

Clinical Case Registries (CCR)

Version 1.5



Release Notes

November 2017

Patch ROR*1.5*31

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

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Revision History

Date	Description	Author	Role
November, 2017	Final release for Patch ROR*1.5*31. See Table 1 for details.	John Sanders Mary Anne Ferrarese Sami Alsahhar Heather Smith Leslie Yager Edward Micys	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 Micys	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 Micys	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 Micys	Project Manager M Developer Delphi Developer
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,	Final release for Patch ROR*1.5*24. See <i>User</i>	John Sanders	Project Manager

Date	Description	Author	Role
2014	<i>Manual</i> for details.	Terry Kopp Lori Torrance Edward Micyus	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 Micyus	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 Micyus	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 Micyus 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 /Ferdi 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 Micyus 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 Connie Ray Linda Berry Edward Micyus Dan Zaudtke	Project Manager M Developer SQA Analyst Delphi Developer Tech Writer

Date	Description	Author	Role
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 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 36 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*31.

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*31

Patch ROR*1.5*31 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*31 contains the following enhancements (E), modifications (M) and fixes (F):

Table 1 – Changes for Patch 31

#	Description	Type
1	Create two new Local Registries; Adrenal Adenoma and Movement Disorders. 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">Hepatitis C registry: SOFOSBUVIR/VELPATASVIR /VOXILAPREVIR 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 AGE_RANGE panel has been added to all reports to allow filtering by age or date of birth. The new panel has been added in the GUI after the “Birth Sex” panel and a new column for Age/DOB has been added to all report headers following the Last 4 digits of SSN column. If the user selects all for “Age Range” no Age/DOB column is added.	E
4	On the Pharmacy Prescription Utilization report, it was discovered that the patient ICN was missing on the portion of the report that lists the Highest Combined Outpatient (OP) and Inpatient (IP) Utilization Summary. The report has been updated to include the ICN.	F
5	On the Diagnoses report, a modification was made to keep the display of Date of Death (DOD) consistent with other reports. Currently, if a time piece exists in VistA for the DOD, the Diagnoses report displays the DOD as the date with the time included. All the other reports display the DOD as just the date without the time. The time stamp has been removed from the Date of Death column on the Diagnoses report to ensure consistency among reports.	M
6	In the CCR GUI, the caption on the Additional Identifier panel has been modified from Additional Identifier to Additional Identifiers.	M

#	Description	Type
7	In the CCR GUI, two new options have been added to the Additional Identifiers panel to allow the Patient Aligned Care Team (PACT) and/or Primary Care Provider (PCP) to be included on all the reports. Two new report columns, entitled “PACT” and “PCP,” will be added to the report output following the column titled “ICN.” If selected, these new report columns will be added everywhere “ICN” currently appears in reports. The column widths for these new columns will be sized to accommodate approximately 30 characters. If a patient does not have a PACT or PCP, the output will be blank.	E
8	In the CCR GUI, a modification was made on several of the “utilization” reports when the user selects the “Include details” option the associated edit control color has been updated to indicate to the user that the control is enabled.	F
9	In the CCR GUI, a modification was made on the reports listed below to disable the Additional Identifiers panel if the Summary option was selected. <ul style="list-style-type: none"> • BMI by Range • Diagnoses • General Utilization and Demographics • Inpatient Utilization • Lab Utilization • Outpatient Utilization • Pharmacy Prescription Utilization • Procedures • Radiology Utilization • Registry Medications • Renal Function by Range • VERA Reimbursement 	F
10	On the General Utilization and Demographics report, a modification was made to the report to remove the “No data has been found” message if the Summary option is selected and there was data to generate a summary.	F
11	The version of the CCR software is updated to 1.5.31	E

Table 2 – Global Updates for Patch ROR*1.5*31

File Name and Number	Update
DIALOG (#.84)	<p><i>Entries modified:</i></p> <p>7981002.001 Current Inpatient List (HTML)</p> <p>7981002.002 Current Inpatient List (CSV)</p> <p>7981003.001 General Utiliz. and Demogr. (HTML)</p>

File Name and Number	Update
	7981003.002 General Utiliz. and Demogr. (CSV) 7981004.001 Clinic Follow Up (HTML) 7981004.002 Clinic Follow Up (CSV) 7981006.002 Laboratory Utilization (CSV) 7981007.001 Radiology Utilization (HTML) 7981007.002 Radiology Utilization (CSV) 7981008.001 VERA Reimbursement Report (HTML) 7981008.002 VERA Reimbursement Report (CSV) 7981009.001 Pharmacy Prescription Utilization (HTML) 7981009.002 Pharmacy Prescription Utilization (CSV) 7981010.001 Registry Lab Tests by Range (HTML) 7981010.002 Registry Lab Tests by Range (CSV) 7981011.001 Patient Medication History (HTML) 7981011.002 Patient Medication History (CSV) 7981012.001 Combined Meds and Labs Report (HTML) 7981012.002 Combined Meds and Labs Report (CSV) 7981013.001 Diagnoses (HTML) 7981013.002 Diagnoses (CSV) 7981014.001 Registry Medications Report (HTML) 7981014.002 Registry Medications Report (CSV) 7981015.001 Procedures (HTML) 7981015.002 Procedures (CSV) 7981016.001 Outpatient Utilization (HTML) 7981016.002 Outpatient Utilization (CSV) 7981018.002 BMI Report by Range (CSV) 7981019.002 Liver Report by Range (CSV) 7981019.001 Liver Report by Range (HTML) 7981020.001 Renal Function by Range (HTML) 7981020.002 Renal Function by Range (CSV) 7981021.001 Potential DAA Candidates (HTML) 7981021.002 Potential DAA Candidates (CSV) 7981022.001 DAA Lab Monitoring (HTML) 7981022.002 DAA Lab Monitoring (CSV) 7981023.001 Sustained Virologic Response (HTML) 7981023.002 Sustained Virologic Response (CSV) 7981024.001 Hepatitis A Report (HTML) 7981024.002 Hepatitis A Report (CSV) 7981025.001 Hepatitis B Report (HTML) 7981025.002 Hepatitis B Report (CSV) 7981995.001 Lab data templates (HTML) 7981996.001 Pharmacy data templates (HTML) 7981997.001 Patient data templates (HTML)

File Name and Number	Update
	7981997.002 Patient data templates (CSV) 7981999.001 Common XSL templates (HTML) 7981999.002 Common XSL templates (CSV)
ROR REGISTRY PARAMETERS (#798.1)	<i>Entries New:</i> VA ADRENAL ADENOMA VA MOVEMENT DISORDERS
ROR SELECTION RULE (#798.2)	<i>Entries New:</i> VA ADRENAL ADENOMA PROBLEM VA ADRENAL ADENOMA PROBLEM (ICD10) VA ADRENAL ADENOMA PTF VA ADRENAL ADENOMA PTF (ICD10) VA ADRENAL ADENOMA VPOV VA ADRENAL ADENOMA VPOV (ICD10) VA MOVEMENT DISORDERS PROBLEM VA MOVEMENT DISORDERS PROBLEM (ICD10) VA MOVEMENT DISORDERS PTF VA MOVEMENT DISORDERS PTF (ICD10) VA MOVEMENT DISORDERS VPOV VA MOVEMENT DISORDERS VPOV (ICD10)
ROR ICD SEARCH (#798.5)	<i>Entries New:</i> VA ADRENAL ADENOMA VA MOVEMENT DISORDERS
ROR LIST ITEM (#799.1)	<i>Entries New:</i> APRI (VA ADRENAL ADENOMA) APRI (VA MOVEMENT DISORDERS) BMI (VA ADRENAL ADENOMA) BMI (VA MOVEMENT DISORDERS) Creatinine clearance by Cockcroft-Gault (VA ADRENAL ADENOMA) Creatinine clearance by Cockcroft-Gault (VA MOVEMENT DISORDERS) eGFR by CKD-EPI (VA ADRENAL ADENOMA) eGFR by CKD-EPI (VA MOVEMENT DISORDERS) eGFR by MDRD (VA ADRENAL ADENOMA) eGFR by MDRD (VA MOVEMENT DISORDERS) FIB-4 (VA ADRENAL ADENOMA) FIB-4 (VA MOVEMENT DISORDERS) MELD (VA ADRENAL ADENOMA) MELD (VA MOVEMENT DISORDERS)

File Name and Number	Update
	MELD-Na (VA ADRENAL ADENOMA) MELD-Na (VA MOVEMENT DISORDERS) Registry Lab (VA ADRENAL ADENOMA) Registry Lab (VA MOVEMENT DISORDERS) <i>Entries modified:</i> HIV WB
ROR XML ITEM (#799.31)	<i>Entries New:</i> AGE_RANGE PACT PCP
ROR REPORT PARAMETERS (#799.34)	<i>Entries New:</i> Age Range new panel #21 is added to all reports - BMI by Range - Clinic Follow Up - Combined Meds and Labs - Current Inpatient List - DAA Lab Monitoring - Diagnoses - Hepatitis A Vaccine or Immunity - Hepatitis B Vaccine or Immunity - Inpatient Utilization - Lab Utilization - List of Registry Patients - Liver Score by Range - Outpatient Utilization - Pharmacy Prescription Utilization - Potential DAA Candidates - Procedures - Radiology Utilization - Registry Lab Tests by Range - Registry Medications - Renal Function by Range - Sustained Virologic Response - VERA Reimbursement Report
ROR GENERIC DRUG (#799.51)	<i>Entries new:</i> Hepatitis C registry: SOFOSBUVIR/VELPATASVIR/VOXILAPREVIR

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

Table 4 – Files Included in Distribution

File Name	Contents	Retrieval Format
ROR1_5P31GUI . ZIP	Zipped GUI distributive	BINARY
ROR1_5P31DOC1 . ZIP	Zipped DOC distributive, which includes both . PDF and . DOCX formats: ▶ User Manual (ROR1_5_31UM)	BINARY
ROR1_5P31DOC2 . ZIP	▶ Installation and Implementation Guide (ROR1_5_31IG) ▶ Technical Manual / Security Guide (ROR1_5_31TM) ▶ Release Notes (ROR1_5_31RN)	BINARY

Patch ROR*1 . 5*31 is available in the National Patch Module on FORUM¹ as a PackMan message.

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>

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>.

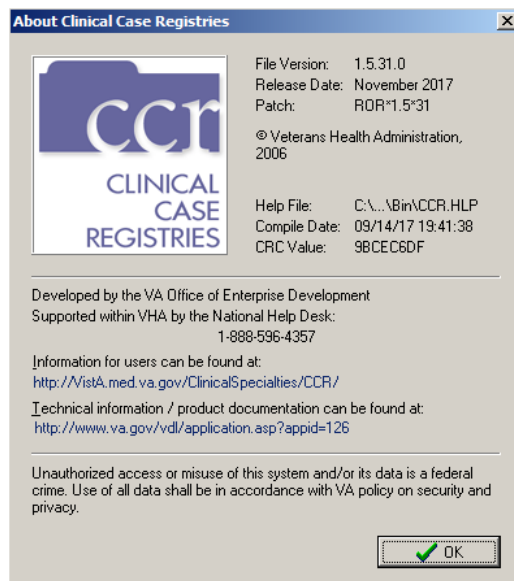
For additional information about the CCR, access the CCR Home Page at the following address: <https://vaww.vha.vaco.portal.va.gov/sites/PublicHealth/pophealth/ccr/SitePages/Home.aspx>.

5.0 Specific Instructions

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

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*31, users' **GUI** installations should also be at Patch level 31. Users can determine the **GUI** version by using the Help | About CCR menu option.



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](#).

Figure 1 – Help | About Pane

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