Business Requirements

Aegis 9508 – Victorian Curriculum - CASES21



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Document Control

The source of the document will be found:

<http://www.education.vic.gov.au/school/teachers/support/pages/studentreports.aspx>

Revision History

Note: Template of this document is version controlled. Changes are subject to approval and control procedures.

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| --- | --- | --- |
| Revision Dates | Version Number | Summary of Changes |
| 02/04/2016 | V1.0 | Final |
| 09/05/2016 | V1.1 | Final – Updated PRS211 file sample.  Added nodimensionresults element in summary |
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# Introduction

## Purpose

The purpose of this document is to:

* Define the specific business systems requirements that will be implemented by CASES21 for the import and export of CASES Victorian Curriculum ( & AusVELS A-D) related data for 3rd party reporting software vendors.

## Project Background

### Aegis Incident

Aegis Number: 9508

Aegis Topic: Victorian Curriculum

* The existing XML/XSD specification (PRS211, PRS212, PRS213) for importing and exporting AusVELS data for 3rd party reporting software has been:
  + updated to allow the import and export of Victorian Curriculum (VC) strands and scores, student data and student absences.
  + updated to include AusVELS A-D scores and domains/dimensions.
* The same files (PRS211, PRS212, PRS213) will serve AusVELS data, VC data or a combination of both, as students can be taught strands or dimensions in 2016.
* When referring to AusVELS in this document AusVELS A-D is also implied.

## Document Scope (optional)

### Document Inclusions

The key outputs and deliverables to be produced by this project are:

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| --- | --- |
| ID | Description |
| IN-01 | This document includes the XSD structure for the files generated by CASES21 and for the file that 3rd party vendor reporting software shall produce for CASES21. |
| IN-02 | This document includes import/export specifications for AusVELS A-D and the Victorian Curriculum. |

### Document Exclusions

|  |  |
| --- | --- |
| ID | Description |
| EX-01 | This document shall not list the AusVELS scores, domains, dimensions, nor shall it document the Victorian Curriculum scores and strands.  These can be found in the “Student Reporting Software Vendor Specifications” at:  <http://www.education.vic.gov.au/school/teachers/support/pages/studentreports.aspx> |
| EX-02 | This document shall not list the business rules for AusVELS as these are preexisting and AusVELS will be retired in 2017. |

# Functional Requirements Summary

| ID | Description |
| --- | --- |
| FR-01 | Export student data, absences and prior scores from CASES21 for 3rd party’s |
| FR-02 | Import student scores into CASES21 from 3rd party’s |

# Functional Requirements

## FR-01

### Description

Export student data and prior scores from CASES21 for 3rd parties.

### Business Requirements

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| --- | --- |
| ID | Description |
| BR-02.01 | The vendor student reports software shall import a file that adheres to the CASES21 export specification. |

### Business Rules

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| ID | Description |
| BU-01.01 | For VC, CASES21 shall collect scores for “Strands” only. CASES21 shall not collect scores for “Curriculums”, “Curriculum Areas” and “Sub Strands”. |
| BU-01.02 | CASES21 shall export prior scores:   * For English and Maths the achievement score from one year ago shall be exported. * For subjects other than English and Maths the score from the last semester the subject was taught shall be exported.   + NT (not taught) shall not be exported. Only the last valid score shall be exported. * The Year.Semester shall be exported so as to show the time period the score relates to.   Example:  When CASES data is exported for:   * 2016.1 : {Year.Semester}   + no prior results for subjects other than English and Maths shall be exported for VC.   + prior results from 2015.1 for English and Maths shall be exported for VC. * 2016.2   + prior results from 2016.1 shall be exported for subjects other than English and Maths for VC.   + Prior results from 2015.2 for English and Maths shall be exported for VC. * 2017.1   + from 2017.1 onwards, progression scores for English and Maths shall be one year apart for VC.   from 2017.1 onwards, progression scores for subjects other than English and Maths shall be the score as at the last time that strand was taken by a student for VC. |
| BU-01.03 | A sample Student export file can be found here    A sampe absence export file: |

## FR-02

### Description

CASES21 shall import student scores from 3rd parties student reporting products.

### Business Requirements

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| ID | Description |
| BR-02.01 | The vendor student reporting software shall provide CASES21 a file that adheres to the CASES21 import specification. |

### Business Rules

The following business rules are applicable to this function:

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| ID | Description |
| BU-02.01 | The CASES21 import shall import VC data, AusVELS data or VC and AusVELS data in the same file. |
| BU-02.02 | CASES21 shall validate the imported VC data:   * It shall not be possible to import scores for VC outside the range of -4.0 to 10.5   + Valid scores for VC are: -4.0, -3.0, -2.0, -1.0, 0.0, 0.5, F, F.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, NT, NA |
| BU-02.03 | Import errors and warnings are displayed in a report called KERROR21001after import.  Domain / Dimension refers to AusVELS.  Curriculum Area / Strand refers to VC.  The import into CASES21 shall fail if the following errors are encountered:   * The student registration number is either null or does not match any current student * The school year data is either null or does exist in CASES21 * An individual domain/curriculum or dimension/strand result is for a year.semester that is not the same as the year.semester in the file header * a dimension/strand result uses a dimension/strand ID that does not exist in CASES21 * a domain/curriculum result uses a domain/curriculum ID that does not exist in CASES21 * an English or Mathematics domain result does not have a dimension or the dimension is not from the appropriate domain * only English or Mathematics domain results are allowed to have a dimension specified * a domain/curriculum result has an invalid score value * a campus value is null or does not exist in CASES21 * a dimension/strand result has an invalid score value * an otherwise valid dimension/strand score is not in the range of allowed scores for that dimension/strand * there are multiple domain/curriculum results for this combination of data * there are multiple dimension/strand results for this combination of data * results prior to 2013.1 cannot be imported from V54   The import into CASES21 shall continue if the following warnings are encountered:   * Curriculum area scores are not collected * ID change to {student key} |
| BU-02.04 | The CASES21 import shall not tie the score to the nominal year/grade. A student irrespective of age or grade can be given any score under VC. |
| BU-02.05 | CASES21 shall validate the imported AusVELS A-D data:   * It shall not be possible to import scores for the the AusVELS A-D outside the range of -4.0 to 11.5   + The following dimensions have had their min score adjusted for AusVELS A-D:  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Dimension** | **Domain** | **Description** | **Min Score** | **Max Score** | | **ARTCR** | ART | Creating and making | -4.0 | 11.5 | | **ARTER** | ART | Exploring and responding | -4.0 | 11.5 | | **ENGREA** | ENG | Reading and viewing | -4.0 | 11.5 | | **ENGSPL** | ENG | Speaking and listening | -4.0 | 11.5 | | **ENGWRI** | ENG | Writing | -4.0 | 11.5 | | **HISTKU** | HIST | Historical knowledge and understanding | -4.0 | 11.5 | | **HISTSK** | HIST | Historical skills | -4.0 | 11.5 | | **HPEPA** | HPE | Movement and Physical Activity | -4.0 | 11.5 | | **IPDIP** | IPD | Interpersonal development | -4.0 | F | | **MATMGE** | MAT | Measurement and geometry | -4.0 | 11.5 | | **MATNUM** | MAT | Number and algebra | -4.0 | 11.5 | | **MATSTP** | MAT | Statistics and probability | -4.0 | 11.5 | | **PLEIDV** | PLE | The individual learner | *-4.0* | 11.5 | | **PLEMPL** | PLE | Managing personal learning | -4.0 | 11.5 | | **SCIHED** | SCI | Science as a human endeavour | -4.0 | 11.5 | | **SCIISK** | SCI | Science inquiry skills | -4.0 | 11.5 | | **SCIUND** | SCI | Science understanding | -4.0 | 11.5 | |
| BU-02.06 | The exported files will have the following names:  VC{year e.g. 2013}Sem{semester e.g. 1}Students.xml.  VC{year e.g. 2014}Sem{semester e.g. 2}Absences.xml. |
| BU-02.07 | XSD file PRS212 import file structure  The XSD file has had minimal changes to ensure maximum compatibility with AusVELS.Therefore   * The domain element captures the Curriculum Area for VC or the AusVELS domain. * The dimension element captures the Strand for VC or the AusVELS dimension. * The dimensionresult element captures the Strand score or the dimension score. * The domainresult element captures the domain score only. Curriculum Areas scores are not collected. A warning message will be displayed on the import report if a Curriculum Areas score is detected in the domain result element   <?xml version="1.0" encoding="UTF-8" standalone="yes" ?>  <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">  <xs:element name="CASES21\_message" nillable="false">  <xs:complexType>  <xs:sequence>  <xs:element ref="header" />  <xs:element ref="body" />  </xs:sequence>  <xs:attribute name="name" use="required">  <xs:simpleType>  <xs:restriction base="xs:string">  <xs:enumeration value="PRS212" />  </xs:restriction>  </xs:simpleType>  </xs:attribute>  <xs:attribute name="version" use="required">  <xs:simpleType>  <xs:restriction base="xs:string">  <xs:enumeration value="6" />  </xs:restriction>  </xs:simpleType>  </xs:attribute>  </xs:complexType>  </xs:element>  <xs:element name="generated" nillable="false">  <xs:simpleType>  <xs:restriction base="xs:int">  <xs:enumeration value="1" />  </xs:restriction>  </xs:simpleType>  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