**Clinical Case Registries (CCR)**

Version 1.5



Release Notes

April 2015

Patch ROR\*1.5\*27

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Revision History

| Date | Description | Author | Role |
| --- | --- | --- | --- |
| April, 2015 | Final release for Patch ROR\*1.5\*27. See Table 1 for details. | John Sanders  Terry Kopp  Edward Micyus | Project Manager  M Developer  Delphi Developer |
| December, 2014 | Final release for Patch ROR\*1.5\*25. See *User Manual* for details.  **NOTE:** This Patch has NOT been released yet. | 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 25 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. What’s New with ROR\*1.5\*27

Patch ROR\*1.5\*27 includes maintenance and 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\*27 contains the following enhancements (E), modifications (M) and fixes (F):

Table 1 – Changes for Patch 27

| # | Description | | Type |
| --- | --- | --- | --- |
| 1 | This patch adds the following new medications:   * VA Product: ABC/DOL/3TC * VA Generic: ABACAVIR/DOLUTEGRAVIR/LAMIVUDINE * VA Product: LED/SOF * VA Generic: LEDIPASVIR/SOFOBUVIR * VA Product: OBV/PTV/r+DSV * VA Generic: DASABUVIR/OMBITASVIR/PARITAPREVIR/RITONAVIR   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 | |
| 2 | Modifications to the Potential DAA Candidate report to remove exclusion of patients who received Boceprevir or Telaprevir. Direct Acting Antivirals (DAAs) are medications that interact directly with viral proteins to inhibit viral replication | M | |
| 3 | Modifications to the Potential DAA Candidate report to remove exclusion of patients who do not have genotype 1. | M | |
| 4 | Correct the definition of Sustained virologic response (SVR) by removing the criteria that patients whose lab results starts with “>” have SVR. | F | |
| 5 | Correct the List of Patients Report selection screen by disabling the Registry Status Pending Comment check box if Pending is not checked. (GUI) | F | |
| 6 | Update Help Files Copied to Local Drive for Network Installations (GUI) | M | |
| 7 | This patch brings the Clinical Case Registries (CCR) application into Section 508 compliance in many areas. | E | |
| 8 | Modified the global lock logic in routine RORLOCK to utilize the minimum default lock time system variable DILOCKTM rather than 3 seconds. This is a correction for a SACC violation reported in Remedy ticket #968114 (DILOCKTM not being utilized). | F | |
| 9 | Resolved a problem involving a maxstring error occurring in the nightly job. This was reported in Remedy tickets # 1228316 and 1227499.  The workaround for the sites was to inactivate some or all of the 8 registries added by patch ROR\*1.5\*24.  The post install for this patch will reactivate any of these 8 registries that have been marked as inactive. | F | |
| 10 | Added entries to the ROR LIST ITEM file (#799.1) to make sure the proper Result Ranges panels appear on the BMI by Range, Liver Score by Range and Renal Function by Range reports. | F | |
| 11 | The version of the CCR software is updated to 1.5.27 | M | |

Table 2 – Global Updates for Patch ROR\*1.5\*27

| **File Name and Number** | **Update** |
| --- | --- |
| ROR GENERIC DRUG #799.51 | Added entries for   * VA Product: ABC/DOL/3TC   VA Generic: ABACAVIR/DOLUTEGRAVIR/LAMIVUDINE   * VA Product: LED/SOF   VA Generic: LEDIPASVIR/SOFOBUVIR   * VA Product: OBV/PTV/r+DSV   VA Generic: DASABUVIR/OMBITASVIR/PARITAPREVIR/RITONAVIR |
| ROR LIST ITEM  #799.1 | Added entries for   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA ALS   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA APNEA   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA COLORECTAL CANCER   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA HCC   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA LUNG CANCER   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA MELANOMA   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA OSTEOPOROSIS   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA PANCREATIC CANCER   * TEXT: eGFR by CKD-EPI   TYPE: Renal Group  CODE: 3  REGISTRY: VA PROSTATE CANCER   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA ALS   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA APNEA   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA COLORECTAL CANCER   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA HCC   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA LUNG CANCER   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA MELANOMA   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA OSTEOPOROSIS   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA PANCREATIC CANCER   * TEXT: eGFR by MDRD   TYPE: Renal Group  CODE: 2  REGISTRY: VA PROSTATE CANCER   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA ALS   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA APNEA   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA COLORECTAL CANCER   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA HCC   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA LUNG CANCER   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA MELANOMA   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA OSTEOPOROSIS   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA PANCREATIC CANCER   * TEXT: Creatinine clearance by Cockcroft-Gault   TYPE: Renal Group  CODE: 1  REGISTRY: VA PROSTATE CANCER   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA ALS   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA APNEA   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA COLORECTAL CANCER   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA HCC   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA LUNG CANCER   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA MELANOMA   * TEXT: FIB-4   TYPE: MELD Group   * CODE: 4   REGISTRY: VA OSTEOPOROSIS   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA PANCREATIC CANCER   * TEXT: FIB-4   TYPE: MELD Group  CODE: 4  REGISTRY: VA PROSTATE CANCER   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA ALS   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA APNEA   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA COLORECTAL CANCER   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA HCC   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA LUNG CANCER   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA MELANOMA   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA OSTEOPOROSIS   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA PANCREATIC CANCER   * TEXT: APRI   TYPE: MELD Group  CODE: 3  REGISTRY: VA PROSTATE CANCER   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA ALS   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA APNEA   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA COLORECTAL CANCER   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA HCC   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA LUNG CANCER   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA MELANOMA   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA OSTEOPOROSIS   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA PANCREATIC CANCER   * TEXT: MELD-Na   TYPE: MELD Group  CODE: 2  REGISTRY: VA PROSTATE CANCER   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA ALS   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA APNEA   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA COLORECTAL CANCER   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA HCC   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA LUNG CANCER   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA MELANOMA   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA OSTEOPOROSIS   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA PANCREATIC CANCER   * TEXT: MELD   TYPE: MELD Group  CODE: 1  REGISTRY: VA PROSTATE CANCER   * TEXT: BMI   TYPE: BMI Group  CODE: 1   * REGISTRY: VA ALS * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA APNEA   * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA COLORECTAL CANCER   * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA HCC   * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA LUNG CANCER   * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA MELANOMA   * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA OSTEOPOROSIS   * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA PANCREATIC CANCER   * TEXT: BMI   TYPE: BMI Group  CODE: 1  REGISTRY: VA PROSTATE CANCER   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA ALS   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA APNEA   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA COLORECTAL CANCER   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA HCC   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA LUNG CANCER   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA MELANOMA   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA OSTEOPOROSIS   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA PANCREATIC CANCER   * TEXT: Registry Lab   TYPE: Lab Group  CODE: 1  REGISTRY: VA PROSTATE CANCER |

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\_5P27GUI.ZIP | Zipped GUI distributive | BINARY |
| ROR1\_5P27DOC1.ZIP | Zipped DOC distributive, which includes both .PDF and .DOCX formats:  ► User Manual (ROR1\_5\_27UM) | BINARY |
| ROR1\_5P27DOC2.ZIP | ► Installation and Implementation Guide (ROR1\_5\_27IG)  ► Technical Manual / Security Guide (ROR1\_5\_27TM)  ► Release Notes (ROR1\_5\_27RN) | BINARY |

Patch ROR\*1.5\*27 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\*27, users’ GUI installations should also be at Patch level 27. Users can determine the GUI version by using the Help | About CCR menu option.

|  |  |
| --- | --- |
| Example of the CCR Help | About 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)