



FEI Systems

Connecting Every Dimension of
Health and Human Services

FASAMS Requirements Document

Convert FASAMS to AWS Serverless WI 546000 (Part 1)

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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	3
Assumptions, Constraints, Dependencies.....	4
Existing Functionality	4
Proposed Functionality	4
Initial Estimate/ Quote History	4
Requirements.....	4
Notes to Developer	4
1. Convert FASAMS to AWS Serverless	4
2. Database Migration.....	5
Are Pamphlet update required? Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/>	5

GENERAL

VERSION CONTROL

Date	Version	Author(s)	Brief Description of Change
1/12/2022	1.0	Jesse Lindsey	Initial document creation
3/31/2022	1.1	Renee Sessions	Update requirements

STAKEHOLDERS

Role	Name
FEI Implementation Manager	Jesse Lindsey
FEI Account Manager	Chris Lanham
FEI Business Analyst	Charlene Pitt
DCF OITS Project Director	Nathan McPherson
DCF SAMH Project Sponsor	Richard Power
DCF Business Analysts	Sofia Castro / Victor Gaines

SUPPORTING DOCUMENTS AND REFERENCES

- Enhancement request form from DCF:
 - https://feisystems3.sharepoint.com/sites/FASAMS/_layouts/15/DocIdRedir.aspx?ID=FEIDOC-1387-207516
- Proof of Performance metrics:
 - https://feisystems3.sharepoint.com/sites/FASAMS/_layouts/15/DocIdRedir.aspx?ID=FEIDOC-1387-208016

TERMS AND DEFINITIONS

Terms	Description

SCOPE

INITIAL REQUEST & ASSUMPTIONS

Business Statement

DCF requests an update to the job processor to increase the performance when running jobs.

Scope Definition

FEI will convert FASAMS to AWS Serverless for job processing. The serverless job processor uses Lambda functions, and more Lambda functions can be dynamically added when more processing power is needed based on submission load.

Note: An EC2 server will need to be retained specifically to support task services.

Assumptions, Constraints, Dependencies

- This enhancement applies only to FASAMS Version 14.
- Note, this is part 1 of a two part enhancement.

EXISTING FUNCTIONALITY

Currently, the job processor operates on EC2 servers.

PROPOSED FUNCTIONALITY

FEI will convert FASAMS to AWS Serverless for job processing. The serverless job processor uses Lambda functions, and more Lambda functions can be dynamically added when more processing power is needed based on submission load.

Note: An EC2 server will need to be retained specifically to support task services.

INITIAL ESTIMATE/ QUOTE HISTORY

Phase/ Quote Date	TFS Item #(s)	Description	Estimate/ Quote
1/24/2022	546000	Initial Estimate	Extra Large (Note: IE was made when this work item was combined with enhancement 568459)
10/13/2022	546000	Final Estimate	Final Estimate: Analysis – 67 Dev – 339 Test – Acct / Project Management – Total – 406

REQUIREMENTS

NOTES TO DEVELOPER

1. CONVERT FASAMS TO AWS SERVERLESS

Req. ID	Requirement	Ref. ID	Dev	QA
1.0	Fully configure AWS Serverless to run FASAMS, including: <ul style="list-style-type: none"> • Merge customer folder of code into .NETcore branch • Create CDK Project <ul style="list-style-type: none"> ○ Create Lambda functions to run FASAMS Job Processor for all data sets ○ Store FASAMS data that passes business validation rules • Update the code to support the FASAMS portal (a.k.a., UI) • Configure SFTP to work with AWS • Replace the identity server with AWS's Cognito identity server <ul style="list-style-type: none"> ○ Migrate existing user accounts 		<input type="checkbox"/>	<input type="checkbox"/>
1.1	Create solution to store Staging Tables where required to support reporting			

2. DATABASE MIGRATION

Req. ID	Requirement	Ref. ID	Dev	QA
2.0	Database migration to move all data to AWS Serverless databases – For Testing Purposes <ul style="list-style-type: none"> Back up and restore database after AWS serverless environmesnt are stood up 		<input type="checkbox"/>	<input type="checkbox"/>

ARE PAMPHLET UPDATE REQUIRED? YES NO

Update ID	Pamphlet Chapter/Sections requiring change	Completed by FEI	Approved by DCF