FASAMS Requirements Document

Grant MEs Access to Base Tables via SSMS Part 1 WI 410216

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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 |
| 2/3/2021 | 1.1 | Jesse Lindsey | Update doc to split enhancement into 2 parts |
| 2/22/2021 | 1.2 | Jesse Lindsey | Remove Reporting Db role, to be moved to next quarter |
| 3/1/2021 | 1.3 | Jesse Lindsey | Update doc with Nathan’s suggestions |

## 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

## 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.

### Scope Definition

FEI will develop the following:

* Row level security in SSMS based on the submission entity
* New role in SSMS named ODS Table Access
* A solution to prevent performance issues in FASAMS that could be caused by SSMS activity

### Assumptions, Constraints, Dependencies

\*This is the first of a two part enhancement. In part one this enhancement, row level security and SSMS ODS Table Access role will be developed and FEI will manually grant specific indiviudual direct access to SSMS. Those who will receive access will be approved by DCF prior to SSMS access being granted.

## Existing Functionality

Managing Entities currently do not have access to FASAMS base tables.

## Proposed Functionality

Specified managing entity end users will be granted access to the ODS tables in SSMS. Users who have been granted access to SSMS will be able to log into SSMS and will be able to query data submitted by the submitting entities associated with the user’s SSMS account.

## Initial Estimate/ Quote History

|  |  |  |  |
| --- | --- | --- | --- |
| Phase/ Quote Date | Item(s) | Description | Estimate/ Quote |
| 2/3/2021 | 410216 | Initial Estimate | 375 - 750 |
| 2/3/2021 | 410216 | Final Estimate | **Final Estimate:**  Analysis - 20  Dev - 80  Test - 100  Acct / Project Management - 8  **Total - 208** |

# Requirements

## Apply Row Level Security based on Submitting Entity

| Req. ID | Requirement | Ref. ID | Dev | QA |
| --- | --- | --- | --- | --- |
| 1.0 | Create security predicate functions (1 for tables that have the SubmittingEntityKeyReference/DimSubmittingEntityKeyReference column and 1 each that do not have it as they need special logic)   * Security for all tables will be based on SubmittingEntityKeyReference except for a few exceptions   + Exception tables:     - Contract, ProviderLicensingInformation, OutcomeMeasureCoveredService tables       * User will be granted All Access for these tables     - PerformanceOutcomeMeasureTargetPopulation table       * Security to be implemented by joining back to the original POM table by the POM key and using the SubmittingEntityKeyReference * Note: this process will restrict end users from seeing data not associated with their submitting entity or entities. End users should only be able to query data based on their submitting entities assigned to their SSMS profile. |  |  |  |
| 1.1 | Assign predicate function to tables |  |  |  |
| 1.2 |  |  |  |  |
|  |  |  |  |  |

## Create SSMS User Roles (Reporting Database and ODS Only) – research required

| Req. ID | Requirement | Ref. ID | Dev | QA |
| --- | --- | --- | --- | --- |
| 2.0 | Create SSMS role: “**ODS Table Access**”   * \*\*Note: Users with this role will only be able to access SSMS from 1st – 15th and 21st – last day of month   + This will be accomplished via Logon Triggers or a night Job to remove access * This role will grant read-only access to the data in the following tables:  |  |  | | --- | --- | | **Schema** | **Table** | | AcuteCareModule | BedCapacity | | 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 | | 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 | | 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 | Create All Access role (what do DCF employees get now?)   * Jesse to ask the name of the role DCF users currently have   + DB Data Reader |  |  |  |
|  |  |  |  |  |

## Ensure performance does not decrease due to SSMS activity

| Req. ID | Requirement | Ref. ID | Dev | QA |
| --- | --- | --- | --- | --- |
| 3.0 | Limit SSMS access for **ODS Table Access** roles   * The above roles will have access to the secondary server only and will be restricted from accessing SSMS starting on the 15th of each month and ending on the 21st of each month   + This will help ensure the file processing performance does not deteriorate duing the submission window due to large SSMS exports |  |  |  |
|  |  |  |  |  |

## FEI grants users access to SSMS manually

| Req. ID | Requirement | Ref. ID | Dev | QA |
| --- | --- | --- | --- | --- |
| 3.0 | List of users and their email addresses to be populated here (~10 users):   * These users will be identified by DCF (via ME JAD sessions) * Per DCF, there are to be no more than 2 users per submitting eneity |  |  |  |