Decision Support System (DSS)

Version Description Document (VDD)

Software Version 3.0
Patch ECX*3.0*173

December 2018

Document Version 1.0

Department of Veterans Affairs (VA)
Office of Information and Technology (OI&T)

Document Revision History

Date	Document Version	Description	VDD Author / Team Role	VA Group or Contract Company
12/12/2018	1.0	Initial Document Release	Tim Laverty, Developer David Blalock, Tech Writer	Systems Made Simple (SMS) / Leidos
12/18/2018	1.1	Changes made in response to review by HPS	Tim Laverty, Developer	Systems Made Simple (SMS) / Leidos

Deliverable (Product) Version History

Date	Release / Revision	Description	Project Name	VA Department
12/18/2018	ECX*3.0*173	DSS FY 2019 Sustainment Update Patch	Decision Support System Annual Sustainment Project	Product Support

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1   General Configuration Management Information

Table 1 lists the general Configuration Management (CM) information for the proposed changes for the sustainment effort for Fiscal Year (FY) 2019 to the Decision Support System (DSS) application Patch Release ECX*3.0*173. The Patch Release number is assigned by creating a new patch number in the FORUM patch module and includes the following components for the DSS FY 2019 Sustainment Update application:

- Project Namespace: ECX

- DSS Extracts Software Application Version: 3.0

- Patch Number: 173

Table 1: General CM Information

Deliverable (Product) Name	Configuration Manager	VDD Package Name	Project Manager
ECX*3.0*173	Daniel Liedl / Viktoriya Solomatin Configuration/Release Manager	Not Applicable (N/A)	Phillip Williams

Version Description Document   *Configuration Management (CM) Tools*

2 Configuration Management Tools

Rational CM is a collaborative software development/delivery environment based on the Jazz technology platform from IBM. Rational CM provides software version control and workspace management and supports parallel development. This product is part of the Office of Information and Technology (OI&T) Chief Information Officer's (CIO) mandated, standardized toolset for OI&T projects.

Table 2 describes where the project artifacts for the DSS FY 2019 Sustainment Update are located within Rational.

Table 2: Configuration Management Tools

CM Tools	CM Tool Location	Tool Onsite/ Offsite	CM Tool Access Point of Contact	Access Information (Forms or other access requirements)
Rational DOORS Next Generation (RDNG) Requirements Management (RM)	Hines Data Center	Onsite	VA Rational Tools Team	Rational@va.gov Rational Service Request URL
Rational Team Concert (RTC)	Hines Data Center	Onsite	VA Rational Tools Team	Rational@va.gov Rational Service Request URL
Rational Quality Management (QM)	Hines Data Center	Onsite	VA Rational Tools Team	Rational@va.gov Rational Service Request URL

DSS FY19 ECX*3.0*173   2   Release: December 2018

3   Configuration Management of Documents

Project-related documents are managed and controlled within the Rational Tool Suite. Final documentation deliverables are posted in the VA Software Document Library (VDL).

3.1   Rational Team Concert Documents

Table 3 details the Rational Team Concert (RTC) location for the DSS FY 2019 Sustainment Update documents.

Table 3: Rational Team Concert Information

RTC Information	Explanation
RTC URL	DSS (CM) Source Control
RTC Project Area	Rational DSS (CM) Project Area
RTC Team Area	Sustainment Team
RTC Stream	DSS_Docs
Baseline ID	Patch ECX*3.0*173
Components	DSS_Docs
Directory Path	https://www.va.gov/vdl
Documents Included in the Baseline	DSS_VDD DSS_DIBR DSS_UG DSS_TM DSS_DDD

4   Configuration Management Development Files

DSS development is completed in accounts created for, and managed by, the Albany Office of Information Field Office (OIFO). The Albany OIFO has multiple accounts used by various development groups. The following subsections describe the CM development files.

4.1   Rational Team Concert (RTC) Repository

The DSS application source code is developed using the MUMPS language and development environment. Development source artifacts are not maintained in the Rational Team Concert Repository during development. Instead, development source artifacts/builds are produced and maintained on VistA servers. Table 4 lists the RTC information for the development files (source).

Table 4: RTC Information

RTC Information	Explanation
RTC URL	DSS (CM) Source Control
RTC Project Area	RTC DSS FY19 Project Area
RTC Team Area	Sustainment Team
RTC Stream	Patch ECX*3.0*173

4.1.1   Baseline and Component

Prior to the start of development, a baseline snapshot of Delphi and Massachusetts General Hospital Utility Multi-Programming System (MUMPS) source code was created and posted to Rational CM. Additional snapshots are created and posted throughout the development cycle. Table 5 lists the baseline details for the DSS FY 2019 Sustainment Update.

Table 5: Development Files Baseline Details

Name	Description
ECX*3.0*173	This was the initial baseline for DSS FY 2019 Sustainment Update development.
Required Patches: ECX*3.0*170	ECX*3.0*170 was a previously released annual sustainment patch (for FY2019). It contained shared routines which makes it a prerequisite for installing ECX*3.0*173.

4.1.2   Build Information

Builds are performed in the Veterans Health Information Systems and Technology Architecture (VistA) development account(s) for the MUMPS code. Builds will be performed using selected versions of the formally submitted source code contained within the Development Repositories. General build information that results from the build process is maintained in the DSS (CM) repository as detailed in Table 6.

Table 6: Build Information

Name	Description
Build Output	The DSS build process does not generate output.
Build Output Directory	N/A
Target Deployment Location	Enterprise-wide National Release (December 2018). VistA Patches are released in FORUM using Packman messages.

4.1.3   RTC Build Definition

The Product Component build uses the approved product design and all applicable standards, tool sets, and environments. Table 7 describes the DSS FY 2019 Sustainment Update build.

Table 7: RTC Build Definition

Name	Description
ECX*3.0*173	Release Build 1

4.1.4   Build Label or Number

The Package Build consists of the individual application components, and the System Build (Release Packages) includes all packages that comprise the entire release for the specific environment.

Table 8 lists the identifier for the derived object or package produced for deployment and/or install for the DSS FY 2019 Sustainment Update.

Table 8: Build Label or Number

Name	Description
ECX*3.0*173	DSS Version 3.0, Patch 173 DSS FY 2019 Sustainment Update Patch

5   Build and Packaging

The methods of packaging and rules concerning management of a release are determined by OI&T Release Management, working with Product Management to meet the needs of the development team, along with consideration for the operational needs for accepting the product. For VA products being developed, the primary form of a release candidate will be in the form of an electronically packaged release.

5.1   Build Log

The build log is found in the DSS (CM) project under the DSS_Src stream.

5.2   Build System/Process Information

The Kernel Installation and Distribution System (KIDS) is used to manually bundle all the code for distribution. The builds are then sent to FORUM, where they become the basis of the patch that is sent to the sites for installation.

6 Change Tracking

Change tracking identifies a set of work product versions created to resolve a specific Change Request. For MUMPS-based VistA patches, there are currently no CM tools available that are approved for use by the Department of Veterans Affairs (VA).

For DSS, a baseline snapshot of M routines is created and posted to Rational and may be used to observe changes between fiscal year patches. Table 9 lists the Change Tracking information.

Table 9: Change Tracking Information

Change Tracking Tool	Change Tracking Tool Location	Tool Onsite/ Offsite	Change Tracking Tool Access / Point of Contact (POC)	Access Information (Forms or other access requirements)
Rational (CM)	Hines Data Center	Onsite	VA Rational Tools Team	Rational@va.gov Rational Service Request URL

6.1 Rational Team Concert Repository

Table 10 provides details for the RTC Repository used for Change Tracking.

Table 10: RTC Change Tracking Repository Information

RTC Information	Explanation
RTC URL	DSS (CM) Project Dashboard
RTC Project Area	DSS(CM) Project Area
RTC Team Area	Sustainment Team

Table 11 provides details for the DSS FY 2019 Sustainment Update Business User Stories.

Table 11: Business User Stories

Rational ID	Summary
960569	As a user I need more accurate encounter information & costs when a patient is sent ASIH to another facility - ADM
960593	As a user I need more accurate encounter information & costs when a patient is sent ASIH to another facility - Admit Date & Disch Day
960594	As a user, I need more accurate encounter information & costs when a patient is sent ASIH to another facility – Encounter Number
960950	As a user I need more accurate encounter information & costs when a patient is sent ASIH to another facility – Discharge MOV

Rational ID	Summary
960906	As a user, I want to see null Wards and/or null Treating Specialties on the Admission Extract Audit

7 Release (Deployment) Information

The VIP Release management process is required for any release into production environments, for all national releases (limited or widespread), and for all releases that might have national impact.

The HPS Application Coordinator is responsible for coordinating activities for national release of the product or patch and representing Health Product Support (HPS) for the product or patch release. This includes working with the appropriate Sustainment Manager (SM) to ensure a smooth and successful transition of the product from development to sustainment. This project is using the Initial Operating Capability (IOC) model.

Table 12 lists the release (deployment) POC information.

Table 12: Release (Deployment) POC Information

Release Identification	Release Package POC Name	Release Package POC Email
ECX*3.0*173	Stacy Hardy HPS Application Coordinator	Stacy.Hardy@va.gov

Table 13 lists the release package information for DSS FY19.

Table 13: Release Package Information

Release Package (Component) Identified	Release Package Description	Release Package Delivery Method	Release Package Location Identified
ECX*3.0*173	KIDS Build DSS FY 2019 Sustainment Update	FORUM KIDS Build	FORUM.MED.VA.GOV

Appendix A   Acronyms

Table 14 lists the acronyms used in this document.

Table 14: Acronym Table

Acronym	Description
AS	Annual Sustainment
BUS	Business User Story
CIO	Chief Information Officer
CM	Configuration Management
DD	Data Dictionary
DDD	Data Definitions Document
DSS	Decision Support System
FY	Fiscal Year
HPS	Health Product Support
IBM	International Business Machines
ID	Identification
IM/KM	Information Management / Knowledge Management
IOC	Initial Operating Capability
KIDS	Kernel Installation and Distribution System
MCA	Managerial Cost Accounting
MCAO	Managerial Cost Accounting Office
MUMPS	Massachusetts General Hospital Utility Multi-Programming System
N/A	Not Applicable
OI&T	Office of Information and Technology
OIFO	Office of Information Field Office
POC	Point of Contact
QM	Rational Quality Manager
RB	Release Build
RC	Release Coordinator
RDNG	Rational DOORS Next Generation
RM	Requirements Management
RQM	Rational Quality Management
RTC	Rational Team Concert
SCM	Software Configuration Management
SM	Sustainment Manager
TBD	To Be Determined
URL	Uniform Resource Locator
VA	Department of Veterans Affairs
VDD	Version Description Document

Acronym	Description
VDL	VA Software Document Library
VistA	Veterans Health Information Systems and Technology Architecture

Appendix B   Data Dictionary Changes

No Data Dictionary files or fields were modified for the DSS FY 2019 Sustainment Update patch ECX*3.0*173.