**Clinical Case Registries (CCR)**

Version 1.5



Release Notes

May 2016

Patch ROR\*1.5\*28

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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  Edward Micyus  Karen Jocius | Project Manager  M Developer  Software Quality Assurance Analyst  Delphi Developer  Tech Writer |
| August, 2014 | Final release for Patch ROR\*1.5\*19. See *User Manual* for details. | Taraiza Bennett  Dave Getman  Matt Dill /Ferdi Frankson  Brenda Johnson  Jeff Swesky  Ellen Phelps | VA Project Manager  HP Project Manager  M Developer  Software Quality Assurance Analyst  Delphi Developer  Tech Writer |
| August, 2012 | Final release for Patch ROR\*1.5\*18. See *User Manual* for details. | John Sanders  Connie Ray  Linda Berry  Edward Micyus  Dan Zaudtke | Project Manager  M Developer  Software Quality Assurance Analyst  Delphi Developer  Tech Writer |
| April, 2012 | Final release for Patch ROR\*1.5\*17. See *User Manual* for details. | John Sanders  Connie Ray  Linda Berry  Edward Micyus  Dan Zaudtke | Project Manager  M Developer  Software Quality Assurance Analyst  Delphi Developer  Tech Writer |
| September, 2011 | Final release for Patch ROR\*1.5\*15. See *User Manual* for details. | John Sanders  Connie Ray  Linda Berry  Edward Micyus  Dan Zaudtke | Project Manager  M Developer  Software Quality Assurance Analyst  Delphi Developer  Tech Writer |
| March, 2011 | Patch ROR\*1.5\*14. See *User Manual* for details. | Vida Dunie  Angela Saunders  Linda Berry  Ed Micyus | Tech Writer  M Developer  Software Quality Assurance Analyst  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  Angela Saunders  Linda Berry  VJ McDonald | Delphi Developer  M Developer  Software Quality Assurance Analyst  Technical Writer |
| July, 2009 | Patch ROR\*1.5\*8: See *User Manual* for details. | Kenneth Rikard  Edward Micyus  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 *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. 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](#Glos_HL7) ([HL7](#Glos_HL7)) message to the national CCR database at the [Corporate Data Center Operations](#Glos_CDCO) (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](#Glos_VistA) ([VistA](#Glos_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. Purpose

These Release Notes cover the new features provided to Clinical Case Registries (CCR) users in patch ROR\*1.5\*28.

* 1. 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.

1. 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 | |
| 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 |
| 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)  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  Entries modified: |

1. 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](ftp://ftp.fo-albany.med.va.gov/) | anonymous.software |
| Hines | [ftp.fo-hines.med.va.gov](ftp://ftp.fo-hines.med.va.gov/) | anonymous.software |
| Salt Lake City | [ftp.fo-slc.med.va.gov](ftp://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]](#footnote-2) as a PackMan message.

1. 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/](http://vista.med.va.gov/ClinicalSpecialties/CCR).

Training links and information are also available at [http://vaww.VistAu.med.va.gov/VistAu/CCR/](http://vaww.vistau.med.va.gov/vistau/ccr/).

1. Specific Instructions

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

1. Matching GUI Version to Patch

Example of Warning icon. 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.

|  |  |
| --- | --- |
| Example of Help | About dialog screen.  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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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> [↑](#footnote-ref-2)