

Version Description Document (VDD)

Event Capture System (ECS) Graphical User Interface Software Version 2.0 Patch EC*2.0*145



June 2019

Document Version 2.0

Department of Veterans Affairs

Document Revision History

Date	Document Version	Description	VDD Author / Team Role	VA Group or Contract Company
2/6/2019	2.0	Updated document to reflect EC*2.0*145 patch release	David Blalock, Technical Writer	TeamSMS/Leidos
7/20/2018	1.0	Initial document release for EC*2.0*139	Tim Laverty, Developer	TeamSMS/Leidos

Deliverable (Product) Version History

Date	Release / Revision	Description	Project Name	VA Department
6/26/2019	EC*2.0*145 RB5 T1	Implement ECS FY19 business requirements	Event Capture Annual Sustainment Project	Office of Information & Technology (OI&T)
7/20/2018	EC*2.0*139 RB1 T1	ECS FY18 Annual Sustainment Patch	Event Capture Annual Sustainment Project	Office of Information & Technology (OI&T)

VistA Patch Test Version History

GUI Application Version EC*2.0*145	Test Version	Internal Client Version 2.6.0.0
Release Build 1 (RB1)		1
Release Build 2 (RB2)		1
Release Build 3 (RB3)		1
Release Build 4 (RB4)		1
Release Build 5 (RB5)	1	1

VA requires the Version Description Document (VDD) to identify, maintain, enhance, and recreate the product (IT asset) throughout its lifecycle. The VDD reinforces strong risk management practices and helps protect VA from loss of the product (IT asset), which is especially important with a regular rotation of personnel and contractors.

The VDD is a mandated document that will be verified prior to Release.

The VDD is the authoritative inventory and roadmap of all Configuration Items that make up the deployable product/system. Configuration Items include source code files, builds/packaging, tools, baselines, locations, and associated product files. The VDD is itself a Configuration Item maintained under change control in the TRM-approved configuration management system, which is part of the VA Federated Configuration Management Data Base (CMDB).

Project Managers (PMs) and Configuration Managers use the VDD template as a tool for managing Configuration Items and baselines associated with the deployable product. It is the responsibility of the PM to ensure the processes are followed within the product build process (ProPath, Product Build: BLD-1 Develop Product Component). The expectation is for the VDD to be controlled as a source file with one VDD per Product. There may be multiple versions being managed within the SCM repository, all following the baseline process. The IT Configuration Managers (or IT Architect/Development Leads) ensure that creation and modification of the Product's VDD is integrated with any parallel activities being performed on the said product. The Configuration Manager creates/updates the VDD each time the deliverable (file set) leaves the development environment, such as for testing or deployment. The VDD is the representation and result of the Software Configuration Management Procedures being followed. The Product's Procedures, along with work instructions, are to be created and maintained by the IT Configuration Managers (or IT Architect/Development Leads). For product procedure information, refer to the Software Configuration Management Procedures Template (ProPath, Project Planning: PRP 3.7). The PM is responsible for ensuring the Configuration Manager maintains versions of the VDD and deliverables (files) in the TRM-approved configuration management system.

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General Configuration Management (CM) Information

Table 1 lists the general CM information for the proposed changes for the sustainment effort for Fiscal Year (FY) 19 to the Event Capture System (ECS) application Patch Release EC*2.0*145.

Table 1: General CM Information

Deliverable (Product) Name	Configuration Manager	VDD Package Name	Project / Delivery Team
EC*2.0*145 RB5 T1	Viktoriya Solomatin, Configuration/Release Manager	Not Applicable (N/A)	Event Capture System (ECS) / HPS

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 (CIO)'s mandated standardized toolset for OI&T projects.

Table 2 describes where the project artifacts for ECS FY19 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 https://vaww.oed.portal.va.gov/communities/OSCTM/toolsmgmt/Rational%20Tools/Pages/SR.aspx
Rational Team Concert (RTC)	Hines Data Center	Onsite	VA Rational Tools Team	Rational@va.gov https://vaww.oed.portal.va.gov/communities/OSCTM/toolsmgmt/Rational%20Tools/Pages/SR.aspx
Rational Quality Management (RQM)	Hines Data Center	Onsite	VA Rational Tools Team	Rational@va.gov https://vaww.oed.portal.va.gov/communities/OSCTM/toolsmgmt/Rational%20Tools/Pages/SR.aspx

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).

Rational Team Concert (RTC) Documents

Table 3 details the RTC location for the ECS FY19 documents.

Table 3: Rational Team Concert Documents Information

RTC Information	Explanation
RTC URL	ECS (CM) Source Control
RTC Project Area	Rational ECS (CM) Project Area
RTC Team Area	Sustainment Team
RTC Stream	ECS_Docs(ECS (CM)) ECS_Src (ECS (CM))
Baseline ID	EC_2_145
Components	4: ECS_Docs_EC_2_145 Release Baseline 15: ECS_Src_EC_2_145 Release Baseline
Directory Path	https://www.va.gov/vdl
Documents Included in the Baseline	Baseline ECS_Docs_EC_2_145 Release Baseline contains: ECS_VDD.doc ECS_VDD.pdf ECS_DIBR.doc ECS_DIBR.pdf ECS_UG.doc ECS_UG.pdf ECS_TM.doc ECS_TM.pdf

Configuration Management Development Files

ECS 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.

Rational Team Concert (RTC) Repository

Rational Team Concert source control uses a secure repository that is hosted on a VA server and accessed by either a Web client or an Eclipse Integrated Development Environment (IDE) client. The repository stores objects, such as streams, work items, and workspaces, that manage change flow. It also stores controlled artifacts that represent, and can be retrieved as, files or folders in a file system. Table 4 lists the RTC information for the development files (source).

Table 4: Rational Team Concert Repository Information

RTC Information	Explanation
RTC URL	ECS (CM) Source Control
RTC Project Area	Rational RTC ECS FY19 Project Area
RTC Team Area	N/A
Stream	ECS_Docs (ECS (CM)) ECS_Src (ECS (CM))

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 is created and posted to Rational RTC. Additional snapshots are created and posted throughout the development cycle. Table 5 lists the baseline details for ECS FY19.

Table 5: Development Files Baseline Details

Name	Description
14: EC*2.0*145 (FY19 Release Build 4 After UFT)	This baseline included development completed in Sprints 6-8
13: EC*2.0*145 (FY19 Sprint 5 end)	This baseline included development completed in Sprints 3-5
12: EC*2.0*145 (FY19 Sprint 2 end)	This baseline included development completed at the end of Sprint 2
11: FY19 Sprint 2 in process	This baseline included development completed in Sprint 1 and the first part of Sprint 2
10 :EC*2.0*139 (FY18 Release Build 3)	This was the initial baseline for FY19 development

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 ECS (CM) repository as detailed in Table 6.

Table 6: Build Information

Name	Description
Build Output	The ECS build process does not generate output.
Build Output Directory	VistA Patches and Graphical User Interface (GUI) executable are released in FORUM using Packman messages.
Target Deployment Location	Enterprise-wide National Release (June 2019) Install Location - AITC

RTC Build Definition

The Product Component build uses the approved product design and all applicable standards, tool sets, and environments. Table 7 describes the ECS FY19 build.

Table 7: RTC Build Definition

Name	Description
EC*2.0*145 RB5 T1	Patch EC*2.0*145 Release Build 5 Test Version 1

Build Label or Number

Each build label represents a date and time-sensitive baseline ID within the Software Configuration Management (SCM) environment that supports logging, reporting, and restoration capabilities. 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 ECS FY19.

Table 8: Build Label or Number

Name	Description
EC*2.0*145 RB5 T1	ECS Version 2.0, Patch 145; ECS FY19 Annual Sustainment Patch Incrementally numbered release builds. Release Build (RB) 1, RB2, etc. (Public-Facing) Test Version 1
2.6.0.0	Internal Client Version Number

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.

Build Log

The build log is found in the ECS (CM) project under the ECS_Src stream.

Build System/Process Information

The Event Capture (EC) MUMPS code does not have a build process. The GUI EXE is built using the Delphi IDE. The Kernel Installation and Distribution System (KIDS) is used to manually bundle all of 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.

Change Tracking

Change tracking identifies a set of work product versions created to resolve a specific Change Request.

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)	Plan Name	Access Information (Forms or other access requirements)
Rational Team Concert (RTC)	Hines Data Center	Onsite	VA Rational Tools Team	ECS FY19 Backlog	Rational@va.gov https://vawww.oed.portal.va.gov/communities/OSCTM/toolsmgmt/Rational%20Tools/Pages/SR.aspx

Rational Team Concert (RTC) Repository

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

Table 10: Rational Team Concert Change Tracking Repository Information

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

Changes Since Last VDD

Table 11 provides details for the ECS FY19 Rational Team Concert work items reflecting the changes made to the application.

Table 11: Rational Team Concert Work Items

Work Item ID	Summary
794745	FY19-16 As a multi-division CPRS user, I want to be able to access the Event Capture Interface through the CPRS Tools menu without providing additional credentials.
794750	FY19-10 As a user, I want the columns to be sorted numerically.
794752	FY19-7 As a spreadsheet user, I want to be prevented from importing Excel spreadsheets that do not utilize the format provided in the standard template.
794753	FY19-1 As a user, I want to have additional choices for Ordering Section on the DSS Unit Setup Screen.
794754	FY19-5 As a user, I want to be able to cancel the export of any report.

Work Item ID	Summary
804943	FY19-06 As a user, I want the form inactive beyond the Date/Time until a Date/Time is set on the 3 Data Entry screens.
804956	FY19-20 As a user, when using options on the Data Entry menu, I do not want the Date Time to be automatically populated with the current date and time when the DSS Unit being used does not have this parameter set to "Now".
804967	FY19-22 As any user, I want 30 seconds to respond to all time limited application prompts. This will allow for adequate time to respond to application prompts.
810857	FY19-4 As a user, I do not want to see any 'ghost' DSS Units.
812223	FY19-24 As any user, I want to be able to export all reports from the print preview screen.
812228	FY19-03 As a user, I need to see all Clinic related information on the Event Code Screens with CPT Codes Report.
812229	FY19-17 As a screen reader user, I want enhanced screen reader performance throughout the application. This will provide an improved screen reader experience.
812231	FY19-11 As a user, I never want to see the title of an exported report in the spreadsheet itself.
812233	FY19-15 As a user, I want the Event Capture Encounters Report to include Procedure Volume with the total number of procedures for each encounter.
812234	FY19-14 As any user, I want Primary Diagnosis auto-population during data entry to function appropriately in line with desired business logic.
812235	FY19-02 As a user, I want to be able to select Active, Inactive or Both on the Management Menu Event Code Screens form.
812236	FY19-23 As any user, I want the Provider Summary Report, Procedure Reasons Report, Event Code Screen with CPT Codes Report, and Ordering Section Summary Report to display workload for the DSS Unit(s) selected.
812237	FY19-09 As a user, I want to know what data fields are required for spreadsheet upload.
812238	FY19-18 As a voice recognition application user, I want enhanced voice recognition navigation throughout the application.
826490	FY19-25 As a user, I want to see more recent visits including those through the end of the current day.
826496	FY19-26 As a user, I want to be able to enter workload early for visits scheduled for the current day.
826500	FY19-27 As a state home spreadsheet user, if I only have one DSS Unit for a given Location, it should, by default, be selected.

Work Item ID	Summary
843592	FY19-28 As an ECS downstream user, I need to know which state home patients are paid for at the adjudicated SC rate vs. the cumulative SC rate.

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 Health Product Support Application Coordinator (AC) is responsible for coordinating the activities for the national release of the product or patch, 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
EC*2.0*145 RB5 T1	Theresa C. Morris HPS Application Coordinator	Theresa.Morris@va.gov

Table 13 lists the release package information for ECS FY19.

Table 13: Release Package Information

Release Package (Component) Identified	Release Package Description	Release Package Delivery Method	Release Package Location Identified
EC*2.0*145 T1	KIDS Build ECS FY19 annual sustainment update	FORUM KIDS Build	FORUM.MED.VA.GOV Physical Location – AITC
EC_2_P145.zip	ECS GUI Application file	Distributed to Installation Teams	VistA Site Directory

Appendix A Acronyms

Table 14 lists the acronyms used in this document.

Table 14: Acronym Table

Acronym	Description
AC	Application Coordinator
CCM	Change Configuration Management
CIO	Chief Information Officer
CM	Configuration Management
CPT	Current Procedural Terminology
DSS	Decision Support System
EC	Event Capture
ECS	Event Capture System
FY	Fiscal Year
GUI	Graphical User Interface
HPS	Health Product Support
IBM	International Business Machines
ID	Identification
IDE	Integrated Development Environment
IOC	Initial Operating Capability
KIDS	Kernel Installation and Distribution System
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
PM	Project Manager
POC	Point of Contact
RB	Release Build
RDNG	Rational DOORS Next Generation
RM	Requirements Management
RQM	Rational Quality Management
RTC	Rational Team Concert
SCM	Software Configuration Management
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

Template Revision History

Date	Version	Description	Author
March 2017	1.9	Change tool references from CCM to RTC Change Build Output blue text to reflect artifacts instead of locations Update the RTC url from https://ccm.rational.oit.va.gov:9443/ccm to https://clm.rational.oit.va.gov/ccm/web	Configuration Management, EP MO
April 2016	1.8	Updated VIP policies and processes Updated to remove ClearCase and ClearQuest references Correction and revision of general text	Configuration Management, EP MO
March 2016	1.7	Updated to align with new VIP policies and processes	VIP Business Office
December 2015	2.3	Correct alt. text in tables	Process Management
October 2015	2.2	Update alternate text in tables, adjust spacing between tables, and allow spell and grammar checking in proofing	Process Management
June 2015	2.1	Edited to conform with latest Section 508 guidelines and remediated with Common Look Office tool	Process Management
May 2015	2.0	Major revision from PMAS Process Improvement Lockdown	VA OI&T ESE
May 2015	1.3	Reordered cover sheet to enhance SharePoint search results	Process Management
October 2014	1.2	Detailed alternate text added to each table, updated fonts, added disclaimer to instructional text regarding modification of template by end user, validated Section 508 conformance with MS Word utility, and remediated with Common Look Office tool	Process Management
March 2013	1.1	Formatted to current ProPath documentation standards and edited to conform with latest Alternative Text (Section 508) guidelines	Process Management
January 2013	1.0	Initial Version	PMAS Business Office