Clinical Case Registries (CCR)
Version 1.5

Release Notes

November 2019
Patch ROR*1.5*35

Department of Veterans Affairs

Office of Enterprise Development

Health Data Systems – Registries

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Revision History

Date	Description	Author	Role
November, 2019	Final release for Patch ROR*1.5*35. See Table 1 for details.	John Sanders	Project Manager
		Mary Anne Ferrarese	M Developer
		Frank Traxler	M Developer
		Heather Smith	Software QA Analyst
		Edward Micyus	Delphi Developer
March, 2019	Final release for Patch ROR*1.5*34. See *User Manual* for details.	John Sanders	Project Manager
		Mary Anne Ferrarese	M Developer
		Frank Traxler	M Developer
		Heather Smith	Software QA Analyst
		Edward Micyus	Delphi Developer
July, 2018	Final release for Patch ROR*1.5*33. See *User Manual* for details.	John Sanders	Project Manager
		Mary Anne Ferrarese	M Developer
		Frank Traxler	M Developer
		Heather Smith	Software QA Analyst
		Edward Micyus	Delphi Developer
April, 2018	Final release for Patch ROR*1.5*32. See *User Manual* for details.	John Sanders	Project Manager
		Sami Alsahhar	M Developer
		Leslie Yager	Software QA Analyst
		Edward Micyus	Delphi Developer
November, 2017	Final release for Patch ROR*1.5*31. See *User Manual* for details.	John Sanders	Project Manager
		Mary Anne Ferrarese	M Developer
		Sami Alsahhar	M Developer
		Heather Smith	Software QA Analyst
		Leslie Yager	Software QA Analyst
		Edward Micyus	Delphi Developer
May, 2017	Final release for Patch ROR*1.5*30. See *User Manual* for details.	John Sanders	Project Manager
		Mary Anne Ferrarese	M Developer
		Roopa Parvathaneni	SQA Analyst
		Edward Micyus	Delphi Developer
December, 2016	Final release for Patch ROR*1.5*29. See *User Manual* for details.	John Sanders	Project Manager

Date	Description	Author	Role
		Aaron Giachetti	Harris Project Manager
		Shawn Quigly	SQA Analyst
		Terry Kopp	M Developer
		Laura Hilby	Delphi Developer
May, 2016	Final release for Patch ROR*1.5*28. See *User Manual* for details.	John Sanders	Project Manager
		Terry Kopp	M Developer
		Roopa Parvathaneni	SQA Analyst
		Edward Micyus	Delphi Developer
November, 2015	Final release for Patch ROR*1.5*26. See *User Manual* for details.	John Sanders	Project Manager
		Blake Jan	Harris Project Manager
		Terry Kopp	M Developer
		Steve Greenacre	SQA Analyst
		Laura Hilby	Delphi Developer
September, 2015	Final release for Patch ROR*1.5*25. See *User Manual* for details.	John Sanders	Project Manager
		Terry Kopp	M Developer
		Edward Micyus	Delphi Developer
April, 2015	Final release for Patch ROR*1.5*27. See *User Manual* for details.	John Sanders	Project Manager
		Terry Kopp	M Developer
		Edward Micyus	Delphi Developer
October, 2014	Final release for Patch ROR*1.5*24. See *User Manual* for details.	John Sanders	Project Manager
		Terry Kopp	M Developer
		Lori Torrance	SQA Analyst
		Edward Micyus	Delphi Developer
August, 2014	Final release for Patch ROR*1.5*22. See *User Manual* for details.	John Sanders	Project Manager
		Terry Kopp	M Developer
		Lori Torrance	SQA Analyst
		Edward Micyus	Delphi Developer
April, 2014	Final release for Patch ROR*1.5*21. See *User Manual* for details.	John Sanders	Project Manager
		Terry Kopp	M Developer
		Lori Torrance	SQA Analyst
		Edward Micyus	Delphi Developer
March, 2013	Final release for Patch ROR*1.5*20. See *User Manual* for details.	John Sanders	Project Manager
		Connie Ray	M Developer

Date	Description	Author	Role
		Steven Baxter	SQA Analyst
		Edward Micyus	Delphi Developer
		Karen Jocius	Tech Writer
August, 2014	Final release for Patch ROR*1.5*19. See *User Manual* for details.	Taraiza Bennett	VA Project Manager
		Dave Getman	HP Project Manager
		Matt Dill /Ferdi Frankson	M Developer
		Brenda Johnson	SQA Analyst
		Jeff Swesky	Delphi Developer
		Ellen Phelps	Tech Writer
August, 2012	Final release for Patch ROR*1.5*18. See *User Manual* for details.	John Sanders	Project Manager
		Connie Ray	M Developer
		Linda Berry	SQA Analyst
		Edward Micyus	Delphi Developer
		Dan Zaudtke	Tech Writer
April, 2012	Final release for Patch ROR*1.5*17. See *User Manual* for details.	John Sanders	Project Manager
		Connie Ray	M Developer
		Linda Berry	SQA Analyst
		Edward Micyus	Delphi Developer
		Dan Zaudtke	Tech Writer
September, 2011	Final release for Patch ROR*1.5*15. See *User Manual* for details.	John Sanders	Project Manager
		Connie Ray	M Developer
		Linda Berry	SQA Analyst
		Edward Micyus	Delphi Developer
		Dan Zaudtke	Tech Writer
March, 2011	Patch ROR*1.5*14. See *User Manual* for details.	Vida Dunie	Project Manager
		Angela Saunders	M Developer
		Linda Berry	SQA Analyst
		Ed Micyus	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	Delphi Developer
		Angela Saunders	M Developer
		Linda Berry	SQA Analyst

Date	Description	Author	Role
		VJ McDonald	Technical Writer
July, 2009	Patch ROR*1.5*8: See *User Manual* for details.	Kenneth Rikard	Project Manager
		Edward Micyus	Delphi Developer
		Victor Carr	M Developer
		Angela Saunders	M Developer
		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 49 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).

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*35.

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*35

Patch ROR*1.5*35 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*35 contains the following enhancements (E), modifications (M) and fixes (F):

Table 1 – Changes for Patch 35

#	Description	Type
1	Create two new Local Registries; Head and Neck Squamous Cell Cancer and Hypothyroidism. 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: DORAVIRINE • HIV registry: DORAVIRINE /LAMIVUDINE/TENOFOVIR • HIV registry: DOLUTEGRAVIR/LAMIVUDINE 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	The two national registries, Hepatitis C and HIV, will now auto-confirm patients like the rest of the registries. At the time of the patch installation, any pending patients will be confirmed setting the confirmation date to the patch installation date and any pending comments for those patients will be deleted.	E
4	The CCR software now supports 2 factor authentication (2FA) and single sign on using the new RPC broker.	E
5	The CCR help system has been completely re-designed to work with Windows 10.	F
6	The version of the CCR software is updated to 1.5.35	E

Table 2 – Global Updates for Patch ROR*1.5*35

File Name and Number	Update

File Name and Number	Update
ROR REGISTRY PARAMETERS (#798.1)	*Entries New:* VA HEAD AND NECK VA HYPOTHYROIDISM
ROR SELECTION RULE (#798.2)	*Entries New:* VA HEAD AND NECK PROBLEM VA HEAD AND NECK PROBLEM (ICD10) VA HEAD AND NECK PTF VA HEAD AND NECK PTF (ICD10) VA HEAD AND NECK VPOV VA HEAD AND NECK VPOV (ICD10) VA HYPOTHYROIDISM PROBLEM VA HYPOTHYROIDISM PROBLEM (ICD10) VA HYPOTHYROIDISM PTF VA HYPOTHYROIDISM PTF (ICD10) VA HYPOTHYROIDISM VPOV VA HYPOTHYROIDISM VPOV (ICD10)
ROR ICD SEARCH (#798.5)	*Entries New:* VA HEAD AND NECK VA HYPOTHYROIDISM
ROR LIST ITEM (#799.1)	*Entries New:* APRI (VA HEAD AND NECK) APRI (VA HYPOTHYROIDISM) BMI (VA HEAD AND NECK) BMI (VA HYPOTHYROIDISM) Creatinine clearance by Cockcroft-Gault (VA HEAD AND NECK) Creatinine clearance by Cockcroft-Gault (VA HYPOTHYROIDISM) eGFR by CKD-EPI (VA HEAD AND NECK) eGFR by CKD-EPI (VA HYPOTHYROIDISM) eGFR by MDRD (VA HEAD AND NECK) eGFR by MDRD (VA HYPOTHYROIDISM) FIB-4 (VA HEAD AND NECK) FIB-4 (VA HYPOTHYROIDISM) MELD (VA HEAD AND NECK) MELD (VA HYPOTHYROIDISM) MELD-Na (VA HEAD AND NECK) MELD-Na (VA HYPOTHYROIDISM)
ROR GENERIC DRUG (#799.51)	*Entries new:* HIV registry: DORAVIRINE

File Name and Number	Update
	HIV registry: DORAVIRINE /LAMIVUDINE/TENOFOVIR
	HIV registry: DOLUTEGRAVIR/LAMIVUDINE

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_5P35GUI.ZIP	Zipped GUI distributive	BINARY
ROR1_5P35DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOCX formats: ► User Manual (ROR1_5_35UM)	BINARY
ROR1_5P35DOC2.ZIP	► Installation and Implementation Guide (ROR1_5_35IG) ► Technical Manual / Security Guide (ROR1_5_35TM) ► Release Notes (ROR1_5_35RN)	BINARY

Patch ROR*1.5*35 is available in the National Patch Module on FORUM[1] as a PackMan message.

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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

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*35, users' **GUI** installations should also be at Patch level 35. Users can determine the **GUI** version by using the Help | About CCR menu option.

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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
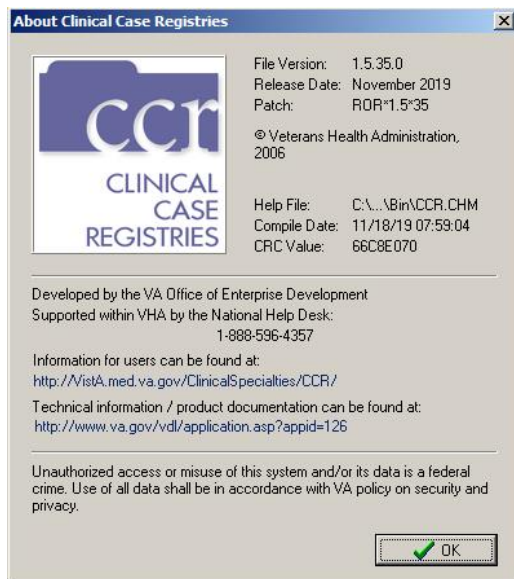
Figure 1 – Help | About Pane

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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