



FEI Systems

Connecting Every Dimension of  
Health and Human Services

# FASAMS Requirements Document

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## WI 410216 Grant MEs Access to Base Tables via SSMS Part 2

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Created by: Jesse Lindsey

Dated: 4/1/2021

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## GENERAL

### VERSION CONTROL

Date	Version	Author(s)	Brief Description of Change
1/26/2021	1.0	Jesse Lindsey	Initial Document creation
4/1/2021	1.1	Jesse Lindsey	Update doc to be a two-part enhancement
5/2021	1.2	Jesse Lindsey	Various updates based on meetings with DCF and FEI dev team
5/21/2021	1.3	Jesse Lindsey	Update doc with final estimate

### 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	Richard Power
DCF Business Analysts	Gregory Nix / Victor Gaines

### SUPPORTING DOCUMENTS AND REFERENCES

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### TERMS AND DEFINITIONS

Terms	Description
SSMS	SQL Server Management Studio

## SCOPE

### INITIAL REQUEST & ASSUMPTIONS

#### *Business Statement*

The Managing Entities that submit data to FASAMS have requested direct access to the database tables via SSMS so they can verify their data saved in the FASAMS system properly after submission. DCF needs a way to control the access to SSMS via the Portal so they are not reliant on helpdesk tickets to grant this access.

#### *Scope Definition*

FEI will develop the following:

- New roles in SSMS that correspond to new permissions that will be developed in the FASAMS Portal
- Create new permissions in the FASAMS Portal that can be assigned to roles
- Create new roles in the FASAMS Portal used to grant SSMS access
- Synchronization process to keep user access in SSMS the same as user access in FASAMS PRD

- Synchronization of user credentials to be the same between FASAMS PRD and SSMS access

*Assumptions, Constraints, Dependencies*

**EXISTING FUNCTIONALITY**

DCF does not currently have the ability to manage access to the SSMS environment.

**PROPOSED FUNCTIONALITY**

DCF personnel will be able to grant SSMS access to end users through the FASAMS Portal. Users who have been granted access to SSMS will be able to log into SSMS with their existing FASAMS credentials and will be able to query data submitted by the submitting entities associated with the user’s FASAMS account.

**INITIAL ESTIMATE/ QUOTE HISTORY**

Phase/ Quote Date	Item(s)	Description	Estimate/ Quote
5/21/2021	410216	Initial Estimate	375 - 750
5/21/2021	410216	Final Estimate	<b>Final Estimate:</b> Analysis - 20 Dev - 155 Test - 90 Acct / Project Management - 10 <b>Total - 275</b>

**REQUIREMENTS**

**1. SYNCHRONIZE SSMS USER ACCESS WITH FASAMS**

Req. ID	Requirement	Ref. ID	Dev	QA
1.0	Synchronize a users access to SSMS data to be the same as the access currently in FASAMS		<input type="checkbox"/>	<input type="checkbox"/>
1.1	Synchronize a users credentials in SSMS to be the same as their credentials in FASAMS PRD <ul style="list-style-type: none"> <li>• Users must reset password after role is granted to synchronize Portal and SSMS password</li> <li>•</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

**2. CREATE SSMS PERMISSIONS**

Req. ID	Requirement	Ref. ID	Dev	QA				
2.1	Create new Permission: <b>“FASAMS SSMS Base Table Access”</b> <ul style="list-style-type: none"> <li>• This roles grants read-only access to the following tables:</li> </ul> <table border="1" data-bbox="203 1816 1291 1896"> <thead> <tr> <th>Schema</th> <th>Table</th> </tr> </thead> <tbody> <tr> <td>AcuteCareModule</td> <td>BedCapacity</td> </tr> </tbody> </table>	Schema	Table	AcuteCareModule	BedCapacity			
Schema	Table							
AcuteCareModule	BedCapacity							

Req. ID	Requirement	Ref. ID	Dev	QA
	AcuteCareModule	BedCapacityBedType		
	AcuteCareModule	BedUtilization		
	AcuteCareModule	PayorClassBedOccupancy		
	AcuteCareVersion14Module	BedCapacity		
	AcuteCareVersion14Module	BedCapacityBedType		
	AcuteCareVersion14Module	BedUtilization		
	AcuteCareVersion14Module	PayorClassBedOccupancy		
	ContractModule	Contract		
	ContractModule	ContractOutcomeMeasure		
	ContractModule	ContractOutputMeasure		
	ContractModule	ContractTarget		
	ContractModule	OutcomeMeasureCoveredService		
	ContractVersion14Module	ContractOutcomeMeasure		
	ContractVersion14Module	ContractOutputMeasure		
	ContractVersion14Module	ContractTarget		
	LicensingModule	ProviderLicensingInformation		
	ProviderModule	Provider		
	ProviderModule	ProviderClient		
	ProviderModule	ProviderClientEmailAddress		
	ProviderModule	ProviderClientIdentifier		
	ProviderModule	ProviderClientPhone		
	ProviderModule	ProviderClientPhysicalAddress		
	ProviderModule	ProviderSite		
	ProviderModule	ProviderSiteLicenseIdentifier		
	ProviderModule	ProviderSitePhone		
	ProviderModule	ProviderSitePhysicalAddress		
	ProviderModule	ProviderTreatmentSetting		
	ProviderModule	ProviderTreatmentSettingCoveredService		
	ProviderModule	ProviderTreatmentSettingProgramArea		
	ProviderVersion14Module	Provider		
	ProviderVersion14Module	ProviderClient		
	ProviderVersion14Module	ProviderClientEmailAddress		
	ProviderVersion14Module	ProviderClientIdentifier		
	ProviderVersion14Module	ProviderClientPhone		
	ProviderVersion14Module	ProviderClientPhysicalAddress		
	ProviderVersion14Module	ProviderSite		
	ProviderVersion14Module	ProviderSiteCoveredService		
	ProviderVersion14Module	ProviderSiteLicenseIdentifier		
	ProviderVersion14Module	ProviderSitePhone		
	ProviderVersion14Module	ProviderSitePhysicalAddress		

Req. ID	Requirement	Ref. ID	Dev	QA
	ProviderVersion14Module	ProviderSiteProgramArea		
	ServiceEventModule	ServiceEvent		
	ServiceEventModule	ServiceEventCoveredServiceModifier		
	ServiceEventModule	ServiceEventExpenditureModifier		
	ServiceEventModule	ServiceEventHcpcsProcedureModifier		
	ServiceEventVersion14Module	ServiceEvent		
	ServiceEventVersion14Module	ServiceEventCoveredServiceModifier		
	ServiceEventVersion14Module	ServiceEventExpenditureModifier		
	ServiceEventVersion14Module	ServiceEventHcpcsProcedureModifier		
	SubcontractModule	Subcontract		
	SubcontractModule	SubcontractOutcomeMeasure		
	SubcontractModule	SubcontractOutputMeasure		
	SubcontractModule	SubcontractService		
	SubcontractVersion14Module	Subcontract		
	SubcontractVersion14Module	SubcontractOCA		
	SubcontractVersion14Module	SubcontractOutcomeMeasure		
	SubcontractVersion14Module	SubcontractOutputMeasure		
	SubcontractVersion14Module	SubcontractService		
	TreatmentEpisodeModule	Admission		
	TreatmentEpisodeModule	ClientDemographic		
	TreatmentEpisodeModule	Diagnosis		
	TreatmentEpisodeModule	Discharge		
	TreatmentEpisodeModule	EducationAndEmployment		
	TreatmentEpisodeModule	Evaluation		
	TreatmentEpisodeModule	FinancialAndHousehold		
	TreatmentEpisodeModule	Health		
	TreatmentEpisodeModule	ImmediateDischarge		
	TreatmentEpisodeModule	Legal		
	TreatmentEpisodeModule	Medication		
	TreatmentEpisodeModule	MentalHealth		
	TreatmentEpisodeModule	PerformanceOutcomeMeasure		
	TreatmentEpisodeModule	PerformanceOutcomeMeasureTargetPopulation		
	TreatmentEpisodeModule	ProviderTreatmentEpisode		
	TreatmentEpisodeModule	Recovery		
	TreatmentEpisodeModule	StabilityOfHousing		
	TreatmentEpisodeModule	SubstanceUseDisorder		
	TreatmentEpisodeVersion14Module	Admission		
	TreatmentEpisodeVersion14Module	ClientDemographic		
	TreatmentEpisodeVersion14Module	Diagnosis		
	TreatmentEpisodeVersion14Module	Discharge		

Req. ID	Requirement	Ref. ID	Dev	QA
	TreatmentEpisodeVersion14Module	EducationAndEmployment		
	TreatmentEpisodeVersion14Module	Evaluation		
	TreatmentEpisodeVersion14Module	FinancialAndHousehold		
	TreatmentEpisodeVersion14Module	Health		
	TreatmentEpisodeVersion14Module	ImmediateDischarge		
	TreatmentEpisodeVersion14Module	Legal		
	TreatmentEpisodeVersion14Module	Medication		
	TreatmentEpisodeVersion14Module	MentalHealth		
	TreatmentEpisodeVersion14Module	PerformanceOutcomeMeasure		
	TreatmentEpisodeVersion14Module	PerformanceOutcomeMeasureTargetPopulation		
	TreatmentEpisodeVersion14Module	PlacementRecord		
	TreatmentEpisodeVersion14Module	ProviderTreatmentEpisode		
	TreatmentEpisodeVersion14Module	Recovery		
	TreatmentEpisodeVersion14Module	StabilityOfHousing		
	TreatmentEpisodeVersion14Module	SubstanceUseDisorder		
	WaitingListModule	WaitingList		
	WaitingListVersion14Module	WaitingList		
	○			
2.2	<p>Create new Permission: <b>“FASAMS SSMS Reporting Db Table Access”</b></p> <ul style="list-style-type: none"> <li>• This roles grants read-only access to the following tables:               <ul style="list-style-type: none"> <li>○ BridgeCoveredServiceModifierGroup</li> <li>○ BridgeExpenditureModifierGroup</li> <li>○ BridgeHcpcsProcedureModifierGroup</li> <li>○ DimAdmissionAttribute</li> <li>○ DimAdmissionIdentifier</li> <li>○ DimAgeGroup</li> <li>○ DimBedCapacityBedTypeIdentifier</li> <li>○ DimBedCapacityIdentifier</li> <li>○ DimBedType</li> <li>○ DimBedUtilizationIdentifier</li> <li>○ DimBudgetAttribute</li> <li>○ DimClient</li> <li>○ DimContract</li> <li>○ DimContractOutcomeMeasureTargetIdentifier</li> <li>○ DimContractOutputMeasureTargetIdentifier</li> <li>○ DimCoveredService</li> <li>○ DimCoveredServiceModifier</li> <li>○ DimCoveredServiceModifierGroup</li> <li>○ DimDate</li> <li>○ DimDiagnosis</li> <li>○ DimDiagnosisIdentifier</li> <li>○ DimDischargeAttribute</li> <li>○ DimDischargeIdentifier</li> <li>○ DimEvaluationAttribute</li> <li>○ DimEvaluationIdentifier</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Ref. ID	Dev	QA
	<ul style="list-style-type: none"> <li>○ DimExpenditureModifier</li> <li>○ DimExpenditureModifierGroup</li> <li>○ DimExpenditureOca</li> <li>○ DimFacilityType</li> <li>○ DimHcpcsProcedureModifier</li> <li>○ DimHcpcsProcedureModifierGroup</li> <li>○ DimImmediateDischargeIdentifier</li> <li>○ DimMedicaidEncounterType</li> <li>○ DimOutcomeMeasure</li> <li>○ DimPaymentMethod</li> <li>○ DimPaymentType</li> <li>○ DimPayorClass</li> <li>○ DimPayorClassBedOccupancyIdentifier</li> <li>○ DimPerformanceOutcomeMeasureAttribute</li> <li>○ DimPerformanceOutcomeMeasureIdentifier</li> <li>○ DimPlacement</li> <li>○ DimPlacementOutcome</li> <li>○ DimPlacementRecordIdentifier</li> <li>○ DimPopulation</li> <li>○ DimProgramArea</li> <li>○ DimProject</li> <li>○ DimProvider</li> <li>○ DimProviderClient</li> <li>○ DimProviderLicenseAttribute</li> <li>○ DimProviderSite</li> <li>○ DimProviderTreatmentEpisodeIdentifier</li> <li>○ DimServiceCategory</li> <li>○ DimServiceEventAttribute</li> <li>○ DimServiceEventIdentifier</li> <li>○ DimServiceEventModifier</li> <li>○ DimServiceEventModifierGroup</li> <li>○ DimServiceSetting</li> <li>○ DimStaff</li> <li>○ DimSubcontract</li> <li>○ DimSubcontractOcaIdentifier</li> <li>○ DimSubcontractOutcomeMeasureTargetIdentifier</li> <li>○ DimSubcontractOutputMeasureTargetIdentifier</li> <li>○ DimSubcontractServiceIdentifier</li> <li>○ DimSubmittingEntity</li> <li>○ DimTreatmentSetting</li> <li>○ DimUnitOfMeasure</li> <li>○ DimWaitingListAttribute</li> <li>○ DimWaitingListIdentifier</li> <li>○ FactAdmission</li> <li>○ FactBedCapacity</li> <li>○ FactBedProviderLicense</li> <li>○ FactBedTypeCapacity</li> <li>○ FactBedUtilization</li> <li>○ FactBudget</li> <li>○ FactDiagnosis</li> <li>○ FactEvaluation</li> </ul>			



Req. ID	Requirement	Ref. ID	Dev	QA
	<ul style="list-style-type: none"> <li>○ FactImmediateDischarge</li> <li>○ FactMedicaidEncounter</li> <li>○ FactOutcomeMeasureTarget</li> <li>○ FactOutputMeasureTarget</li> <li>○ FactPayorClassBedOccupancy</li> <li>○ FactPerformanceOutcomeMeasure</li> <li>○ FactProviderTreatmentEpisode</li> <li>○ FactServiceEvent</li> <li>○ FactSubcontractOca</li> <li>○ FactSubcontractService</li> <li>○ FactWaitingList</li> <li>○ <b>PLUS Views created for Rich for reporting</b></li> <li>○</li> </ul>			
2.3	Create new Permission in FASAMS: <b>"FASAMS SSMS All Access"</b> <ul style="list-style-type: none"> <li>• This permission allows a user to see all tables in the SSMS database               <ul style="list-style-type: none"> <li>○ This will be the same as the 'Read Only' role in SSMS with the above name</li> </ul> </li> <li>• An SSMS database role will be created to reflect the table access of this permission</li> <li>• Should this be controlled by SE?</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

### 3. CREATE NEW ROLES IN UI

Req. ID	Requirement	Ref. ID	Dev	QA
3.0	Create <b>"FASAMS SSMS Base Table Access"</b> role <ul style="list-style-type: none"> <li>• Role Name: <b>FASAMS SSMS Base Table Access</b> <ul style="list-style-type: none"> <li>○ Permission included                   <ul style="list-style-type: none"> <li>▪ FASAMS SSMS Base Table Access</li> </ul> </li> </ul> </li> <li>• Granting a user this role will:               <ul style="list-style-type: none"> <li>○ create an SSMS account with the same login credential the user uses to access FASAMS PRD</li> <li>○ allow user to see the tables identified is Requirement 2.1</li> </ul> </li> <li>•</li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
3.1	Create <b>"FASAMS SSMS Reporting Db Table Access"</b> role <ul style="list-style-type: none"> <li>• Role Name: <b>FASAMS SSMS Reporting Db Table Access</b> <ul style="list-style-type: none"> <li>○ Permission included                   <ul style="list-style-type: none"> <li>▪ FASAMS SSMS Reporting Db Table Access</li> </ul> </li> </ul> </li> <li>• Granting a user this role will:               <ul style="list-style-type: none"> <li>○ create an SSMS account (if it does not already exist) with the same login credential the user uses to access FASAMS PRD</li> <li>○ allow user to see the tables identified is Requirement 2.2</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>
3.2	Create <b>"FASAMS SSMS All Access"</b> role <ul style="list-style-type: none"> <li>• Role Name: <b>FASAMS SSMS All Access</b> <ul style="list-style-type: none"> <li>○ Permission included                   <ul style="list-style-type: none"> <li>▪ FASAMS SSMS All Access</li> </ul> </li> </ul> </li> <li>• Granting a user this role will:               <ul style="list-style-type: none"> <li>○ create an SSMS account (if it does not already exist) with the same login credential the user uses to access FASAMS PRD</li> <li>○ allow user to see the tables identified is Requirement 2.3</li> </ul> </li> </ul>		<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Ref. ID	Dev	QA
	<ul style="list-style-type: none"> <li>this role will not be blocked from SSMS by the daily ETL job that revokes access to SSMS</li> <li>When a user has the <b>FASAMS SSMS Reporting Db Table Access</b> role or the <b>FASAMS Base Table Access</b> role then an error will generate, preventing the role from being added.               <ul style="list-style-type: none"> <li>Error message: "The user is not permitted to have X role and <b>FASAMS SSMS All Access</b> at the same time. Please remove X role and re-add <b>FASAMS SSMS All Access</b> to resolve"</li> </ul> </li> </ul>			
			<input type="checkbox"/>	<input type="checkbox"/>

#### 4. CREATE NEW ETL PROCESS

Req. ID	Requirement	Ref. ID	Dev	QA
4.0	New ETL process that grants or revokes SSMS access			