Decision Support System (DSS)

Version Description Document (VDD)

Software Version 3.0

Patch ECX*3.0*178

October 2020

Document Version 1.0

Department of Veterans Affairs (VA)

Office of Information and Technology (OI&T)

Document Revision History

Date	Document Version	Description	Author
06/02/2020	1.0	Updates for DSS FY21 (ECX*3.0*178 v11) patch release	Liberty IT Solutions

Deliverable (Product) Version History

Date	Release / Revision	Description	Project Name	VA Department
06/02/2020	ECX*3.0*178 v11	DSS Extracts FY21 Annual Sustainment Patch	Decision Support System Annual Sustainment Project	Product Support

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1 General Configuration Management (CM) Information

Table 1 lists the general CM information for the proposed changes to the sustainment effort for Fiscal Year (FY) 2021 to the Decision Support System (DSS) application Patch Release ECX*3.0*178 v11. 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 FY21 Annual Sustainment application:

- Project Namespace: ECX
- DSS Extracts Software Application Version: 3.0
- Patch Number: 178 v11

Table 1: General CM Information

Deliverable (Product) Name	Configuration Manager	VDD Package Name	Project Manager
ECX*3.0*178 v11	REDACTED	Not Applicable (N/A)	REDACTED

2 Configuration Management (CM) 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 DSS FY21 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	REDACTED
Rational Team Concert (RTC)	Hines Data Center	Onsite	VA Rational Tools Team	REDACTED
Rational Quality Management (RQM)	Hines Data Center	Onsite	VA Rational Tools Team	REDACTED

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 (RTC) Documents

Table 3 details the RTC location for the DSS FY21 documents.

Table 3: Rational Team Concert Information

RTC Information	Explanation
RTC URL	REDACTED
RTC Project Area	Rational DSS (CM) Project Area
RTC Team Area	Sustainment Team
RTC Stream	DSS_Docs
Baseline ID	Patch ECX*3.0*178 v11
Components	DSS_Docs
Directory Path	REDACTED
Documents Included in the Baseline	**DSS FY21 (ECX*3*178) Version Description Document** ECX_3_178_VDD **DSS FY21 (ECX*3*178) Patch Description** ECX_3_178_PD **DSS FY21 (ECX*3*178) User's Guide** ECX_3_178_UG **DSS FY21 (ECX*3*178) Technical Manual** ECX_3_178_TM **DSS FY21 (ECX*3*178) Deployment Installation, Back out, and Rollout Guide** ECX_3_178_DIBRG **DSS FY21 (ECX*3*178) Data Definitions Document** ECX_3_178_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 Massachusetts General Hospital Utility Multi-Programming System (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	`REDACTED`
RTC Project Area	RTC DSS FY21 Project Area
RTC Team Area	Sustainment Team
RTC Stream	Patch ECX*3.0*178

4.1.1 Baseline and Component

Prior to the start of development, a baseline snapshot of 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 DSS FY21.

Table 5: Development Files Baseline Details

Name	Description
ECX*3.0*178 v11	This was the initial baseline for FY21 development.
Required Patches: ECX*3.0*177	ECX*3.0*177 was previously released and contains shared routines which make it a prerequisite for installing ECX*3.0*178.

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 (October 2020). 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 FY21 build.

Table 7: RTC Build Definition

Name	Description
ECX*3.0*178 v11	Release Build 1 Test 4

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 installation for DSS FY21.

Table 8: Build Label or Number

Name	Description
ECX*3.0*178 v11	DSS Version 3.0, Patch 178 DSS FY21 Annual Sustainment 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 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	REDACTED

6.1 Rational Team Concert (RTC) 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	REDACTED
RTC Project Area	DSS(CM) Project Area
RTC Team Area	Sustainment Team

Table 11 provides details for the DSS FY21 Business User Stories.

Table 11: Business User Stories

Rational ID	Summary
1221223	As a user, I need accurate information in the data dictionary.
1221224	As a user, I need MCAO to have accurate logic documentation.
1221055	As a user, I need field logic to be kept in the correct fiscal year.
1221230	As a user, I want information on how the various DSS reports work.
1221046	As a user, I do not need to see a selection of fiscal years in the option to the current fiscal year.
1221234	As a user, I no longer need the obsolete Means Test field.
1221239	As a user I am no longer allowed to use VistA ECQ.
1221240	As a user I no longer need access to the obsolete LAR Extract.
1221076	As a user I want improved data quality and costing of pharmacy data.
1221130	As a user I need SAS programming to match what SAS will do in later processing.
1221131	As a user I want to cut costs of observation stop codes.
1221170	As a user, I want to be able to distinguish between new prescriptions and renewals.

Rational ID	Summary
1244014	As a user, I want to know the administering clinic of IV chemotherapy drugs.
1272084	As a User, I need to modify on-screen text displayed when the Pharmacy Pre-Extract Incomplete Feeder Key Report is selected.

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 HSP Application Coordinator is responsible for coordinating the activities for the national release of the product or patch and representing Health Services Portfolio (HSP) 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*178 v11	HSP Application Coordinator	REDACTED

Table 13 lists the release package information for DSS FY21.

Table 13: Release Package Information

Release Package (Component) Identified	Release Package Description	Release Package Delivery Method	Release Package Location Identified
ECX*3.0*178 v11	KIDS Build DSS FY21 annual sustainment update	FORUM KIDS Build	REDACTED

Appendix A   Acronyms

Table 14 lists the acronyms used in this document.

Table 14: Acronym Table

Acronym	Description
CIO	Chief Information Officer
CM	Configuration Management
DDD	Data Definitions Document
DSS	Decision Support System
ECQ	Quasar Extract
FY	Fiscal Year
HSP	Health Services Portfolio
IBM	International Business Machines
ID	Identification
IOC	Initial Operating Capability
KIDS	Kernel Installation and Distribution System
LAR	Lab Results Extract
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
RDNG	Rational DOORS Next Generation
RM	Requirements Management
RQM	Rational Quality Management
RTC	Rational Team Concert
SAS	Statistical Analysis System
SM	Sustainment Manager
URL	Uniform Resource Locator
VA	Department of Veterans Affairs
VDD	Version Description Document
VDL	VA Software Document Library
VistA	Veterans Health Information Systems and Technology Architecture

Appendix B   Data Dictionary Changes

Table 15 is a list of the Data Dictionary files and fields modified for DSS FY21 patch ECX*3.0*178.

Table 15: Data Dictionary Changes

File Name	File Number	Field Name	Field Number
ADMISSION EXTRACT	727.802	PLACEHOLD MEANS TEST	25
ADMISSION EXTRACT	727.802	ERI	76
BCMA EXTRACT	727.833	PLACEHOLD MEANS TEST	50
BCMA EXTRACT	727.833	ERI	76
BLOOD BANK EXTRACT	727.829	ERI	22
CLINIC EXTRACT	727.827	PLACEHOLD MEANS TEST	71
CLINIC EXTRACT	727.827	ERI	86
EVENT CAPTURE LOCAL EXTRACT	727.815	ERI	83
IV DETAIL EXTRACT	727.819	PLACEHOLD MEANS TEST	42
IV DETAIL EXTRACT	727.819	ERI	80
LABORATORY EXTRACT	727.813	ERI	38
PRESCRIPTION EXTRACT	727.81	PLACEHOLD MEANS TEST	69
PRESCRIPTION EXTRACT	727.81	ERI	84
PRESCRIPTION EXTRACT	727.81	REMARKS	105
PROSTHETICS EXTRACT	727.826	ERI	75
RADIOLOGY EXTRACT	727.814	ERI	43
SURGERY EXTRACT	727.811	ERI	77
UNIT DOSE LOCAL EXTRACT	727.809	PLACEHOLD MEANS TEST	29
UNIT DOSE LOCAL EXTRACT	727.809	ERI	75