

Computerized Patient Record System (CPRS) COVID v2.0

Deployment, Installation, Back Out and Rollback Guide (DIBORG)



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Revision History

Date	Version	Description	Author
7/10/2020	.08	Removed the statement, "This functionality is documented in the Clinical Reminders Manager's Manual."	REDACTED
7/2/2020	.07	Removed the CPRS Technical Manual and the Clinical Reminders Managers Manual from the CPRS COVID v2.0 Documentation table.	REDACTED
6/24/2020	.06	Added a description in Overview section of the impact of CPRS 31B on the ORWOTHER and PXRMPDEV routines.	REDACTED
6/12/2020	.05	Added an instruction that "the init routine PXRMP46I can be deleted after a successful installation."	REDACTED
6/11/2020	.04	Removed sensitive data from the screenshots	REDACTED
6/9/2020	.03	Incorporated suggestions from the site testers	REDACTED
6/5/2020	.02	Incorporated all the suggestions made during the developer and SQA analyst's review	REDACTED
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1 CPRS COVID v2.0

1.1 Overview

The guide provides specific instructions for installation, back-out, and rollback of the CPRS COVID v2.0 build.

CPRS_COVID_2_0.KID is a multi-package build that contains patches PXR*2.0*46 and OR*3.0*531.

Before CPRS COVID v2.0 was developed, a CPRS COVID-19 status banner was released in CPRS Graphical User Interface (GUI) v31a and the multi-package build CPRS COVID v1.0, which contains patches PXR*2.0*72 and OR*3.0*485.

After the CPRS COVID v1.0 release, it was determined that additional functionality was required. This included a precise way to determine the date that is displayed in the banner and the ability to display the patient's COVID-19 data when the banner is clicked on.

Thus, new Clinical Reminders functionality was developed that can be used in Age Match/No Match Text, Finding Found/Not Found Text, and the Found/Not Found Text for Cohort and Resolution Logic.

This new functionality includes the ability to display the data for any finding in Found/Not Found Text, called CSUB Objects, which control whether text is formatted and whether blank lines will be suppressed.

PXR*2.0*46 installs a Reminder Exchange entry named VA-COVID-19 CPRS STATUS VERSION 4. It is an updated version of the COVID-19 status reminder definition that was released with PXR*2.0*72. It provides enhanced information about a patient's COVID-19 status when the COVID-19 status banner is clicked.

A Description field was added to the Function Findings multiple of the Reminder Definition file. This is a word-processing field that can be used to document the use and purpose of the function finding. The Reminder Definition Editor and Reminder Inquiry are updated to include this field.

OR*3.0*531 turns on the CPRS clickable banner report. The text of the report is created by the API, STATUS^PXR*COVID19. CPRS calls this API and displays the report when the user clicks on the COVID-19 status banner.

The functionality in CPRS COVID 2.0 needs to work for sites that have CPRS v31b installed and for those that do not. The CPRS 31B multi-package build includes the OR*3.0*377 and PXR*2.0*45 builds, which make changes to the ORWOTHER and PXR*DEV routines.

The OR*3.0*531/PXR*2.0*46 multi-package build also makes changes to the ORWOTHER and PXR*DEV routines and contains the changes from CPRS v31b.

That is why the second line of ORWOTHER includes patch 377 and the second line of PXR*DEV includes patch 45. After installing CPRS COVID 2.0, the first two lines of these routines will be:

```
ORWOTHER ;SLC/AGP - Other Information Panel RPC ;06/03/2020
; ;3.0;ORDER ENTRY/RESULTS REPORTING;**485,377,531**;Dec 17, 1997
```

```
PXRMDEV ;SLC/PKR - This is a driver for testing Clinical Reminders. ;06/23/2020
;2.0;CLINICAL REMINDERS;**4,6,11,16,18,24,26,47,45,46**;Feb 04, 2005
```

If CPRS v31b is installed after CPRS COVID 2.0, then CPRS COVID 2.0 must be reinstalled because additional changes will be made to ORWOTHER and PXRMDEV. However, the VA-COVID-19 CPRS STATUS reminder definition and the health factors and terms that it uses do not need to be reinstalled.

1.2 Recommended Audience

This guide provides information specifically for Department of Veterans Affairs Medical Center (VAMC) Information Resource Management (IRM) staff who will be installing the build, and for Clinical Application Coordinators (CACs) who will be installing the content from the Reminder Exchange entry VA-COVID-19 CPRS STATUS VERSION 4.

1.3 About this Guide

This guide provides instructions for installing CPRS_COVID_2_0.KID, the multi-package build containing builds PXRM*2.0*46 and OR*3.0*531.

1.4 Document Conventions

Examples of VistA “Roll and Scroll” interface actions will be shown in a box, such as:

```
Select OPTION NAME: XPAR EDIT PARAMETER          Edit Parameter Values
Edit Parameter Values
```

Emphasis of important points may be displayed in this manner:

NOTE: This is an important point and must not be omitted.

Call-outs may be used to draw attention to part of a block of text or a table without disrupting the flow of the block or table. For example:

The diagram illustrates a call-out box used to highlight a specific point of interest within a larger block of text. The text block is enclosed in a blue border and contains several lines of sample text. A call-out box, also with a blue border, is positioned to the right of the text. It contains the text "Informational text about the point of note" and has a pointer line extending from its bottom-left corner to the line of text: "Sample text, Sample text, Sample text, SOMETHING OF NOTE!!". The call-out box also features a small icon in its top-right corner.

1.5 Related Documents

The following documents, in addition to this document, will be available on the VA Software Document Library (VDL) when the patch is released:

[CPRS on the VDL](#)

CPRS COVID v2.0
CPRS Deployment, Installation,
Back Out, and Rollback Guide

- *Clinical Reminders Manager's Manual*
- *CPRS Technical Manual: GUI Version*

2 Pre-requisites

Before beginning the processes described in this document the tasks outlined in this section must be completed.

2.1 Pre-requisite Patches

CPRS COVID v2.0 expects a fully patched VistA system, including PXR*2.0*72 and OR*3.0*485.

2.2 Pre-Installation Steps

N/A

2.2.1 CPRS COVID v2.0 Preinstallation Check List

N/A

3 Reporting Issues

To report issues with CPRS COVID v2.0, please enter a ticket with the National Help Desk and provide the following information:

- Category: Affected Service
- Affected Service: VistA – CPRS: Clinical Reminders
- Assignment Group: NTL SUP Clin 2

4 Test – CPRS COVID v2.0 Test System Installation Checklist

N/A

5 Software Retrieval

See Section 7.1.1.

6 Pre-Installation Steps

N/A

6.1 Backup Procedures

N/A

6.1.1 Back Up Globals

N/A

7 Installation

This section provides instructions for installing CPRS COVID v2.0.

7.1 Sequence

There are two parts to CPRS COVID v2.0 installation:

- Part I: Software Installation. The multi-package build will be installed by IT Operations and Services (ITOPS).
- Part II: Content Installation. This section covers the installation of the content that is in Reminder Exchange entry VA-COVID-19 CPRS STATUS VERSION 4.

NOTE: Part I should be performed by ITOPS and Part II should be performed by the Clinical Reminders Clinical Applications Coordinator (CAC).

7.1.1 Part I –Software Installation

This build should be installed during non-peak hours to minimize disruption to users. Installation should take less than one minute.

1. Load the host file using the “Load a Distribution” option on the XPD INSTALLATION MENU.
 - a. At the Enter a Host File prompt, type the following:
/srv/vista/patches/SOFTWARE/CPRS_COVID_2_0.KID
 - b. **NOTE:** After loading the distribution, you are directed to use the name “CPRS COVID 2.0” when using other actions on the menu.
2. Optionally execute the “Verify Checksums” option on the same menu.
3. Optionally backup the install by using the “Backup a Transport Global” option on the same menu.
4. Install the multi-package build using the “Install Package(s)” option.
 - a. For this option at the “INSTALL NAME:” prompt, you will need to use the name “CPRS COVID 2.0” as noted in instruction 1.b above.
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. The init routine PXRMP46I can be deleted after a successful installation.

7.1.2 Part II – Content Installation

The content can be installed with users on the system. The name of the Reminder Exchange file is VA-COVID-19 CPRS STATUS VERSION 4. Installation should take less than 5 minutes.

NOTES: For entries that do not exist, use INSTALL action.

For Reminder Terms that exist but are different, use MERGE action.

For Reminder definition VA-COVID-19 CPRS STATUS, use OVERWRITE action.

1. Locate the Reminder Exchange entry titled **VA-COVID-19 CPRS STATUS VERSION 4**.
2. At the Select Action prompt, type “IFE” for Install Exchange File Entry.

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- Enter the number that corresponds with your entry, VA-COVID-19 CPRS STATUS VERSION 4. In Figure 1, it is 238. It will vary by site.
NOTE: The date of the exchange file should be 06/10/2020.

Figure 1 – “Select Action” and “Enter a List or range of numbers” Prompts for Reminder Exchange Entry

```

238 VA-COVID-19 CPRS STATUS          CPRSCAC,ONE          06/10/2020@12:09
    VERSION 4

+      + Next Screen  - Prev Screen  ?? More Actions  >>>
CFE Create Exchange File Entry      LHF Load Host File
CHF Create Host File                 LMM Load MailMan Message
CMH Create MailMan Message           LR  List Reminder Definitions
DFE Delete Exchange File Entry       LWH Load Web Host File
IFE Install Exchange File Entry       RI  Reminder Definition Inquiry
IH  Installation History              RP  Repack
Select Action: Next Screen// IFE  Install Exchange File Entry
Enter a list or range of numbers (1-351): 238

```

- At the Select Action prompt, select “IA” and hit “Enter”.
NOTE: For entries that do not exist, use INSTALL action.
NOTE: For Reminder Terms that exist but are different, use MERGE action
NOTE: For Reminder definition VA-COVID-19 CPRS STATUS, use OVERWRITE action.

Figure 2 – Select Action – IA Install All Components

```

Date Packed: 06/10/2020@12:09:24
Package Version: 2.0P35

Description:
This reminder definition created to display COVID-19 status in CPRS

Keywords:

Components:

ROUTINE
  PXRMPDEM                                X

HEALTH FACTORS
  1 VA-COVID-19                            X      X
+      Enter ?? for more actions          >>>
IA  Install all Components                IS  Install Selected Component
Select Action: Next Screen// IA

```

5. When prompted with “REMINDER TEAM entry VA-COVID-19 CLINICAL INFO is NEW, what do you want to do?”, select “I --Install”.
6. When prompted with “REMINDER TERM entry VA-COVID-19 OUTSIDE RESULTS is NEW, what do you want to do?”, select “I”.
7. When prompted with “REMINDER TERM entry VA-COVID-19 ANTIBODY LAB TEST is NEW, what do you want to do?”, select “I”.
8. When prompted with “REMINDER TERM entry VA-COVID-19 PCR/AG LAB RESULTS is NEW, what do you want to do?”, select “I”.
9. When prompted with “REMINDER DEFINITION entry named VA-COVID-19 CPRS STATUS already exists but the packed component is different, what do you want to do?”, select “O”.
10. When prompted with “Are you sure you want to overwrite?”, select “YES”.

Figure 3 – Example of REMINDER TERM and REMINDER DEFINITION prompts

REMINDER TERM entry VA-COVID-19 CLINICAL INFO is NEW,
what do you want to do?

Select one of the following:

C	Create a new entry by copying to a new name
I	Install
Q	Quit the install
S	Skip, do not install this entry

Enter response: I// nstall

REMINDER TERM entry VA-COVID-19 OUTSIDE RESULTS is NEW,
what do you want to do?

Select one of the following:

C	Create a new entry by copying to a new name
I	Install
Q	Quit the install
S	Skip, do not install this entry

Enter response: I// nstall.

REMINDER TERM entry VA-COVID-19 ANTIBODY LAB TEST is NEW,
what do you want to do?

Select one of the following:

C	Create a new entry by copying to a new name
I	Install
Q	Quit the install
S	Skip, do not install this entry

Enter response: I// nstall

REMINDER TERM entry VA-COVID-19 PCR/AG LAB RESULTS is NEW,
what do you want to do?

Select one of the following:

C	Create a new entry by copying to a new name
I	Install
Q	Quit the install
S	Skip, do not install this entry

Enter response: I// nstall

REMINDER DEFINITION entry named VA-COVID-19 CPRS STATUS already exists
but the packed component is different, what do you want to do?

Select one of the following:

C	Create a new entry by copying to a new name
O	Overwrite the current entry
U	Update
Q	Quit the install
S	Skip, do not install this entry

Enter response: O// verwrite the current entry
Are you sure you want to overwrite? N// y YES

11. At the Select Action prompt, select “Q”.

Figure 4 – Select Action – Q Quit

```
Date Packed: 06/10/2020@12:09:24
Package Version: 2.0P35

Description:
This reminder definition created to display COVID-19 status in CPRS

Keywords:

Components:

ROUTINE
  PXRMPDEM                                X

HEALTH FACTORS
  1 VA-COVID-19                            X    X
+ Enter ?? for more actions >>>
IA Install all Components      IS Install Selected Component
Select Action: Next Screen// Q
```

The content installation is complete.

7.2 CPRS COVID v2.0 Documentation

The following table shows the documentation released with CPRS COVID v2.0.

Table 1 - CPRS COVID v2.0 documentation

<i>CPRS COVID v2.0 Deployment, Installation, Back Out and Rollback Guide (DIBORG)</i>	Primarily for installers and CACs. Contains items that must be done before, during and after the patch installation.
---	--

8 TEST - Post-Installation Tasks

Reminder Term VA-COVID-19 PCR/AG LAB RESULTS will need to have your local lab test for COVID testing mapped. Ensure that only LAB TESTS are mapped to this term.

If your site has COVID Antibody Lab Test, you will need to map that Lab Test to Reminder Term VA-COVID-19 ANTIBODY LAB TEST.

If an existing Reminder Term is accidentally OVERWRITTEN, you will need to re-map that term or contact Health Product Support

9 TEST – Testing in Test Account

Before installing in Production, do some testing in the Test account by opening CPRS for patients who have COVID-19 related data. Verify that the information in the COVID-19 status banner is correct and that the text that displays when the banner is clicked on is also correct.

10 CPRS COVID v2.0 Production System Installation Checklist

N/A

11 Production Pre-Installation Steps

N/A

11.1 Backup Procedures

N/A

11.1.1 Back Up Globals

N/A

12 Production Installation

N/A

13 Post-Installation Tasks

N/A

14 Back-Out Procedure

A Back-out would only be considered if there was a catastrophic failure that causes loss of function for the CPRS application or a significant patient safety issue.

14.1 Back-Out Strategy

N/A

14.2 Back-Out Criteria

CPRS COVID v2.0 should be backed out only if it causes a catastrophic system failure.

14.3 Back-Out Risks

Backing out CPRS COVID v2.0 would remove the COVID-19 banner click text functionality.

14.4 Authority for Back-Out

The Area Manager has the final authority to require the rollback and accept the associated risks.

14.5 Back-Out Procedure

Backing out CPRS COVID v2.0 should only be considered if there is a catastrophic failure of OR*3*531 and PXR*2*46 or the associated CPRS GUI. The back-out would be accomplished by installing the backout build.

Contact the CPRS implementation team to notify them that there has been a catastrophic failure with OR*3*531 and PXR*2*46. Use the mail group: OIT PD CPRS Implementation Team REDACTED . You will get instructions on how to obtain the backout build and install it.

In addition, you can contact the following CPRS team members:

Table 2 – CPRS Development Team Contacts

Name and Title	Email	Phone
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED

If the decision is made to proceed with back-out and rollback, coordinate with the appropriate IT support, including local support and IT Operations and Services (ITOPS), to schedule the time to install the rollback build.

14.6 Back-out Verification Procedure

Perform site-specific testing appropriate to the areas where the catastrophic failure was identified.

15 Rollback Procedure

The backout patch will also perform any necessary rollback.

15.1 Rollback Criteria

N/A since no database updates were done.

15.2 Rollback Risks

N/A

15.3 Authority for Rollback

The Area Manager has the final authority to require the rollback and accept the associated risks.