

Clinical Case Registries (CCR)

Version 1.5



Release Notes

April 2018

Patch ROR*1.5*32

**Department of Veterans Affairs
Office of Enterprise Development
Health Data Systems – Registries**

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Revision History

Date	Description	Author	Role
April, 2018	Final release for Patch ROR*1.5*32. See Table 1 for details.	John Sanders Sami Alsahhar Leslie Yager Edward Micyus	Project Manager M Developer Software QA Analyst Delphi Developer
November, 2017	Final release for Patch ROR*1.5*31. See <i>User Manual</i> for details.	John Sanders Mary Anne Ferrarese Sami Alsahhar Heather Smith Leslie Yager Edward Micyus	Project Manager M Developer M Developer Software QA Analyst Software QA Analyst Delphi Developer
May, 2017	Final release for Patch ROR*1.5*30. See <i>User Manual</i> for details.	John Sanders Mary Anne Ferrarese Roopa Parvathaneni Edward Micyus	Project Manager M Developer SQA Analyst Delphi Developer
December, 2016	Final release for Patch ROR*1.5*29. See <i>User Manual</i> for details.	John Sanders Aaron Giachetti Shawn Quigly Terry Kopp Laura Hilby	Project Manager Harris Project Manager SQA Analyst M Developer Delphi Developer
May, 2016	Final release for Patch ROR*1.5*28. See <i>User Manual</i> for details.	John Sanders Terry Kopp Roopa Parvathaneni Edward Micyus	Project Manager M Developer SQA Analyst Delphi Developer
November, 2015	Final release for Patch ROR*1.5*26. See <i>User Manual</i> for details.	John Sanders Blake Jan Terry Kopp Steve Greenacre Laura Hilby	Project Manager Harris Project Manager M Developer SQA Analyst Delphi Developer
September, 2015	Final release for Patch ROR*1.5*25. See <i>User Manual</i> for details.	John Sanders Terry Kopp Edward Micyus	Project Manager M Developer Delphi Developer

Date	Description	Author	Role
April, 2015	Final release for Patch ROR*1.5*27. See <i>User Manual</i> for details.	John Sanders Terry Kopp Edward Micys	Project Manager M Developer Delphi Developer
October, 2014	Final release for Patch ROR*1.5*24. See <i>User Manual</i> for details.	John Sanders Terry Kopp Lori Torrance Edward Micys	Project Manager M Developer SQA Analyst Delphi Developer
August, 2014	Final release for Patch ROR*1.5*22. See <i>User Manual</i> for details.	John Sanders Terry Kopp Lori Torrance Edward Micys	Project Manager M Developer SQA Analyst Delphi Developer
April, 2014	Final release for Patch ROR*1.5*21. See <i>User Manual</i> for details.	John Sanders Terry Kopp Lori Torrance Edward Micys	Project Manager M Developer SQA Analyst Delphi Developer
March, 2013	Final release for Patch ROR*1.5*20. See <i>User Manual</i> for details.	John Sanders Connie Ray Steven Baxter Edward Micys Karen Jocius	Project Manager M Developer SQA Analyst Delphi Developer Tech Writer
August, 2014	Final release for Patch ROR*1.5*19. See <i>User Manual</i> for details.	Taraiza Bennett Dave Getman Matt Dill /Ferd Frankson Brenda Johnson Jeff Swesky Ellen Phelps	VA Project Manager HP Project Manager M Developer SQA Analyst Delphi Developer Tech Writer
August, 2012	Final release for Patch ROR*1.5*18. See <i>User Manual</i> for details.	John Sanders Connie Ray Linda Berry Edward Micys Dan Zaudtke	Project Manager M Developer SQA Analyst Delphi Developer Tech Writer
April, 2012	Final release for Patch ROR*1.5*17. See <i>User Manual</i> for details.	John Sanders	Project Manager

Date	Description	Author	Role
		Connie Ray Linda Berry Edward Micys Dan Zaudtke	M Developer SQA Analyst Delphi Developer Tech Writer
September, 2011	Final release for Patch ROR*1.5*15. See <i>User Manual</i> for details.	John Sanders Connie Ray Linda Berry Edward Micys Dan Zaudtke	Project Manager M Developer SQA Analyst Delphi Developer Tech Writer
March, 2011	Patch ROR*1.5*14. See <i>User Manual</i> for details.	Vida Dunie Angela Saunders Linda Berry Ed Micys	Project Manager M Developer SQA Analyst Delphi Developer
September, 2010	Final release for Patch ROR*1.5*13. See <i>User Manual</i> for details.	Kenneth Rikard	Project Manager
April, 2010	Final release for Patch ROR*1.5*10: See <i>User Manual</i> for details.	Edward Micys Angela Saunders Linda Berry VJ McDonald	Delphi Developer M Developer SQA Analyst Technical Writer
July, 2009	Patch ROR*1.5*8: See <i>User Manual</i> for details.	Kenneth Rikard Edward Micys Victor Carr Angela Saunders VJ McDonald Linda Berry	Project Manager Delphi Developer M Developer M Developer Technical Writer Software Quality Assurance Analyst
July, 2008	Patch ROR*1.5*7: See <i>User Manual</i> for details.	(unknown)	
May, 2008	Patch ROR*1.5*6: See <i>User Manual</i> for details.	(unknown)	
March, 2008	Patch ROR*1.5*5: See <i>User Manual</i> for details.	(unknown)	
December, 2007	Patch ROR*1.5*4: See <i>User Manual</i> for details.	(unknown)	
November, 2007	Patch ROR*1.5*3: See <i>User Manual</i> for details.	(unknown)	
October, 2007	Patch ROR*1.5*2: See <i>User Manual</i> for details.	(unknown)	
October 2006	Patch ROR*1.5*1: See <i>User Manual</i> for details.	Christine Beynon	
February	Completely updated for CCR Version 1.5	Christine Long	

Date	Description	Author	Role
2006			
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 38 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*32.

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*32

Patch ROR*1.5*32 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*32 contains the following enhancements (E), modifications (M) and fixes (F):

Table 1 – Changes for Patch 32

#	Description	Type
1	Create two new Local Registries; Transgender and Frailty. The new local registries will be defined using ICD-9 and ICD-10 codes.	E
2	This patch adds the following new medication: <ul style="list-style-type: none">• HEP C registry: GLECAPREVIR/PIBRENTASVIR• HIV registry: DOLUTEGRAVIR/RILPIVIRINE The new medication has been added to the ROR GENERIC DRUG (#799.51) file and can now be selected on reports to provide information about the patients who are taking the new medication.	E
3	In the CCR GUI, a new “Admitting Diagnosis” column has been added to the Current Inpatient List report. The new column will be located after the “Room-Bed” column.	E
4	On the Hepatitis A and Hepatitis B Immunity reports, the report results have been modified to look at the most recent immune status.	F
5	The Patient Medication History report has been modified to include all medications even if the drugs are unmatched to the VA Products. To resolve this issue the following changes have been made: <ul style="list-style-type: none">- The post install routine of the patch has been designed to collect existing drug matching on daily basis and store them in ROR files.- A nightly job which will be executed automatically is called Schedule ROR Drug Match [ROR DRUG MATCH]- The Patient Medication report has been modified to check the new matching nodes created by this patch if they do not exist in pharmacy side.	F

#	Description	Type
6	In the CCR GUI, the title on the Patient Data Editor screen has been modified to display the correct registry name when a local registry is selected.	F
7	In the CCR GUI, the BMI by Range and Renal Function by Range CSV report output has been modified to not display "No data has been found" when the Summary only option was selected for the report.	F
8	In the CCR GUI, a "More" button has been added after the "Patients found" count when there are more patients than the maximum number of patients to retrieve setting is set for.	M
9	The version of the CCR software is updated to 1.5.32	E

Table 2 – Global Updates for Patch ROR*1.5*32

File Name and Number	Update
DIALOG (#.84)	<i>Entries modified:</i> 7981002.001 Current Inpatient List (HTML) 7981002.002 Current Inpatient List (CSV) 7981018.002 BMI Report by Range (CSV) 7981020.002 Renal Function by Range (CSV)
ROR REGISTRY PARAMETERS (#798.1)	<i>Entries New:</i> VA TRANSGENDER VA FRAILTY
ROR SELECTION RULE (#798.2)	<i>Entries New:</i> VA TRANSGENDER PROBLEM VA TRANSGENDER PROBLEM (ICD10) VA TRANSGENDER PTF VA TRANSGENDER PTF (ICD10) VA TRANSGENDER VPOV VA TRANSGENDER VPOV (ICD10) VA FRAILTY PROBLEM VA FRAILTY PROBLEM (ICD10) VA FRAILTY PTF VA FRAILTY PTF (ICD10) VA FRAILTY VPOV VA FRAILTY VPOV (ICD10)
ROR ICD SEARCH (#798.5)	<i>Entries New:</i> VA TRANSGENDER VA FRAILTY
ROR LIST ITEM (#799.1)	<i>Entries New:</i>

File Name and Number	Update
	APRI (VA TRANSGENDER) APRI (VA FRAILTY) BMI (VA TRANSGENDER) BMI (VA FRAILTY) Creatinine clearance by Cockcroft-Gault (VA TRANSGENDER) Creatinine clearance by Cockcroft-Gault (VA FRAILTY) eGFR by CKD-EPI (VA TRANSGENDER) eGFR by CKD-EPI (VA FRAILTY) eGFR by MDRD (VA TRANSGENDER) eGFR by MDRD (VA FRAILTY) FIB-4 (VA TRANSGENDER) FIB-4 (VA FRAILTY) MELD (VA TRANSGENDER) MELD (VA FRAILTY) MELD-Na (VA TRANSGENDER) MELD-Na (VA FRAILTY) Registry Lab (VA TRANSGENDER) Registry Lab (VA FRAILTY)
ROR GENERIC DRUG (#799.51)	<i>Entries new:</i> HEP C registry: GLECAPREVIR/PIBRENTASVIR HIV registry: DOLUTEGRAVIR/RILPIVIRINE

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 Office (OIFO) [ANONYMOUS SOFTWARE] directory.

Table 3 – Software and Documentation Sources

OIFO	FTP Address	Directory
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_5P32GUI . ZIP	Zipped GUI distributive	BINARY

File Name	Contents	Retrieval Format
ROR1_5P32DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOCX formats: <ul style="list-style-type: none"> ▶ User Manual (ROR1_5_32UM) 	BINARY
ROR1_5P32DOC2.ZIP	<ul style="list-style-type: none"> ▶ Installation and Implementation Guide (ROR1_5_32IG) ▶ Technical Manual / Security Guide (ROR1_5_32TM) ▶ Release Notes (ROR1_5_32RN) 	BINARY

Patch ROR*1.5*32 is available in the National Patch Module on FORUM¹ 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: <https://vaww.vha.vaco.portal.va.gov/sites/PublicHealth/pophealth/ccr/SitePages/Home.aspx>.

5.0 Specific Instructions

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

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>

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*32, users' **GUI** installations should also be at Patch level 32. Users can determine the **GUI** version by using the Help | About CCR menu option.

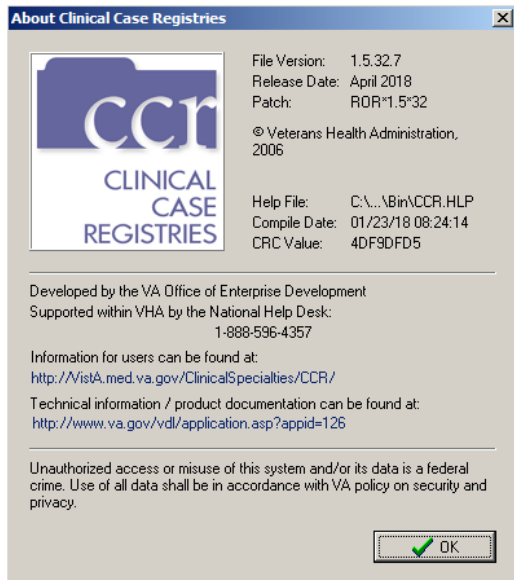


Figure 1 – Help | About Pane

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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