



FEI Systems

Connecting Every Dimension of  
Health and Human Services

# FASAMS Requirements Document

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## FASAMS Submission Performance Report WI 10521

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## GENERAL

### VERSION CONTROL

Date	Version	Author(s)	Brief Description of Change
8/6/2018	1.0	Jesse Lindsey	Initial Document Creation
8/8/2019	1.1	Jesse Lindsey	Update during JAD
8/11/2019	1.2	Jesse Lindsey	Update after discussing graph and totals with dev team
8/20/2019	1.3.	Jesse Lindsey	Updated after discussion and review with Yiwen
8/26/2019	1.4	Jesse Lindsey	Updated after discussion with dev team
10/7/2019	1.5	Jesse Lindsey	Update mock up to align with requirements better

### STAKEHOLDERS

Role	Name
FEI Business Analyst	Jesse Lindsey
FEI Account Manager	Kory Schnoor
DCF SAMH Project Director	Nathan McPherson
DCF SAMH Project Sponsors	Adam L. Wasserman
DCF Business Analyst	Gregory Nix / Victor Gaines

## SCOPE

### INITIAL REQUEST & ASSUMPTIONS

#### *Business Statement*

The FASAMS system is experiencing heavy usage and slowdowns, so DCF needs a new report that provides insight into the system's performance as it processes submitted files.

This report will provide DCF the ability to identify and assist with usage and performance issues. Currently, there are times when uploads and other system upgrades are not processed in a timely fashion, and DCF would like to pinpoint and correct issues as we are able to see them.

#### *Scope Definition*

A report will be created called "FASAMS Submission Performance report". It will include filters for Submitting Entity, Start Datetime, and End Datetime. The report will include the following columns: Submitting Entity Name, Submitter Username, File Name / Job Name, File Type, File Processing Status, File Processing Time (in minutes), File Processing Wait Time (in minutes), File Created timestamp, File Processing Start Time, File Processing End Time, Successful Count, Error Count, and Warning Count. The report will be available under the Job Submission Performance category.

### EXISTING FUNCTIONALITY

Currently on FASAMS does not have a report that shows FASAMS Submission Performance Report.

### PROPOSED FUNCTIONALITY

Create a new report named "FASAMS Submission Performance Report" for users with the View Job Submission Performance Reports permission. The report will include two charts for completed jobs and created jobs. The report will not be intended to be exported for printing due to the overall width required to accommodate all columns. The report will contain the following columns:

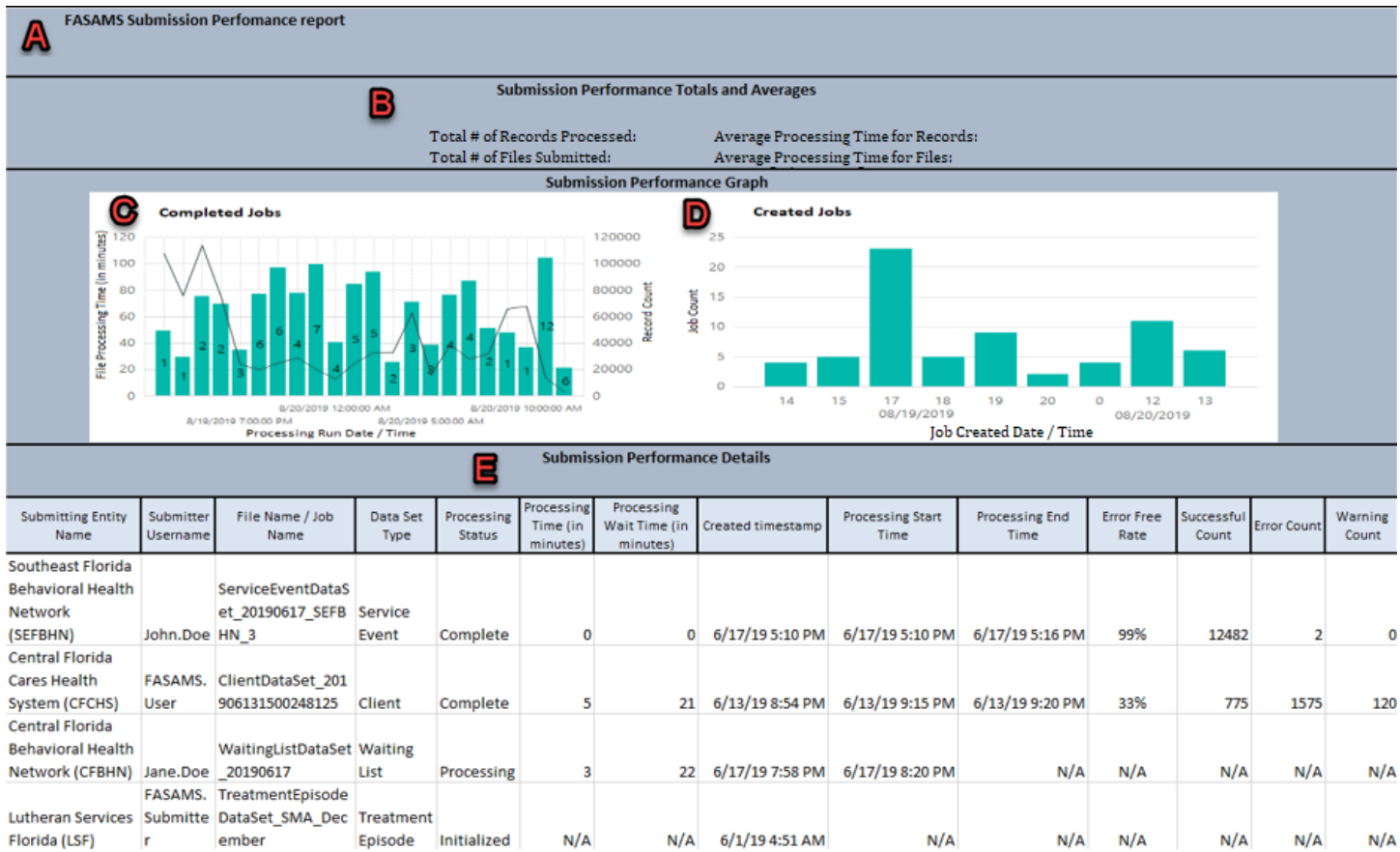
- Submitting Entity Name
- Submitter Username
- File Name / Job Name
- Data Set Type
- Processing Status
- Processing Time (in minutes)
- Processing Wait Time (in minutes)
- Created timestamp
- Processing Start Time
- Processing End Time
- Error Free Rate
- Successful Count
- Error Count
- Warning Count

**INITIAL ESTIMATE/ QUOTE HISTORY**

Phase/ Quote Date	Item(s)	Description	Estimate/ Quote
8/26/2019	10521	Initial Estimated Hours	90 - 180
8/26/2019	10521	Final Estimated Hours	Development: 72 Testing: 72 Analysis: 40 Acct/Project Management: 12 <b>Total: 196</b>

# REQUIREMENTS

## 1. CREATE FASAMS SUBMISSION PERFORMANCE REPORT



Req. ID	Requirement	Ref	Dev	QA
<b>1.1</b>	<b>Report and Data Access</b>			
<b>1.1.1</b>	A new report "FASAMS Submission Performance" should be created and placed under the FASAMS Reports section, Job Submission Performance folder. <ul style="list-style-type: none"> <li>Any role with the View Job Submission Performance Reports permission can view and run this report</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.2</b>	<b>Report Filtering</b>			
<b>1.2.1</b>	Users should be able to filter the report by using any of the below search filters: <ul style="list-style-type: none"> <li>"Submitting Entity" dropdown menu               <ul style="list-style-type: none"> <li>The dropdown menu should populate with all SE names</li> <li>The dropdown menu should support multiple selections</li> <li>The dropdown menu will have an "Select All" option that can be selected                   <ul style="list-style-type: none"> <li>It should be at the top of the drop-down menu</li> </ul> </li> <li>The default selection will be "Select All"</li> </ul> </li> <li>"Start Datetime"               <ul style="list-style-type: none"> <li>Should pull all records where <b>ProcessingEndTimestamp</b> &gt;= Start from the Job Submission Module</li> <li>The start datetime will default to 24 hours prior to the current datetime</li> <li>The datetime will be in the following format, "8/19/2019 1:38:14 PM"</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>

	<ul style="list-style-type: none"> <li>○ Includes all files that were created, initialized, processing, or completed during the start and end datetime</li> <li>● “End Datetime” <ul style="list-style-type: none"> <li>○ Should pull all records where <b>EntityCreatedTimestamp</b> &lt;= End Datetime from the Submission module</li> <li>○ The end datetime will default to the current datetime</li> <li>○ Includes all files that were created, initialized, processing, or completed during the start and end datetime</li> <li>○ The datetime will be in the following format, “8/20/2019 1:38:14 PM”</li> </ul> </li> <li>● The maximum datetime range that the report will support will be one year</li> </ul>			
<b>1.3</b>	<p><b>Report Layout</b> – Once generated, the report should contain the following items:</p> <ul style="list-style-type: none"> <li>● Report Header</li> <li>● Submission Performance Totals and Averages</li> <li>● Submission Performance “Completed Jobs” chart</li> <li>● Submission Performance “Created Jobs” chart</li> <li>● Submission Performance Details</li> <li>● Report Footer</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.4</b>	<b>Report Header</b>	<b>A</b>		
<b>1.4.1</b>	<ul style="list-style-type: none"> <li>● Left alignment <ul style="list-style-type: none"> <li>○ Show “FASAMS Submission Performance”</li> </ul> </li> </ul>			
<b>1.6</b>	<b>Submission Performance Totals and Averages</b>	<b>B</b>		
<b>1.6.1</b>	<p>The Submission Performance section will show the following:</p> <ul style="list-style-type: none"> <li>● Total # of Records Processed <ul style="list-style-type: none"> <li>○ Shows the total number of records for Completed files in the selection criteria</li> </ul> </li> <li>● Total # of files submitted <ul style="list-style-type: none"> <li>○ Shows the total number of files submitted based on the selection criteria</li> </ul> </li> <li>● Average Processing time for Records <ul style="list-style-type: none"> <li>○ Shows the average processing time for records from Completed files in the selection criteria</li> <li>○ This will be shown in seconds</li> </ul> </li> <li>● Average Processing time for Files <ul style="list-style-type: none"> <li>○ Shows the average processing time for Completed files submitted based on the selection criteria</li> <li>○ This will be shown in minutes</li> </ul> </li> </ul>			
<b>1.7</b>	<b>Submission Performance ‘Completed Jobs’ chart</b>	<b>C</b>		
<b>1.7.1</b>	Chart title: “Completed Jobs”			
<b>1.7.2</b>	<p>The submission performance graph will be set up in the following way,</p> <ul style="list-style-type: none"> <li>● Left Y-axis <ul style="list-style-type: none"> <li>○ Shows the label “File Processing Time (in minutes)” vertically</li> <li>○ Will dynamically generate range of minutes based on the range of processing times of the selection criteria</li> </ul> </li> <li>● Right Y-axis <ul style="list-style-type: none"> <li>○ Shows the label “Record Count” vertically</li> <li>○ Will dynamically generate count range based on the number of records from the selection criteria</li> </ul> </li> <li>● X-axis <ul style="list-style-type: none"> <li>○ Shows the label “Processing Date / Time”</li> <li>○ Will dynamically generate the date/time range based on the start and end date selected</li> </ul> </li> </ul>			
<b>1.7.3</b>	<p>The data in the graph will show as follows</p> <ul style="list-style-type: none"> <li>● A line graph will show the File Processing Time (in minutes) based on the amount of time it has taken Completed files to process within the selection criteria <ul style="list-style-type: none"> <li>○ The line graph will only show Files in Completed status</li> </ul> </li> <li>● A bar graph will show Record counts within the selection criteria</li> </ul>			

	<ul style="list-style-type: none"> <li>○ They will display above the approximate date/time of when they were submitted</li> </ul>			
<b>1.8</b>	<b>Submission Performance “Created Jobs” chart</b>	<b>D</b>		
<b>1.8.1</b>	Chart title: “Created Jobs”			
<b>1.8.2</b>	<p>The submission performance graph will be set up in the following way,</p> <ul style="list-style-type: none"> <li>● Left Y-axis           <ul style="list-style-type: none"> <li>○ Shows the label “Job Count” vertically</li> <li>○ Will dynamically generate range based on the range of processing times of the selection criteria</li> </ul> </li> <li>● X-axis           <ul style="list-style-type: none"> <li>○ Shows the label “Jobs Created Date / Time”</li> <li>○ Will dynamically generate the date/time range based on the start and end date selected</li> <li>○ The minimum increment that will be shown on the x-axis is one hour</li> </ul> </li> </ul>			
<b>1.8.3</b>	<p>The data in the graph will show as follows,</p> <ul style="list-style-type: none"> <li>● A bar graph will show all Jobs created within the selection criteria           <ul style="list-style-type: none"> <li>○ They will display above the approximate date/time of when they were submitted</li> <li>○ The bar graph will show all Jobs created within the selection criteria regardless of processing status</li> </ul> </li> </ul>			
<b>1.9</b>	<b>Submission Performance Details</b>	<b>E</b>		
<b>1.9.1</b>	Submission Performance Details columns will show the following information:			
<b>1.9.1.1</b>	<ul style="list-style-type: none"> <li>● Submitting Entity           <ul style="list-style-type: none"> <li>○ Shows the name of the submitting entity</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.9.1.2</b>	<ul style="list-style-type: none"> <li>● Submitter Username           <ul style="list-style-type: none"> <li>○ Shows the user that submitted the file</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.9.1.3</b>	<ul style="list-style-type: none"> <li>● File Name / Job Name           <ul style="list-style-type: none"> <li>○ Shows the name of the file submitted</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.9.1.4</b>	<ul style="list-style-type: none"> <li>● Data Set Type           <ul style="list-style-type: none"> <li>○ Must be one of the eight data sets</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.9.1.5</b>	<ul style="list-style-type: none"> <li>● Processing Status           <ul style="list-style-type: none"> <li>○ Should show ‘Initialized’, ‘Processing’, or ‘Complete’</li> <li>○ This will always show the jobs current status no matter the date range selected</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.9.1.6</b>	<ul style="list-style-type: none"> <li>● Processing Time (in minutes)           <ul style="list-style-type: none"> <li>○ Calculated by subtracting the ‘Processing Start Time’ from the ‘Processing End Time’</li> <li>○ The Processing Time should show as “N/A” if the file status is not ‘Completed’</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.9.1.7</b>	<ul style="list-style-type: none"> <li>● Processing Wait Time (in minutes)           <ul style="list-style-type: none"> <li>○ Calculated by subtracting the ‘Created timestamp’ from the ‘Processing Start Time’</li> <li>○ The Processing Wait Time should show as “N/A” if the file status is ‘Initialized’</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>1.9.1.8</b>	<ul style="list-style-type: none"> <li>● Created timestamp           <ul style="list-style-type: none"> <li>○ The time the file was submitted</li> </ul> </li> </ul>			
<b>1.9.1.9</b>	<ul style="list-style-type: none"> <li>● Processing Start Time           <ul style="list-style-type: none"> <li>○ Shows the time the file started processing</li> <li>○ The Processing Start Time should show as “N/A” if the file status is ‘Initialized’</li> </ul> </li> </ul>			
<b>1.9.1.10</b>	<ul style="list-style-type: none"> <li>● Processing End Time           <ul style="list-style-type: none"> <li>○ Shows the time the file completed processing</li> <li>○ The Processing End Time should show as “N/A” if the file status is not ‘Completed’</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>

1.9.1.11	<ul style="list-style-type: none"> <li>• Error Free Rate               <ul style="list-style-type: none"> <li>○ Calculation will be 'Successful Count' divided by 'Successful Count' plus 'Error Count'</li> <li>○ Should be displayed as a percent value</li> <li>○ Error Free Rate should show as "N/A" if the file status is not 'Completed'</li> </ul> </li> </ul>			
1.9.1.12	<ul style="list-style-type: none"> <li>• Successful Count               <ul style="list-style-type: none"> <li>○ The Successful Count should show as "N/A" if the file status is not 'Completed'</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
1.9.1.13	<ul style="list-style-type: none"> <li>• Error Count               <ul style="list-style-type: none"> <li>○ The Error Count should show as "N/A" if the file status is not 'Completed'</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
1.9.1.14	<ul style="list-style-type: none"> <li>• Warning Count               <ul style="list-style-type: none"> <li>○ The Warning Count should show as "N/A" if the file status is not 'Completed'</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
1.10	<b>Report Footer</b>			
1.10.1	<ul style="list-style-type: none"> <li>• Left alignment               <ul style="list-style-type: none"> <li>○ Shows the user that ran the report: "Created by &lt;username&gt;"</li> </ul> </li> <li>• Right alignment               <ul style="list-style-type: none"> <li>○ The date and time when the report was generated: "Report as of &lt;date and time&gt;"</li> </ul> </li> </ul>			