



## *ELL Assessment Integration*

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**Arizona Department of Education**

**ELL Assessment Integration**

**Business Requirements**

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Arizona Department of Education  
Information Technologies Department  
Business Analysis  
Chris Wasserman



# ELL Assessment Integration

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## Approvals:

Version	Date	Name / Stakeholder	Unit	Form of Approval
1.0				Email
				Verbal/phone
				Verbal/meeting signature

## Revision Log

All revisions to this Software Requirements Specification (SRS) will be documented in this log. The initial draft document will be numbered v0.01 and incremented when revisions are made. The document that is approved will be v1.0.

Revision	Date	Description	Name
.01	4/1/08	Initial Draft Document	C. Wasserman
.02	4/17/08	Change in requirements	C. Wasserman
.03	6/2/08	Updated details per meeting w/ Pearson	C. Wasserman
.04	6/24/08	Updated for transaction rule details	C. Wasserman
.05			
.06			
.07			
.08			
.09			
1.0			



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## 1 PURPOSE

To improve accuracy in reporting on ELL evaluations of students, areas have been identified where there is a loss of information that is reported to ADE.

## 2 REQUIREMENTS FOR ELL ASSESSMENT INTEGRATION

### 2.1 Process Changes for AZELLA Vendor

#### 2.1.1 Test result submissions directly to ADE

- Once the assessment is received by the vendor, it must be scored and results submitted to ADE within 20 days, which may be different than the deliverable date for test result availability in Rapid Reports for the LEAs.
- File transfer of assessment results to ADE at a minimum frequency of one (1) time per week. A daily file transfer is preferred.
- 10MB file size restriction
- File to be transferred outside of normal business hours at a time acceptable to ADE minimize server load during peak hours.
- Vendor to include all data elements that are standard in ADE Transaction 12 (refer to *Required Data Elements*)
  - SAIS ID is required
  - Entity ID is required
- Only previously un-reported (new) results to be submitted to ADE in each file transfer batch

#### 2.1.1.1 *Rejected transaction records will be accompanied by a reason code from ADE so that the vendor may change the record accordingly for resubmission*

- Records will be rejected if missing either a SAIS ID or an Entity ID number.

#### 2.1.2 File Transfer Using Web Service

- The same service that the vendor currently uses to transfer from their central scoring database to their "Rapid Reports" web site may be used to output the same data to ADE.
- A job is set up to run on a periodic basis to copy the data of each test result record and send it to the designated web site agreed upon by ADE and the vendor.
- In case a connection cannot be made when the transfer job is run, Vendor must be able to store the data to be transferred in a temporary data store (temp table) until a connection can be re-established.
- Data is sent in XML format to ADE.
- Transaction errors will be sent back to the vendor if there is data missing from required fields. These error messages are to be stored by the vendor in a log file for review.
  - Transactions with errors will need to be corrected and re-submitted.

### 2.2 Process Changes for LEAs

- Schools must provide SAIS ID and Entity ID with assessment to vendor. No exceptions.
- LEA does not need to submit results to ADE, results are submitted to ADE directly from the testing vendor
  - LEA cannot submit results to ADE via transaction 12 from their SMS systems or via SAIS Online
- LEA submits corrections to ADE, no longer duplicating corrections to the vendor
- LEA can view detailed results on the vendor's web site, and a summary of results though ADE



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- Reports that can be viewed from the vendor's current reporting web site will not change
- Reports currently available via SDDI and SAIS Online will continue to be available
- New reports from ADE will be made available for download through SDDI

### 2.3 ADE Process Changes

#### 2.3.1 System Changes

- Create a new ref type for the vendor to be able to accept their file uploads and process the same as the LEA submissions.
  - ADE will create a unique CTD to distinguish vendor-submitted transactions. This CTD will be used by the vendor in the header of every file that is submitted to ADE.
- Vendor cannot refresh data
  - Vendor to be able to see transaction and results
- As of FY 09, LEAs will no longer post to transaction 12 via their SMS systems, they will only be allowed to view reports
- As of FY 09, program enrollment will be verified against the existence of a qualifying AZELLA assessment score between April 1<sup>st</sup> and the end of the fiscal year, not all year.
- Use SAIS ID in the vendor's file to match records to student data.
- Check vendor file for duplicate records to what has already been stored at ADE.
- LEAs will submit corrections to ADE.
  - LEAs to be able to look up records by SAIS ID or their Entity ID.
  - No changes can be made to scores, levels, or results.
  - Requests can be made to correct a mis-entered SAIS ID.

##### 2.3.1.1 Web Service

- Make an FTP site available to vendor for transferring of the data file.
- Create a web service to retrieve the file after it has been uploaded to the FTP site.
- If a transaction is missing required data, reject the affected records and return an error to the vendor.
- Use standard matching rules to match inbound record to a student record.
- Create an exception table for records that do not have valid SAIS IDs to match to students.
  - Send an alert email to a designated responsible party to review and manually match records to a valid student

##### 2.3.1.2 Affected SAIS Rules

- ###### 2.3.1.2.1 SAIS rule SD-INT-LNG-003.1 states: "If a language program has been submitted for a student who does not have an Assessment within the current or past fiscal year of the language program start date, fail the language program participation." ERROR message -44401, Integrity Failure: Language Group B
- For FY 09, this rule should only be applied from April 1<sup>st</sup> through the end of the fiscal year.
  - A check of ELL program enrollment is to be done in April 1<sup>st</sup> to verify that students enrolled in a program have an assessment on record that satisfies the above rule.



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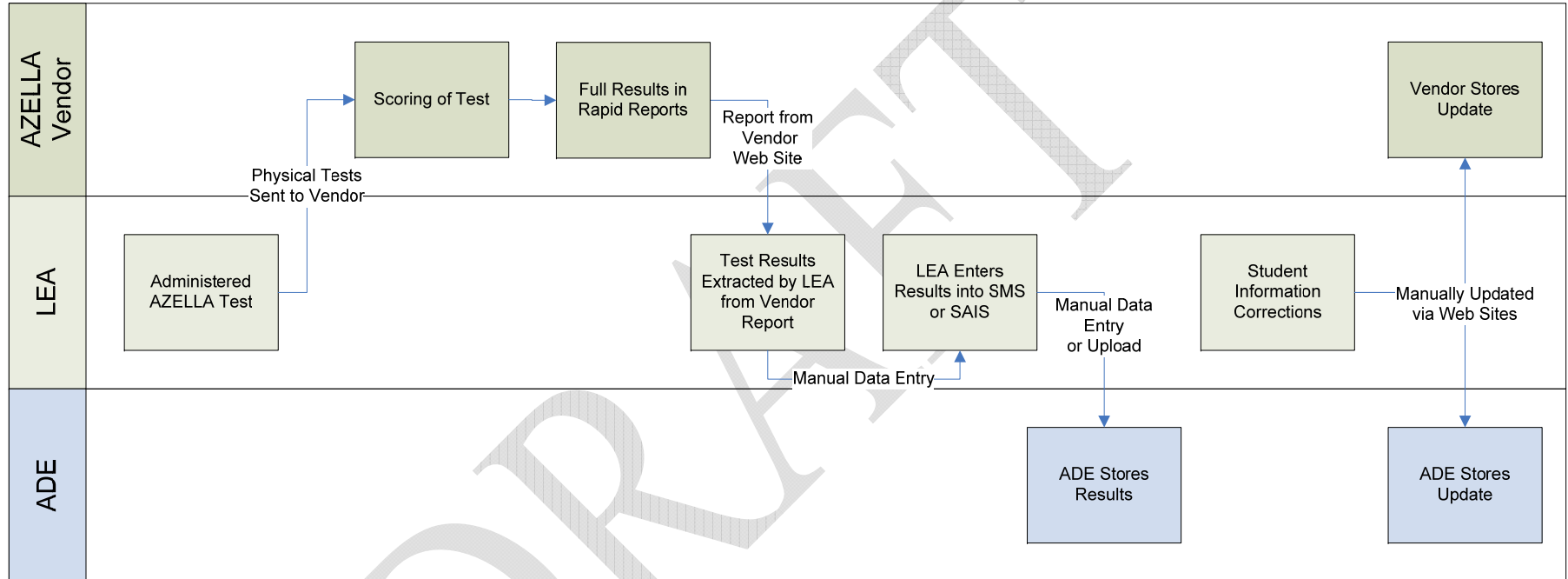
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## 2.4 Process Flow

### 2.4.1 Current Flow





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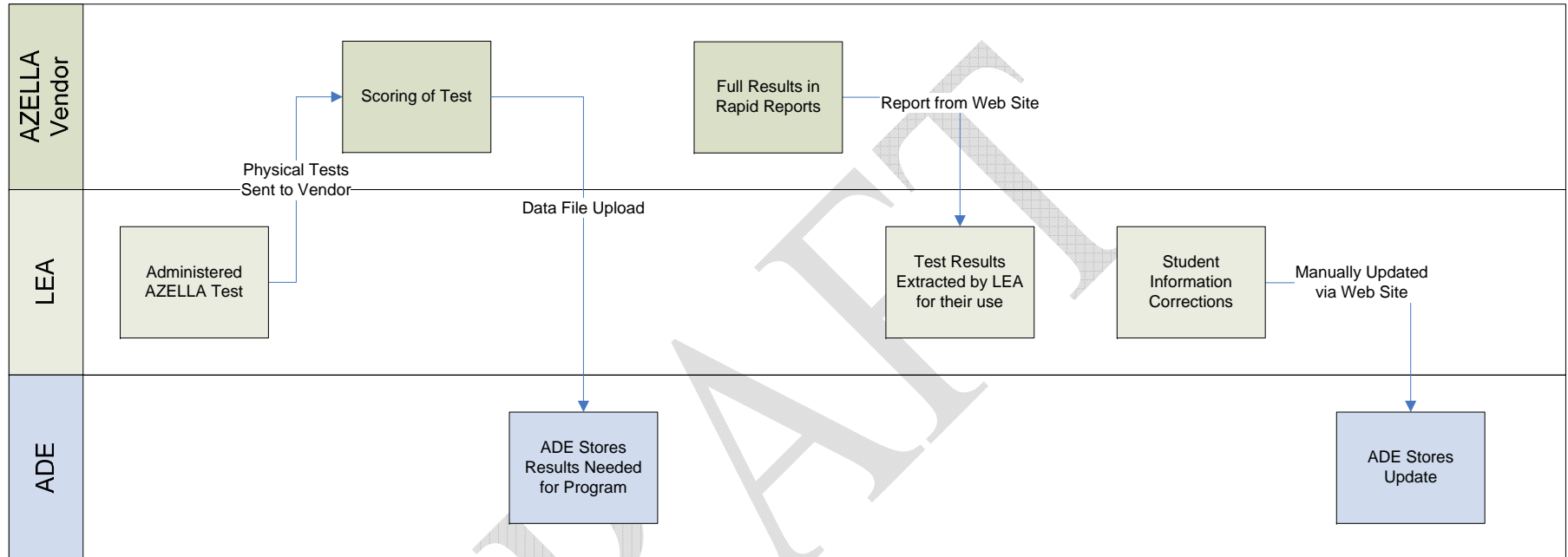
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## 2.4.2 Proposed Interim Flow





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## 2.5 Required Data Elements

### 2.5.1 Transaction 12 Fields

Transaction ID value and transaction name	field name
012 Student Assessment	Transaction ID
	Vendor Defined Field
	Operation Code
	Entity ID
	School Student ID
	Student ID
	First Name on Legal Document
	Middle Name on Legal Document
	Last Name on Legal Document
	Oral – Assessment Date
	Oral - Assessment Score
	Oral - Proficiency Level
	Reading - Assessment Date
	Reading - Assessment Score
	Reading - Proficiency Level
	Writing - Assessment Date
	Writing - Assessment Score
	Writing - Proficiency Level
	Overall Assessment Result
	Overall Total Composite Scaled Score

#### 2.5.1.1 Assessment Proficiency Level (Language)

Transaction **Student Assessment**; Element name

*These values are determined from the Harcourt Rapid Report.*

Code in transaction	Description
PE	Pre-Emergent
E	Emergent
B	Basic
I	Intermediate
P	Proficient

#### 2.5.1.2 Overall Assessment Result (Language)

Transaction **Student Assessment**; Element name **Assessment Result Code**

Transaction **Language Program Participation**; Element name **Assessment Result Code**

*The Assessment Results are identified by ADE's Academic Services Department.*





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Code in transaction	Short Description	Long Description
1	New English Language Learner (New ELL)	The overall result of this assessment qualifies the student to be eligible to participate in an ELL program for the first time in Arizona. <i>Note:</i> A student should only be classified as a New ELL in Arizona one time.
2	Continuing English Language Learner (Continuing ELL)	The overall result of this assessment qualifies the student to continue to be eligible to participate in an ELL program. This is not the first assessment that shows the student to be eligible to participate in an ELL program and the student has never been Reclassified FEP by an assessment in Arizona.
3	Reclassified Fluent English Proficient (Reclassified FEP)	The overall result of this assessment shows the ELL student to be proficient. This student previously participated in an ELL program.
4	Initial Fluent English Proficient (Initial FEP)	The overall result of this assessment shows the student to be proficient. This student has never participated in an ELL program in Arizona.
5	ELL After Reclassification (ELLAR)	The overall result of this assessment qualifies the student to be eligible to participate in an ELL program again. This student was previously Reclassified FEP in Arizona.
6	Continuing Fluent English Proficient (Continuing FEP)	This student was previously Reclassified FEP by assessment and is being monitored. <i>Note:</i> Students must be monitored for two years after being Reclassified FEP.
7	English Language Learner (ELL)	The overall result of this assessment qualifies the student to be eligible to participate in an ELL program.

**Notes:**

1. Assessment transactions with an Overall Assessment Result code of 6 (Continuing FEP) are permissible with an "add", "change", or "delete" operation code.

### 2.5.1.3 Assessment Scaled Score (Language)

Transaction **Student Assessment**; Element names **Oral - Assessment Score, Reading - Assessment Score, Writing - Assessment Score, Overall Total Composite Scaled Score**

Code in transaction	Short Description	Long Description
100 - 997	Assessment Scaled Score	Allowable range for submitted Assessment scores (also see 998 and 999)
998	Assessment Score – did not attempt	indicates the student did not attempt to complete assessment sub-test
999	Assessment Scaled Score – Continuing FEP	indicates a student in Continuing FEP status. Submitting this information to SAIS is optional. SAIS will track Continuing FEP students internally

## 2.6 Submission File Format Definition

### 2.6.1 General Definitions

The file that contains detail transactions shall be referred to as **Student Data File**.



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Files are submitted via one of two methods. The first method is via the web page. The web page knows the submitting LEA's Entity ID and places any submitted files into a specific directory that is named for that Entity ID. The second method is similar, but occurs through a utility to be used inside a local LEA SAIS interface.

### 2.6.2 File Naming Requirements

File naming requirements includes several terms: **filename string** is the complete name of the submitted file. It includes two portions: the **filename** and the **extension**. The last period (.) in the **filename string** separates these two portions.

The **filename string**:

- may only contain the following Permitted Characters: ASCII Characters code 33,35-37, 40-41, 43, 45, 46, 48-57, 65-90, 97-122, 123,125-126.

The **filename** is the portion to the left side of the final period (.) in the **filename string**.

- It must be less than or equal to 126 characters in length.
- It includes everything to the left side of the final "period" in the string, including any periods and what follows them.
- It must be guaranteed by the LEA to be unique.
- Some suggestions for achieving this uniqueness:
  - include Date/Time in the filename;
  - Include system-generated sequence numbers in the filename.
- A suggestion to improve file maintenance:
  - Include CTDS somewhere in the filename. For districts, CTDS is CTD + 000 for school.

The **extension** is the portion to the right of the last period in the **filename string**.

- It has a set value. It must be the three characters **SDF**.
- It is case insensitive. Uppercase and lowercase characters, or a combination of both, are permissible. In other words, while "SDF", "sdf", and "sDf" are some of the many acceptable versions of **extension**, each will be evaluated the same by SAIS.

#### Examples of allowable filename strings

- *Containing CTDS, date, time, and extension:*

010520\_1999-08-12\_131535.SDF

- *Containing extension, guaranteed to be unique relative to all other submission, past and future:*

Hi there - this is a file.sdf

- *Typical DOS output in 8.3 format, uses system sequence numbers:*

00001232.SDF

1232.sdf

### 2.6.3 Internal File Structure Definition: Delimiters & Data Types

The letters enclosed in parentheses in the *data type* column are used in transaction descriptions throughout this document.



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<i>token</i>	<i>data type</i>	<i>format</i>	<i>delimiter</i>	<i>description</i>
transaction / record	n/a	n/a	ASCII(0d13) ASCII(0d10)	carriage-return followed by a line-feed (on same line)
field	n/a	n/a	,	a single comma at the end of a field
(field)	code (C)	A or N	{ }	alphanumeric or integer value, depending upon the individual code; enclosed within curly braces
(field)	date (D)	CCYY/MM/DD	##	century, year, month, day – separated by forward slashes; enclosed with pound symbols
(field)	integer (I)	-N	none required	This number may NOT contain a decimal point. A minus preceding the number signifies a negative value.
(field)	logical / Boolean (L)	0 OR 1	none required	must be zero (no, false, off) or one (yes, true, on)
(field)	real (R)	-N.N	none required	This number MUST contain a decimal point. Pad with at least a single zero to the right of the decimal point. A minus preceding the number signifies a negative value.
(field)	string / character (S)	A	""	string containing alphanumeric and special characters; enclosed within double quotation marks
(field)	time (T)	HH:MM:SS:FS	##	hour, minute, second, fraction of a second – separated by colons; enclosed with pound symbols. NOTE: fraction of a second (:FS) is optional.

## 2.6.4 File Header Requirement

Should conform to the delimiter requirements above and contain the following elements *in the following order*.

<i>order</i>	<i>data type</i>	<i>content</i>	<i>optionality</i>
1	string	the letter <b>H</b> , by itself	required
2	string	hard-coded file identifier string: <b>Student Detail</b>	required
3	string	the LEA identifier	required
4	integer	LEA file sequence number <ul style="list-style-type: none"> <li>between 1 and 2,147,483,647 <i>file sequence number MUST begin with 1</i></li> <li>this will allow a single daily submission to be generated for 11,767,033 years.</li> </ul>	required
5	date	date 1	optional
6	time	time 1	optional
7	date	date 2	optional
8	time	time 2	optional
9	date	date 3	optional
10	time	time 3	optional



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order	data type	content	optionality
11	integer	fiscal year	required
12	string	reporting unit	optional
13	code	student management system (see the Code Values document for the code value associated with each individual SMS product)	required

## 2.6.4.1 Sample file header

The following header information would appear on a single line at the top of the submitted file.

"H", "Student Detail", "010203000", 006, #1999/08/01#, #00:00:01#, #1999/08/31#, #23:59:59#, #1999/09/10#, #06:15:00#,2000,"unit 1",{1}

This would describe a file that was generated for the district whose CTD is 010203 (the district-level "school" identifier is 000). The sequence number is 006, and the zeros are not necessary, but are accepted. It shows that the data relates to fiscal year 2000.

The date/time fields are provided for the submitter's benefit; the submitter may utilize these fields any way they see fit. For example, if this submitter defines "date/time 1" and "date/time 2" as the period begin and end when changes contained in this file were accepted into their system and "date/time 3" as when the file was generated, then this file header information indicates that the file includes data changes that occurred anytime during the month of August 1999 (from midnight August first through one second before midnight on August 31); the file was generated on September 10<sup>th</sup> at 6:15 am. **No reasonability checks will be done on the "date" or "time" fields in the file header.**

The file would also indicate that the reporting unit "unit 1" inside the LEA is submitting its sequence number 006. This field provides additional functionality for those LEA's that have multiple areas or departments submitting files, and each area requires control over the sequence number. For instance, this field is used by many LEA's to differentiate membership, special education and language reporting units. If a submitter uses reporting units "ADM" and "SPED", ADM will have sequence numbers 1, 2, 3... and SPED its own sequence numbers 1, 2, 3... Otherwise, this field may be omitted.

## 2.6.5 File Footer Requirement

Should conform to the delimiter requirements above and contain the following elements *in the following order*.

order	data type	content	optionality
1	string	the letter <b>F</b> , by itself	required
2	integer	the number of transaction records in the file: includes the header and the footer	required

### 2.6.5.1 Sample file footer

The following footer information would appear on a single line at the bottom of the submitted file.

"F", 037

This would describe a file that contains 37 records: one header, one footer, and 35 transaction records.



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## 2.6.6 Case sensitivity

SAIS will change all submitted codes (elements with data type = "C") to uppercase upon processing the submission file. The complete list of elements which are submitted as codes can be found in the document **Student Database Transaction Requirements: Code Values.**

## 2.6.7 File Limits

SAIS will reject files exceeding the file limit: Maximum file size limit: 10 MB

### 2.6.7.1 Transaction Elements

The following structure describes the elements in this transaction.

field name	abbreviated name	length	data type	description	Comment
Transaction ID	TRANSID	3	I	ID value = 012	
Vendor Defined Field	VENDORFLD	50	S	Free field to be used for any purpose defined by the vendor or submitter (e.g., to hold a vendor-generated submission record identifier); this information will not be stored in SAIS	
Operation Code	OPRCD	1	S	A = Add new Assessments C = Change Assessment elements D = Delete Assessments	
Entity ID	ENTITYID	9	S	School identifier; CTDS code	
School Student ID	SCHLSTUID	12	S	School-generated student identifier	
Student ID	STUDENTID	10	I	ADE-generated student identifier	
First Name on Legal Document	FIRSTNM	30	S	Student first name as it appears on the legal document provided for registration	
Middle Name on Legal Document	MIDDLENM	30	S	Student middle name as it appears on the legal document provided for registration	
Last Name on Legal Document	LASTNM	40	S	Student last name as it appears on the legal document provided for registration	
<i>empty field: formerly Assessment Code: element no longer collected.</i>		3	C	<i>This element is no longer collected. Properly formatted values (length and data type) in these fields will be ignored. For SDF files, no characters in the field are preferred. For XML files, no submittal of the element is preferred.</i>	Revised in FY06
<i>empty field: formerly Assessment Result Code: element no longer collected</i>		1	C	<i>This element is no longer collected. Properly formatted values (length and data type) in these fields will be ignored. For SDF files, no characters in the field are preferred. For XML files, no submittal of the element is preferred.</i>	Revised in FY06
Oral – Assessment Date	ASSMNTDT	10	D	The date the oral assessment sub-test was finalized.	Revised in FY06
Oral - Assessment Score	ASSMNTSCORE	3	I	The oral AZELLA sub-test scaled score.	Revised in FY06



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field name	abbreviated name	length	data type	description	Comment
Oral - Proficiency Level		2	C	The proficiency level achieved during the AZELLA oral sub-test.	Added in FY06
Reading - Assessment Date		10	D	The date the reading AZELLA sub-test was finalized.	Added in FY06
Reading - Assessment Score		3	I	The reading AZELLA sub-test scaled score.	Added in FY06
Reading - Proficiency Level		2	C	The proficiency level achieved during the AZELLA reading sub-test.	Added in FY06
Writing - Assessment Date		10	D	The date the writing AZELLA sub-test was finalized.	Added in FY06
Writing - Assessment Score		3	I	The writing AZELLA sub-test scaled score.	Added in FY06
Writing - Proficiency Level		2	C	The proficiency level achieved during the AZELLA writing sub-test.	Added in FY06
Overall Assessment Result	ASSMNRSC D	2	C	The assessment result <i>See Transaction Requirements: Code Values – Assessment Results</i>	
Overall Total Composite Scaled Score		3	I	The total composite scaled score achieved by the student after all sub-test results have been scored.	Added in FY06
Overall Proficiency Level		2	C	The overall proficiency level achieved.	Added in FY06

## Information Notes:

1. A score of 999 indicates a student in Continuing FEP status. Submitting this information to SAIS is optional. SAIS will track Continuing FEP students internally.
2. A score of 998 indicates the student did not attempt to complete assessment sub-test.

### 2.6.7.2 Changing Elements

The following elements may be changed using this transaction with a "change" operation.

- Oral - Assessment Score
- Reading – Assessment Score
- Writing – Assessment Score
- Oral – Proficiency Level
- Reading – Proficiency Level
- Writing – Proficiency Level
- Overall Assessment Result
- Overall Total Composite Scaled Score
- Overall Proficiency Level

### 2.6.7.3 Element Optionality

This table defines whether each element is optional or required depending upon Operation Code.

R: the element is required

X: any value in the incoming element will be ignored

{blank}: the element is optional; a valid value will be captured in SAIS



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## 2.6.7.4 Table 3 Assessment Transaction Element Optionality – FY06

<i>element</i>	<i>add</i>	<i>change</i>	<i>delete</i>
Transaction ID	R	R	R
Vendor Defined Field	X	X	X
Operation Code	R	R	R
Entity ID	R	R	R
School Student ID	X	X	X
Student ID	R	R	R
First Name on legal document	X	X	X
Middle Name on legal document	X	X	X
Last Name on legal document	X	X	X
Oral - Assessment Date	R	1,3	R
Oral - Assessment Score	R	1,2	R
Oral - Proficiency Level	R	1,2	R
Reading - Assessment Date	R	1,3	R
Reading - Assessment Score	R	1,2	R
Reading - Proficiency Level	R	1,2	R
Writing - Assessment Date	R	1,3	R
Writing - Assessment Score	R	1,2	R
Writing - Proficiency Level	R	1,2	R
Overall Assessment Result	R	2	R
Overall Total Composite Scaled Score	R	2	R
Overall Proficiency Level	R	2	R

<sup>1</sup> At least one sub-test's (Oral, Reading, or Writing) current Assessment Date, Assessment Score, and Proficiency Level must be submitted for a valid "change" operation.

<sup>2</sup> At least one of these elements must be different from SAIS for a valid "change" operation.

<sup>3</sup> To change an assessment date, you must submit a "delete" transaction with the incorrect/current assessment date and subsequently submit an "add" transaction with the correct/new assessment date.

## 2.7 Transaction Schema

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
- <!-- edited with XML Spy v4.4 U (http://www.xmlspy.com) by Network Services (Arizona Department of Education)
```

```
-->
```

```
- <!--
```

```
-->
```

```
- <xsd:schema targetNamespace="http://www.ade.az.gov/schemas/ns/sdetail/2001/1.0"
```

```
xmlns:sd="http://www.ade.az.gov/schemas/ns/sdetail/2001/1.0"
```

```
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```
- <xsd:element name="StudentDetail" type="sd:StudentDetailType">
```

```
- <xsd:annotation>
```

```
<xsd:documentation>Schema for student detail transactions, fiscal year 2001. Version: sdetail/2001/1.0
```

```
Date Released: 07/03/02</xsd:documentation>
```



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```
</xsd:annotation>
</xsd:element>
- <xsd:complexType name="SystemInformationType">
- <xsd:sequence>
  <xsd:element name="SystemGroup" type="sd:SystemGroupType" />
  <xsd:element name="System" type="sd:SystemType" />
  <xsd:element name="CTDS" type="sd:RequiredCTDSType" />
- <xsd:element name="SequenceNumber">
- <xsd:simpleType>
- <xsd:restriction base="xsd:unsignedInt">
  <xsd:maxInclusive value="2147483647" />
</xsd:restriction>
</xsd:simpleType>
</xsd:element>
- <xsd:complexType name="AssessmentType">
- <xsd:sequence>
- <xsd:element name="TransactionID">
- <xsd:simpleType>
- <xsd:restriction base="xsd:positiveInteger">
  <xsd:enumeration value="12" />
</xsd:restriction>
</xsd:simpleType>
</xsd:element>
<xsd:element name="VendorRecordID" type="sd:VendorRecordType" minOccurs="0" />
<xsd:element name="OperationCode" type="sd:OperationCodeType" />
<xsd:element name="CTDS" type="sd:RequiredCTDSType" />
<xsd:element name="SchoolStudentID" type="sd:SchoolStudentIDType" minOccurs="0" />
<xsd:element name="StudentID" type="sd:StudentIDType" />
<xsd:element name="FirstName" type="sd:FirstNameType" minOccurs="0" />
<xsd:element name="MiddleName" type="sd:MiddleNameType" minOccurs="0" />
<xsd:element name="LastName" type="sd:LastNameType" minOccurs="0" />
<xsd:element name="AssessmentCode" type="sd:AssessmentCodeType" minOccurs="0" />
<xsd:element name="AssessmentResultCode" type="sd:AssessmentResultCodeType" minOccurs="0" />
/>
<xsd:element name="AssessmentDate" type="sd:DateType" minOccurs="0" />
<xsd:element name="AssessmentScore" type="sd:AssessmentScoreType" minOccurs="0" />
<xsd:element name="OralProficiencyLevel" type="sd:AssessmentProficiencyLevelType" minOccurs="0" />
/>
<xsd:element name="ReadingAssessmentDate" type="sd:DateType" minOccurs="0" />
<xsd:element name="ReadingAssessmentScore" type="sd:AssessmentScoreType" minOccurs="0" />
<xsd:element name="ReadingProficiencyLevel" type="sd:AssessmentProficiencyLevelType"
minOccurs="0" />
<xsd:element name="WritingAssessmentDate" type="sd:DateType" minOccurs="0" />
<xsd:element name="WritingAssessmentScore" type="sd:AssessmentScoreType" minOccurs="0" />
<xsd:element name="WritingProficiencyLevel" type="sd:AssessmentProficiencyLevelType"
minOccurs="0" />
<xsd:element name="OverallAssessmentResult" type="sd:AssessmentCodeType" minOccurs="0" />
<xsd:element name="OverallTotalCompositeScaledScore" type="sd:AssessmentScoreType"
minOccurs="0" />
<xsd:element name="OverallProficiencyLevel" type="sd:AssessmentProficiencyLevelType"
minOccurs="0" />
</xsd:sequence>
```





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```
</xsd:complexType>
- <xsd:simpleType name="RequiredCTDSType">
- <xsd:restriction base="xsd:string">
  <xsd:maxLength value="9" />
  <xsd:minLength value="1" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="CTDSType">
- <xsd:restriction base="xsd:string">
  <xsd:maxLength value="9" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="FiscalYearType">
- <xsd:restriction base="xsd:gYear">
  <xsd:minInclusive value="2000" />
  <xsd:maxInclusive value="2999" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="SMSVendorCodeType">
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="1" />
  <xsd:enumeration value="2" />
  <xsd:enumeration value="3" />
  <xsd:enumeration value="4" />
  <xsd:enumeration value="5" />
  <xsd:enumeration value="6" />
  <xsd:enumeration value="7" />
  <xsd:enumeration value="8" />
  <xsd:enumeration value="9" />
  <xsd:enumeration value="10" />
  <xsd:enumeration value="11" />
  <xsd:enumeration value="12" />
  <xsd:enumeration value="13" />
  <xsd:enumeration value="14" />
  <xsd:enumeration value="15" />
  <xsd:enumeration value="16" />
  <xsd:enumeration value="17" />
  <xsd:enumeration value="18" />
  <xsd:enumeration value="19" />
  <xsd:enumeration value="20" />
  <xsd:enumeration value="21" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="TransactionIDType">
- <xsd:restriction base="xsd:integer">
  <xsd:enumeration value="1" />
  <xsd:enumeration value="2" />
  <xsd:enumeration value="3" />
  <xsd:enumeration value="4" />
  <xsd:enumeration value="5" />
  <xsd:enumeration value="6" />
  <xsd:enumeration value="7" />
```



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```

<xsd:enumeration value="8" />
<xsd:enumeration value="9" />
<xsd:enumeration value="10" />
<xsd:enumeration value="11" />
<xsd:enumeration value="12" />
<xsd:enumeration value="13" />
<xsd:enumeration value="14" />
<xsd:enumeration value="15" />
<xsd:enumeration value="16" />
<xsd:enumeration value="17" />
<xsd:enumeration value="18" />
<xsd:enumeration value="20" />
<xsd:enumeration value="21" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="StudentIDType">
- <xsd:restriction base="xsd:unsignedLong">
  <xsd:maxInclusive value="2147483647" />
  <xsd:pattern value="0|\d{2,10}" />
</xsd:restriction>
- <xsd:simpleType name="VendorRecordType">
- <xsd:restriction base="xsd:string">
  <xsd:maxLength value="50" />
  <xsd:pattern value="[A-Za-z0-9\s!#\$\%&#x26;\(\)\*\+\,-\.\:|=|x3C>|\@|\[|\]|^_`{|/|}~--
  ÀÁÂÃÄÅÆÇÈÉÊËÌÍÎÏÑÒÓÔÕÖÙÚÛÜÝàáâãäåçèéêëìíîïñóôõöùúüýÆæß]"* />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="SchoolStudentIDType">
- <xsd:restriction base="xsd:string">
  <xsd:maxLength value="12" />
  <xsd:pattern value="[A-Za-z0-9\s!#\$\%&#x26;\(\)\*\+\,-\.\:|=|x3C>|\@|\[|\]|^_`{|/|}~--
  ÀÁÂÃÄÅÆÇÈÉÊËÌÍÎÏÑÒÓÔÕÖÙÚÛÜÝàáâãäåçèéêëìíîïñóôõöùúüýÆæß]"* />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="RequiredSchoolStudentIDType">
- <xsd:restriction base="xsd:string">
  <xsd:maxLength value="12" />
  <xsd:minLength value="1" />
  <xsd:pattern value="[A-Za-z0-9\s!#\$\%&#x26;\(\)\*\+\,-\.\:|=|x3C>|\@|\[|\]|^_`{|/|}~--
  ÀÁÂÃÄÅÆÇÈÉÊËÌÍÎÏÑÒÓÔÕÖÙÚÛÜÝàáâãäåçèéêëìíîïñóôõöùúüýÆæß]"* />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="FirstNameType">
- <xsd:restriction base="xsd:string">
  <xsd:maxLength value="30" />
  <xsd:pattern value="[A-Za-z0-9\s!#\$\%&#x26;\(\)\*\+\,-\.\:|=|x3C>|\@|\[|\]|^_`{|/|}~--
  ÀÁÂÃÄÅÆÇÈÉÊËÌÍÎÏÑÒÓÔÕÖÙÚÛÜÝàáâãäåçèéêëìíîïñóôõöùúüýÆæß]"* />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="RequiredFirstNameType">
- <xsd:restriction base="xsd:string">
  <xsd:maxLength value="30" />

```



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```

<xsd:minLength value="1" />
<xsd:pattern value="[A-Za-z0-9\s!#\$\%&'\(\)\*\+\,-\.\:;=<\/pre>

```



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```
<xsd:maxInclusive value="9999-12-31" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="SystemType">
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="StudentDetail" />
  <xsd:enumeration value="COEStar" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="SystemGroupType">
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="StudentDetail" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="SchemaVersionType">
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="sdetail/2001/1.0" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="GradeLevelCodeType">
- <xsd:restriction base="xsd:string">
  <xsd:pattern value="[i][Ee][Pp][Uu][EeSs][Pp][Ss][Kk][Gg][1-9][1][0-2]" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="NeedCodeType">
- <xsd:restriction base="xsd:string">
  <xsd:pattern
value="[Aa][Ee][Dd][Ee][Dd][Pp][Hh][Ii][Mm][Dd][Mm][Dd][Ss][Ss][Ii][Mm][Ii][Oo][Mm][Rr][Oo][Hh][Ii][Oo]
[Ii][Pp][Ss][Mm][Dd][Pp][Ss][Ll][Ss][Ll][Dd][Ii][Ss][Mm][Rr][Tt][Bb][Ii][Vv][Ii][Ll][Ee][Pp][Ss][Nn][Oo][Nn][D
d][1-9][1][0-9][2][0]" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="NeedLevelCodeType">
- <xsd:restriction base="xsd:string">
  <xsd:pattern value="[Pp][Rr][Ss][Cc]" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="AssessmentCodeType">
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="1" />
  <xsd:enumeration value="2" />
  <xsd:enumeration value="3" />
  <xsd:enumeration value="4" />
  <xsd:enumeration value="5" />
  <xsd:enumeration value="6" />
  <xsd:enumeration value="7" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="AssessmentResultCodeType">
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="1" />
  <xsd:enumeration value="2" />
```



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```
<xsd:enumeration value="3" />
<xsd:enumeration value="4" />
<xsd:enumeration value="5" />
<xsd:enumeration value="6" />
</xsd:restriction>
</xsd:simpleType>
- <xsd:simpleType name="AssessmentProficiencyLevelType">
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="PE" />
  <xsd:enumeration value="E" />
  <xsd:enumeration value="B" />
  <xsd:enumeration value="I" />
  <xsd:enumeration value="P" />
</xsd:restriction>
</xsd:schema>
```

DRAFT