Clinical Case Registries (CCR)
Version 1.5

Release Notes

November 2015
Patch ROR*1.5*26

Department of Veterans Affairs

Office of Enterprise Development

Health Data Systems – Registries

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Revision History

Date	Description	Author	Role
November, 2015	Final release for Patch ROR*1.5*26. See Table 1 for details. Updated Section 2.0, Table 1, Table 2, Section 3, Table 4, Section 6, Figure 1.	John Sanders Blake Jan Terry Kopp Steve Greenacre Laura Hilby	Project Manager Harris Project Manager M Developer Software Quality Assurance Analyst Delphi Developer
September, 2015	Final release for Patch ROR*1.5*25. See *User Manual* for details.	John Sanders Terry Kopp Edward Micyus	Project Manager M Developer Delphi Developer
April, 2015	Final release for Patch ROR*1.5*27. See *User Manual* for details.	John Sanders Terry Kopp Edward Micyus	Project Manager M Developer Delphi Developer
October, 2014	Final release for Patch ROR*1.5*24. See *User Manual* for details.	John Sanders Terry Kopp Lori Torrance Edward Micyus	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer
August, 2014	Final release for Patch ROR*1.5*22. See *User Manual* for details.	John Sanders Terry Kopp Lori Torrance Edward Micyus	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer
April, 2014	Final release for Patch ROR*1.5*21. See *User Manual* for details.	John Sanders Terry Kopp Lori Torrance Edward Micyus	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer
March, 2013	Final release for Patch ROR*1.5*20. See *User Manual* for details.	John Sanders Connie Ray Steven Baxter Edward Micyus Karen Jocius	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
August, 2014	Final release for Patch ROR*1.5*19. See *User Manual* for details.	Taraiza Bennett Dave Getman Matt Dill /Ferdi	VA Project Manager HP Project Manager M Developer

Date	Description	Author	Role
		Frankson Brenda Johnson Jeff Swesky Ellen Phelps	Software Quality Assurance Analyst Delphi Developer Tech Writer
August, 2012	Final release for Patch ROR*1.5*18. See *User Manual* for details.	John Sanders Connie Ray Linda Berry Edward Micyus Dan Zaudtke	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
April, 2012	Final release for Patch ROR*1.5*17. See *User Manual* for details.	John Sanders Connie Ray Linda Berry Edward Micyus Dan Zaudtke	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
September, 2011	Final release for Patch ROR*1.5*15. See *User Manual* for details.	John Sanders Connie Ray Linda Berry Edward Micyus Dan Zaudtke	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
March, 2011	Patch ROR*1.5*14. See *User Manual* for details.	Vida Dunie Angela Saunders Linda Berry Ed Micyus	Tech Writer M Developer Software Quality Assurance Analyst Delphi Developer
September, 2010	Final release for Patch ROR*1.5*13. See *User Manual* for details.	Kenneth Rikard	Project Manager
April, 2010	Final release for Patch ROR*1.5*10: See *User Manual* for details.	Edward Micyus Angela Saunders Linda Berry VJ McDonald	Delphi Developer M Developer Software Quality Assurance Analyst Technical Writer
July, 2009	Patch ROR*1.5*8: See *User Manual* for details.	Kenneth Rikard Edward Micyus Victor Carr Angela Saunders	Project Manager Delphi Developer M Developer M Developer

Date	Description	Author	Role
		VJ McDonald	Technical Writer
		Linda Berry	Software Quality Assurance Analyst
July, 2008	Patch ROR*1.5*7: See *User Manual* for details.	(unknown)	
May, 2008	Patch ROR*1.5*6: See *User Manual* for details.	(unknown)	
March, 2008	Patch ROR*1.5*5: See *User Manual* for details.	(unknown)	
December, 2007	Patch ROR*1.5*4: See *User Manual* for details.	(unknown)	
November, 2007	Patch ROR*1.5*3: See *User Manual* for details.	(unknown)	
October, 2007	Patch ROR*1.5*2: See *User Manual* for details.	(unknown)	
October 2006	Patch ROR*1.5*1: See *User Manual* for details.	Christine Beynon	
February 2006	Completely updated for CCR Version 1.5	Christine Long	
June 2002	Initial release of CCR Version 1.0	(unknown)	

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1.0 Introduction

The Clinical Case Registries (CCR) software application collects data on the population of veterans with certain clinical conditions, namely Hepatitis C and Human Immunodeficiency Virus (HIV) infections at the local and national level as well as 27 local, generic registries.

Data from the registries is used for both clinical and administrative reporting on both a local and national level. Each facility can produce local reports (information related to patients seen in their system). Reports from the national database are used to monitor clinical and administrative trends, including issues related to patient safety, quality of care, and disease evolution across the national population of patients.

The software uses pre-defined selection rules that identify patients with possible Hepatitis C and/or HIV (such as a disease related *International Statistical Classification of Diseases and Related Health Problems*, ninth edition—commonly abbreviated as "ICD-9" or *International Statistical Classification of Diseases and Related Health Problems*, tenth edition—commonly abbreviated as "ICD-10"— code or a positive result on an antibody test) and adds them to the registry in a pending state. Pending patients are reviewed by the local registry coordinator and if the data confirm the diagnosis, the local registry coordinator confirms the patient in the registry.

Each night a background process transmits a set of predefined data via Health Level 7 (HL7) message to the national CCR database at the Corporate Data Center Operations (CDCO). Data from both the Hepatitis C and HIV registries, and the local registries, are aggregated in the same message. If there is more new data than is allowed by the registry parameter for a single CCR HL7 batch message (the current limit is 5 megabytes), the software will send several messages during a single night. The CCR software creates a limited set of database elements to be stored locally in the Veterans Health Information Systems and Technology Architecture (VistA) system, and focuses on assuring that the local listing is complete and accurate, that the desired data elements are extracted, and that data elements are appropriately transmitted to the national database.

The registries at each facility will store selected HIV and Hepatitis C data from 1985 to the present.

CCR provides these key features:

- Automates the development of a local list of patients with evidence of HIV or Hepatitis C infection.
- Automatically transmits patient data from the local registry lists to a national database.
- Provides robust reporting capabilities.

CCR also provides the following functions:

- Facilitates the tracking of patient outcomes relating to treatment.
- Identifies and tracks important trends in treatment response, adverse events, and time on therapy.
- Monitors quality of care using both process and patient outcome measures.

1.1   Purpose

These Release Notes cover the new features provided to Clinical Case Registries (CCR) users in patch ROR*1.5*26.

1.2   Audience

This document targets users and administrators of the Clinical Case Registries (CCR) product and applies primarily to the changes made between this newest release and previous release packages of the software.

2.0 What's New with ROR*1.5*26

Patch ROR*1.5*26 includes enhancement modifications to version 1.5 of the Clinical Case Registries (CCR) application that correct inherent shortcomings in the existing software and enhance other existing capabilities. ROR*1.5*26 contains the following enhancements (E), modifications (M) and fixes (F):

Table 1 – Changes for Patch 26

#	Description	Type
1	Conversion of GUI from Delphi 2006 to Embarcadero XE5.	E
2	Enhanced reporting functionality: A new Selection Panel on each report to allow the user to limit the report to Veterans based on the two categories of No SVR and SVR. This selection panel will not be included on the DAA Lab Monitoring, Potential DAA Candidate, and SVR reports.	E
3	Enhanced reporting functionality: Updated the existing Potential Direct Acting Antiviral (DAA) Candidate report by adding an optional filter based on Fibrosis-4 (FIB-4) score and Liver Score Date Range.	E
4	Enhanced reporting functionality: Updated the existing save as functionality so when a user saves a report as a .CSV file, the information for all Veterans appears in one worksheet	E
5	Create New Diagnosis group for Liver Transplantation within the Common Templates. The new group will be defined using ICD-9 and ICD-10 diagnosis codes.	E
6	A situation reported in Remedy ticket INC000001240065 that involved the registry initialization job starting to run within a time period when it was supposed to be suspended has been fixed.	F
7	Create two new Local Registries, Total Knee Replacement and Total Hip Replacement. The new local registries will be defined using ICD-9, ICD-10, and CPT Codes.	E
8	Update M version check	E

#	Description	Type
9	The version of the CCR software is updated to 1.5.26	E
10	Modified Custom Controls within the CCR GUI to ensure Section 508 Certification.	E
11	The post-initialization routine for this patch will: - Add the Liver Transplantation diagnosis group to common templates in the PARAMETERS file (#8989.5) - Add new panels for FIB-4 and SVR to the appropriate reports. - Add references to the new inpatient procedures fields to ROR METADATA file (#799.2). - Add the 2 new registries to the ROR ICD SEARCH file (#798.5) along with their corresponding procedure codes (ICD-9, ICD-10 and CPT). - Add new registries to the LIST ITEM file (#799.1) for each of the 2 registries added in this patch that are needed to allow the proper display of the Result Ranges panels on the BMI by Range, Liver Score by Range and Renal Function by Range reports. - Schedule the Initialize new registries (one time) [ROR INITIALIZE] option to run.	E

Table 2 – Global Updates for Patch ROR*1.5*26

File Name and Number	Update
DIALOG (#.84)	Entries modified: 7981003.002 General Utiliz. and Demogr (CSV) 7981008.002 VERA Reimbursement Report (CSV) 7981011.002 Patient Medication History (CSV) 7981012.002 Combined Meds and Labs Report(CSV) 7981013.002 Diagnoses(CSV) 7981015.002 Procedures(CSV) 7981018.002 BMI Report by Range (CSV) 7981020.002 Renal Function by Range (CSV) 7981021.001 Potential DAA Candidates (HTML) 7981021.002 Potential DAA Candidates (CSV) 7981022.002 DAA Lab Monitoring(CSV) 7981023.001 Sustained Virologic Reponse (HTML) 7981023.002 Sustained Virologic Reponse (CSV) 7981999.001 Common XSL templates (HTML) 7981999.002 Common XSL templates (CSV)

File Name and Number	Update
ROR REGISTRY PARAMETERS (#798.1)	Entries New: VA TOTAL HIP VA TOTAL KNEE Entries modified: VA ALS VA ALZHEIMERS VA AMPUTATION VA APNEA VA BLIND VA BREAST CA VA CHF VA COLORECTAL CANCER VA COPD VA CRD VA CVD VA DIABETE VA DYSLIPIDEMIA VA HCC VA HEPC VA HIV VA HTN VA IHD VA LUNG CANCER VA MELANOMA VA MENTAL HEALTH VA MULTIPLE SCLEROSIS VA OSTEOARTHRITIS VA OSTEOPOROSIS VA PANCREATIC CANCER VA PROSTRATE CANCER VA RHEUM
ROR SELECTION RULE (#798.2)	Entries New: VA TOTAL HIP CPT PTF PROC VA TOTAL HIP ICD PTF PROC VA TOTAL HIP ICD PTF PROC (ICD10) VA TOTAL HIP PTF VA TOTAL HIP PTF (ICD10) VA TOTAL HIP PROBLEM VA TOTAL HIP PROBLEM (ICD10) VA TOTAL HIP VPOV VA TOTAL HIP VPOV (ICD10) VA TOTAL KNEE CPT PTF PROC VA TOTAL KNEE ICD PTF PROC VA TOTAL KNEE ICD PTF PROC (ICD10) VA TOTAL KNEE PTF VA TOTAL KNEE PTF (ICD10) VA TOTAL KNEE PROBLEM VA TOTAL KNEE PROBLEM (ICD10) VA TOTAL KNEE VPOV VA TOTAL KNEE VPOV (ICD10) Entries modified:

File Name and Number	Update
ROR ICD SEARCH (#798.5)	Entries New: VA TOTAL HIP VA TOTAL KNEE Entries modified:
ROR LIST ITEM (#799.1)	Entries New: APRI (VA TOTAL HIP) APRI (VA TOTAL KNEE) BMI(VA TOTAL HIP) BMI(VA TOTAL KNEE) Creatinine clearance by Cockcroft-Gault (VA TOTAL HIP) Creatinine clearance by Cockcroft-Gault (VA TOTAL KNEE) eGFR by CKD-EPI (VA TOTAL HIP) eGFR by CKD-EPI (VA TOTAL KNEE) eGFR by MDRD (VA TOTAL HIP) eGFR by MDRD (VA TOTAL KNEE) FIB-4 (VA TOTAL HIP) FIB-4 (VA TOTAL KNEE) MELD (VA TOTAL HIP) MELD (VA TOTAL KNEE) MELD-Na (VA TOTAL HIP) MELD-Na (VA TOTAL KNEE) Registry Lab (VA TOTAL HIP) Registry Lab (VA TOTAL KNEE) Entries modified:
ROR METADATA (#799.2)	Entries New: INPATIENT ICD INPATIENT CPT Entries modified:
ROR XML ITEM(#799.31)	Entries New: SVR Entries modified:
ROR REPORT PARAMETERS(#799.34)	Entries New: Entries modified: BMI by Range Clinic Follow Up Combined Meds and Labs Current Inpatient List Diagnoses General Utilization and Demographics Inpatient Utilization Lab Utilization List of Registry Patients Liver Score by Range Outpatient Utilization Patient Medication History Pharmacy Prescription Utilizatization

File Name and Number	Update
	Potential DAA Candidates Procedures Radiology Utilization Registry Lab Tests by Range Registry Medications Renal Function by Range

3.0 Obtaining Software and Documentation

The CCR 1.5 software distributives and documentation files are available for downloading from the following Office of Information Field Offices (OIFO) [ANONYMOUS SOFTWARE] directories.

Table 3 – Software and Documentation Sources

OIFO	FTP Address	Directory
Albany	ftp.fo-albany.med.va.gov	ANONYMOUS.SOFTWARE
Hines	ftp.fo-hines.med.va.gov	ANONYMOUS.SOFTWARE
Salt Lake City	ftp.fo-slc.med.va.gov	ANONYMOUS.SOFTWARE

Table 4 – Files Included in Distribution

File Name	Contents	Retrieval Format
ROR1_5P26GUI.ZIP	Zipped GUI distributive	BINARY
ROR1_5P26DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOCX formats: ► User Manual (ROR1_5_26UM)	BINARY
ROR1_5P26DOC2.ZIP	► Installation and Implementation Guide (ROR1_5_26IG) ► Technical Manual / Security Guide (ROR1_5_26TM) ► Release Notes (ROR1_5_26RN)	BINARY

Patch `ROR*1.5*26` is available in the National Patch Module on FORUM[1] as a PackMan message.

4.0 VistA Documentation on the Intranet

Documentation for this product, including all of the software manuals, is available in the VistA Document Library (VDL). The Clinical Case Registries documentation may be found at http://www.va.gov/vdl/application.asp?appid=126.

For additional information about the CCR, access the CCR Home Page at the following address: http://VistA.med.va.gov/ClinicalSpecialties/CCR/.

Training links and information are also available at http://vaww.VistAu.med.va.gov/VistAu/CCR/.

5.0 Specific Instructions

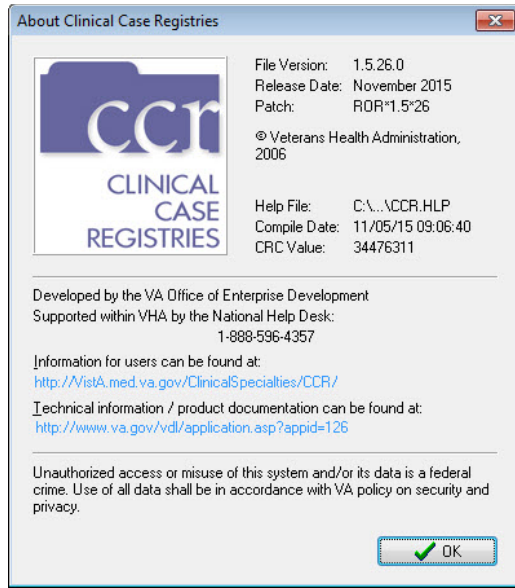(See the *CCR Installation and Implementation Guide* for installation instructions.)

6.0 Matching GUI Version to Patch

WARNING If the **GUI** and **VistA** software versions do not match, users may encounter problems with the application. For example, if the site has installed Patch `ROR*1.5*26`, users' **GUI** installations should also be at Patch level 26. Users can determine the **GUI** version by using the Help | About CCR menu option.

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[1] FORUM is the VA's national-scale email system. FORUM uses the VistA mail software and provides an excellent interface for threaded messages that can take the form on ongoing discussions. The national patch module is a VistA application that helps developers to manage the numbering, inventory, and release of patches. Patches are developed in response to request submissions and an error reporting request system known as National Online Information Sharing. A process called the Kernel Installation Distribution System (KIDS) is used to roll up patches into text messages that can be sent to sites along with installation instructions. The patch builds are sent as text messages via email, and the recipient (*e.g.,* a site administrator) can run a PackMan function to unpack the KIDS build and install the selected routines.

See http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.100.5551&rep=rep1&type=pdf

Figure 1 – Help | About Pane

This menu option displays the About Clinical Case Registries screen. It shows basic information about the current file version including the release date, patch number, similar to the screen shown here where the Clinical Case Registries software was developed and the software compile date. Click **[OK]** or press the **< Esc >** key to close the pane.

Since CCR*1.5*10, this window meets current VA GUI Standards and Conventions requirements.

Users may download the latest GUI software as outlined in 3.0 above.

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