Clinical Case Registries (CCR)
Version 1.5

Release Notes

March 2019
Patch ROR*1.5*34

Department of Veterans Affairs

Office of Enterprise Development

Health Data Systems – Registries

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Revision History

Date	Description	Author	Role
March, 2019	Final release for Patch ROR*1.5*34. See Table 1 for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	M Developer
		REDACTED	Software QA Analyst
		REDACTED	Delphi Developer
July, 2018	Final release for Patch ROR*1.5*33. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	M Developer
		REDACTED	Software QA Analyst
		REDACTED	Delphi Developer
April, 2018	Final release for Patch ROR*1.5*32. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	Software QA Analyst
		REDACTED	Delphi Developer
November, 2017	Final release for Patch ROR*1.5*31. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	M Developer
		REDACTED	Software QA Analyst
		REDACTED	Software QA Analyst
		REDACTED	Delphi Developer
May, 2017	Final release for Patch ROR*1.5*30. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	SQA Analyst
		REDACTED	Delphi Developer
December, 2016	Final release for Patch ROR*1.5*29. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	Harris Project Manager
		REDACTED	SQA Analyst
		REDACTED	M Developer
		REDACTED	Delphi Developer
May, 2016	Final release for Patch ROR*1.5*28. See *User Manual* for details.	REDACTED	Project Manager

Date	Description	Author	Role
		REDACTED	M Developer
		REDACTED	SQA Analyst
		REDACTED	Delphi Developer
November, 2015	Final release for Patch ROR*1.5*26. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	Harris Project Manager
		REDACTED	M Developer
		REDACTED	SQA Analyst
		REDACTED	Delphi Developer
September, 2015	Final release for Patch ROR*1.5*25. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	Delphi Developer
April, 2015	Final release for Patch ROR*1.5*27. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	Delphi Developer
October, 2014	Final release for Patch ROR*1.5*24. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	SQA Analyst
		REDACTED	Delphi Developer
August, 2014	Final release for Patch ROR*1.5*22. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	SQA Analyst
		REDACTED	Delphi Developer
April, 2014	Final release for Patch ROR*1.5*21. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	SQA Analyst
		REDACTED	Delphi Developer
March, 2013	Final release for Patch ROR*1.5*20. See *User Manual* for details.	REDACTED	Project Manager
		REDACTED	M Developer
		REDACTED	SQA Analyst
		REDACTED	Delphi Developer
		REDACTED	Tech Writer
August, 2014	Final release for Patch ROR*1.5*19. See *User Manual* for details.	REDACTED	VA Project Manager
		REDACTED	HP Project Manager

Date	Description	Author	Role
		<mark>REDACTED</mark>	M Developer
		<mark>REDACTED</mark>	SQA Analyst
		<mark>REDACTED</mark>	Delphi Developer
		<mark>REDACTED</mark>	Tech Writer
August, 2012	Final release for Patch ROR*1.5*18. See *User Manual* for details.	<mark>REDACTED</mark>	Project Manager
		<mark>REDACTED</mark>	M Developer
		<mark>REDACTED</mark>	SQA Analyst
		<mark>REDACTED</mark>	Delphi Developer
		<mark>REDACTED</mark>	Tech Writer
April, 2012	Final release for Patch ROR*1.5*17. See *User Manual* for details.	<mark>REDACTED</mark>	Project Manager
		<mark>REDACTED</mark>	M Developer
		<mark>REDACTED</mark>	SQA Analyst
		<mark>REDACTED</mark>	Delphi Developer
		<mark>REDACTED</mark>	Tech Writer
September, 2011	Final release for Patch ROR*1.5*15. See *User Manual* for details.	<mark>REDACTED</mark>	Project Manager
		<mark>REDACTED</mark>	M Developer
		<mark>REDACTED</mark>	SQA Analyst
		<mark>REDACTED</mark>	Delphi Developer
		<mark>REDACTED</mark>	Tech Writer
March, 2011	Patch ROR*1.5*14. See *User Manual* for details.	<mark>REDACTED</mark>	Project Manager
		<mark>REDACTED</mark>	M Developer
		<mark>REDACTED</mark>	SQA Analyst
		<mark>REDACTED</mark>	Delphi Developer
September, 2010	Final release for Patch ROR*1.5*13. See *User Manual* for details.	<mark>REDACTED</mark>	Project Manager
April, 2010	Final release for Patch ROR*1.5*10: See *User Manual* for details.	<mark>REDACTED</mark>	Delphi Developer
		<mark>REDACTED</mark>	M Developer
		<mark>REDACTED</mark>	SQA Analyst
		<mark>REDACTED</mark>	Technical Writer
July, 2009	Patch ROR*1.5*8: See *User Manual* for details.	<mark>REDACTED</mark>	Project Manager
		<mark>REDACTED</mark>	Delphi Developer
		<mark>REDACTED</mark>	M Developer
		<mark>REDACTED</mark>	M Developer

Date	Description	Author	Role
		REDACTED	Technical Writer
		REDACTED	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.	REDACTED	
February 2006	Completely updated for CCR Version 1.5	REDACTED	
June 2002	Initial release of CCR Version 1.0	(unknown)	

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0. Note on Windows 10

Currently, the Clinical Case Registries (CCR) application help does NOT work on Windows 10. The issue is being addressed and help will be available in the next patch, ROR*1.5*35. In the meantime, please consult the *CCR Users Manual* for assistance.

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 47 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*34.

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*34

Patch ROR*1.5*34 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*34 contains the following enhancements (E), modifications (M) and fixes (F):

Table 1 – Changes for Patch 34

#	Description	Type
1	Create three new Local Registries; Lymphoma, Non-Alcoholic SteatoHepatitis (NASH) and Interstitial Lung Disease (ILD). The new local registries will be defined using ICD-9 and ICD-10 codes.	E
2	This patch adds the following new medication: • HIV registry: COBICISTAT/DARUNAVIR/EMTRICITABINE/TENOFOVIR AF 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, the "Future Appointments" panel has been added to the following reports for all registries: • Diagnoses • Procedures The panel has been added after the "Additional Identifiers" panel and the "Next Appt" column has been added to the report data columns. If the user selects "All patients" then no "Next Appt" column is added.	E

#	Description	Type
4	On all reports where the "Future Appointments" panel is available, a new "Clinic Name" column has been added to the right of the "Next Appt" column in the report output. If the user selects "All patients" then no "Clinic Name" column is added.	E
5	On the Hepatitis A and Hepatitis B reports, fixed the display on LOINC codes on the report header.	F
6	On the Current Inpatient List report, an "Admission Date" column has been added to the left of the "Admitting Diagnosis" column on the report output.	E
7	On the Hepatitis A and Hepatitis B reports, the tool tips on the Vaccination Date Range and Immunity Date Range panels have been fixed.	F
8	The version of the CCR software is updated to 1.5.34	E

Table 2 – Global Updates for Patch ROR*1.5*34

File Name and Number	Update
DIALOG (#.84)	*Entries modified:* 7981002.002 Current Inpatient List (CSV) 7981010.002 Registry Lab Tests by Range (CSV) 7981012.001 Combined Meds and Labs (HTML) 7981012.002 Combined Meds and Labs (CSV) 7981013.001 Diagnoses (HTML) 7981013.002 Diagnoses (CSV) 7981015.001 Procedures (HTML) 7981015.002 Procedures (CSV) 7981018.002 BMI Report by Range (CSV) 7981019.002 Liver Score by Range (CSV) 7981020.002 Renal Function by Range (CSV) 7981021.002 Potential DAA Candidates (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) 7981997.001 Patient data templates (HTML) 7981999.002 Common XSL templates (CSV)
ROR REGISTRY PARAMETERS (#798.1)	*Entries New:* VA LYMPHOMA VA NASH VA ILD
ROR SELECTION RULE (#798.2)	*Entries New:*

File Name and Number	Update
	VA LYMPHOMA PROBLEM VA LYMPHOMA PROBLEM (ICD10) VA LYMPHOMA PTF VA LYMPHOMA PTF (ICD10) VA LYMPHOMA VPOV VA LYMPHOMA VPOV (ICD10) VA NASH PROBLEM VA NASH PROBLEM (ICD10) VA NASH PTF VA NASH PTF (ICD10) VA NASH VPOV VA NASH VPOV (ICD10) VA ILD PROBLEM VA ILD PROBLEM (ICD10) VA ILD PTF VA ILD PTF (ICD10) VA ILD VPOV VA ILD VPOV (ICD10)
ROR ICD SEARCH (#798.5)	*Entries New:* VA LYMPHOMA VA NASH VA ILD
ROR LIST ITEM (#799.1)	*Entries New:* APRI (VA LYMPHOMA) APRI (VA NASH) APRI (VA ILD) BMI (VA LYMPHOMA) BMI (VA NASH) BMI (VA ILD) Creatinine clearance by Cockcroft-Gault (VA LYMPHOMA) Creatinine clearance by Cockcroft-Gault (VA NASH) Creatinine clearance by Cockcroft-Gault (VA ILD) eGFR by CKD-EPI (VA LYMPHOMA) eGFR by CKD-EPI (VA NASH) eGFR by CKD-EPI (VA ILD) eGFR by MDRD (VA LYMPHOMA) eGFR by MDRD (VA NASH) eGFR by MDRD (VA ILD) FIB-4 (VA LYMPHOMA) FIB-4 (VA NASH)

File Name and Number	Update
	FIB-4 (VA ILD) MELD (VA LYMPHOMA) MELD (VA NASH) MELD (VA ILD) MELD-Na (VA LYMPHOMA) MELD-Na (VA NASH) MELD-Na (VA ILD)
ROR XML ITEM (#799.31)	*Entries new:* FUT_CLIN
ROR GENERIC DRUG (#799.51)	*Entries new:* HIV registry: COBICISTAT/DARUNAVIR/EMTRICITABINE/TENOFOVIR AF

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	REDACTED	ANONYMOUS.SOFTWARE
Salt Lake City	REDACTED	ANONYMOUS.SOFTWARE

Table 4 – Files Included in Distribution

File Name	Contents	Retrieval Format
ROR1_5P34GUI.ZIP	Zipped GUI distributive	BINARY
ROR1_5P34DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOCX formats: ► User Manual (ROR1_5_34UM)	BINARY
ROR1_5P34DOC2.ZIP	► Installation and Implementation Guide (ROR1_5_34IG) ► Technical Manual / Security Guide (ROR1_5_34TM)	BINARY

File Name	Contents	Retrieval Format
	► Release Notes (ROR1_5_34RN)	

Patch `ROR*1.5*34` 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: <mark>REDACTED</mark>.

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*34`, users' **GUI** installations should also be at Patch level 34. 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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