

**Veterans Health Administration  
Office of Informatics and Analytics  
Strategic Investment Management**

**Requirements Elaboration**

**Multiple Sclerosis Surveillance  
Work Effort #20100105**

*Requirements Elaboration Document*



**March 2015**

## Revision History

Note: The revision history cycle begins once changes or enhancements are requested after the Requirements Elaboration Document has been baselined.

Date	Description	Author
2/20/2015	Initial version	REDACTED
<i>3/17/2015</i>	<i>Technical Writer Review</i>	REDACTED
3/24/2015	<i>Updated with RDM Review</i>	REDACTED

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# **1. Introduction**

## **1.1. Purpose**

The purpose of this Requirements Elaboration Document (RED) is to capture the detailed requirements in support of the Multiple Sclerosis Surveillance Registry (MSSR) Enhancements. This document will describe the business needs and requirements as they pertain to the MSSR Enhancements work effort.

The intended audience for this document is the Office of Information and Technology (OI&T).

## **1.2. Scope**

The scope of this work effort is to provide elaboration of the needs related to the MSSR application. The MSSR application is a front end portal within the Computerized Patient Record System (CPRS) that allows for the entry of data by clinicians, as well as a back end data storage capability. The portal provides a User Interface (UI) for data entry into the database. The tool prompts providers to enter standard demographic and clinical variables important for clinical, quality improvement, and research activities mandated by the Veterans Health Administration (VHA).

The Business requirements outlined for this work effort include the following:

- Expand the list of data sources available for utilization of the MSSR project to include:
  - Inpatient Utilization
  - Outpatient Utilization
  - Prosthetics
  - Decision Support System (DSS) Laboratory
  - DSS Radiographic
  - DSS Pharmacy
  - Vital Signs
  - Vital Status
  - Health Economics Resource Center (HERC) Cost
  - DSS Costs
  - Veterans Benefits Administration (VBA) Enrollment
  - VBA Veterans Service Network (VetsNet)
  - VBA Compensation and Pension Mini Master (C&P Mini)
  - Non-Department of Veterans Affairs (VA) or Fee Based Medications
- Allow entering, retrieving, updating and storing a date of death for a patient
- Allow entering, retrieving, updating and storing a cause of death for a patient
- Provide the capability to generate reports

### 1.3. Description of New Product

The product resulting from the implementation of the listed requirements will be an improved MSSR portal that will provide clinicians with a more robust data set, allowing them to view and monitor the Multiple Sclerosis (MS) patient population more efficiently.

## 2. Overall System Attributes

### 2.1. Dependencies and Constraints

#### 2.1.1. Dependencies

- The MSSR is dependent on data availability from VHA databases
- The MSSR is dependent on CPRS availability
- The success of the MSSR project relies on access to the test environment, regular demonstrations of the changes made by programmers through an internet platform (e.g., Microsoft Lync) and prompt evaluation of the MSSR by the business owners

#### Constraints

ing-acquisition-process

of funding

ilability

must comply with industry and governmental requirements and regulations

must provide standard, universal interfaces to other consuming applications

ies and procedures of VA

#### 2.1.2. Constraints

• The contracting

• Availability of

• Resource ava

• The solution

• The solution

• Security polic

### 2.2. Risks

	Mitigation
ed time-frames used to elicit requirements for this New e is the inherent risk that not capture the full scope of	If additional requirements are needed and determined within scope by a joint effort of business stakeholders and input from development regarding impact mitigation, the Business Requirement and Architecture Management Plan (BRAMP) change process should be adhered to.

Business Risks
Due to the compressed and document the req Service Request, then the requirements do n the request.

## Business Requirements

ds (Epics), Business Requirements (User Narratives), User Stories  
Business Requirements), Enterprise Requirements, and Non-Functional  
s are stored in the Requirements Traceability Matrix (RTM). The RTM is  
eparate document and can be accessed via the Requirements Traceability  
in the New Service Request Database:

## 3. Business

**Note:** Business Need  
(Elaborated B  
Requirements  
stored as a sep  
Link located i

REDACTED

### 3.1. Data Management Requirements

#### MSSR Data Sources Full List

Data Source (Tables)	Exists	Records	Tables	Server
Inpatient Utilization (quarter)	Yes	~ 1.4 million records	9	REDACTED
Outpatient Utilization (quarter)	Yes	~ 102 million records	10	REDACTED
DSS Laboratory	Yes	~ 40 million records	2	REDACTED
Vital Signs	Yes	~ 35 million records	1	REDACTED
Vital Status	Yes	~ 56,000 (# of patients)	1	REDACTED
Non-VA or Fee Based Medications	Yes	~ 1.3 million rows	15	REDACTED
Prosthetics	TBD	~ 125 million records	~ 30	REDACTED
DSS Radiographic	No	~ 1.8 billion records	~ 41	REDACTED
HERC Cost	TBD	TBD	TBD	TBD
VBA Enrollment	TBD	TBD	TBD	TBD
VBA VetsNet	TBD	TBD	TBD	TBD
VBA C&P Mini	TBD	TBD	TBD	TBD
DSS Pharmacy	Yes	~ 210 million records	9	REDACTED
DSS Costs	TBD	TBD	TBD	TBD

**Green** = Extract Transfer Load (ETLs) have been written and data has been stored in MSSR Database Converged Registries Solution (CRS)

**Blue** = ETLs have not been written and process is still being researched.

**Red** = Data sets have a tremendous amount of data, incorrect/incomplete relationships, or have not been located within the Corporate Data Warehouse or the Raw Data Store.

## Appendix A Stakeholders

### Stakeholders

Type of Stakeholder	Description	Responsibilities
Business Owner/Program Office	<b>REDACTED</b> Associate Director for Clinical Care, Multiple Sclerosis Centers of Excellence (MSCoE)-East	Provides final acceptance of RED with sign-off authority. Provides strategic direction to the program. Elicits executive support and funding. Monitors the progress and time lines.
Business Subject Matter Expert (SME)	<b>REDACTED</b> Associate Director for Epidemiology & Outcomes, MSCoE-East	Provides background on current system and processes. Describes features of current systems, including known problems. Identifies features of enhancement.
Business Liaison	<b>REDACT</b> Health Enterprise Systems Manager, Health Systems Informatics  <b>REDACTED</b> Program Analyst Health Data Systems Registry Portfolio	Serves as the liaison between the Program Office (Business Owner) and Product Development throughout the lifecycle.
OI&T Representatives	<b>REDACTED</b> Project Manager, OI&T Product Development	Provide technical background information about the current software and requested enhancements.
Requirements Analyst	<b>REDACTED</b> Requirements Analyst, Strategic Investment Management Requirements Development and Management	Responsible for working with all stakeholders to ensure the business requirements have been accurately recorded for this request.

## Appendix B    References

- VA Handbook 6500 – Information Security Program  
[http://vaww1.va.gov/vapubs/viewPublication.asp?Pub\\_ID=638&FType=2](http://vaww1.va.gov/vapubs/viewPublication.asp?Pub_ID=638&FType=2)

## Appendix C Acronyms

Table 1: Acronyms

Term	Description
C&P Mini	Compensation and Pension Mini Master
CPRS	Computerized Patient Record System
CRS	Converged Registries Solution
DSS	Decision Support System
ETL	Extract Transfer Load
HERC	Health Economics Resource Center
MS	Multiple Sclerosis
MSCoE	Multiple Sclerosis Centers of Excellence
MSSR	Multiple Sclerosis Surveillance Registry
OI&T	Office of Information and Technology
RED	Requirements Elaboration Document
RTM	Requirements Traceability Matrix
SME	Subject Matter Expert
TBD	To Be Determined
UI	User Interface
VA	Department of Veterans Affairs
VBA	Veterans Benefits Administration
VetsNet	Veterans Service Network
VHA	Veterans Health Administration