

**CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598)**  
**Deployment, Installation, Back-Out, and Rollback**  
**Guide (DIBOR)**



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## **Artifact Rationale**

This document describes the Deployment, Installation, Back-out, and Rollback Plan for new products going into the VA Enterprise. The plan includes information about system support, issue tracking, escalation processes, and roles and responsibilities involved in all those activities. Its purpose is to provide clients, stakeholders, and support personnel with a smooth transition to the new product or software, and should be structured appropriately, to reflect particulars of these procedures at a single or at multiple locations.

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# 1 Introduction

The Computerized Patient Record System (CPRS) is a Veterans Health Information Systems and Technology Architecture (VistA) application package. CPRS enables you to enter, review, and continuously update information connected with a patient. With CPRS, you can order lab tests, medications, diets, radiology tests and procedures, record a patient's allergies or adverse reactions to medications, request and track consults, enter progress notes, diagnoses, and treatments for each encounter, and enter discharge summaries. In addition, CPRS supports clinical decision-making and enables you to review and analyze patient data.

This document describes how to deploy and install CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598), which includes the OR\*3.0\*598 patch and a graphical user interface (GUI) executable. It also describes how to back-out the product and rollback to a previous version or data set.

## 1.1 Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom the CPRS v32.221.1 EMERGENCY GUI and patch OR\*3.0\*598 will be deployed and installed, as well as how it is to be backed out and rolled back, if necessary. The plan also identifies the resources, a communications plan, and a rollout schedule.

## 1.2 Dependencies

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) requires a fully patched VistA system.

## 1.3 Constraints

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) is a single patch build (a Kernel Installation and Distribution System or KIDS build) and a GUI executable. The build is installed on the server and the executable can be placed on individual workstations, on a VA Application Consolidated Server (VACS), on a Cloud Server, or on a Citrix server.

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) is 508 compliant and uses the same security measures as VistA. Users will authenticate using either their Personal Identification Verification (PIV) card or access and verify codes.

## 2 Roles and Responsibilities

**Table 1: Deployment, Installation, Back-out, and Rollback Roles and Responsibilities**

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
	CPRS Software Quality Assurance (SQA) team and field test sites	Deployment	Test for operational readiness.	
	Application Coordinators	Release Deployment	Review patches for release readiness and release patches for deployment.	
	Health Infrastructure and Systems Management (HISM) and Local sites	Installation	Based on deployment date, HISM coordinates specific dates and times with sites, VISNs. HISM will perform the actual installation.	
	Sites	Installation	Ensure authority to operate and that certificate authority security documentation is in place.	
	CPRS Implementation Team	Installation	Provide support, as needed, for installation.	
	CPRS Implementation Team, HISM, and Area Manager	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out).	
	CPRS Implementation Team, Product Support, and CPRS sustainment teams.	Post Deployment	Software Support will be provided by the CPRS Implementation Team during warranty period, which is 90 days after national release. Support then changes to the normal ticketing process.	

## 3 Deployment

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) will be an emergency release and will follow the procedures for an emergency patch. There will be both a graphical user interface (GUI) component and a Kernel Installation & Distribution System (KIDS) file.

### 3.1 Timeline

It is anticipated that CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) will be released as an emergency patch that will need to be installed within 15 days of national release.

## 3.2 Site Readiness Assessment

The CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) and the accompanying GUI executable will be deployed to all VistA instances. The patches will be installed on the server and the GUI executable will be installed on a VACS server, on a Citrix server, in the cloud, or on local workstations or on a combination of them, depending on how the site is set up.

This section discusses the locations that will receive the CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) deployment.

### 3.2.1 Deployment Topology (Targeted Architecture)

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) will be deployed to all VistA instances. There is a server component and a GUI executable.

### 3.2.2 Site Preparation

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) does not require any special site preparation.

## 3.3 Resources

No additional resources are required.

### 3.3.1 Software

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) requires a fully patched VistA System for installation.

### 3.3.2 Communications

For national release, sites will receive communication that the release has occurred, which will normally be an Action Item or Bulletin.

Sites will use their internal communications to let their users know about upcoming installations and any associated downtime. This is critical as users can often slow the installation process if they are on the system while installers are trying to get the software installed.

Clinical Application Coordinators (CACs), installers, and other site personnel (as determined by the site) will need to coordinate installation dates and times. In addition, other support personnel need to be consulted – such as the Citrix support, Cloud support, and Client Technologies (if required).

#### 3.3.2.1 Deployment/Installation Checklist

Table 2 captures the coordination effort and documents the day/time when each activity (deploy and install) is completed for a project. It also lists the individual who performed the task.

**Table 2: Deployment/Installation**

Activity	Day	Time	Individual who completed task
Install OR Patch			
Deploy CPRS GUI			

## 4 Pre-Installation Steps

This release should not require any changes to the current environment.

### 4.1 Locking General User Access to CPRS GUI

When a user launches the CPRS GUI, the underlying VistA system checks to see if the user has access to the OR CPRS GUI CHART entry in the OPTION (#19) file. If the user has access to the option, they can continue opening the CPRS GUI. Locking an option with a security key is a long-standing VistA feature that is applied to the usage of OR CPRS GUI CHART, released previously under CPRS v32a.

The ability to run the CPRS GUI can be restricted by adding the OR CPRS TESTER security key to the OR CPRS GUI CHART entry's LOCK (#3) field in the OPTION (#19) file. The primary benefit of restricting access to CPRS GUI is reducing the potential for errors from users accessing the software before post-installation configuration has completed.

When the lock is activated in a VistA system, only users who hold either the OR CPRS TESTER or XUPROGMODE security keys will be able to launch the CPRS GUI against that VistA system. Until the lock is deactivated, all other users who attempt to launch the CPRS GUI in that VistA system will receive an "option is locked" error message. Since option locking is a VistA feature, locking access to OR CPRS GUI CHART in a test VistA system has no effect on a user's ability to access OR CPRS GUI CHART in a production VistA system.

**IMPORTANT:** Prior to installing CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598), facility staff must create a list of users to whom the OR CPRS TESTER key shall be assigned. Typically, this would be informatics staff involved with testing and configuring a new version of CPRS GUI. These names will be used in section 4.1.2 - VistA Read Only and Locking CPRS

**IMPORTANT:** If sites choose to lock CPRS GUI as described in this section 4.1, users will also be prevented from accessing VistA Read Only. During the CPRS v32b deployment, it was discovered that locking the CPRS GUI chart option also locked VistA Read Only. This was unexpected and caused problems for sites that were going to use VistA Read Only as their contingency plan for the CPRS downtime.

Assigning the OR CPRS TESTER Key.



### 4.1.1 VistA Read Only and Locking CPRS

**IMPORTANT:** If sites choose to lock CPRS GUI as described in this section 4.1, users will also be prevented from accessing VistA Read Only. During the CPRS v32b deployment, it was discovered that locking the CPRS GUI chart option also locked VistA Read Only. This was unexpected and caused problems for sites that were going to use VistA Read Only as their contingency plan for the CPRS downtime.

### 4.1.2 Assigning the OR CPRS TESTER Key

To allocate the OR CPRS TESTER key to users identified in the “Locking General User Access to CPRS GUI” section, CACs may use the CPRS Configuration (Clin Coord) [OR PARAM COORDINATOR MENU] menu’s Allocate OE/RR Security Keys [ORCL KEY ALLOCATION] option.

OR CPRS TESTER will be the last security key presented when using this allocation option.

**Note:** Once the OR CPRS GUI CHART option is locked, some users will not be displayed in the provider selection box(es) in CPRS. Only OR CPRS TESTER key users will be displayed in some places.

### 4.1.3 Locking the OR CPRS GUI CHART Option

**Note:** Post-install testers need to know that once the OR CPRS GUI CHART option is locked, some users’ names will not display in the provider selection box(es) in CPRS.

**VistA Applications Support--To enact the locking and allow only authorized users to open CPRS GUI:**

1. At the Systems Manager Menu Option prompt, type **Menu Management** and press <Enter>.
2. At the Select Menu Management Option prompt, type **Edit Options** and press <Enter>.
3. At the Select OPTION to edit prompt, type **OR CPRS GUI CHART** and press <Enter>.
4. At the NAME prompt, it should read ‘OR CPRS GUI CHART’. Accept the name by pressing <Enter>.
5. At the MENU TEXT prompt, press <Enter>.
6. At the PACKAGE prompt, press <Enter>.
7. At the OUT OF ORDER MESSAGE prompt, press <Enter>.
8. At the LOCK prompt, type **OR CPRS TESTER** and press <Enter>.

**Note:** Holders of the XUPROGMODE key are exempt from this option file locking mechanism. This is an existing feature of the Kernel Menu Management module.

```
<CPM> Select Systems Manager Menu Option: MENU Management
```

```

Edit options
Key Management ...
Secure Menu Delegation ...
Restrict Availability of Options
Option Access By User
List Options by Parents and Use
Fix Option File Pointers
Help Processor ...
OPED Screen-based Option Editor
      Display Menus and Options ...
      Menu Rebuild Menu ...
      Out-Of-Order Set Management ...
      See if a User Has Access to a Particular Option
      Show Users with a Selected primary Menu

<CPM> Select Menu Management Option: EDIT Options

Select OPTION to edit: OR CPRS GUI CHART          CPRSChart version 1.32.221.1
NAME: OR CPRS GUI CHART//
MENU TEXT: CPRSChart version 1.32.221.1  Replace
PACKAGE:
OUT OF ORDER MESSAGE:
LOCK: OR CPRS TESTER
REVERSE/NEGATIVE LOCK: ^

```

## 5 Installation

### 5.1 Pre-installation and System Requirements

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) should not require any changes to the current environment. Pre-installation instructions are in section 4.

### 5.2 Platform Installation and Preparation

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) should follow a normal CPRS installation.

### 5.3 Download and Extract Files

For CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598), installers should download the following files:

- OR\_30\_598.ZIP
- OR\_30\_598\_SRC.ZIP
- OR\_30\_598.KID

**Note:** The “SRC” zip file is an optional download only used by select VAMC facilities and is not required for installation of CPRS GUI.

The contents of the files are listed below:

File Name	Contents	Retrieval Format
OR_30_598.ZIP	CPRSCart.exe RoboEx32.dll borIndmm.dll CPRSCart.map CRC.TXT YS_MHA_A_XE10.dll HELP Directory	BINARY
OR_30_598_SRC.ZIP	CPRS 32.221.1 Source	BINARY
OR_30_598.KID	CPRS Version Update	ASCII

The DLLs, YS\_MHA\_A\_XE10.dll, RoboEx32.dll, borIndmm.dll, and the Help content were not changed since CPRS v32b (version 220.1, OR\*3.0\*405) was released, but they are included in the downloaded files. However the Vitals DLL is not. Someone will need to Copy your site's current version of the Vitals DLL into the directory/folder where you placed the CPRS executable. The current version is GMV\_VitalsViewEnter.dll version 5.0.43.2. This is covered in section [5.7.2.3 DLL Installation](#).

The CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) files can be downloaded using the following steps:

1. Download the CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) host file using the following path: /srv/vista/patches/SOFTWARE/OR\_30\_598.KID
2. To download the documentation and other files, such as the GUI executable, use the following location: <https://download.vista.med.va.gov/index.html/SOFTWARE>

## 5.4 Installation Scripts

N/A

## 5.5 Cron Scripts

N/A

## 5.6 Access Requirements and Skills Needed for the Installation

- Clinical Application Coordinators (CACs) will be available for configuration, testing, and troubleshooting.
- HISM installer with programmer access is available.

## 5.7 Installation Procedure for CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) Software

### 5.7.1 OR\_30\_598.KID

OR\_30\_598.KID should not be installed with CPRS users on the system. It is recommended that you install it during non-peak hours to minimize potential disruptions to users. This patch should take less than 5 minutes to install.

**WARNING:** Do not queue the installation. Installation of a CPRS upgrade should not be queued.

#### Installation Instructions:

1. From the Kernel Installation and Distribution menu, select the Installation menu.
2. From the Installation menu, select the Load a Distribution option and enter the location of the Host File, /srv/vista/patches/SOFTWARE/OR\_30\_598.KID.
3. From the Installation menu, you may elect to use the following options. When prompted for the INSTALL NAME, enter 'OR\*3.0\*598'.

**Note: For this release of CPRS, creating a backup build is required.**

- a. Backup a Transport Global - Create a complete backup Build that will include any/all files, fields, routines, components, etc.
  - 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, DD's, templates, etc.).
  - c. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.
4. From the Installation Menu, select the Install Package(s) option and choose the patch to install.
  5. When prompted with 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', select 'NO'.
  6. When prompted with 'Want KIDS to INHIBIT LOGONs during the install? NO//', select 'NO'.
  7. When prompted with 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', select 'NO'.
  8. If prompted with 'Delay Install (Minutes): (0 – 60): 0//', select '0'.

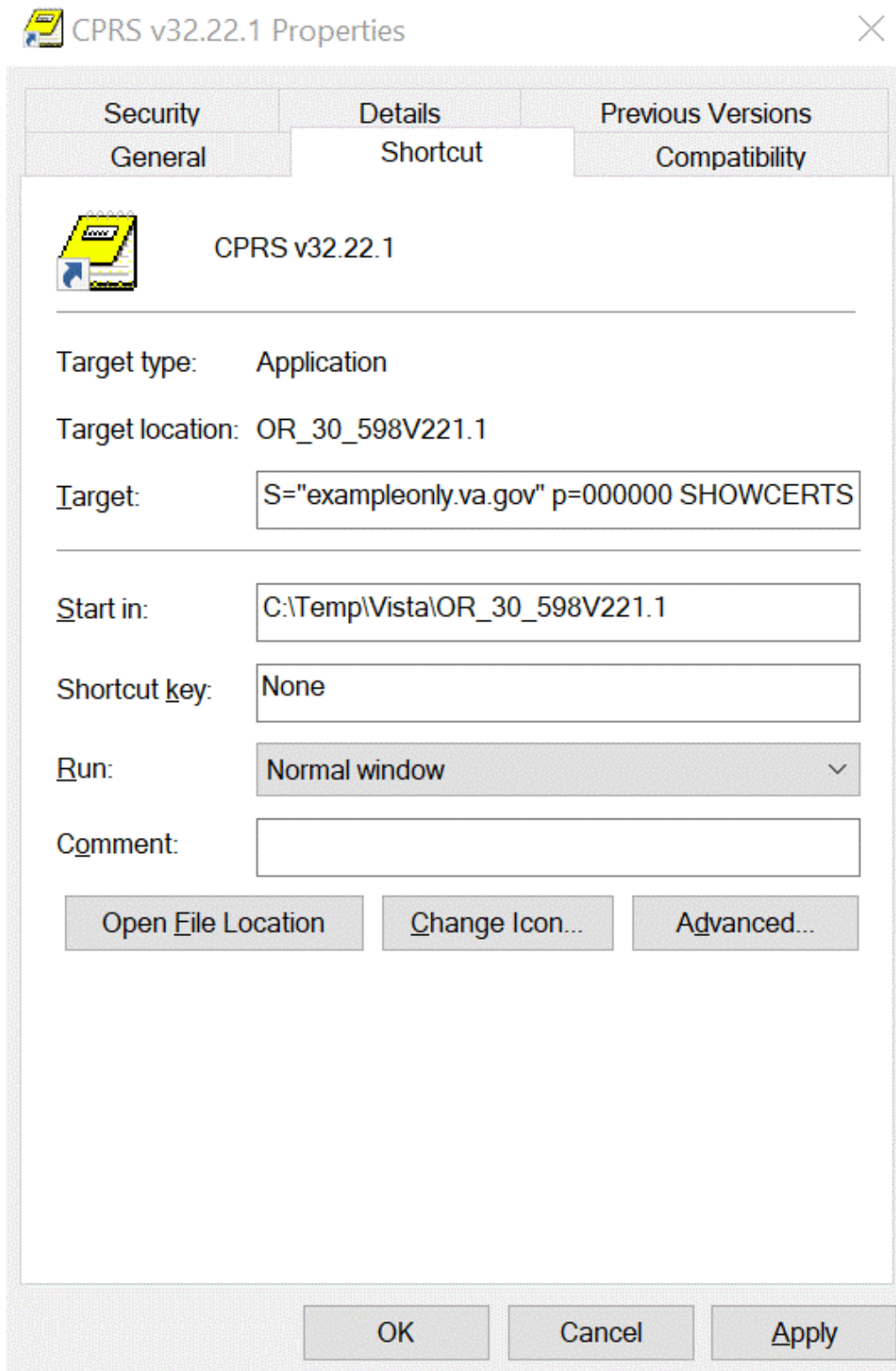
## 5.7.2 OR\_30\_598.ZIP

OR\_30\_598.ZIP contains the CPRS GUI executable file and the following DLL files for CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598): YS\_MHA\_A\_XE10.dll, RoboEx32.dll, and Borlndmm.dll for CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598). Download the ZIP file and extract all the files in it.

### 5.7.2.1 CPRS GUI Executable Methods of Installation

**Note:** CPRS works with the RPC Broker client to auto select the correct PIV certificate, so the selection dialog no longer displays. However, if there are multiple certificates on a machine, the wrong one may be auto selected. To alleviate this issue, add SHOWCERTS to the end of the CPRS Shortcut properties' Target field of the CPRS Shortcut as shown below. SHOWCERTS will force the display of the certificate selection window.

**Figure 1: Example of the Target Field with SHOWCERTS**



Sites are using these methods to distribute the application:

- **Network (shared) Installation:**

The executable is placed on a network drive, with a shortcut on users' desktops. The executable is replaced when no users are accessing the GUI program. There are no changes necessary to this method of installation—local policies and procedures should be followed.

- **Citrix Installation:**

The executable is run on a remote workstation and the user views the screen remotely. There are no changes necessary to this method of installation—local policies and procedures should be followed.

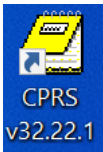
- **Manual Install:**

This method is used primarily for debugging purposes, or for emergency or specific testing situations.

### 5.7.2.2 Manual Installation

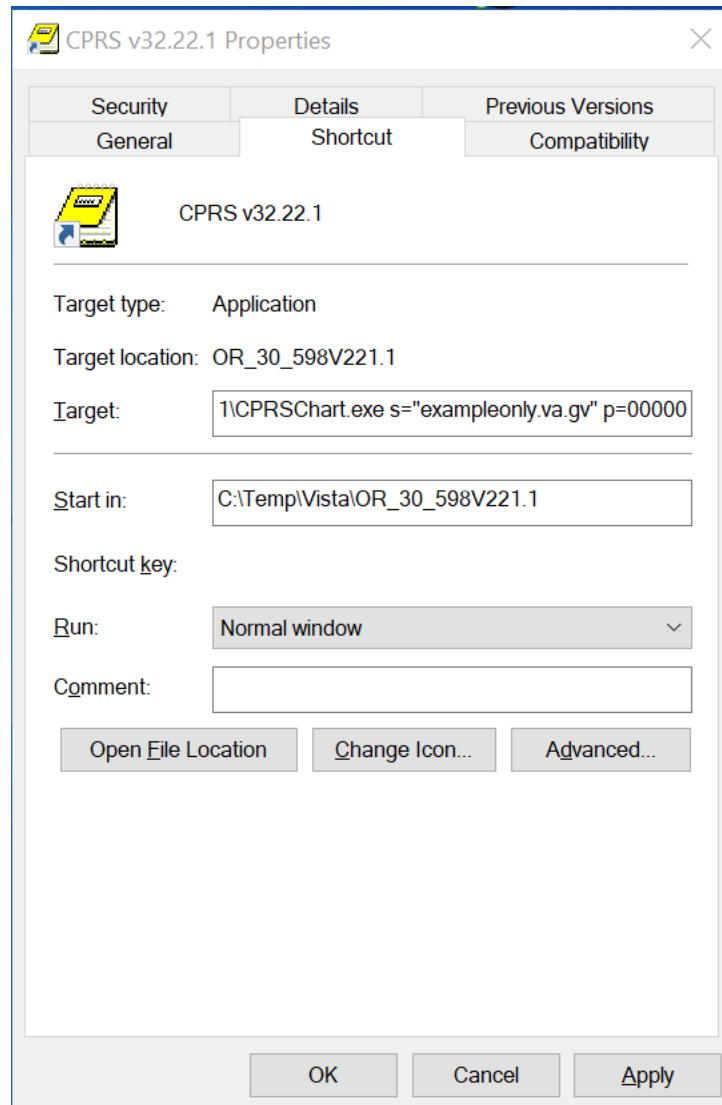
#### Installation Instructions:

1. Locate OR\_30\_598.ZIP and unzip the file.
2. Copy the CPRSChart.exe to the appropriate directory. You may need to create this new directory.  
**NOTE:** A user may need to have Administrator rights to execute these steps.
3. Create a Shortcut and name it “CPRS 32.221.1”. That name will give the user another visual cue that this is not the normal CPRS icon.



4. Copy the DLL files into the same directory as cprschart.exe. This file should be in the same directory as the CPRSChart.exe for CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598).
5. Determine the DNS server name or IP address for the appropriate VistA server.
6. Determine the Broker RPC port for the VistA account.
7. On the CPRS 32.221.1 icon, right-click “Properties”.
8. In the CPRS 32.221.1 EMERGENCY GUI (OR\*3.0\*598) Properties window, do the following:
  - a. Make sure the Shortcut folder is highlighted.
  - b. In the Target field, enter the IP and RPC port (or use ServerList.exe).

**Figure 2: Example of the Target Field**



In Figure 2, the server and port number are fictitious and are for example only.

### 5.7.2.3 DLL Installation

CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) does NOT distribute the Vitals DLL.

**IMPORTANT:** Copy your site's current version of the Vitals DLL into the directory/folder where you placed the CPRS executable. The current version is GMV\_VitalsViewEnter.dll version 5.0.43.2.



## 5.8 Installation Verification Procedure

After installation, you can check that you have the updated version of CPRS by checking the splash screen. The correct GUI version should be CPRS 1.32.221.1. The CRC number should be 1036EC12.

To verify the VistA installation, use FileMan inquiry to the OPTION (#19) file. When prompted for the option, enter OR CPRS GUI CHART. Ensure the CPRS Chart version is: 1.32.221.1.

## 5.9 System Configuration

N/A

### 5.10 Database Tuning

N/A

## 6 Post-Installation

### 6.1 Remove Locking of the OR CPRS GUI CHART Option

**A message to the CACs:** Once any/all post-install configuration and testing has completed and you are ready to let at-large users into CPRS, let VistA Applications Support know that the locking can be removed.

**VistA Applications Support - To remove the locking and have CPRS GUI opened by all users:**

1. At the Systems Manager Menu Option prompt, type **Menu Management** and press <Enter>.
2. At the Select Menu Management Option prompt, type **Edit Options** and press <Enter>.
3. At the Select OPTION to edit prompt, type **OR CPRS GUI CHART** and press <Enter>.
4. At the NAME prompt, it should read OR CPRS GUI CHART. Accept the name by pressing <Enter>.
5. At the MENU TEXT prompt, it should read CPRSChart version 1.32.221.1. Accept the menu text by pressing <Enter>.
6. At the PACKAGE prompt, press <Enter>.
7. At the OUT OF ORDER MESSAGE prompt, press <Enter>.
8. At the LOCK prompt, type @ to remove the OR CPRS TESTER and press <Enter>.
9. At the SURE YOU WANT TO DELETE? prompt, type **YES** and press <Enter>.

```
<CPM> Select Systems Manager Menu Option: MENU MANAgement

Edit options
Key Management ...
```

```

Secure Menu Delegation ...
Restrict Availability of Options
Option Access By User
List Options by Parents and Use
Fix Option File Pointers
Help Processor ...
OPED Screen-based Option Editor
Display Menus and Options ...
Menu Rebuild Menu ...
Out-Of-Order Set Management ...
See if a User Has Access to a Particular Option
Show Users with a Selected primary Menu

<CPM> Select Menu Management Option: EDIT Options

Select OPTION to edit: OR CPRS GUI CHART          CPRSChart version 1.32.221.1
NAME: OR CPRS GUI CHART//
MENU TEXT: CPRSChart version 1.32.221.1  Replace
PACKAGE:
OUT OF ORDER MESSAGE:
LOCK: OR CPRS TESTER// @
    SURE YOU WANT TO DELETE? YES
REVERSE/NEGATIVE LOCK: ^

```

## 7 Back-Out Procedure

In the event of a catastrophic failure, the Area Manager will discuss with site personnel, product support, patient safety representatives, and the development team the possibility of backing out the patch and rollback of any necessary database changes. However, the Area Manager will make the final decision about backout and rollback.

### 7.1 Back-Out Strategy

If backing out CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) becomes necessary, sites can use the backout Packman build created during installation to back out the patch, edit the OR CPRS GUI Chart option, and restore the previous GUI executable to return the system to the pre-installation state.

#### 7.1.1 Back-Out Instructions

1. Install the PackMan backout build created during installation.
2. Edit the MENU TEXT of the OR CPRS GUI CHART VistA option – the text should be updated to read “CPRSChart version 1.32.220.1”. See example that follows
3. Make the previous executable, CPRS GUI v32b, 1.32.220.1, available.

```

<CPM> Select Systems Manager Menu Option: MENU MANagement

Edit options
Key Management ...
Secure Menu Delegation ...
Restrict Availability of Options
Option Access By User
List Options by Parents and Use
Fix Option File Pointers

```

```
Help Processor ...
OPED Screen-based Option Editor
      Display Menus and Options ...
      Menu Rebuild Menu ...
      Out-Of-Order Set Management ...
      See if a User Has Access to a Particular Option
      Show Users with a Selected primary Menu

<CPM> Select Menu Management Option: EDIT Options

Select OPTION to edit: OR CPRS GUI CHART          CPRSChart version 1.32.221.1
NAME: OR CPRS GUI CHART//
MENU TEXT: CPRSChart version 1.32.221.1  Replace 221.1 With 220.1
  Replace
    CPRSChart version 1.32.220.1
PACKAGE: ^
```

## 7.2 Back-Out Considerations

Sites should consider how backing out CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) might affect the system. Sites should consult with the development team and support staff.

### 7.2.1 Load Testing

N/A

### 7.2.2 User Acceptance Testing

The CPRS SQA team tests the CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) software prior to distribution. Test sites will verify that the changes in CPRS also function correctly in their environment.

## 7.3 Back-Out Criteria

Because CPRS is used by clinical staff on a regular basis, backing out CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) should only be considered because of a catastrophic error.

## 7.4 Back-Out Risks

Risks are based on the amount of time CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) has been operational.

## 7.5 Authority for Back-Out

The ultimate authority for backing out CPRS v32.221.1 EMERGENCY GUI (OR\*3.0\*598) lies with the Area Manager.

## **7.6 Back-out Verification Procedure**

To verify that the back-out was successful:

1. Check the OPTION (#19) file for option OR CPRS GUI CHART and ensure the version is set to 1.32.220.1.
2. Launch the CPRS GUI, make sure that it properly connects to VistA, and verify that it is version 1.32.220.1.

## **8 Rollback Procedure**

N/A

### **8.1 Rollback Considerations**

N/A

### **8.2 Rollback Criteria**

N/A

### **8.3 Rollback Risks**

N/A

### **8.4 Authority for Rollback**

N/A

### **8.5 Rollback Procedure**

N/A

### **8.6 Rollback Verification Procedure**

N/A