



FEI Systems

Connecting Every Dimension of  
Health and Human Services

# FASAMS Requirements Document

---

## Message Numbering and Root Cause WI 11771

---

Created by: Jesse Lindsey

Dated: 4/2/2020

## CONTENTS

General.....	3
Version Control .....	3
Stakeholders .....	3
Supporting Documents and References .....	3
Terms and Definitions .....	3
Scope.....	3
Initial Request & Assumptions .....	3
Business Statement.....	3
Scope Definition .....	4
Assumptions, Constraints, Dependencies.....	4
Existing Functionality .....	4
Proposed Functionality .....	4
Initial Estimate/ Quote History .....	4
Requirements.....	4
1. Assign Message Numbers to Messages .....	4
2. Add Root Cause language to all Messages/Create Excel to populate SubmissionModule.Message table(BA task)..	5
3. Create SubmissionModule.Message Table .....	5
4. Replace in-code messages with Message Numbers and link to SubmissionModule.Message table .....	5
5. Update Submission Module tables .....	6
6. Update Rules Dropdown Menu .....	6
7. Update Rule Export Excel document .....	6
8. Add Message Number to Job Detail Screen.....	7
9. Add Message Number to Job Detail Excel download .....	8
10. Add Message Number to Job Detail PDF download .....	8

## GENERAL

### VERSION CONTROL

Date	Version	Author(s)	Brief Description of Change
4/2/2020	1.0	Jesse Lindsey	Initial document creation
4/13/2020	1.1	Jesse Lindsey	Updates to document
4/17/2020	1.2	Jesse Lindsey	Doc updates after meeting with dev team
4/24/2020	1.3	Jesse Lindsey	Updates after Db needs discussion
5/3/2020	1.4	Jesse Lindsey	Update doc with Portal changes
5/7/2020	1.5	Jesse Lindsey	Updates after meeting with Dev and QA team, added final estimate
6/1/2020	1.6	Jesse Lindsey	Added SRI and PSRI columns for job error details
6/4/2020	1.7	Jesse Lindsey	Update final estimate with addition of SRI/ProviderSRI to Job error details

### STAKEHOLDERS

Role	Name
FEI Implementation Manager	Jesse Lindsey
FEI Account Manager	Kory Schnoor
FEI Product Manager	Jessica Knott
DCF OITS Project Director	Nathan McPherson
DCF SAMH Project Sponsor	Jonathan Hall
DCF Business Analysts	Gregory Nix / Victor Gaines

### SUPPORTING DOCUMENTS AND REFERENCES

- Rules, Error, Warning export example -- [AcuteCareDataSetRulesMessages\\_Example](#)
- Excel download example -- [Job\\_ErrorReport\\_example.xlsx](#)
- PDF download example -- [Job\\_ErrorReport\\_example.pdf](#)

### TERMS AND DEFINITIONS

Terms	Description

## SCOPE

### INITIAL REQUEST & ASSUMPTIONS

#### *Business Statement*

DCF and the DAC has identified two changes to be made to the FASAMS error messaging to enhance the usability of FASAMS error messages. First, each error message is to be assigned a number to allow for quick identification of the error. Second, each error message should include a Root Cause addition to the message itself which identifies the origin of the error being displayed.

### *Scope Definition*

In this enhancement, the FASAMS error messages will each be assigned a number and each error message will be expanded to state the origin of the error. Both of these additions will be visible in the portal when reviewing error message reports. The current error messages will stay the same but an addition of “Root Cause: ....” will be added below the error message to aid in identifying how the error should be resolved.

### *Assumptions, Constraints, Dependencies*

All FASAMS Version 14 development changes must be completed and deployed to the TST environment before the Error Numbers can be assigned.

### EXISTING FUNCTIONALITY

Currently, error messages in FASAMS do not have corresponding error numbers nor do the error messages specifically identify the root causes of the error shown.

### PROPOSED FUNCTIONALITY

FASAMS error messages will now have a corresponding error number which will be shown in conjunction with the error message itself. Also, each error message will have a Root Cause noted in the error message itself.

### INITIAL ESTIMATE/ QUOTE HISTORY

Phase/ Quote Date	Item(s)	Description	Estimate/ Quote
4/2/2020	11771	Initial Estimate	181-375
6/4/2020	11771	Final Estimate	<b>Final Estimate:</b> Analysis - 52 Dev - 265 Test - 100 Acct / Project Management - 20 <b>Total - 437</b>

## REQUIREMENTS

### 1. ASSIGN MESSAGE NUMBERS TO MESSAGES

Req. ID	Requirement	Ref. ID	Dev	QA
1.0	Assign Message numbers to all errors and warnings		<input type="checkbox"/>	<input type="checkbox"/>
1.1	Programmatically create numbering system with the data set number as the predecessor of the Message number. An “e” or a “w” will be used in the message number to indicate if the message is for an error or a warning.  Error numbering examples by data set: <ul style="list-style-type: none"> <li>• Provider: 3e00001 or 3w00002</li> <li>• Client: 4e00001 or 4w00002</li> <li>• Treatment Episode: 5e00001 or 5w00002</li> <li>• Service Event: 6e00001 or 6w00002</li> <li>• Waiting List: 7e00001 or 7w00002</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Ref. ID	Dev	QA
	<ul style="list-style-type: none"> <li>Acute Care: 8e00001 or 8w00002</li> <li>Subcontract: 9e00001 or 9w00002</li> <li>Contract: 10e00001 or 10w00002</li> <li>Core rules: 0e00001 or 0w00002</li> </ul> <p><b>Note:</b> the assignment of Message Numbers must occur after all Version 14 data sets have been deployed to the TST environment</p>			

## 2. ADD ROOT CAUSE LANGUAGE TO ALL MESSAGES/CREATE EXCEL TO POPULATE SUBMISSIONMODULE.MESSAGE TABLE (BA TASK)

Req. ID	Requirement	Ref. ID	Dev	QA
2.0	Add Root Cause language to all error messages (Note: to be done by Business Analyst)			
2.1	Create Excel document with the following columns: <ul style="list-style-type: none"> <li>DataSetType, DataSetVersion, MessageNumber, MessageType, Message</li> <li>Note: this will be used to populate the SubmissionModule.Message table in step 3.2</li> </ul>			

## 3. CREATE SUBMISSIONMODULE.MESSAGE TABLE

Req. ID	Requirement	Ref. ID	Dev	QA
3.0	Create Message table under SubmissionModule <ul style="list-style-type: none"> <li>Table name:               <ul style="list-style-type: none"> <li>SubmissionModule.Message</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
3.1	Columns in table, <ul style="list-style-type: none"> <li>Column Name: <b>MessageKey</b> <ul style="list-style-type: none"> <li>Autogenerated field</li> </ul> </li> <li>Column Name: <b>MessageNumber</b></li> <li>Column Name: <b>MessageType</b> <ul style="list-style-type: none"> <li>Error or Warning</li> </ul> </li> <li>Column Name: <b>MessageText</b></li> </ul>			
3.2	Create script to load Messages into table at deployment			
3.3	Columns will be populated after Message Numbers applied (section 2) to messages			

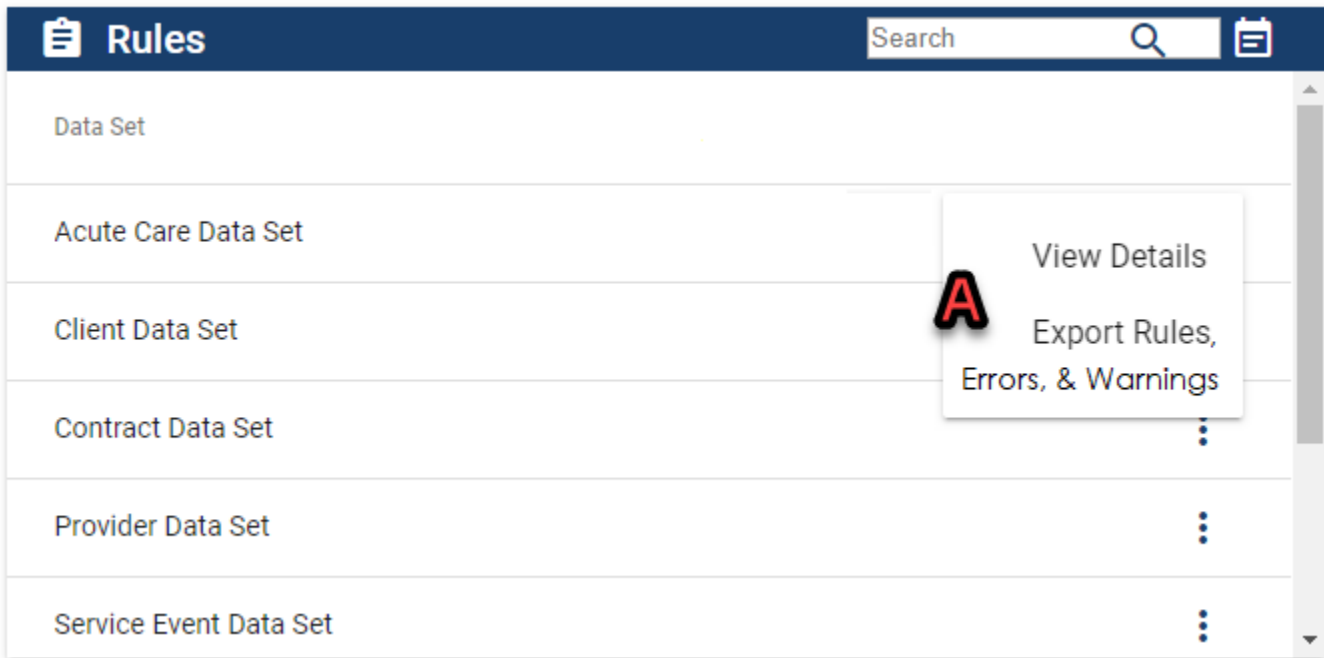
## 4. REPLACE IN-CODE MESSAGES WITH MESSAGE NUMBERS AND LINK TO SUBMISSIONMODULE.MESSAGE TABLE

Req. ID	Requirement	Ref. ID	Dev	QA
4.0	Replace hardcoded error messages in code with new Message numbers <ul style="list-style-type: none"> <li>When an error occurs, the error message number will be used to reference the correct error message to be provided to the end user via the Portal or error report</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
4.1	Create SUBMISSIONMODULE.MESSAGE look up based on Message Number in code <ul style="list-style-type: none"> <li>To be discussed further with Eric</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>

## 5. UPDATE SUBMISSION MODULE TABLES

Req. ID	Requirement	Ref. ID	Dev	QA
5.0	Add new column to <b>SubmissionModule.JobError</b> <ul style="list-style-type: none"> <li>Column Name: <b>MessageNumber</b></li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
5.1	Add new column to <b>SubmissionModule.JobWarning</b> <ul style="list-style-type: none"> <li>Column Name: <b>MessageNumber</b></li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
<b>Note</b>	We will not migrate <b>MessageNumbers</b> existing Job Error and Warnings to receive a number		<input type="checkbox"/>	<input type="checkbox"/>

## 6. UPDATE RULES DROPDOWN MENU



Req. ID	Requirement	Ref. ID	Dev	QA
6.0	Update list item <ul style="list-style-type: none"> <li>“Export Rules” becomes “Export Rules/Error Messages” <ul style="list-style-type: none"> <li>“Export Rules/Error Messages” – clicking this will download a Rule/Error Messages Export Excel document – defined in section 3.2</li> </ul> </li> </ul>	A	<input type="checkbox"/>	<input type="checkbox"/>
6.1			<input type="checkbox"/>	<input type="checkbox"/>

## 7. UPDATE RULE EXPORT EXCEL DOCUMENT

	CollectionName	RuleName	Status	Message Number	Message Type	Message
1	Bed Capacity Bed Type Rule Collection	Baker Act Beds Or Stepdown Fr Enabled	Enabled	8e00001	Error	\$"Facility Type Code: '{bedCapacityBedType.BedCapacity.FacilityType}', " + "BedCapacityBedType
2	Bed Capacity Bed Type Rule Collection	Female Secure Forensic Beds C Enabled	Enabled	8e00002	Error	\$"Facility Type Code: '{bedCapacityBedType.BedCapacity.FacilityType}', " + "A BedCapacityBedT
3	Bed Capacity Bed Type Rule Collection	Operational Bed Count No Sma Enabled	Enabled	8e00003	Error	Bed Type is required.
4	Bed Capacity Bed Type Rule Collection	Operational Bed Count Require Enabled	Enabled	8e00004	Error	Operational Bed Count is required.
5	Bed Capacity Bed Type Rule Collection	Type Code Required Rule	Enabled	8e00005	Error	Operational Bed Count must be a valid integer greater than or equal to zero.
6	Bed Capacity Rule Collection	Acute Care Age Group Must Be Enabled	Enabled	8e00006	Error	\$"Total Bed Capacity Bed Type Operational Bed Count: '{context.WorkingMemory.GetContextObject<int>' ("TotalIT
7	Bed Capacity Rule Collection	Acute Care Age Group Require Enabled	Enabled	8e00007	Error	Valid subcontract number is required when the Provider.ContractualRelationshipCode is 2 (Managing Entity Su
8	Bed Capacity Rule Collection	Acute Care Facility Type Require Enabled	Enabled	8e00008	Error	Subcontract number must not be provided if Provider.ContractualRelationshipCode is not 2 (Managing Entity S
9	Bed Capacity Rule Collection	Census Date Have No Gap Rul Enabled	Enabled	8e00009	Error	Source record identifier is required.
10	Bed Capacity Rule Collection	Contract Number Must Already Enabled	Enabled	8e00010	Error	Effective date is required.
11	Bed Capacity Rule Collection	Contract Number Must Not Be Enabled	Enabled	8e00011	Error	Effective date must be less than or equal to the current date.
12	Bed Capacity Rule Collection	Contract Number Required If N Enabled	Enabled	8e00012	Error	Acute Care Facility Type is required.
13	Bed Capacity Rule Collection	Effective Date No Later Than C Enabled	Enabled	8e00013	Error	Acute Care Age Group is required.
14	Bed Capacity Rule Collection	Effective Date Required Rule	Enabled	8e00014	Error	Acute Care Age Group must not be 2 (Children) or 3 (Mix) if the FacilityTypeCode is 4 (Civil State Mental Health
15	Bed Capacity Rule Collection	Federal Tax Identifier Require Enabled	Enabled	8e00015	Error	Operational Bed Count is required.

Req. ID	Requirement	Ref. ID	Dev	QA
7.0	Columns 1-3 will not change		<input type="checkbox"/>	<input type="checkbox"/>
7.1	New Columns <ul style="list-style-type: none"> <li>Column D:               <ul style="list-style-type: none"> <li>Column name: "Message Number"</li> <li>To be populated from ErrorMessageModule.ErrorNumber column from correlating data set</li> </ul> </li> <li>Column E:               <ul style="list-style-type: none"> <li>Column name: "Message Type"</li> <li>Will be populated as "Error" or "Warning" based on MessageType</li> </ul> </li> <li>Column F:               <ul style="list-style-type: none"> <li>Column name: "Message"</li> <li>To be populated from SubmissionModule.Message column from correlating data set</li> </ul> </li> </ul>	B  C  D	<input type="checkbox"/>	<input type="checkbox"/>

## 8. ADD MESSAGE NUMBER TO JOB DETAIL SCREEN

### Entity Errors

Provider - FederalTaxIdentifier: '11-5638957' Errors: 4

Source	SourceRecordIdentifier	ProviderSourceRecordIdentifier	Type	Message Number	Message
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	ABC	123	Business Rule	3e0004	SiteName: 'MLM Provider' - Attempt was made to update a deleted entity. Please undo the delete first.
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	DEF	456	Business Rule	3e0008	DirectorPhoneNumber: '555-555-5555' - Attempt was made to update a deleted entity. Please undo the delete first.
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	GHI	789	Business Rule	3e0015	NationalProviderIdentifier: '1234567899' - Attempt was made to update a deleted entity. Please undo the delete first.
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	JKL	N/A	Business Rule	3e0028	DirectorFirstName: 'Michelle' - Attempt was made to update a deleted entity. Please undo the delete first.

Req. ID	Requirement	Ref. ID	Dev	QA
8.0	Add new columns to Entity Errors section of Job Detail screen: <ul style="list-style-type: none"> <li>Column name: <b>SourceRecordIdentifier</b> <ul style="list-style-type: none"> <li>The column will be located to the left of 'Source' column (2<sup>nd</sup> column)</li> <li>The column will be populated by the root level SRI for the record</li> </ul> </li> <li>Column name: <b>ProviderSourceRecordIdentifier</b> <ul style="list-style-type: none"> <li>The column will be located to the left of the 'SourceRecordIdentifier' column (3<sup>rd</sup> column)</li> <li>The column will be populated with the ProviderSourceRecordIdentifier field that corresponds to the root level SRI for the record               <ul style="list-style-type: none"> <li>If the ProviderSourceRecordIdentifier was not provided or if the record is from a Version 13 submission, then the column will show 'N/A'</li> </ul> </li> </ul> </li> <li>Column name: <b>Message Number</b> <ul style="list-style-type: none"> <li>The column will be located to the left of the 'Message' column (5<sup>th</sup> column)</li> <li>The column will be populated with the message number for the corresponding Message</li> </ul> </li> </ul>	E  F  G	<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Ref. ID	Dev	QA
<b>Note</b>	Old jobs will not need to be retroactively populated with a Message Number column and Message Number		<input type="checkbox"/>	<input type="checkbox"/>

## 9. ADD MESSAGE NUMBER TO JOB DETAIL EXCEL DOWNLOAD

RootSource	SourceRecordIdentifier	ProviderSourceRecordIdentifier	Type	ErrorType	MessageNumber	Message
Provider - FederalTaxIdentifier: '11-5638957'	ABC	123	Error	Business Rule	3e00004	DirectorFirstName: 'Michelle' - Attempt
Provider - FederalTaxIdentifier: '11-5638957'	DEF	456	Error	Business Rule	3e00008	DirectorPhoneNumber: '555-555-5555' -
Provider - FederalTaxIdentifier: '11-5638957'	GHI	789	Error	Business Rule	3e00015	NationalProviderIdentifier: '1234567899'
Provider - FederalTaxIdentifier: '11-5638957'	JKL	N/A	Error	Business Rule	3e00028	SiteName: 'MLM Provider' - Attempt wa

Req. ID	Requirement	Ref. ID	Dev	QA
9.0	Add new columns to the Job Detail Excel download: <ul style="list-style-type: none"> <li>Column name: <b>SourceRecordIdentifier</b> <ul style="list-style-type: none"> <li>The column will be located to the left of 'Source' column (column F)</li> <li>The column will be populated by the root level SRI for the record</li> </ul> </li> <li>Column name: <b>ProviderSourceRecordIdentifier</b> <ul style="list-style-type: none"> <li>The column will be located to the left of the 'SourceRecordIdentifier' column (column G)</li> <li>The column will be populated with the ProviderSourceRecordIdentifier field that corresponds to the root level SRI for the record                             <ul style="list-style-type: none"> <li>If the ProviderSourceRecordIdentifier was not provided or if the record is from a Version 13 submission, then the column will show '<b>N/A</b>'</li> </ul> </li> </ul> </li> <li>Column name: <b>Message Number</b> <ul style="list-style-type: none"> <li>The column will be located to the left of the 'Message' column (column J)</li> <li>The column will be populated with the message number for the corresponding Message</li> </ul> </li> </ul>	H  I  J	<input type="checkbox"/>	<input type="checkbox"/>

## 10. ADD MESSAGE NUMBER TO JOB DETAIL PDF DOWNLOAD

Provider - FederalTaxIdentifier: '11-5638957'

Source	SourceRecordIdentifier	ProviderSourceRecordIdentifier	Error Type	Message Number	Message
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	ABC	123	Business Rule	3e00004	DirectorFirstName: 'Michelle' - Attempt was made to update a deleted entity. Please undo the delete first.
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	DEF	456	Business Rule	3e00008	DirectorPhoneNumber: '555-555-5555' - Attempt was made to update a deleted entity. Please undo the delete first.
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	GHI	789	Business Rule	3e00015	NationalProviderIdentifier: '1234567899' - Attempt was made to update a deleted entity. Please undo the delete first.
Provider - FederalTaxIdentifier: '11-5638957', ProviderSite - SiteIdentifier: '01'	JKL	N/A	Business Rule	3e00028	SiteName: 'MLM Provider' - Attempt was made to update a deleted entity. Please undo the delete first.



Req. ID	Requirement	Ref. ID	Dev	QA
10.0	Add new columns to Entity Errors section of Job Detail PDF download: <ul style="list-style-type: none"> <li>• Column name: <b>SourceRecordIdentifier</b> <ul style="list-style-type: none"> <li>○ The column will be located to the left of 'Source' column (2<sup>nd</sup> column)</li> <li>○ The column will be populated by the root level SRI for the record</li> </ul> </li> <li>• Column name: <b>ProviderSourceRecordIdentifier</b> <ul style="list-style-type: none"> <li>○ The column will be located to the left of the 'SourceRecordIdentifier' column (3<sup>rd</sup> column)</li> <li>○ The column will be populated with the ProviderSourceRecordIdentifier field that corresponds to the root level SRI for the record               <ul style="list-style-type: none"> <li>▪ If the ProviderSourceRecordIdentifier was not provided or if the record is from a Version 13 submission, then the column will show '<b>N/A</b>'</li> </ul> </li> </ul> </li> <li>• Column name: <b>Message Number</b> <ul style="list-style-type: none"> <li>○ The column will be located to the left of the 'Message' column (5<sup>th</sup> column)</li> <li>○ The column will be populated with the message number for the corresponding Message</li> </ul> </li> </ul>	K  L  M	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>