

# Clinical Case Registries (CCR)

Version 1.5



## Installation and Implementation Guide

*Documentation Revised April 2014*

**For Patch ROR\*1.5\*21**

**Department of Veterans Affairs  
Office of Enterprise Development  
Health Data Systems – Registries**

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## Revision History

| Date            | Description  | Author  | Role   |
|-----------------|--|---|--|
| April, 2014     | Final release for Patch ROR*1.5*21. See <i>CCR User Manual</i> for details of enhancements to application. | John Sanders<br>Terry Kopp<br>Lori Torrance<br>Edward Micyus  | Project Manager<br>M Developer<br>Software Quality Assurance Analyst<br>Delphi Developer   |
| March, 2013     | Final release for Patch ROR*1.5*20. See <i>CCR User Manual</i> for details of enhancements to application. | John Sanders<br>Connie Ray<br>Steven Baxter<br>Edward Micyus<br>Karen Jocius                                  | Project Manager<br>M Developer<br>Software Quality Assurance Analyst<br>Delphi Developer<br>Tech Writer                          |
| August, 2014    | Final release for Patch ROR*1.5*19. See <i>CCR User Manual</i> for details of enhancements to application. | Taraiza Bennett<br>Dave Getman<br>Matt Dill /Ferdie Frankson<br>Brenda Johnson<br>Jeff Swesky<br>Ellen Phelps | VA Project Manager<br>HP Project Manager<br>M Developer<br>Software Quality Assurance Analyst<br>Delphi Developer<br>Tech Writer |
| August, 2012    | Final release for Patch ROR*1.5*18. See <i>CCR User Manual</i> for details of enhancements to application. | John Sanders<br>Connie Ray<br>Linda Berry<br>Edward Micyus<br>Dan Zaudtke                                     | Project Manager<br>M Developer<br>Software Quality Assurance Analyst<br>Delphi Developer<br>Tech Writer                          |
| April, 2012     | Final release for Patch ROR*1.5*17. See <i>CCR User Manual</i> for details of enhancements to application. | John Sanders<br>Connie Ray<br>Linda Berry<br>Edward Micyus<br>Dan Zaudtke                                     | Project Manager<br>M Developer<br>Software Quality Assurance Analyst<br>Delphi Developer<br>Tech Writer                          |
| September, 2011 | Final release for Patch ROR*1.5*15. See <i>CCR User Manual</i> for details of enhancements to application. | John Sanders<br>Connie Ray<br>Linda Berry<br>Edward Micyus<br>Dan Zaudtke                                     | Project Manager<br>M Developer<br>Software Quality Assurance Analyst<br>Delphi Developer<br>Tech Writer                          |
| March 2011      | Patch ROR*1.5*14. See <i>CCR User Manual</i> for details of enhancements to application.                   | Vida Dunie<br>Angela Saunders<br>Linda Berry<br>Ed Micyus   | Technical Writer<br>M Developer<br>Software Quality Assurance Analyst<br>Delphi Developer  |

| Date            | Description   | Author  | Role   |
|-----------------|---|---|--|
| September, 2010 | Updated for Patch ROR1.5*13. See <i>CCR User Manual</i> for details of changes to application.<br><i>Documentation Change only:</i> Previous references to manual data back pulling have been removed. This process is now automated. | Kenneth Rikard<br>Edward Micyus<br>Angela Saunders<br>Linda Berry | Project Manager<br>Delphi Developer<br>M Developer<br>Software Quality Assurance Analyst |
| April, 2010     | Final release for Patch ROR*1.5*10. Added instructions for data Backpull; general updates per comments received; general formatting changes.  | VJ McDonald   | Technical Writer   |

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## Table of Contents

|           |  |           |
|-----------|--|-----------|
| <b>1.</b> | <b>Introduction .....</b>                            | <b>1</b>  |
| 1.1       | How CCR Works.....                                   | 1         |
| 1.2       | Recommended Users .....                              | 1         |
| 1.3       | Related Documents .....                              | 1         |
| 1.4       | Typographical Conventions Used in the Guide.....     | 2         |
| 1.5       | Screen Displays and Text Notes.....                  | 3         |
| 1.6       | Software and Manual Retrieval.....                   | 3         |
| 1.7       | VistA Documentation on the Intranet .....            | 4         |
| <b>2.</b> | <b>Installing Current CCR 1.5.....</b>               | <b>4</b>  |
| <b>3.</b> | <b>Installing the Current M Patch .....</b>          | <b>5</b>  |
| <b>4.</b> | <b>Installing the Graphical User Interface .....</b> | <b>9</b>  |
| 4.1       | Background Information.....                          | 9         |
| 4.2       | Uninstalling Older Software Versions .....           | 10        |
| 4.3       | Installing New GUI .....                             | 12        |
| 4.4       | Configuring Desktop Application Parameters .....     | 19        |
| 4.5       | Command-Line Switches .....                          | 20        |
|           | <b>Glossary .....</b>                                | <b>23</b> |

## List of Tables

|  |           |
|--|-----------|
| <b>Table 1 – Typographical Conventions .....</b>           | <b>2</b>  |
| <b>Table 2 – Graphical Conventions .....</b>               | <b>2</b>  |
| <b>Table 3 – Software and Documentation Sources .....</b>  | <b>4</b>  |
| <b>Table 4 – Files Included in Distribution .....</b>      | <b>4</b>  |
| <b>Table 5 – Current CCR 1.5 Patches .....</b>             | <b>6</b>  |
| <b>Table 6 – M Code Installation Instructions .....</b>    | <b>7</b>  |
| <b>Table 7 – Uninstalling Previous GUI Versions.....</b>   | <b>11</b> |
| <b>Table 8 – Installing New GUI .....</b>                  | <b>12</b> |
| <b>Table 9 – Installing New GUI on a File Server .....</b> | <b>18</b> |
| <b>Table 10 – Command Line Switches .....</b>              | <b>21</b> |

## List of Figures

|   |           |
|---|-----------|
| <b>Figure 1 – Change/Remove or Remove Button .....</b>      | <b>11</b> |
| <b>Figure 2 – Uninstall Confirmation.....</b>               | <b>12</b> |
| <b>Figure 3 – Setup Wizard Start .....</b>                  | <b>13</b> |
| <b>Figure 4 – Setup Wizard Directory Confirmation .....</b> | <b>13</b> |
| <b>Figure 5 – Select Start Menu Folder .....</b>            | <b>14</b> |
| <b>Figure 6 – Select Additional Tasks.....</b>              | <b>15</b> |



|  |           |
|--|-----------|
| <b>Figure 7 – Ready to Install .....</b>               | <b>16</b> |
| <b>Figure 8 – Installation Confirmation.....</b>       | <b>17</b> |
| <b>Figure 9 – Configuring Desktop Parameters .....</b> | <b>20</b> |
| <b>Figure 10 – Command-Line Switches .....</b>         | <b>21</b> |



# 1. Introduction

This *Clinical Case Registries Installation and Implementation Guide* provides assistance for installation and implementation of the Clinical Case Registries (CCR) software.

## 1.1 How CCR Works

CCR software application collects data on the population of veterans with certain clinical conditions, namely [Hepatitis C](#) and/or [Human Immunodeficiency Virus \(HIV\)](#) infections at the local and national level as well as 16 local, generic registries. Patients are identified by the existence of a disease-related [International Statistical Classification of Diseases and Related Health Problems, ninth edition \(ICD-9\)](#) code or by a positive result on an antibody test. Such patients are added 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 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.

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 which show 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.

## 1.2 Recommended Users

The [Information Resource Management](#) (IRM) staff and CCR [Automated Data Processing Application Coordinator](#) (ADPAC) are required for the installation of CCR.

## 1.3 Related Documents

- *Clinical Case Registries Release Notes*
- *Clinical Case Registries Technical Manual/Security Guide*
- *Clinical Case Registries User Manual*



## 1.4 Typographical Conventions Used in the Guide



Fonts and other conventions shown in [Table 1](#) are used throughout this document. Conventions for the use of graphic icons and other symbols are shown in [Table 2](#). Also see [Screen Displays](#) and [Text Notes](#) for explanations of how computer dialogs are presented.

**Table 1 – Typographical Conventions**

| Font                           | Used for...   | Examples:   |
|--------------------------------|---|---|
| Blue text, underlined          | Hyperlink to another document or address            | <a href="ftp:fo-slc.med.va.gov">ftp:fo-slc.med.va.gov</a>   |
| Green text, dashed underlining | Hyperlink to a place in this document               | “CCR accesses several other <a href="#">Veterans Health Information Systems and Technology Architecture</a> (VistA) files...” |
| Courier New                    | Patch names   | ROR*1.5*2   |
|                                | VistA menu options                                  | “On the PackMan menu, use the INSTALL/CHECK MESSAGE option.”  |
|                                | VistA filenames                                     | XYZ file #798.1   |
|                                | VistA field names                                   | COMMENT field (#12).  |
| Franklin Gothic Demi bold      | Keyboard keys and on-screen button text             | < F1 >, < Alt >, < L >, < Enter >, [Delete] button  |
| Microsoft Sans Serif           | Software Application names                          | Clinical Case Registries (CCR)  |
|                                | Registry names                                      | CCR:HIV   |
|                                | <a href="#">GUI</a> database field names            | Comment field   |
|                                | GUI report names                                    | Procedures report   |
| Microsoft Sans Serif bold      | GUI panel, pane, tab, button and command icon names | <b>Other Registries</b> panel   |
| Times New Roman                | Normal text   | “... designed for use by designated Registry Coordinators, Managers, and Clinicians....”                                      |
| Times New Roman Italic         | Text emphasis                                       | “It is <i>very</i> important...”  |
|                                | National and International Standard names           | <i>International Statistical Classification of Diseases and Related Health Problems</i>                                       |
|                                | Document names                                      | <i>Clinical Case Registries User Manual</i>   |

**Table 2 – Graphical Conventions**

| Graphic   | Used for...   |
|---|---|
|  | Information of particular interest regarding the current subject matter |
|  | A tip or additional information that may be helpful to the user         |

| Graphic   | Used for...                                     |
|---|---|
|  | A warning concerning the current subject matter |
|  | A guide to which action is to be performed next |

## 1.5 Screen Displays and Text Notes


In this guide, user responses are shown in **bold type**, but do not appear on the screen as bold. The bold part of the entry is the letter, or letters, that you must type so that the computer can identify the response. In most cases, you only have to enter the first few letters. This increases speed and accuracy.

In VistA, every response you type must be followed by pressing the **< Return >** key (or **< Enter >** for some keyboards). In VistA screen shots, whenever this key should be pressed, you will see the symbol **<RET>**. This symbol is not shown but is implied if there is bold input.

Within the “roll’n’scroll” part of the system, Help frames may be accessed from most prompts by entering one, two, or three question marks (**?**, **??**, or **???**).

Within the examples of actual terminal dialogues, additional information about the dialogue may be shown. This information is enclosed in brackets, for example, *{type ward name here}*, and it does not appear on the screen.

Computer dialogues appear in `Courier` font.

Where graphical interface windows are mentioned, and the user is instructed to click an on-screen button, that button will be shown in **Franklin Gothic Demi bold** font enclosed in square brackets and/or with a graphic symbol. Example: “Click the **[Submit]** button” or “Click the  button.”

All headings and text in this guide are intentionally formatted flush left, regardless of the heading level, to save space and to make for better readability.

In tables which list mandatory steps (as for installation or un-installation), a column is provided at the right-hand side so that users may check (✓) off the step as it is performed.

## 1.6 Software and Manual Retrieval

Both 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         | <a href="ftp.fo-albany.med.va.gov">ftp.fo-albany.med.va.gov</a> | ANONYMOUS . SOFTWARE |
| Hines          | <a href="ftp.fo-hines.med.va.gov">ftp.fo-hines.med.va.gov</a>   | ANONYMOUS . SOFTWARE |
| Salt Lake City | <a href="ftp.fo-slc.med.va.gov">ftp.fo-slc.med.va.gov</a>       | ANONYMOUS . SOFTWARE |

The ROR\*1.5\*21 (CCR 1.5.21) software and accompanying guides and manuals are distributed as the set of files shown in [Table 4](#). No distribution is being made for the original CCR 1.5 versions. Since some sites may need to access both sets of documents during an interim period, the original CCR 1.5 versions of the documentation will remain available on the [VistA Document Library \(VDL\)](#) at <http://www.va.gov/vdl/application.asp?appid=126>.

**Table 4 – Files Included in Distribution**

| File Name         | Contents  | Retrieval Format |
|-------------------|---|------------------|
| ROR1_5P21GUI.ZIP  | Zipped GUI distributive<br>▶ CCRSETUP.EXE   | BINARY           |
| ROR1_5P21DOC1.ZIP | Zipped DOC distributive, which includes both .PDF and .DOC formats:<br>▶ User Manual (ROR1_5_21UM)  | BINARY           |
| ROR1_5P21DOC2.ZIP | ▶ Installation and Implementation Guide (ROR1_5_21IG)<br>▶ Technical Manual / Security Guide (ROR1_5_21TM)<br>▶ Release Notes (ROR1_5_21RN) | BINARY           |

## 1.7 VistA Documentation on the Intranet

Documentation for this product, including all of the software manuals, is available in the VDL. 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/>.

## 2. Installing Current CCR 1.5



**Important Note:** This patch requires an M patch and a revised Graphical User Interface (GUI) application.

Installing CCR 1.5 current version is a two-step process:

- [Installing the Current M Patch](#)
- [Installing the Graphical User Interface](#)



**Note:** The M routines included in KIDS build ROR 1.5 are listed in the *CCR Technical Manual*. The second line of each of these routines now looks like:

```
;;1.5;CLINICAL CASE REGISTRIES;**[Patch List]**;Feb 17, 2006;Build [NN]
```

### 3. Installing the Current M Patch

All CCR patches are available via the National Patch Tracking module in FORUM. All patches contain installation instructions and must be installed in sequence number order. Current patches to CCR 1.5 are listed in [Table 5](#). Please be sure that all previous patches are installed before attempting to install the latest patch. Note that the latest patch is shown at the top of the table.

**Table 5 – Current CCR 1.5 Patches**

| Patches    | Description  | ✓ |
|------------|--|---|
| ROR*1.5*21 | 10 enhancements. See <i>CCR Release Notes</i> .  |   |
| ROR*1.5*20 | 1 enhancement. See <i>CCR Release Notes</i> .  |   |
| ROR*1.5*19 | 6 enhancements and 2 modifications. See <i>CCR Release Notes</i> .   |   |
| ROR*1.5*18 | 8 enhancements, 7 modifications and 1 fixes. See <i>CCR Release Notes</i> .  |   |
| ROR*1.5*17 | 5 enhancements, 3 modifications and 3 fixes. See <i>CCR Release Notes</i> .  |   |
| ROR*1.5*15 | 9 enhancements, 5 modifications and 2 fixes. See <i>CCR Release Notes</i> .  |   |
| ROR*1.5*14 | 10 enhancements. See <i>CCR Release Notes</i> .  |   |
| ROR*1.5*13 | 1 modification; 1 fix; 8 enhancements. See <i>CCR Release Notes</i> .  |   |
| ROR*1.5*10 | 5 modifications; 2 fixes; 11 enhancements. See <i>CCR Technical Manual</i> .   |   |
| ROR*1.5*9  | Maintenance bug fixes  |   |
| ROR*1.5*8  | 1 fix; 9 enhancements. See <i>CCR Technical Manual</i> .   |   |
| ROR*1.5*7  | 1 enhancement: Added generic drug ETRAVIRINE to VA GENERIC file #50.6.   |   |
| ROR*1.5*6  | 1 enhancement: Added generic drug RALTEGRAVIR to VA GENERIC file #50.6.  |   |
| ROR*1.5*5  | 1 fix: Resolved issue with Procedures w/o Provider not being sent to <a href="#">AAC</a> .<br>1 enhancement: Added drug needed for nightly registry update and <a href="#">data extraction</a> . |   |
| ROR*1.5*4  | 1 enhancement: Added two <a href="#">ICD-9</a> codes.  |   |
| ROR*1.5*3  | 2 enhancements: Added Reason for Study data field; added task Control flag.  |   |
| ROR*1.5*2  | 7 fixes: See <i>CCR Technical Manual</i>   |   |
| ROR*1.5*1  | 14 enhancements: See <i>CCR Technical Manual</i>   |   |

Below is a summary of the steps required to install this patch; installation will not take more than five minutes.



This patch can be installed with VistA users online, but Registry users should be logged out of the CCR Registry Application, as a new GUI is to be installed.



**Important Note:** The nightly task (the [ROR TASK] option) must *not* be running during the installation.



**Important Note:** TaskMan does *not* need to be STOPPED or placed in a WAIT state.

**Table 6 – M Code Installation Instructions**

| Step # | Description   | ✓ |
|--------|---|---|
| 1      | Check the user who scheduled the nightly job, ROR TASK. The task must be scheduled by an active user with the ROR VA IRM security key. If the user has been terminated or no longer has the key, make sure the job is re-scheduled by a qualified user. |   |
| 2      | Make sure you have the ROR VA IRM security key.   |   |
| 3      | On the PackMan menu, use the INSTALL/CHECK MESSAGE option. This option loads the patch into a Transport Global on your system.  |   |
| 4      | From the Kernel Installation and Distribution System (KIDS) menu, select the Installation menu.   |   |
| 5      | From this menu, you may elect to use the following options (when prompted for INSTALL NAME, enter ROR*1.5*21):  |   |
|        | <b>a</b> Verify Checksums in Transport Global: This option will allow you to ensure the integrity of the routines that are in the transport global. Routines are listed in the <i>CCR Technical Manual</i> .  |   |
|        | <b>b</b> Print Transport Global: This option will allow you to view the components of the KIDS build.   |   |
|        | <b>c</b> Compare Transport Global to Current System: This option will allow you to view all changes that will be made when this patch is installed. It compares all components of this patch (routines, Data Dictionaries (DD's), templates, etc.).     |   |
|        | <b>d</b> Backup a Transport Global: This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.  |   |
| 6      | The pre-installation routine for this patch checks to be sure the task Initialize new registries (one time)   |   |

| Step # | Description  | ✓ |
|--------|--|---|
|        | <p>[ROR INITIALIZE] is not running. If it is, the user is informed of the task number found and that the job must finish or be terminated before the patch can be installed. The patch installation then exits, incomplete.</p> <p>The post-initialization routine for this patch schedules the Initialize new registries (one time) [ROR INITIALIZE] task to run. During the installation, there are a series of questions that must be answered that will be used to schedule this task. Enter the responses that are appropriate for your site.</p> <p>Use the Install Package(s) option and select the package <b>ROR*1.5*21</b>. The following will display:</p> <p>Checking Install for Package ROR*1.5*21<br/>Will first run the Environment Check Routine, RORP021</p> <p>Install Questions for ROR*1.5*21</p> <p>Incoming Files:</p> <p>798.1 ROR REGISTRY PARAMETERS (including data)<br/>Note: You already have the 'ROR REGISTRY PARAMETERS' File.<br/>I will MERGE your data with mine.</p> <p>798.2 ROR SELECTION RULE (including data)<br/>Note: You already have the 'ROR SELECTION RULE' File.<br/>I will MERGE your data with mine.</p> <p>798.5 ROR ICD SEARCH (including data)<br/>Note: You already have the 'ROR ICD SEARCH' File.<br/>I will MERGE your data with mine.</p> <p>799.31 ROR XML ITEM (including data)<br/>Note: You already have the 'ROR XML ITEM' File.<br/>I will MERGE your data with mine.</p> <p>799.51 ROR GENERIC DRUG (including data)<br/>Note: You already have the 'ROR GENERIC DRUG' File.<br/>I will OVERWRITE your data with mine.</p> |   |

| Step # | Description   | ✓ |
|--------|---|---|
|        | <p>*****</p> <p>* Enter the parameters to be used for the automatic scheduling *<br/> * of the registry initialization task ROR INITIALIZE after the *<br/> * patch is installed. *</p> <p>*****</p> <p>Maximum number of registry update subtasks: (0-10): 5//</p> <p>Suspend the post-install during the peak hours ? YES//<br/> [the following 2 questions are only asked if the response to this question is YES]</p> <p>Suspension start time: 7:00AM//</p> <p>Suspension end time: 6:00PM//</p> <p>.</p> <p>Date/Time to run the new registry initialize task:<br/> 1/14/14@13:33//</p> |   |
| 7      | When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond "NO".   |   |
| 8      | When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond "NO".   |   |
| 9      | <p>Enter the Device you want to print the Install message.</p> <p>You can queue the install by enter a 'Q' at the device prompt.</p> <p>Enter a '^' to abort the install.</p>   |   |



**GO TO:** [Installing the Graphical User Interface](#)

## 4. Installing the Graphical User Interface

### 4.1 Background Information

- The current CCR [Graphical User Interface \(GUI\)](#) provides access to both [Hepatitis C](#) and [HIV](#) registries.
- It is *strongly recommended* that the CCR GUI be installed on a file server and the CCR application be made available to the CCR users via the [Computerized Patient Record System \(CPRS\)](#) Tool menu. Installing the CCR GUI on workstations is *not recommended*.


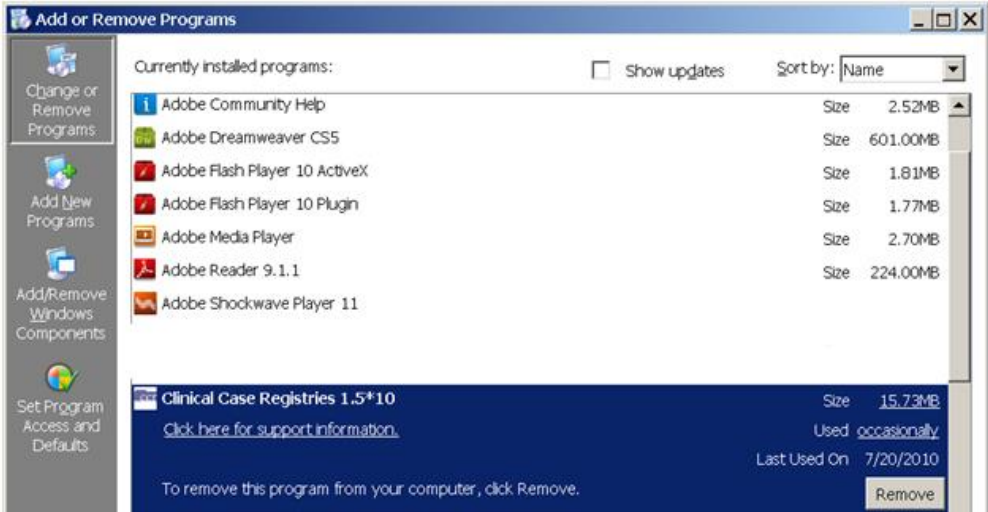
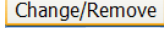


- Access to the registries is controlled by the [security keys](#) within VistA.
- For users who have access to a single registry, its window will be opened automatically by the GUI. Users who have access to both registries will be able to select a registry from a list.
- The GUI supports the `/NOCCOW` command-line parameter that completely disables the [CCOW](#) functionality. It also supports the parameter `/CCOW=PatientOnly`, which disables only the [Single Sign-On](#)/User Context (SSO/UC) functionality.

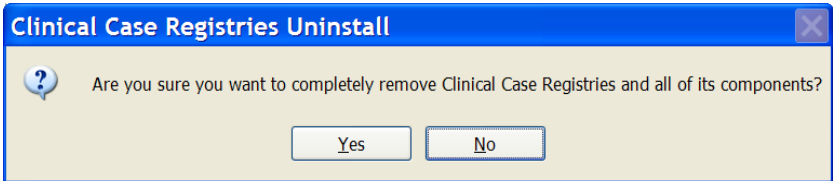
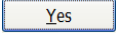
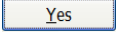
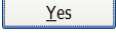

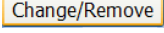

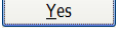


## 4.2 Uninstalling Older Software Versions

**If you are doing a first-time installation:** There should not be any old software to be uninstalled. If you don't know whether old software is present, use the uninstall procedure in [Table 7](#) just to be sure! If you are certain that no previous GUI software has been installed, you may skip to section [4.3 on page 12](#).

**If you are doing an upgrade:** To eliminate any chance for errors, it is *strongly recommended* that any older versions be uninstalled using the instructions in [Table 7](#).

**Table 7 – Uninstalling Previous GUI Versions**

| Step # | Description   | ✓ |
|--------|---|---|
| 1      | From the <b>Start</b> menu, select <b>Settings</b> , then <b>Control Panel</b> .  |   |
| 2      | <p>  Double-click the <b>Add or Remove Programs</b> icon. If you are not using Windows XP or Windows 7, the icon you see may vary. </p> <p>The Add or Remove Programs dialog appears:</p>  <p style="text-align: center;"><b>Figure 1 – Change/Remove or Remove Button</b></p>  |   |
| 2a     | <p>Look for any entries that include Clinical Case Registries 1.5* (or simply 1.5*) on the program list. If neither of these appears on the program list, skip to <a href="#">Step 9</a>. Note that releases of the GUI up until 1/13/2010 were shown simply as “1.5.xx” on the program list; following installation of the 1/13/2010 version, it will correctly display on the list as “Clinical Case Registries 1.5.xx.”</p> <p>   Select Clinical Case Registries from the list and click the <b>[Change/Remove]</b> or <b>[Remove]</b> button. </p> |   |
| 3      | <p>  If prompted, click the <b>[Next]</b> button. </p>  |   |

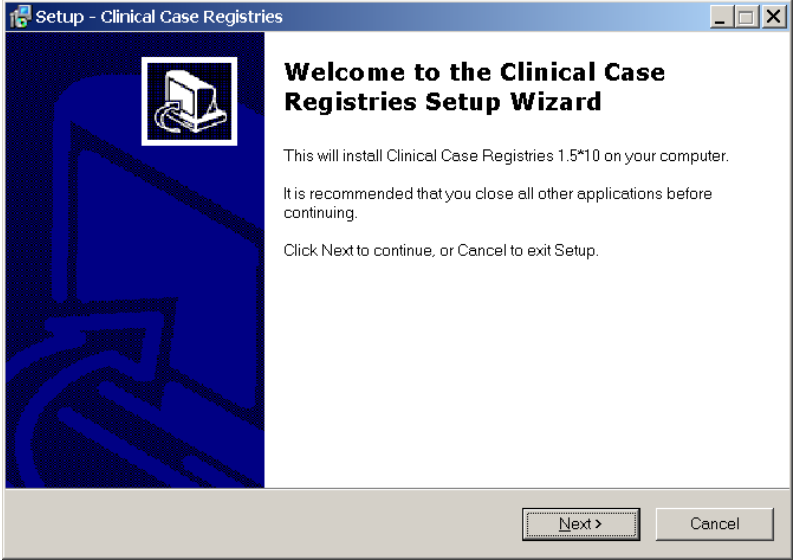

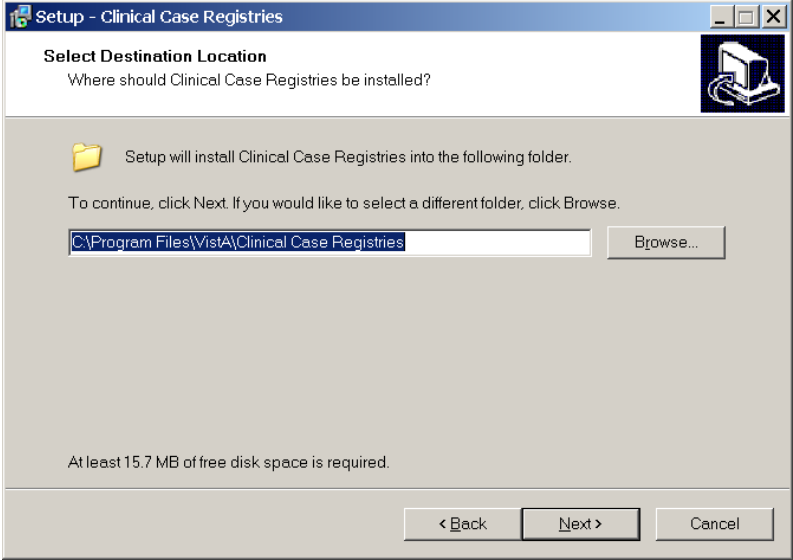
| Step # | Description  | ✓ |
|--------|--|---|
| 4      | <p>You will likely see a pop-up, asking you to confirm removal:</p>  <p><b>Figure 2 – Uninstall Confirmation</b></p>   |   |
| 5      |  Confirm the uninstall action by clicking the <b>[Yes]</b> or <b>[OK]</b> button.   |   |
| 6      |  Confirm deletion of read-only files by clicking the <b>[Yes]</b> button.   |   |
| 7      |  Confirm deletion of shared files by clicking the <b>[Yes]</b> button.  |   |
| 8      |  Wait until the Uninstall Wizard completes the removal and then click the <b>[Finish]</b> button.   |   |
| 9      | Look for Hepatitis C <b>Local Registry</b> on the program list. If this does not appear on the program list, skip to <b>Step 13</b> .  |   |
| 10     |   Select Hepatitis C <b>Local Registry</b> from the list and click the <b>[Change/Remove]</b> or <b>[Remove]</b> button. |   |
| 11     |   Confirm the uninstall action by clicking the <b>[Yes]</b> or <b>[OK]</b> button.                                     |   |
| 12     |  Wait until the Uninstall Wizard completes the removal and click the <b>[OK]</b> button.  |   |
| 13     | Close the <b>Add or Remove Programs</b> window and the <b>Control Panel</b> window.  |   |



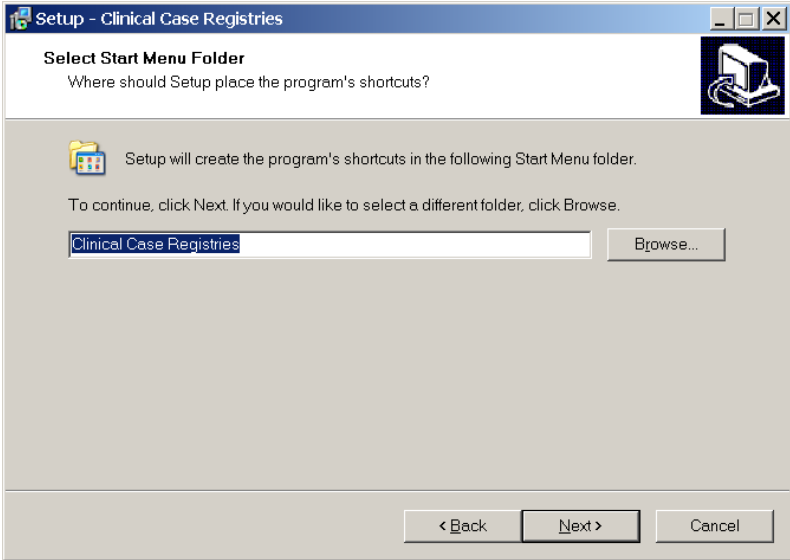


## 4.3 Installing New GUI

Download (see [1.6 above](#)) and install the new **GUI** using the instructions in [Table 8](#).

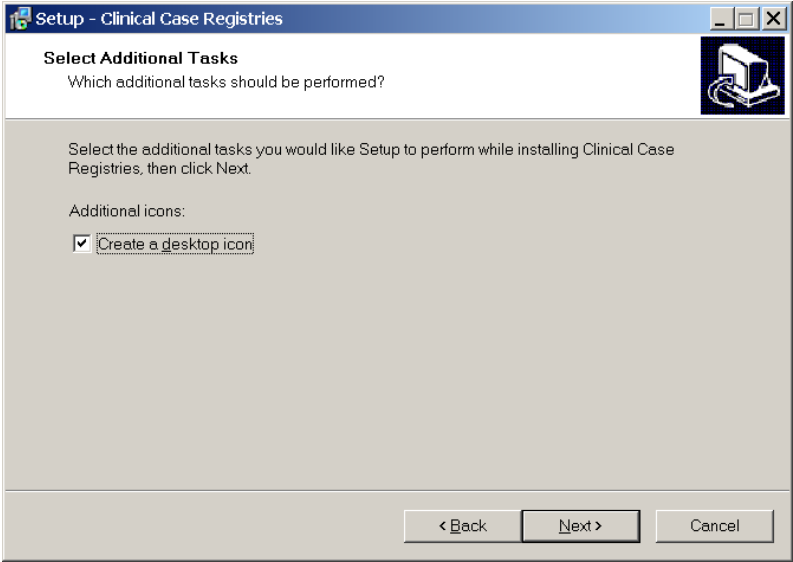
**Table 8 – Installing New GUI**


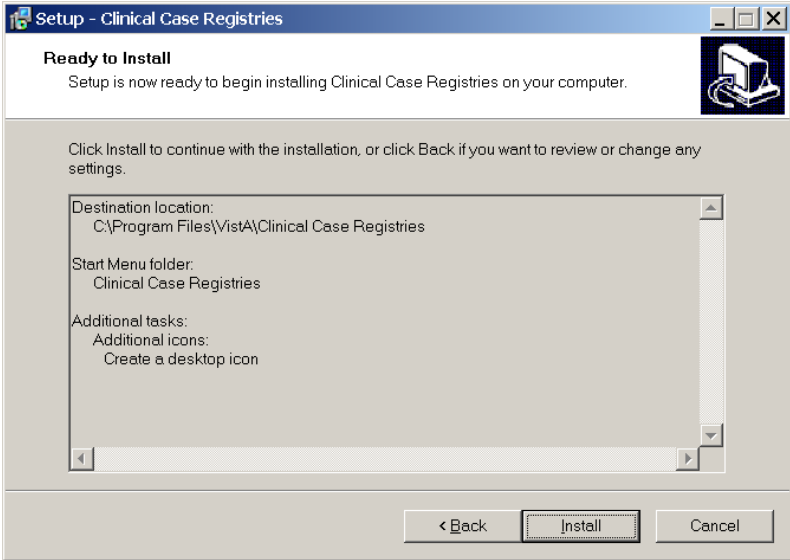

| Step # | Description   | ✓ |
|--------|---|---|
| 1      | Download and unzip the ROR1_5P21GUI.ZIP into a temporary directory.                         |   |
| 2      | Open the temporary directory and run (double-click) CCRSetup.exe to begin the installation. |   |



| Step # | Description   | ✓ |
|--------|---|---|
| 3      | <p>Wait until the setup wizard prepares the setup procedure. A welcome message displays:</p>  <p style="text-align: center;"><b>Figure 3 – Setup Wizard Start</b></p>   |   |
| 4      | <p> Click <b>[Next]</b> to continue the installation.</p> <p>The Select Destination Location dialog displays:</p>  <p style="text-align: center;"><b>Figure 4 – Setup Wizard Directory Confirmation</b></p> |   |

| Step # | Description  | ✓ |
|--------|--|---|
| 5      | <p>Select the directory in which to install the CCR GUI. We recommend that you accept the default directory: C:\Program Files\VistA\Clinical Case Registries\.</p> <p> To select a different location, click [<b>Browse...</b>] and select the directory.</p> <p> Click [<b>Next</b>] to continue the installation.</p> <p>The Select Start Menu Folder dialog displays:</p>  <p><b>Figure 5 – Select Start Menu Folder</b></p> |   |
| 6      | <p>We recommend that you accept the default directory: Clinical Case Registries.</p> <p> To select a different location, click [<b>Browse...</b>] and select the directory.</p> <p> Click [<b>Next</b>] to continue the installation.</p>  |   |



| Step<br># | Description  | ✓ |
|-----------|--|---|
|           | <p>The Select Additional Tasks dialog appears:</p>  <p style="text-align: center;"><b>Figure 6 – Select Additional Tasks</b></p> |   |

| Step # | Description   | ✓ |
|--------|---|---|
| 7      | <p>If you want a desktop icon, leave the checkbox checked; otherwise, clear the checkbox.</p> <p> Click <b>[Next]</b> to continue the installation.</p> <p>The Ready to Install dialog displays:</p>  <p><b>Figure 7 – Ready to Install</b></p> |   |
| 8      | <p> Review the installation settings and click <b>[Install]</b> to proceed.</p> <p>The Wizard finishes the installation and a confirmation screen displays:</p>  |   |

| Step # | Description   | ✓ |
|--------|---|---|
|        |  <p>Figure 8 – Installation Confirmation</p> |   |
| 9      |  Click <b>[Finish]</b> .   |   |




**If you installed the CCR GUI on a file server (recommended):**

Continue with [Table 9](#) immediately below.

**If you installed the CCR GUI on user workstations (not recommended):**

Continue with [4.4 on page 19](#).

**Table 9 – Installing New GUI on a File Server**

| Step # | Description   | ✓ |
|--------|---|---|
| 10     | <p><b>If you installed the CCR GUI on a file server (recommended):</b></p> <div>  <p><b>Note:</b> If you have previously set up the CPRS Tools menu (as for a previous version of CCR), you should not have to perform this step. Go to the <a href="#">End Note</a> on page 22.</p> </div> <p>Add the corresponding item to the CPRS Tool menu using the CPRS GUI Tools Menu [ORW TOOL MENU ITEMS] option.</p> <p>It is recommended that you add the item at “User” level.</p> <p>If you used the default directory for the installation, the “Name=Command” parameter should look like this:</p> <p>Clinical Case Registries="C:\Program Files\Vista\Clinical Case Registries\ClinicalCaseRegistries.exe" /S="{<i>Server IP Address</i>}" /P="{<i>RPC Broker Port</i>}"</p> <p>Below is a typical configuration example:</p> <pre> &gt;D ^XUP  Setting up programmer environment Terminal Type set to: C-VT320  Select OPTION NAME: ORW TOOL MENU ITEMS  CPRS GUI Tools Menu may be set for the following:        1  User          USR      [choose from NEW PERSON]       2  Location      LOC      [choose from HOSPITAL LOCATION]       2.5 Service      SRV      [choose from SERVICE/SECTION]       3  Division      DIV      [HINES DEVELOPMENT]       4  System        SYS      [DEV.DEV.FO-HINES.MED.VA.GOV]       9  Package       PKG      [ORDER ENTRY/RESULTS REPORTING]  Enter selection: 1 Select NEW PERSON NAME: CCRUSER,ONE  ----- Setting CPRS GUI Tools Menu for User: CCRUSER,ONE ----- Select Sequence: 10 Are you adding 10 as a new Sequence? Yes// &lt;RET&gt;  Sequence: 10// &lt;RET&gt; Name=Command: Clinical Case Registries="C:\Program Files\Vista\Clinical Case Registries\ClinicalCaseRegistries.exe" /S="10.3.29.201" /P=9200 Select Sequence: &lt;RET&gt; </pre> |   |

| Step # | Description  | ✓ |
|--------|--|---|
|        | <p>Please refer to the GUI Tool Menu Items section of the <i>Computerized Patient Record System (CPRS) v1.0 Setup Guide</i> (<a href="http://www.va.gov/vdl/application.asp?appid=61">http://www.va.gov/vdl/application.asp?appid=61</a>) for more details.</p> <p>You can also use other command-line parameters described in <a href="#">4.5 below</a> to further customize the menu item (limit access to a single registry, disable <a href="#">CCOW</a>, etc.).</p> |   |

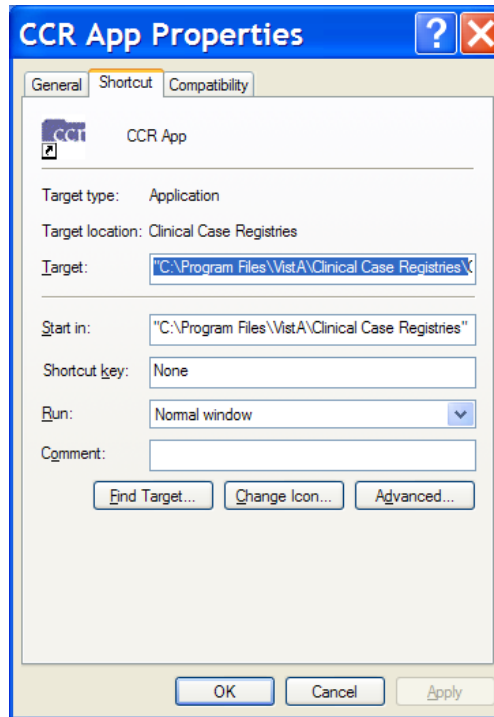
## 4.4 Configuring Desktop Application Parameters



**Note:** Follow these instructions *only* if you elected to install the GUI on user workstations (not recommended).

There are two ways to configure the GUI for those users who are coordinators of both [Hepatitis C](#) and [HIV](#) registries:

- **Single shortcut:** This is the default. A single shortcut is created on the desktop. When the GUI is launched (or when File, Open is selected from the menu), the user selects the desired registry from the list.
- **Separate shortcuts:** Two separate shortcuts are created, one for the [Hepatitis C](#) registry and one for the [HIV](#) registry. A command-line switch in each shortcut allows access only to a single registry. As a result, the registry selection dialog box is not displayed and the corresponding registry is opened automatically. This can be accomplished by adding the `/R` parameter after the executable name in the Target field of the shortcut. For example:



**Figure 9 – Configuring Desktop Parameters**

The Target field should read...

"C:\Program Files\Vista\Clinical Case Registries\ClinicalCaseRegistries.exe" /R="VA  
HEPC"

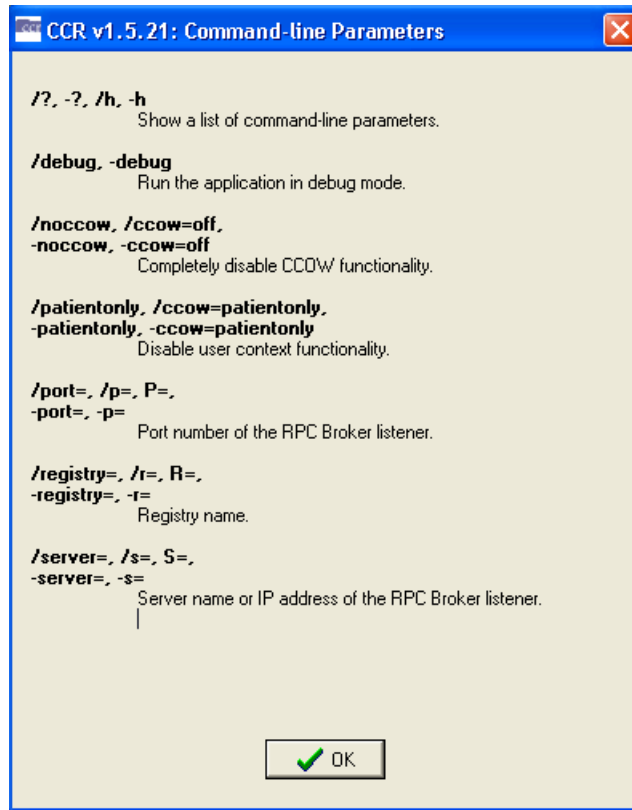
## 4.5 Command-Line Switches

You can get a list of command-line “switches” supported by the CCR GUI by running the application with the `/?` or `/h` parameter. For example:

**Start | Run | "C:\Program Files\Vista\Clinical Case Registries\ClinicalCaseRegistries.exe" /?**



Note the use of quotation marks around the “target” application name. These are required when using this method because the C:\Program Files\Vista directory is typically not in the *path* (the list of directories which the operating system searches for executable files).



**Figure 10 – Command-Line Switches**

The switches are also shown in [Table 10](#) for convenience.

**Table 10 – Command Line Switches**

| Switch   | Description  |
|--|--|
| /?, -?, /h, -h   | Show a list of command-line parameters   |
| /debug, -debug   | Run the application in debug mode  |
| /noccow, /ccow=off, -noccow, -ccow=off                           | Completely disable <a href="#">CCOW</a> functionality                          |
| /patientonly, /ccow=patientonly, -patientonly, -ccow=patientonly | Disable user context functionality   |
| /port=, /p=, P=, -port=, -p=                                     | Port number of the <a href="#">Remote Procedure Call Broker (RPC)</a> listener |
| /registry=, /r=, R=, -registry=, -r=                             | Registry name  |

| Switch                              | Description  |
|-------------------------------------|--|
| /server=, /r=, S=,<br>-server=, -s= | Server name or IP address of the RPC Broker listener |



Upgrading/installation and implementation are complete. Check documentation for further details. If you have not already downloaded the documentation files, see [1.6 Software and Manual Retrieval on page 3](#).

You may also find the documentation on the [VistA](#) Documentation Library (VDL) at <http://www.va.gov/vdl/application.asp?appid=126>.



## Glossary

A more complete glossary is included in the *CCR User Manual*.

| Term or Acronym                             | Description  |
|---|--|
| AAC   | See <a href="#">Austin Automation Center</a>   |
| Acquired Immunodeficiency Syndrome (AIDS)   | AIDS is a disease of the human immune system caused by the human immunodeficiency virus ( <a href="#">HIV</a> ). This condition progressively reduces the effectiveness of the immune system and leaves individuals susceptible to opportunistic infections and tumors.  |
| API   | See <a href="#">Application Programmer Interface</a>   |
| ADPAC                                       | See <a href="#">Automated Data Processing Application Coordinator</a>  |
| AIDS  | See <a href="#">Acquired Immunodeficiency Syndrome</a>   |
| AITC  | See <a href="#">Austin Information Technology Center</a>   |
| Application Program Interface (API)         | The interface (calling conventions) by which an application program accesses operating system and other services. An API is defined at source code level and provides a level of abstraction between the application and the <a href="#">kernel</a> (or other privileged utilities) to ensure the portability of the code. An API can also provide an interface between a high level language and lower level utilities and services which were written without consideration for the calling conventions supported by compiled languages. In this case, the API's main task may be the translation of parameter lists from one format to another and the interpretation of call-by-value and call-by-reference arguments in one or both directions. |
| Austin Automation Center (AAC)              | See <a href="#">Corporate Data Center Operations</a>   |
| Austin Information Technology Center (AITC) | See <a href="#">Corporate Data Center Operations</a>   |

| Term or Acronym   | Description  |
|---|--|
| Automated Data Processing Application Coordinator (ADPAC) | The ADPAC is the person responsible for planning and implementing new work methods and technology for employees throughout a medical center. ADPACs train employees and assist users when they run into difficulties, and needs to know how all components of the system work. ADPACs maintain open communication with their supervisors and Service Chiefs, as well as their counterparts in Fiscal and Acquisitions and Materiel Management (A&MM), or Information Resource Management (IRM).  |
| CCOW  | See <a href="#">Clinical Context Object Workgroup</a>  |
| Clinical Context Object Workgroup (CCOW)                  | <p>CCOW is an <a href="#">HL7</a> standard protocol designed to enable disparate applications to synchronize in real-time, and at the user-interface level. It is vendor independent and allows applications to present information at the desktop and/or portal level in a unified way.</p> <p>CCOW is the primary standard protocol in healthcare to facilitate a process called "Context Management." Context Management is the process of using particular "subjects" of interest (e.g., user, patient, clinical encounter, charge item, etc.) to 'virtually' link disparate applications so that the end-user sees them operate in a unified, cohesive way.</p> <p>Context Management can be utilized for both CCOW and non-CCOW compliant applications. The CCOW standard exists to facilitate a more robust, and near "plug-and-play" interoperability across disparate applications.</p> <p>Context Management is often combined with <a href="#">Single Sign-On</a> applications in the healthcare environment, but the two are discrete functions. Single Sign On is the process that enables the secure access of disparate applications by a user through use of a single authenticated identifier and password.</p> |

| Term or Acronym                           | Description   |
|---|---|
| Computerized Patient Record System (CPRS) | A Computerized Patient Record (CPR) is a comprehensive database system used to store and access patients' healthcare information. CPRS is the Department of Veteran's Affairs electronic health record software. The CPRS organizes and presents all relevant data on a patient in a way that directly supports clinical decision making. This data includes medical history and conditions, problems and diagnoses, diagnostic and therapeutic procedures and interventions. Both a <a href="#">graphical user interface</a> version and a character-based <a href="#">interface</a> version are available. CPRS provides a single interface for health care providers to review and update a patient's medical record, and to place orders, including medications, special procedures, x-rays, patient care nursing orders, diets, and laboratory tests. CPRS is flexible enough to be implemented in a wide variety of settings for a broad spectrum of health care workers, and provides a consistent, event-driven, Windows-style interface. |
| Corporate Data Center Operations (CDCO)   | Federal data center within the Department of Veterans Affairs (VA). As a franchise fund, or fee-for-service organization, CDCO-Austin provides cost-efficient IT enterprise solutions to support the information technology needs of customers within the Federal sector. Formerly the Austin Automation Center (AAC); formerly the Austin Information Technology Center (AITC). See <a href="http://www.cdco.va.gov/">http://www.cdco.va.gov/</a> .  |
| CPRS                                      | See <a href="#">Computerized Patient Record System</a>  |
| DBIA                                      | See <a href="#">Database Integration Agreement</a>  |
| DFN                                       | File Number—the local/facility patient record number (patient file internal entry number)   |
| Database Integration Agreement (DBIA)     | <b>M</b> code is not “compiled and linked,” so any code is open to anyone to call. The same is true for the data. This permits an incredible level of integration between applications, but it is “too open” for some software architects' liking. The VA has instituted Database Integration Agreements to enforce external policies and procedures to avoid unwanted dependencies.  |
| Data Extraction Process                   | This process is run after the registry update process. This function goes through patients on the <a href="#">local registry</a> and, depending on their status, extracts all available data for the patient, since the last extract was run. The extract transmits any collected data for the patient to the national database via <a href="#">HL7</a> .   |

| Term or Acronym | Description   |
|-----------------|---|
| FileMan         | <p>FileMan is a set of <b>M</b> utilities written in the late 1970s and early 1980s which allow the definition of data structures, menus and security, reports, and forms.</p> <p>Its first use was in the development of medical applications for the Veterans Administration (now the Department of Veterans Affairs). Since it was a work created by the government, the source code cannot be copyrighted, placing that code in the public domain. For this reason, it has been used for rapid development of applications across a number of organizations, including commercial products.</p>   |
| FORUM           | <p>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 (<i>e.g.</i>, a site administrator) can run a PackMan function to unpack the KIDS build and install the selected routines.</p> <p><i>See</i><br/> <a href="http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.100.5551&amp;rep=rep1&amp;type=pdf">http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.100.5551&amp;rep=rep1&amp;type=pdf</a></p> |

| Term or Acronym                | Description   |
|--------------------------------|---|
| Globals                        | <p><u>M</u> <i>globals</i> are variables which are intrinsically stored in files and persist beyond the program or process completion. Globals appear as normal variables with the caret character in front of the name. For example, the <b>M</b> statement...</p> <p>SET ^A("first_name")="Bob"</p> <p>...will result in a new record being created and inserted in the file structure, persistent just as a file persists in an operating system. Globals are stored, naturally, in highly structured data files by the language and accessed only as <b>M</b> globals. Huge databases grow randomly rather than in a forced serial order, and the strength and efficiency of <b>M</b> is based on its ability to handle all this flawlessly and invisibly to the programmer.</p> <p>For all of these reasons, one of the most common <b>M</b> programs is a database management system. <u>FileMan</u> is one such example. <b>M</b> allows the programmer much wider control of the data; there is no requirement to fit the data into square boxes of rows and columns.</p> |
| Graphical User Interface (GUI) | <p>A graphical user interface (or GUI, often pronounced “goeey”) is a graphical (rather than purely textual) user interface to a computer. A GUI is a particular case of user interface for interacting with a computer which employs graphical images and widgets in addition to text to represent the information and actions available to the user. Usually the actions are performed through direct manipulation of the graphical elements. A GUI takes advantage of the computer’s graphics capabilities to make the program easier to use.</p> <p>Sources:</p> <p><a href="http://en.wikipedia.org/wiki/GUI">http://en.wikipedia.org/wiki/GUI</a></p> <p><a href="http://www.webopedia.com/TERM/G/Graphical_User_Interface_GUI.html">http://www.webopedia.com/TERM/G/Graphical_User_Interface_GUI.html</a></p> <p>See also <u>User Interface</u></p>  |
| GUI                            | See <u>Graphical User Interface</u>   |

| Term or Acronym                        | Description  |
|--|--|
| Health Level 7 (HL7)                   | One of several American National Standards Institute (ANSI)–accredited Standards Developing Organizations operating in the healthcare arena. "Level Seven" refers to the highest level of the International Standards Organization's (ISO) communications model for Open Systems Interconnection (OSI)— the application level. The application level addresses definition of the data to be exchanged, the timing of the interchange, and the communication of certain errors to the application. The seventh level supports such functions as security checks, participant identification, availability checks, exchange mechanism negotiations and, most importantly, data exchange structuring. HL7 focuses on the interface requirements of the entire health care organization. Source: <a href="http://www.hl7.org/about/">http://www.hl7.org/about/</a> . |
| Hepatitis C                            | A liver disease caused by the hepatitis C virus (HCV). HCV infection sometimes results in an acute illness, but most often becomes a chronic condition that can lead to cirrhosis of the liver and liver cancer. See <a href="http://www.cdc.gov/hepatitis/index.htm">http://www.cdc.gov/hepatitis/index.htm</a>   |
| HIV                                    | See <a href="#">Human Immunodeficiency Virus</a>   |
| HL7                                    | See <a href="#">Health Level 7</a>   |
| Human Immunodeficiency Virus (HIV)     | HIV is a lentivirus (a member of the retrovirus family) that can lead to acquired immunodeficiency syndrome ( <a href="#">AIDS</a> ), a condition in humans in which the immune system begins to fail, leading to life-threatening opportunistic infections. HIV is different from most other viruses because it attacks the immune system. The immune system gives our bodies the ability to fight infections. HIV finds and destroys a type of white blood cell (T cells or CD4 cells) that the immune system must have to fight disease. See also <a href="#">AIDS</a> . See <a href="http://www.cdc.gov/hiv/topics/basic/index.htm">http://www.cdc.gov/hiv/topics/basic/index.htm</a> .  |
| ICD-9                                  | See <a href="#">International Statistical Classification of Diseases and Related Health Problems, ninth edition</a>  |
| Information Resources Management (IRM) | The service which is involved in planning, budgeting, procurement and management-in-use of VA's information technology investments.  |

| Term or Acronym   | Description  |
|---|--|
| Interface   | An interface defines the communication boundary between two entities, such as a piece of software, a hardware device, or a user.   |
| International Statistical Classification of Diseases and Related Health Problems, ninth edition (ICD-9) | The ninth edition provides numeric codes to classify diseases and a wide variety of signs, symptoms, abnormal findings, complaints, social circumstances and external causes of injury or disease. Every health condition can be assigned to a unique category and given a code, up to six characters long. Such categories can include a set of similar diseases. The “-9” refers to the ninth edition of these codes; the tenth edition has been published, but is not in widespread use at this time. |
| IRM   | See <a href="#">Information Resource Management</a>  |
| Kernel  | The <a href="#">VistA</a> software that enables VistA applications to coexist in a standard operating system independent computing environment.  |
| Kernel Installation and Distribution System (KIDS)  | KIDS provides a mechanism to create a distribution of packages and patches; allows distribution via a MailMan message or a host file; and allows queuing the installation of a distribution for off-hours.   |
| KIDS  | See <a href="#">Kernel Installation and Distribution System</a>  |
| Library   | In programming, a library is a collection of precompiled routines that a program can use. The routines, sometimes called modules, are stored in object format. Libraries are particularly useful for storing frequently used routines because you do not need to explicitly link them to every program that uses them. The linker automatically looks in libraries for routines that it does not find elsewhere.   |
| Local Registry  | The local file of patients that have either passed the selection rules (and therefore been added automatically), or that have been added manually by a designated ICR supervisor.  |
| Logical Observation Identifiers Names and Codes (LOINC)   | The LOINC database was developed to provide a definitive standard for identifying clinical information in electronic reports. The LOINC database provides a set of universal names and ID codes for identifying laboratory and clinical test results in the context of existing HL7 and other observation report messages.   |
| LOINC   | See <a href="#">Logical Observation Identifiers Names and Codes</a>  |

| Term or Acronym             | Description  |
|-----------------------------|--|
| M                           | <p><b>M</b> is a procedural, interpreted, multi-user, general-purpose programming language designed to build and control massive databases. It provides a simple abstraction that all data values are strings of characters, and that all data can be structured as multiple dimensional arrays. <b>M</b> data structures are sparse, using strings of characters as subscripts.</p> <p><b>M</b> was formerly (and is still commonly) called MUMPS, for <i>Massachusetts General Hospital Utility Multiprogramming System</i>.</p>   |
| MUMPS                       | See <b>M</b>   |
| Namespace                   | <p>A logical partition on a physical device that contains all the artifacts for a complete <b>M</b> system, including <b>globals</b>, <b>routines</b>, and <b>libraries</b>. Each namespace is unique, but data can be shared between namespaces with proper addressing within the routines. In <b>VistA</b>, namespaces are usually dedicated to a particular function. The <b>ROR</b> namespace, for example, is designed for use by <b>CCR</b>.</p>   |
| National Case Registry      | All sites running the ICR registry transmit their data to this central data registry.  |
| Remote Procedure Call (RPC) | <p>A type of protocol that allows one program to request a service from a program located on another computer network. Using RPC, a system developer need not develop specific procedures for the server. The client program sends a message to the server with appropriate arguments and the server returns a message containing the results of the program executed. In this case, the GUI client uses an RPC to log the user on to <b>VistA</b>. And to call up, and make changes to, data that resides on a <b>VistA</b> server.</p> <p>See also <b>Remote Procedure Call (RPC) Broker</b></p> |



| Term or Acronym                              | Description   |
|--|---|
| Remote Procedure Call (RPC) Broker           | <p>A piece of middleware software that allows programmers to make program calls from one computer to another, via a network. The <a href="#">RPC Broker</a> establishes a common and consistent foundation for client/server applications being written under the <a href="#">VistA</a> umbrella. The RPC Broker acts as a bridge connecting the client application front-end on the workstation (in this case, the Delphi Query Tool application) to the M –based data and business rules on the server. It serves as the communications medium for messaging between VistA client/server applications. Upon receipt, the message is decoded, the requested remote procedure call is activated, and the results are returned to the calling application. Thus, the RPC Broker helps bridge the gap between the traditionally proprietary VA software and other types of software.</p> <p><i>See also</i> <a href="#">Remote Procedure Call (RPC)</a></p> |
| Routine                                      | A section of a software program that performs a particular task. Programs consist of modules, each of which contains one or more routines. The term routine is essentially synonymous with procedure, function, and subroutine.   |
| RPC  | <i>See</i> <a href="#">Remote Procedure Call (RPC)</a>  |
| RPC Broker                                   | <i>See</i> <a href="#">Remote Procedure Call Broker</a>   |
| Security Keys                                | Codes which define the characteristic(s), authorization(s), or privilege(s) of a specific user or a defined group of users. The <a href="#">VistA</a> option file refers to the security key as a “lock.” Only those individuals assigned that “lock” can use a particular VistA option or perform a specific task that is associated with that security key/lock.  |
| Single Sign On                               | Single Sign On is the process that enables the secure access of disparate applications by a user through use of a single authenticated identifier and password.   |
| Technical Services Project Repository (TSPR) | <p>The TSPR is the central data repository and database for VA Health IT (VHIT) project information.</p> <p><i>See</i> <a href="http://tspr.VistA.med.va.gov/tspr/default.htm">http://tspr.VistA.med.va.gov/tspr/default.htm</a></p>  |
| TSPR   | <i>See</i> <a href="#">Technical Services Project Repository</a>  |

| Term or Acronym   | Description  |
|---|--|
| User Interface  | <p>A user interface is the means by which people (the users) interact with a particular machine, device, computer program or other complex tool (the system). The user interface provides one or more means of:</p> <ul style="list-style-type: none"> <li>• Input, which allows the users to manipulate the system</li> <li>• Output, which allows the system to produce the effects of the users' manipulation</li> </ul> <p>The interface may be based strictly on text (as in the traditional “roll and scroll” IFCAP interface), or on both text and graphics.</p> <p>In computer science and human-computer interaction, the user interface (of a computer program) refers to the graphical, textual and auditory information the program presents to the user, and the control sequences (such as keystrokes with the computer keyboard and movements of the computer mouse) the user employs to control the program.</p> <p><i>See also</i> <a href="#">Graphical User Interface</a></p> |
| VDL   | <i>See</i> VistA Software Document Library.  |
| Vergence  | <p>Vergence® software from Sentillion provides a single, secure, efficient and safe point of access throughout the healthcare enterprise, for all types of caregivers and applications. Vergence unifies single sign-on, role-based application access, context management, strong authentication and centralized auditing capabilities into one fully integrated, out-of-the box clinical workstation solution.</p> <p><i>See</i> <a href="http://www.sentillion.com/solutions/datasheets/Vergence-Overview.pdf">http://www.sentillion.com/solutions/datasheets/Vergence-Overview.pdf</a>.</p>  |
| Veterans Health Information Systems and Technology Architecture (VistA) | <p>VistA is a comprehensive, integrated health care information system composed of numerous software modules.</p> <p><i>See</i> <a href="http://www.va.gov/VistA_monograph/docs/2008VistAHealtheVet_Monograph.pdf">http://www.va.gov/VistA_monograph/docs/2008VistAHealtheVet_Monograph.pdf</a> and <a href="http://www.virec.research.va.gov/DataSourcesName/VISTA/VISTA.htm">http://www.virec.research.va.gov/DataSourcesName/VISTA/VISTA.htm</a>. ~</p>   |
| Veterans Health Administration (VHA)                                    | <p>VHA administers the United States Veterans Healthcare System, whose mission is to serve the needs of America's veterans by providing primary care, specialized care, and related medical and social support services.</p>   |

| Term or Acronym                            | Description   |
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| Veterans Integrated Service Network (VISN) | <u>VHA</u> organizes its local facilities into networks called VISNS (VA Integrated Service Networks). At the VISN level, VistA data from multiple local facilities may be combined into a data warehouse.  |
| VHA  | See <u>Veterans Health Administration</u>   |
| VISN                                       | See <u>Veterans Integrated Service Networks</u>   |
| VistA                                      | See <u>Veterans Health Information System and Technology Architecture</u>   |
| VistA Software Document Library (VDL)      | <p>This web site has documentation on the various nationally released software applications created and/or used by the VA. There are four sections: Clinical, Infrastructure, Financial-Administrative, and Health<sub>e</sub>Vet. Typically, the documentation set includes user manual or guide, technical manual or systems management guide, installation guide, release notes, and similar items.</p> <p>See <a href="http://www4.va.gov/vdl/">http://www4.va.gov/vdl/</a></p> |