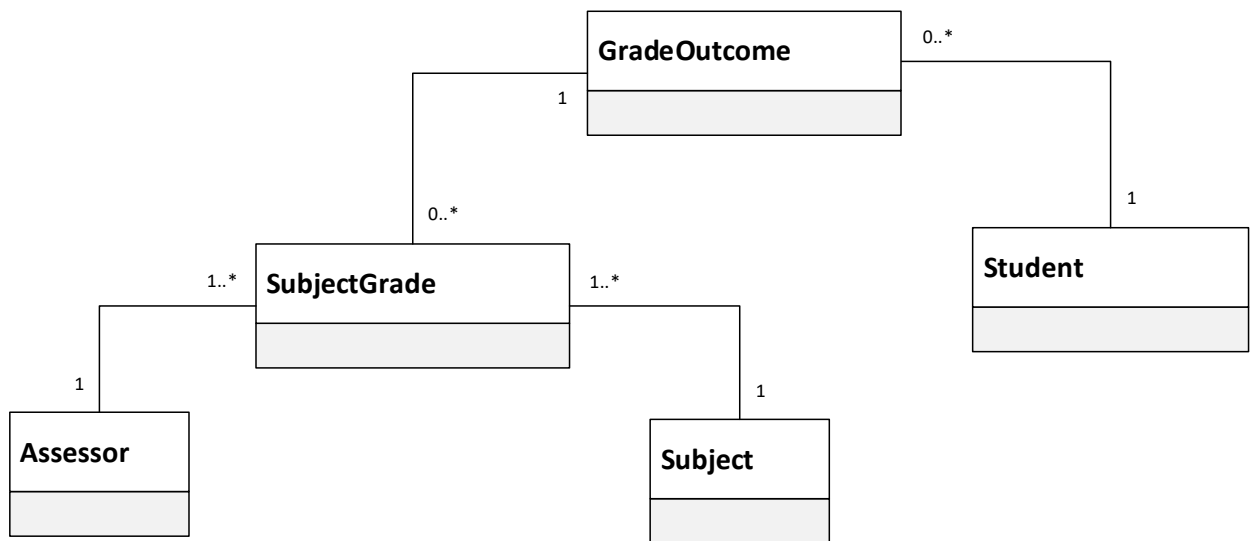
A student's grades in a subject

4.1.3 Course grade

A student's grades in a course

4.2 Domain model

The diagram below describes how the grades information is divided into entities and how these entities are structured.



4.3 Entities

4.3.1 GradeOutcome

Name	Description	Read-only
student	Student	No
subjectgrade	The students subject grades	No
coursegrade	The students course grades	No
complete	If all the students grades are in the list	No

4.3.2 SubjectGrade

Name	Description	Read-only
assessor	Assessor for the subject	No
unitid	Unit id, use EXTERNAL for external grades	No
schoolname	School name	Yes
subject	Subject	No
grade	Grade for the subject	No
finalgrade	Indicates if the subject grade refers to a final grade, enumerated as True, False. (This attribute is only used for semester reports.)	No
trialperformed	Indicates that a trial of the subject knowledge has been performed	No
remark	Indicates eventual remark of the grade. Is an enumeration. (This attribute is only used for semester reports.) AdaptedStudyPlan Adapted study plan GradeNotSet77 Goal not reached according to Grf 7:7 GradeNotSet1018 No grade set, Education Act 10:18 GradeNotSet1120 No grade set, Education Act 11:20	No
date	The date when the grade is set	No
semester	The semester the grade belongs to	No

4.3.3 CourseGrade

Name	Description	Read-only
assessor	Assessor for the course	No
unitid	Unit id, use EXTERNAL for external grades	No
schoolname	School name	Yes
groupid	Group id	No
course	Course	No
grade	Grade for the course	No
trialperformed	Indicates that a trial of the course knowledge has been performed	No
date	Grade date	No

4.3.4 Student

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

4.3.5 Assessor

Name	Description	Read-only
id	Assessor identity	No
name	Assessor name	Yes

4.3.6 Course

Name	Description	Read-only
code	Course code	No
name	Course name	Yes
points	Total number of points for the course	Yes

4.3.7 Subject

Name	Description	Read-only
code	Subject code	No
recommendedsubjectcode	Generated scbcode for subject	No
name	Subject name	Yes

4.3.8 Semester

Name	Description	Read-only
type	Enumerated value describing the semester: VT first half of the year HT second half of the year	No
year	The year of the semester. Format YY or YYYY	No

5 Assessment

5.1 AssessmentOutcome

5.1.1 Supported outcome for the different school types

This chapter describes the supported outcome for the different types of school.

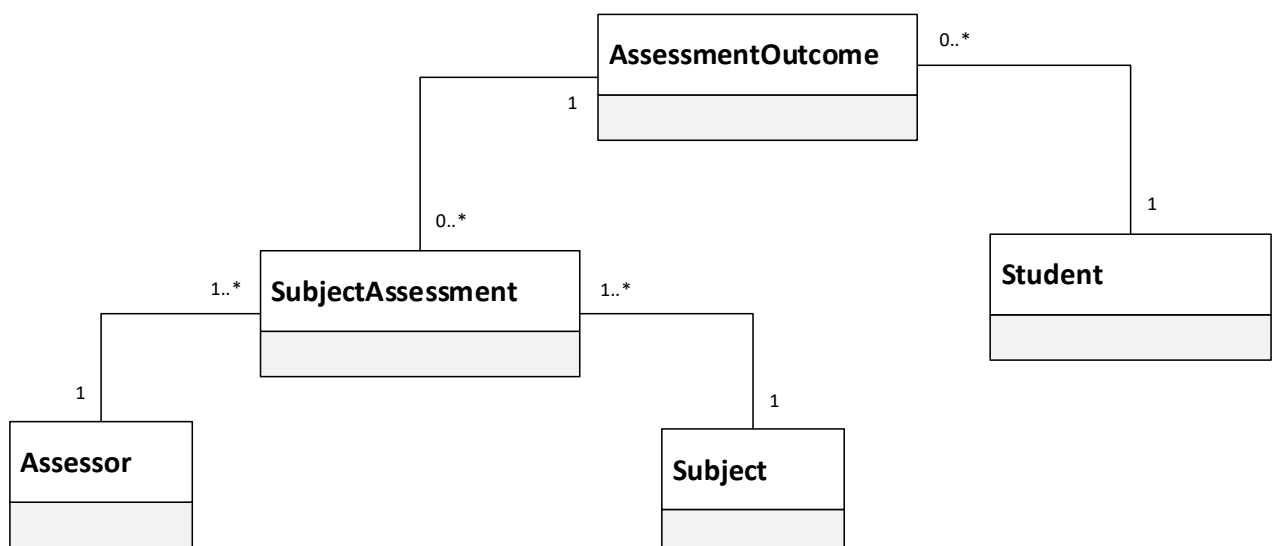
School type	Outcome
Swedish For Immigrants School	Assessment outcome with course assessment
Adult School For Learning Disabilities	Assessment outcome with course assessment
Municipal Adult School	Assessment outcome with course assessment
Higher Vocational Education	Assessment outcome with course assessment

5.1.2 Course assessment

A student's assessment in a course

5.2 Domain model

The diagram below describes how the assessment information is divided into entities and how these entities are structured.



5.3 Entities

5.3.1 AssessmentOutcome

Name	Description	Read-only
student	Student	No
courseassessment	The students course assessments	No
complete	If all the students grades are in the list	No

5.3.2 CourseAssessment

Name	Description	Read-only
assessor	Assessor for the course	No
unitid	Unit id, use EXTERNAL for external assessments	No
schoolname	School name	Yes
groupid	Group id	No
course	Course	No
assessment	Assessment for the course	No
date	Assessment date	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

5.3.4 Assessor

Name	Description	Read-only
id	Assessor identity	No
name	Assessor name	Yes

5.3.5 Course

Name	Description	Read-only
code	Course code	No
name	Course name	Yes
points	Total number of points for the course	Yes

6 National tests

6.1 NationalTestOutcome

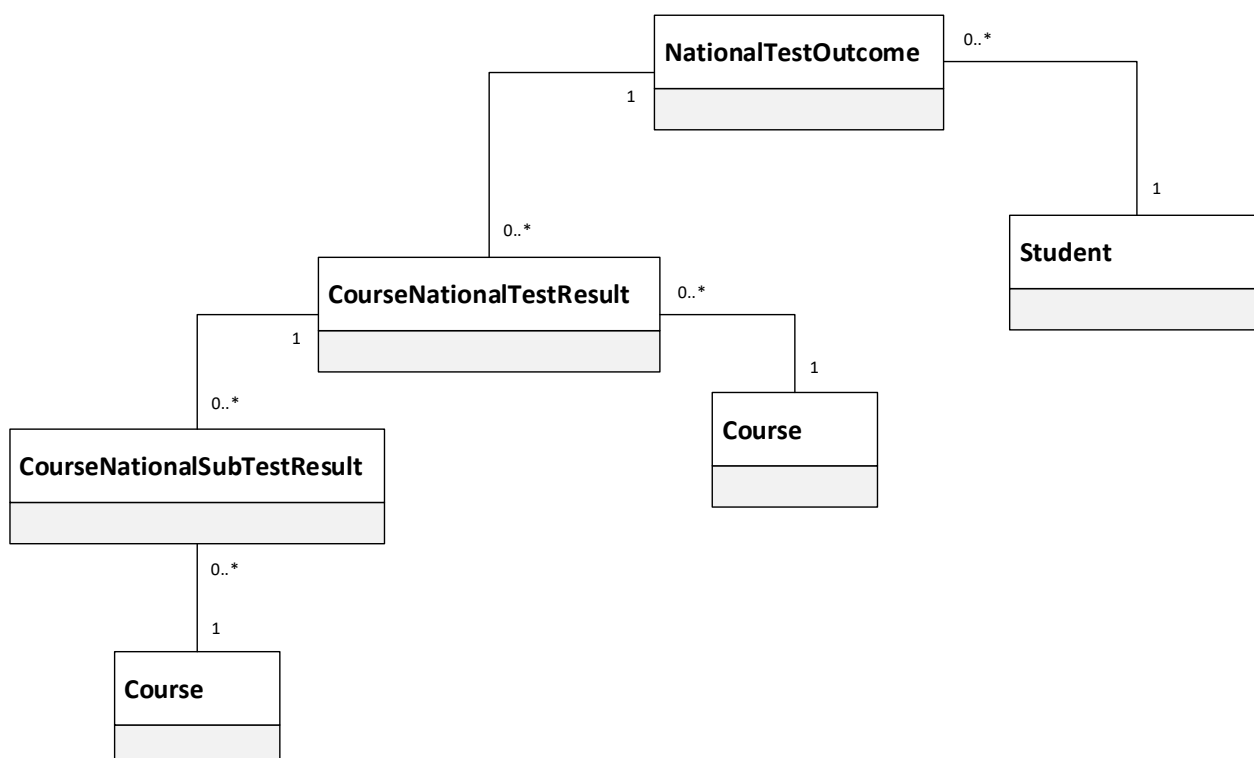
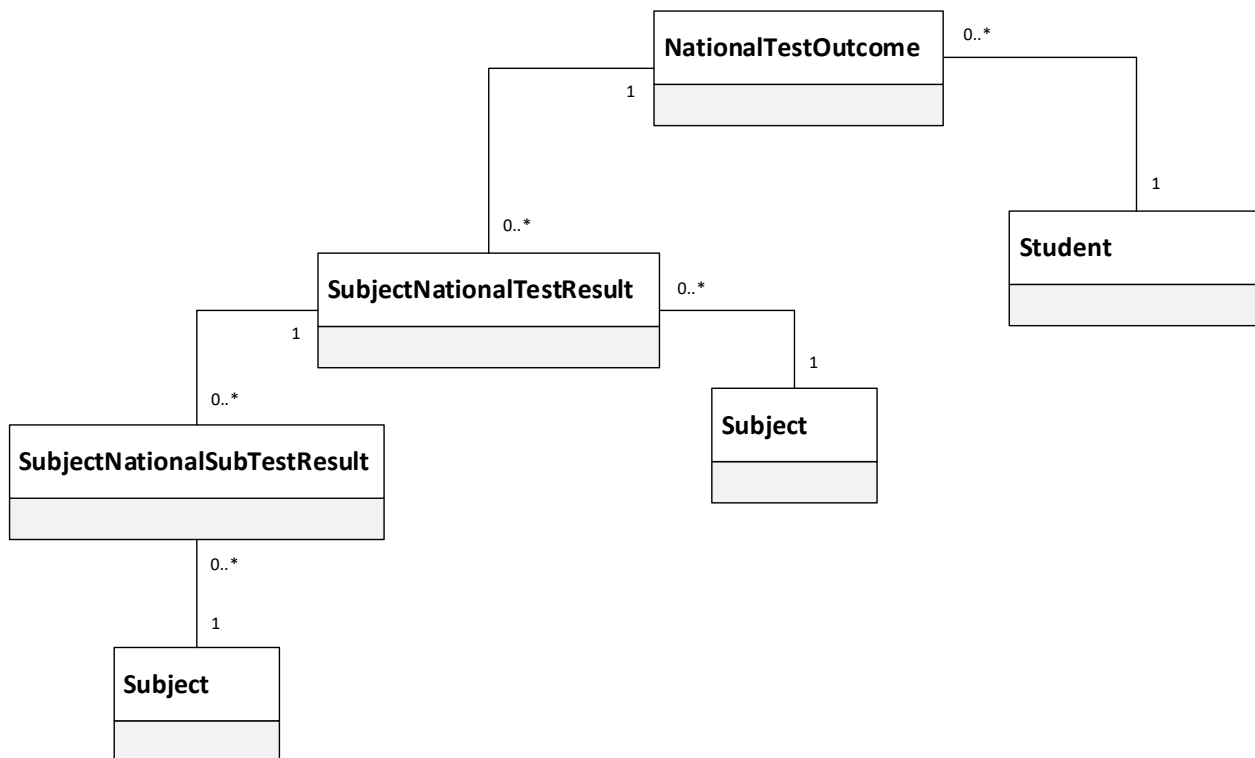
6.1.1 Supported outcome for the different school types

This chapter describes the supported outcome for the different types of school.

School type	Outcome
Compulsory School	NationalSubjectTest
Upper Secondary School	NationalCourseTest
Swedish For Immigrants School	NationalCourseTest
Municipal Adult School	NationalCourseTest

6.2 Domain model

The diagram below describes how the national test information is divided into entities and how these entities are structured.



6.3 Entities

6.3.1 NationalTestOutcome

Name	Description	Read-only
student	Student	No
coursenationaltest	The students national test course results (valid for GY, KV and SF)	No
subjectnationaltest	The students national test subject results (valid for GR)	No
complete	If all the student's results are in the list	No

6.3.2 SubjectNationalTestResult

Name	Description	Read-only
subject	SCB subject code	No
subtestresult	A list of sub test results	No
registrationdate	Date when test result is registered	No
schoolyear	The school year in which the national test was performed.	No
grade	Grade for the national test	No
participated	Indicator whether the student participated in the test	No

6.3.3 SubjectNationalSubTestResult

Name	Description	Read-only
points	Points of the subtest	No
type	The type of the test, enumerated as Read, Speak, Write, Listen, A, B, ..., H	No
grade	Grade for the national sub test	No
status	Status of the subtest, enumerated as approved, notapproved, notparticipated and lost	No

6.3.4 CourseNationalTestResult

Name	Description	Read-only
course	SCB course code	No
subtestresult	A list of sub test results	No
registrationdate	Date when test result is registered	No
grade	Grade for the national test	No
participated	Indicator whether the student participated in the subtest	No

6.3.5 CourseNationalSubTestResult

Name	Description	Read-only
points	Points of the subtest	No
type	The type of the test, enumerated as Read, Speak, Write, Listen, A, B, ..., H	No
grade	Grade for the national sub test	No
status	Status of the subtest, enumerated as approved, notapproved, notparticipated and lost	No

6.3.6 Student

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

6.3.7 Course

Name	Description	Read-only
code	Course code	No
name	Course name	Yes
points	Total number of points for the course	Yes

6.3.8 Subject

Name	Description	Read-only
code	Subject code	No
name	Subject name	Yes

6.3.9 System

Name	Description	Read-only
name	System name (Tieto Education)	Yes
version	System version	Yes
dateofexport	Date when the api is called	Yes

6.3.10 Testopportunity

Name	Description	Read-only
scbexportorder	The column order in SCB export file. Order is only relevant within a single subject.	Yes
result	Value for this column in a SCB export file. Follows the rules of the SCB file for the period. An example can be 99 for did not participate	Yes

6.3.11 Math

Name	Description	Read-only
math	List of testopportunity	Yes

6.3.12 Swedish

Name	Description	Read-only
Swedish	List of testopportunity	Yes

6.3.13 English

Name	Description	Read-only
english	List of testopportunity	Yes

6.3.14 Testresult

Name	Description	Read-only
personid	Personid of student	Yes
schoolyear	Only for compulsory, 3, 6 or 9 are the valid values	Yes
program	Only for upper secondary, the program the student is taking	Yes
classname	The class for the student	Yes
coursecode	The official course code the student is studying when taking the test. Not used for compulsory	Yes
coursegrade	The grade the student achieved for the course, if available. Only used for upper secondary	Yes
scbschoolid	The official school id registered with SCB. See https://scb.se/skolreg for the current list	Yes
firstname	First name of student	Yes
middlename	Middle name of student, not always available	Yes
lastname	Last (Family) name of student	Yes
swedishforimmigrants	True if the student is taking a Swedish for immigrants course, course code is or contains SVA	Yes
periodstart	Date when the test period starts. This is usually the start of the term	Yes
periodend	Date when the test period ends. This is usually the end of the term	Yes
math	List of test opportunities. Can be null for all school forms except compulsory	Yes
english	List of test opportunities. Can be null for all school forms except compulsory	Yes
swedish	List of test opportunities. Can be null for all school forms except compulsory	Yes

6.3.15 Nationaltestexport

Name	Description	Read-only
Properties	Properties object	Yes
system	System object	Yes
results	List of students test results	Yes

7 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.

7.1 Grade reports

7.1.1 Export

The services below give grade reports for a student or grade reports created within a specified date interval. The output is XML information with grade reports.

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.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
StartDate	Yes	Start date in the format YYYY-MM-DD.
EndDate	Yes	End date in the format YYYY-MM-DD. The maximum allowed difference between start date and end date is one year.

Services:

Service	Description
GetCompulsorySchoolGradeReports	Get grade reports for compulsory schools student
GetCompulsorySchoolForLearningDisabilitiesGradeReports	Get grade reports for compulsory school with learning disabilities student
GetUpperSecondarySchoolGradeReports	Get grade reports for upper secondary school student
GetUpperSecondarySchoolForLearningDisabilitiesGradeReports	Get grade reports for upper secondary school with learning disabilities student
GetSwedishForImmigrantsSchoolGradeReports	Get grade reports for Swedish for immigrants student
GetMunicipalAdultSchoolGradeReports	Get grade reports for municipal adult school student
GetAdultSchoolForLearningDisabilitiesGradeReports	Get grade reports for adult school with learning disabilities student

Service	Description
GetHigherVocationalEducationGradeReports	Get grade reports for higher vocational education student

7.1.2 Import

The services below update or add new grade reports. The services take no parameters.

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc)

Services:

Service	Description
UpdateUpperSecondarySchoolGradeReports	Update or add new grade reports for upper secondary school student
UpdateUpperSecondarySchoolForLearningDisabilitiesGradeReports	Update or add new grade reports for upper secondary school with learning disabilities student
UpdateSwedishForImmigrantsSchoolGradeReports	Update or add new grade reports for Swedish for immigrants student
UpdateMunicipalAdultSchoolGradeReports	Update or add new grade reports for municipal adult school student
UpdateAdultSchoolForLearningDisabilitiesGradeReports	Update or add new grade reports for adult school with learning disabilities student
UpdateHigherVocationalEducationGradeReports	Update or add new grade reports for higher vocational education student

7.2 Grades

7.2.1 Export

The services below give grades for a student or grades created within a specified date interval. The output is XML information with grades.

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.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
StartDate	Yes	Start date in the format YYYY-MM-DD.
EndDate	Yes	End date in the format YYYY-MM-DD. The maximum allowed difference between start date and end date is one year.

Services:

Service	Description
GetCompulsorySchoolGrades	Get grades for compulsory school students
GetCompulsorySchoolForLearningDisabilitiesGrades	Get grades for compulsory school for learning disabilities students
GetUpperSecondarySchoolGrades	Get grades for upper secondary school students
GetUpperSecondarySchoolForLearningDisabilitiesGrades	Get grades for upper secondary school for learning disabilities students
GetSwedishForImmigrantsSchoolGrades	Get grades for Swedish for immigrants school students
GetMunicipalAdultSchoolGrades	Get grades for municipal adult school students
GetAdultSchoolForLearningDisabilitiesGrades	Get grades for adult school for learning disabilities students
GetHigherVocationalEducationGrades	Get grades for higher vocational education students

7.2.2 Import

The services below update or add new grades for students. The services take no parameters.

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc)

Services:

Service	Description
UpdateCompulsorySchoolGrades	Update or add new grades for compulsory school students
UpdateCompulsorySchoolForLearningDisabilitiesGrades	Update or add new grades for compulsory school for learning disabilities students
UpdateUpperSecondarySchoolGrades	Update or add new grades for upper secondary school students
UpdateUpperSecondarySchoolForLearningDisabilitiesGrades	Update or add new grades for upper secondary school for learning disabilities students

Service	Description
UpdateSwedishForImmigrantsSchoolGrades	Update or add new grades for Swedish for immigrants students
UpdateMunicipalAdultSchoolGrades	Update or add new grades for municipal adult school students
UpdateAdultSchoolForLearningDisabilitiesGrades	Update or add new grades for adult school with learning disabilities students
UpdateHigherVocationalEducationGrades	Update or add new grades for higher vocational education students

7.3 Assessments

7.3.1 Export

The services below give assessment for a student or assessment created within a specified date interval. The output is XML information with assessments.

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.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
StartDate	Yes	Start date in the format YYYY-MM-DD.
EndDate	Yes	End date in the format YYYY-MM-DD. The maximum allowed difference between start date and end date is one year.

Services:

Service	Description
GetSwedishForImmigrantsSchoolAssessments	Get assessments for Swedish for immigrants school students
GetMunicipalAdultSchoolAssessments	Get assessments for municipal adult school students
GetAdultSchoolForLearningDisabilitiesAssessments	Get assessments for adult school for learning disabilities students
GetHigherVocationalEducationAssessments	Get assessments for higher vocational education students

7.3.2 Import

The services below update or add new assessments for students. The services take no parameters.

Base path for services are: [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc)

Services:

Service	Description
UpdateSwedishForImmigrantsSchoolAssessments	Update or add new assessments for Swedish for immigrants students
UpdateMunicipalAdultSchoolAssessments	Update or add new assessments for municipal adult school students
UpdateAdultSchoolForLearningDisabilitiesAssessments	Update or add new assessments for adult school with learning disabilities students
UpdateHigherVocationalEducationAssessments	Update or add new assessments for higher vocational education students

7.4 National tests

7.4.1 Export

The services below give national test results for subjects and courses. The output is XML information with the national test results.

There are two sets of services for exporting national tests. Any method starting with Get exports only results imported from another system through the API in 7.4.2. Any method starting with Export exports the results entered into Tieto Education by administrators.

7.4.1.1 Get methods

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.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
StartDate	Yes	Start date in the format YYYY-MM-DD.
EndDate	Yes	End date in the format YYYY-MM-DD. The maximum allowed difference between start date and end date is

Parameter	Mandatory	Description
		one year.

Services:

Service	Description
GetCompulsorySchoolNationalTests	Get national test result for a compulsory school subject
GetUpperSecondarySchoolNationalTests	Get national test result for an upper secondary school course
GetSwedishForImmigrantsSchoolNationalTests	Get national test result for a Swedish for immigrants school course
GetMunicipalAdultSchoolNationalTests	Get national test result for a municipal adult school course

7.4.1.2 Export methods

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc)

Parameters

Parameter	Mandatory	Description
personId	No	Student identity, their national identifier
schoolYear	No	Valid values 3, 6 or 9. Only supported for compulsory
className	No	Class name. Only supported for compulsory and upper secondary
scbSchoolId	No	Official school id from SCB. See https://scb.se/skolreg
searchDate	No	Selects a test period. It's matched against periodstart <= searchDate <= periodend
program	No	Program code, only used by upper secondary

Services:

Service	Description
ExportCompulsorySchoolNationalTests	Get national test result for a compulsory school subject
ExportUpperSecondarySchoolNationalTests	Get national test result for an upper secondary school course
ExportSwedishForImmigrantsSchoolNationalTests	Get national test result for a Swedish for immigrants school course
ExportMunicipalAdultSchoolNationalTests	Get national test result for a municipal adult school course

7.4.2 Import

The services below update or add national test results for subjects and courses. The services take no parameters.

Base path for services is [https://\[host\]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc](https://[host]/WE.Education.Integration.Host/LES/OutCome/V4/Outcome.svc)

Services:

Service	Description
UpdateCompulsorySchoolNationalTests	Update or add new national test result for a compulsory school subject
UpdateUpperSecondarySchoolNationalTests	Update or add new national test result for an upper secondary school course
UpdateSwedishForImmigrantsSchoolNationalTests	Update or add new national test result for Swedish for immigrants course
UpdateMunicipalAdultSchoolNationalTests	Update or add new national test result for municipal adult school course

7.4.2.1 Use cases

7.4.2.1.1 Import with the complete-attribute set to false (default behaviour)

Imported student	Results in
If there is no existing test result with same course/subject, registration date, school type - and school year for subject test results - exists in the Tieto Education system	Test result is saved
If there are existing test result(s) with the same course/subject, registration date, school type - and school year for subject test results - in the Tieto Education system	The existing test result(s) are overwritten
If there are existing test result(s) with course/subject, registration date, school type - and school year for subject test results - in the Tieto Education system that does not exists in the imported data	The existing test results are untouched

7.4.2.1.2 Import with the complete-attribute set to true

Imported student	Results in
If there is no existing test result with same course/subject, registration date, school type - and school year for subject test results - exists in the Tieto Education system	Test result is saved
If there are existing test result(s) with the same course/subject, registration date, school type - and school year for subject test results - in the Tieto Education system	The existing test result(s) are overwritten

Imported student	Results in
If there are existing test result(s) with course/subject, registration date, school type - and school year for subject test results - in the Tieto Education system that does not exists in the imported data	The existing test results are removed from Tieto Education

8 Appendix

8.1 References

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

8.2 Vocabulary

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