

ES3 UI Provides SEA Exceptional Control

Previous newsletters have talked about the ES3 Web Management Application. The application has been useful to *EDFacts* coordinators for the operation and configuration of ES3. The application has been used to trigger the SSIS packages that stage ES3 data and create the *EDFacts* Submission Files.



Screens available within the application allow *EDFacts* coordinators to fully manage the system. They can set data storage directory locations, set state configuration values, edit state characteristics (think EMAP settings), and set how state codes are to be translated to *EDFacts* values. The system allows users to trigger the ES3 SSIS package execution and to watch the results in real time.

Now that several states have been through the entire *EDFacts* submission cycle, and ES3 has all of the Submission File packages built, ESP has turned our attention to expanding the core features of the ES3 Web Management Application. Several new features and enhancements have been added including:

- Screens for tracking due dates and submission file creation history;
- Mechanisms for exporting staged data to Excel for review, audit, and archiving; and
- Initial implementation of USED business rules validation and reporting.

The ES3 Web Management Application provides an easy to use mechanism for managing *EDFacts*.

Submission File Creation Status

ES3 logs when our SSIS packages have been executed; so, the user knows when Submission Files have been created. It was fairly simple to connect that to the *EDFacts* calendar for a state to have a report that shows submission file creation status.

ES3 UI Continued

EDFacts Submission File Creation Status

Select a Reporting Period: Files Due in the Next days

Reporting Period	Number	Name	Due Date	SEA Status	SEA File Created	LEA Status	LEA File Created	SCH Status	SCH File Created
2013-2014	S030	Discipline Incidents	28 Feb 2015	●	22 Feb 2015	●	22 Feb 2015	●	22 Feb 2015
2014-2015	S033	Free and Reduced Price Lunch	31 Mar 2015	○		○		●	
2014-2015	S052	Membership	31 Mar 2015	●		●		●	
2014-2015	S129	CCD School	31 Mar 2015	○		○		●	
2014-2015	S176	State Interventions - Flexibility	31 Mar 2015	○		○		●	18 Feb 2015
2014-2015	S002	Children with Disabilities (IDEA) School-Age	01 Apr 2015	●		●		●	
2014-2015	S089	Children with Disabilities (IDEA) Early Childhood	01 Apr 2015	●		●		○	
2014-2015	S046	LEP Students in LEP Program	30 Apr 2015	●		●		○	

This table shows EDFacts submission files by reporting period and whether a submission file has been created. Use the pick lists at the top to filter the list by reporting period and/or files coming up in the next 30, 60, 90, 180, or 365 days. If a file has been created, the date the file was last generated is shown. The status for the files are indicated as follows:

- Green - A file has been created with at least 1 record. This does not mean the file has been submitted to the ESS.
- Red - A file has not been created by ES3 and the due date has past.
- Orange - A file has not been created by ES3 and the due date is in the next 14 days.
- Yellow - A file has not been created by ES3 but the due date is more than 14 days in the future.
- White - This submission file is not reported at this level.
- Blue - This file is not being reported through ES3, so no file is expected. Example exclusions include those files waived for a the state under an NCLB Waiver, or the SEA directory file.

The time frame shown on the screen can be filtered to those due in the next 30, 60, 90, 180 days or left unfiltered. Likewise, it can be filtered for files from a specific reporting period. Colored dots and dates indicate the status of the creation of a specific file and submission level by ES3. This UI doesn't show which files have been submitted to nor accepted by ESS, but is a great tool for tracking file development status.

Export of Staged Data to Excel

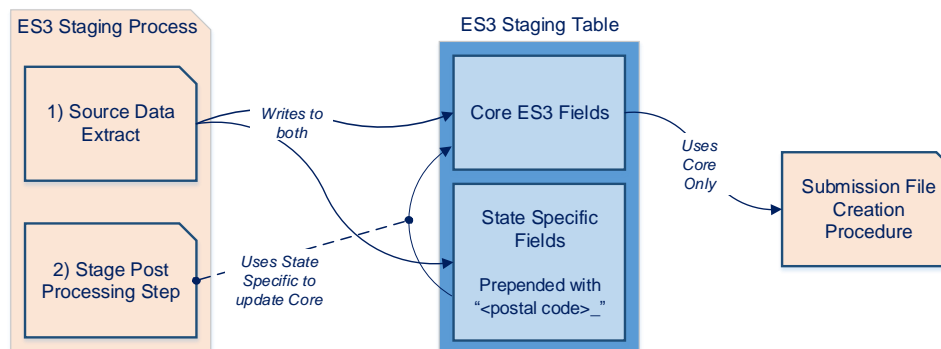
The ES3 process is a two-stage process: data are first staged into a set of ES3 staging tables, and then, secondly, are put into the EDFacts format.

State data selection rules and business rules for EDFacts are applied during the staging process. Most of the SSIS staging procedures are designed with a data selection step and then a post-processing step.

The staging tables consist of a core set of fields that are common across all the ES3 states. The Submission Package procedures only refer to those core staging table fields – that way the Submission Package procedures can be shared by all ES3 states.

It is often the case that SEAs will add state-specific fields to a staging table. These fields are used during the post-processing step and may be used to assist in setting values of the "core" staging table fields.

ES3 UI Continued



For example, a state may have different “types” of student. The student type is used to determine where the student gets counted for membership. ES3 will stage the student type in a state-specific field at the end of the staging table, and then use that information during the post-processing to set the accountable LEA or accountable School field values. Post-processing may also use this information to determine whether the student gets counted at all: the staging table includes `includeInSEA`, `includeInLEA`, and `includeInSCH` field values. The post-processing procedure will often make notes about why a particular record was treated the way it was. These notes are extremely valuable to program managers for audit and review purposes.

Program staff need to know how ES3 handled the records in their program. This “Export Staged Data” capability allows staff to export the records from the ES3 staging tables so they can review which records got loaded and how they will be treated during the Submission File creation process.

The exported data can be archived along with the *EDFacts* submission files that were run from them. Excel provides a much easier and flexible tool set for program staff to use.

USED Validation Rules

EDFacts coordinators are all well-aware that USED has their own set of business rules that they apply to submitted files each night – generating error reports for the following day. This overnight turn-around can be frustrating at crunch –times. ES3 has begun the implementation of the USED business rules reporting within the ES3 Web Management Application. That allows a user to get a preview of the errors they would get from USED and resolve those issues much earlier.

Not all of the USED business rules have been implemented yet, but ESP is focusing a good portion of their development effort in this area. The USED Validation Rules system has been designed so that new rule procedures can be rolled out without the need for changes to the deployed web applications. ESP only needs to deploy new Stored Procedures, a fairly quick and painless process.

ES3 UI Continued

USED Validation Reporting

Select Submission File Validation to Run: Select School Year:

When the [Execute Validation] button is selected, then the system calls the stored procedure that runs the rules for that file. The results from the individual rules are stored in a table. At the end of processing, a report like the following is shown.

USED Validation Results

Submission File: **S052** Reporting Period: **2012-2013** Validation Date Time: **3/4/2015 3:22 PM**

Severity	Rule	Description	Category Set	SEA	LEA Identifier	School Identifier	Additional Information
Error	S052-R21	State count for [PK] and [AM7] is less than sum for same category submitted at school level.	1	SEA			Grade: PK RE: AM7 SEA Count: 480 Sum School Counts: 481
Error	S052-R21	State count for [08] and [AS7] is less than sum for same category submitted at school level.	1	SEA			Grade: 08 RE: AS7 SEA Count: 162 Sum School Counts: 163
Error	S052-R21	State count for [09] and [BL7] is less than sum for same category submitted at school level.	1	SEA			Grade: 09 RE: BL7 SEA Count: 285 Sum School Counts: 286
Error	S052-R21	State count for [PK] and [HI7] is less than sum for same category submitted at school level.	1	SEA			Grade: PK RE: HI7 SEA Count: 244 Sum School Counts: 246
Error	S052-R21	State count for [10] and [MU7] is less than sum for same category submitted at school level.	1	SEA			Grade: 10 RE: MU7 SEA Count: 132 Sum School Counts: 133
Error	S052-R21	State count for [PK] and [WH7] is less than sum for same category submitted at school level.	1	SEA			Grade: PK RE: WH7 SEA Count: 2,476 Sum School Counts: 2,482
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T				
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T				
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T		40201		LEA Membership: 0 Sum of School Memberships: 96
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T		49203		LEA Membership: 0 Sum of School Memberships: 63
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T				
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T				
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T				
Error	S052-R23	LEA Membership 0 or Missing, but School Membership > 0	T		61201		LEA Membership: 0 Sum of School Memberships: 8

This report shows:

- **Severity:** The level of severity of the rule violated; error with a red dot or Warning with a yellow dot
- **Rule Number:** The USED rule number as found in the *EDFacts* Business Rules spreadsheet
- **Description:** The description of the problem, again from the *EDFacts* Business Rules spreadsheet
- **Category Set:** The category set/sub-total group in the file that is associated with the violation
- **SEA:** The text "SEA" if the offending record is a state-level record
- **LEA Identifier:** The state identifier of the LEA if the offending record is an LEA-level or school-level record
- **School Identifier:** The state school identifier if the offending record is a school-level record. The LEA identifier will also be supplied to assist in finding the offending record in the submission file.
- **Additional Information:** We are making every effort to supply additional information for the violated rules that shows exactly what is wrong, why it is wrong, and in some cases what to do to correct the issue.