Clinical Case Registries (CCR)
Version 1.5

Release Notes

May 2016
Patch ROR*1.5*28

Department of Veterans Affairs

Office of Enterprise Development

Health Data Systems – Registries

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Revision History

Date	Description	Author	Role
May, 2016	Final release for Patch ROR*1.5*28. See Table 1 for details.	John Sanders Terry Kopp Roopa Parvathaneni Edward Micyus	Project Manager M Developer Software QA Analyst Delphi Developer
November, 2015	Final release for Patch ROR*1.5*26. 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	Project Manager M Developer Software Quality Assurance Analyst

Date	Description	Author	Role
		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	Software Quality Assurance 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	Software Quality Assurance 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	Software Quality Assurance 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	Software Quality Assurance Analyst
		Edward Micyus	Delphi Developer
		Dan Zaudtke	Tech Writer
March, 2011	Patch ROR*1.5*14. See *User Manual* for details.	Vida Dunie	Tech Writer
		Angela Saunders	M Developer
		Linda Berry	Software Quality Assurance 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	Software Quality Assurance 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 32 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*28.

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*28

Patch ROR*1.5*28 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*28 contains the following enhancements (E), modifications (M) and fixes (F):

Table 1 – Changes for Patch 28

#	Description	Type
1	Conversion of GUI from Delphi XE5 to Delphi XE8.	E
2	Create five new Local Registries; Crohn's Disease, Dementia, Hepatitis B, Thyroid Cancer and Ulcerative Colitis. The new local registries will be defined using ICD-9 and ICD-10 codes.	E
3	It was discovered that the CCR national database is missing some problem list entries for the patients in the HIV and Hepatitis-C registries dating from 2009 through 2011. To recover this data, this patch will force the CCR nightly job [ROR TASK] to perform a one time re-extract of all problem list entries that were added from 1/1/2009 to the present for patients in these two registries. This may cause a slight increase in the amount of time it takes the nightly job to finish the first time it runs after the installation of this patch.	F
4	A problem was discovered with the header display if a user selects the "Complete" or "Summary" report option when running a report. The words "Complete Report" or "Summary Report" are supposed to display after the label Options:, but currently, nothing is being displayed there.	F

#	Description	Type
5	This patch adds the following new medications: • HIV registry: ATAZANAVIR/COBICISTAT • HIV registry: COBICISTAT/DARUNAVIR • HIV registry: ELVITEGRAVIR • HIV registry: ELBASVIR/GRAZOPREVIR • Hepatitis C registry: OMBITASVIR/PARATEPREVIR/RITONAVIR • Hepatitis C registry: DACLATASVIR These new medications have 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 medications.	E
6	An additional selection panel titled "DAA Prescriptions" will be created for the DAA Lab Monitoring report.	E
7	The INPATIENT UTILIZATION report was modified to correct a defect found where the ICN value does not appear on the report when the user selects to include additional identifier in the report.	F
8	When the VA TOTAL KNEE and VA TOTAL HIP registries were added to the CCR system by a previous patch, the word Registry was not added to the display name of the registries. This was fixed in this patch by adding the word 'Registry' to the entry in the SHORT DESCRIPTION (#4) field of the ROR REGISTRY PARAMETERS file (#798.1) for the VA TOTAL KNEE and VA TOTAL HIP registry entries.	F
9	A modification was made to allow the DAA Lab Monitoring report to use all drugs defined for the registry as well as locally defined drugs as screening criteria for the report.	E
10	The version of the CCR software is updated to 1.5.28	E

Table 2 – Global Updates for Patch ROR*1.5*28

File Name and Number	Update
DIALOG (#.84)	Entries modified: 7981999.001 Common XSL templates (HTML)
ROR REGISTRY PARAMETERS (#798.1)	Entries New: VA CROHNS VA DEMENTIA VA HEPB VA THYROID CA VA UC Entries modified: VA TOTAL HIP VA TOTAL KNEE

File Name and Number	Update
ROR SELECTION RULE (#798.2)	Entries New: VA CROHNS PTF VA CROHNS PTF (ICD10) VA CROHNS PROBLEM VA CROHNS PROBLEM (ICD10) VA CROHNS VPOV VA CROHNS VPOV (ICD10) VA DEMENTIA PTF VA DEMENTIA PTF (ICD10) VA DEMENTIA PROBLEM VA DEMENTIA PROBLEM (ICD10) VA DEMENTIA VPOV VA DEMENTIA VPOV (ICD10) VA HEPB PTF VA HEPB PTF (ICD10) VA HEPB PROBLEM VA HEPB PROBLEM (ICD10) VA HEPB VPOV VA HEPB VPOV (ICD10) VA THYROID CA PTF VA THYROID CA PTF (ICD10) VA THYROID CA PROBLEM VA THYROID CA PROBLEM (ICD10) VA THYROID CA VPOV VA THYROID CA VPOV (ICD10) VA UC PTF VA UC PTF (ICD10) VA UC PROBLEM VA UC PROBLEM (ICD10) VA UC VPOV VA UC VPOV (ICD10) Entries modified:
ROR ICD SEARCH (#798.5)	Entries New: VA CROHNS VA DEMENTIA VA HEPB VA THYROID CA VA UC Entries modified:
ROR LIST ITEM (#799.1)	Entries New: APRI (VA CROHNS) APRI (VA DEMENTIA) APRI (VA HEPB) APRI (VA THYROID CA) APRI (VA UC) BMI (VA CROHNS) BMI (VA DEMENTIA) BMI (VA HEPB) BMI (VA THYROID CA)

File Name and Number	Update
	BMI (VA UC)
	Creatinine clearance by Cockcroft-Gault (VA CROHNS)
	Creatinine clearance by Cockcroft-Gault (VA DEMENTIA)
	Creatinine clearance by Cockcroft-Gault (VA HEPB)
	Creatinine clearance by Cockcroft-Gault (VA THYROID CA)
	Creatinine clearance by Cockcroft-Gault (VA UC)
	eGFR by CKD-EPI (VA CROHNS)
	eGFR by CKD-EPI (VA DEMENTIA)
	eGFR by CKD-EPI (VA HEPB)
	eGFR by CKD-EPI (VA THYROID CA)
	eGFR by CKD-EPI (VA UC)
	eGFR by MDRD (VA CROHNS)
	eGFR by MDRD (VA DEMENTIA)
	eGFR by MDRD (VA HEPB)
	eGFR by MDRD (VA THYROID CA)
	eGFR by MDRD (VA UC)
	FIB-4 (VA CROHNS)
	FIB-4 (VA DEMENTIA)
	FIB-4 (VA HEPB)
	FIB-4 (VA THYROID CA)
	FIB-4 (VA UC)
	MELD (VA CROHNS)
	MELD (VA DEMENTIA)
	MELD (VA HEPB)
	MELD (VA THYROID CA)
	MELD (VA UC)
	MELD-Na (VA CROHNS)
	MELD-Na (VA DEMENTIA)
	MELD-Na (VA HEPB)
	MELD-Na (VA THYROID CA)
	MELD-Na (VA UC)
	Registry Lab (VA CROHNS)
	Registry Lab (VA DEMENTIA)
	Registry Lab (VA HEPB)
	Registry Lab (VA THYROID CA)
	Registry Lab (VA UC)
	Entries modified:
ROR XML ITEM (#799.31)	Entries New: DAA_DRUGS Entries modified:
ROR REPORT PARAMETERS(#799.34)	Entries New: Entries modified: DAA Lab Monitoring Report
ROR GENERIC DRUG (#799.51)	Entries New: DACLATASVIR OMBITASVIR/PARATEPREVIR/R ATAZANAVIR/COBICISTAT COBICISTAT/DARUNAVIR ELVITEGRAVIR ELBASVIR/GRAZOPREVIR

File Name and Number	Update
	Entries modified:

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_5P28GUI.ZIP	Zipped GUI distributive	BINARY
ROR1_5P28DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOCX formats: ► User Manual (ROR1_5_28UM)	BINARY
ROR1_5P28DOC2.ZIP	► Installation and Implementation Guide (ROR1_5_28IG) ► Technical Manual / Security Guide (ROR1_5_28TM) ► Release Notes (ROR1_5_28RN)	BINARY

Patch ROR*1.5*28 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

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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*28, users' **GUI** installations should also be at Patch level 28. Users can determine the **GUI** version by using the Help | About CCR menu option.

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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.

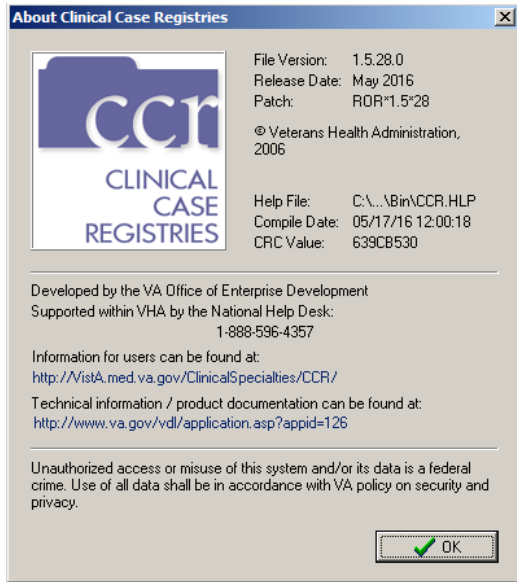*See* http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.100.5551&rep=rep1&type=pdf

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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