

# **National Clozapine Coordination (NCC) Project**

## **Deployment, Installation, Backout, and Rollback Guide**

**Release 1**



**July 2019**

**Version 1**

**Department of Veterans Affairs**

## Revision History

Date	Revision	Description	Author
7/8/2019	1	Initial document creation using VIP_ Deployment_Installation_Backout and Rollback Guide_Template	REDACTED

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# 1. Introduction

This document describes how to deploy and install the multi-build MENTAL HEALTH NCC PROJECT 5.01 (which includes patches YS\*5.01\*122, PSO\*7.0\*457, PSJ\*5.0\*327, and OR\*3.0\*427) and how to back out the product.

## 1.1. Purpose

The purpose of this plan is to provide a document that describes how, where, and when the MENTAL HEALTH NCC PROJECT 5.01 multi-build will be installed. Also, the document includes the steps describing how the multi-build can be backed out and the software rolled back, if necessary. The plan also identifies resources and includes communications plan with the rollout schedule.

## 1.2. Dependencies

All application, system, financial and other dependencies for deployment of the MENTAL HEALTH NCC PROJECT 5.01 have been confirmed and there are no issues. The prerequisite application dependencies include:

- YS\*5.01\*92: Clozapine Updates
- OR\*3\*243: CPRS GUI 27
- PSO\*7\*422: Health Product Sustainment
- PSO\*7\*518: Mocha 2.1B Warranty Issues
- PSO\*7\*526: Health Product Sustainment
- PSO\*7\*537: Health Product Sustainment
- PSO\*7\*550: Inbound ERX
- PSJ\*5\*54:
- PSJ\*5\*344: Health Product Sustainment
- PSJ\*5\*353: CAS-RXSU2
- PSJ\*5\*355: Health Product Sustainment
- PSJ\*5\*357: Health Product Sustainment
- PSJ\*5\*366: CAS MPDU BUILD 4
- PSJ\*5\*367: Health Product Sustainment
- PSJ\*5\*378: Health Product Sustainment

## 1.3. Constraints

MENTAL HEALTH NCC PROJECT 5.01 is expected to be installed on existing VistA platforms. The hardware may reside at local or regional data centers. MENTAL HEALTH NCC PROJECT 5.01 utilizes existing nationally released security controls to control access.

# 2. Roles and Responsibilities

**Table 1 Deployment, Installation, Back Out and Rollback Roles and Responsibilities**

ID	Team	Phase/Role	Tasks
1	Field Operations (FO)	Deployment	Plan and schedule deployment (including orchestration with vendors)
2	FO	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.

ID	Team	Phase/Role	Tasks
3	FO	Deployment	Test for operational readiness
4	FO	Deployment	Execute deployment
5	FO	Installation	Plan and schedule installation
6	FO	Installation	Ensure authority to operate and that certificate authority security documentation is in place
7	FO	Installation	Validate through facility POC to ensure that IT equipment has been accepted using asset inventory processes
8	FO	Installations	Coordinate training
9	FO	Backout	Confirm availability of backout instructions and backout strategy (what are the criteria that trigger a backout)
10	FO	Post-deployment	Hardware, Software and System Support

### 3. Deployment

The deployment is planned as a standard VistA National Patch Module patch rollout. Once approval has been given for national release, then MENTAL HEALTH NCC PROJECT 5.01 patches will be released via the National Patch Module and will be available for installation and deployment at all sites. The scheduling of test/mirror installs, testing, and the deployment to production will be at the site’s discretion. It is anticipated there will be a 30-day compliance period.

The National Clozapine Coordination (NCC) solution provides FDA-compliant clozapine dispensing for inpatients. A National Release is planned for April 2019 after testing has been successfully completed at two IOC Sites.

Deployment will be performed by the local or regional staff or and supported by team members from one or more of these organizations: Enterprise Systems Engineering (ESE), Field Operations (FO), Enterprise Operations (EO). Other teams may provide additional support.

#### 3.1. Timeline

The deployment and installation are scheduled to run for 30 days, as described in the master deployment schedule.

#### 3.2. Site Readiness Assessment

This section discusses the locations that will receive the MENTAL HEALTH NCC PROJECT 5.01 deployment.

##### 3.2.1. Deployment Topology (Targeted Architecture)

MENTAL HEALTH NCC PROJECT 5.01 will be deployed to each VistA instance at the local sites or the regional data processing centers.

##### 3.2.2. Site Information (Locations, Deployment Recipients)

The initial deployment will be to Initial Operating Capabilities (IOC) sites for verification of functionality. Once that testing is completed and approval is given for national release, MENTAL HEALTH NCC PROJECT 5.01 will be deployed to all VistA systems.

The Production (IOC) Test sites are:

**REDACTED**

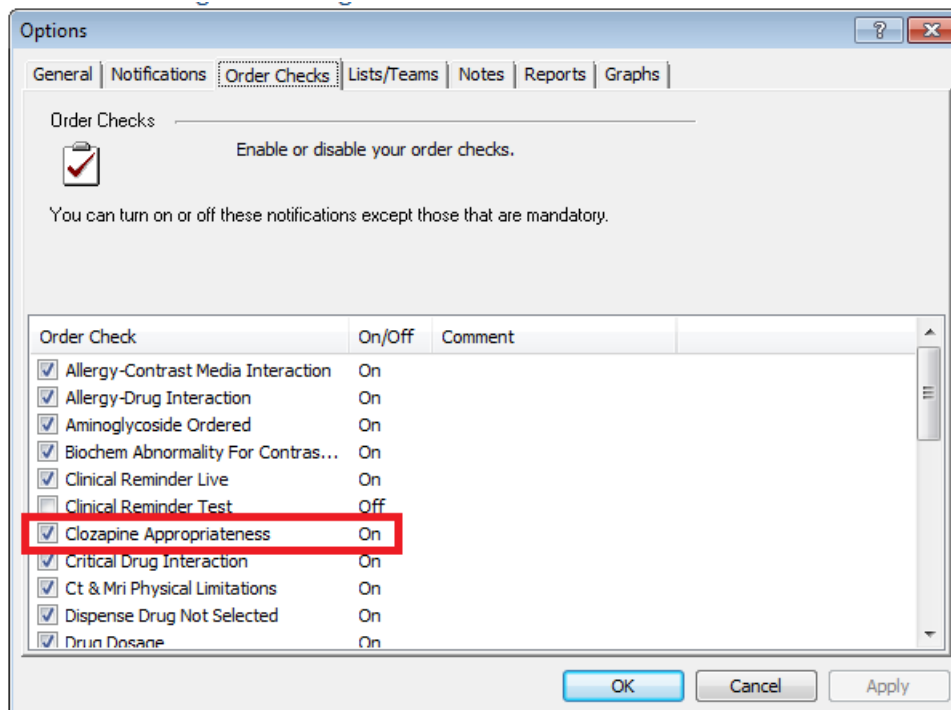
### 3.2.3. Site Preparation

Installation of these patches is **mandatory** at all VHA facilities. FDA and clozapine Risk Evaluation and Mitigation Strategies (REMS) have both agreed that the National Clozapine Coordinating Center (NCCC) will maintain the authority to dispense clozapine anywhere in the VA Facility.

\*Note: To ensure that the clozapine order checks are triggered correctly, the Clozapine Appropriateness check box must be selected at the user level in the Computerized Patient Record System (CPRS). There are multiple levels of an order check being enabled: Package, System, and User with the user level having the highest priority. If the System level is turned on, then the User will also have it on, unless it has been specifically disabled.

The Clozapine Appropriateness check box can be accessed by navigating the following menu items – Tools > Options and then by selecting the Order Checks tab. See Figure 1.

**Figure 1 Clozapine Appropriateness Check Box**



The following table describes preparation required by the site prior to deployment.

**Table 2 Site Preparation**

Site/Other	Problem/Change Needed	Features to Adapt/Modify to New Product	Actions/Steps	Owner
All	Determine changes to current processes.	Inpatient dispensing of clozapine	Evaluate how new processes differ from current processes and adapt training accordingly.	Pharmacy ADPAC

### 3.3. Resources

N/A

#### 3.3.1. Facility Specifics (Optional)

N/A

#### 3.3.2. Hardware

N/A

#### 3.3.3. Software

The following describes the software prerequisite dependencies at each site prior to deployment

**Table 3 Software Specifications**

Required Software	Make	Version	Configuration	Manufacturer	Other
	JU 7, 2008	YS*5.01*92	MENTAL HEALTH		
	AUG 20, 2008	OR*3*243	ORDER ENTRY/RESULTS REPORTING		
	MAR 23, 2001	PSJ*5*54	INPATIENT MEDICATIONS		
	SEP 13, 2018	PSJ*5*344	INPATIENT MEDICATIONS		
	OCT 25, 2018	PSJ*5*353	INPATIENT MEDICATIONS		
	MAR 8, 2018	PSJ*5*355	INPATIENT MEDICATIONS		
	JUN 7, 2018	PSJ*5*357	INPATIENT MEDICATIONS		
	JAN 2, 2019	PSJ*5*366	INPATIENT MEDICATIONS		
	OCT 22, 2018	PSJ*5*367	INPATIENT MEDICATIONS		
	JAN 23, 2019	PSJ*5*378	INPATIENT MEDICATIONS		
	OCT 2, 2017	PSO*7*422	OUTPATIENT PHARMACY		



Required Software	Make	Version	Configuration	Manufacturer	Other
	JUL 2, 2018	PSO*7*518	OUTPATIENT PHARMACY		
	JUL 19, 2018	PSO*7*526	OUTPATIENT PHARMACY		
	JAN 28, 2019	PSO*7*537	OUTPATIENT PHARMACY		
	JAN 8, 2019	PSO*7*550	OUTPATIENT PHARMACY		

Please see the Roles and Responsibilities table in Section 2 above for details about who is responsible for preparing the site to meet these software specifications.

### 3.4. Communications

Technicians will use email and conference calls for communication during the deployment; email and/or conference calls will be utilized to notify the stakeholders of the successful release of the product.

## 4. Installation

### 4.1. Pre-installation and System Requirements

Multi-build MENTAL HEALTH NCC PROJECT 5.01 is installable on a fully patched Veterans Health Information Systems and Technology Architecture (VistA) system and is within the VistA infrastructure packages listed above.

### 4.2. Platform Installation and Preparation

The MENTAL HEALTH NCC PROJECT 5.01 installation must be coordinated with the Pharmacy Automated Data Processing Application Coordinator (ADPAC) at each site.

*These patches* may be installed with users on the system. You may wish to install it during non-peak hours. *These patches* should take less than 15 minutes to install.

**NOTE:** “Before” and “after” checksums are used to verify if your account is where it needs to be before and after installing a software release. Checksum values before the software was modified can be used to verify if an account is up-to-date or if a site has made local modifications to the software. Checksum values after the software has been modified are used to verify that the installed routines are the correct version.

### 4.3. Download and Extract Files

#### Software and Documentation Retrieval Instructions:

The software being released is a host file system (HFS) file created by the Kernel Installation and Distribution System (KIDS); the HFS file name has the extension .KID. Documentation describing the new functionality introduced by this patch is available.

The preferred method is to retrieve files from download directory at **vista.med.va.gov**. This transmits the files from the first available server. Sites may also elect to retrieve files directly from a specific server. Sites may retrieve the software and/or documentation directly using Secure File Transfer Protocol (SFTP) from the ANONYMOUS.SOFTWARE directory at the following OI Field Offices:

**REDACTED**

The documentation will be in the form of Adobe Acrobat files. Documentation can also be found on the VA Software Documentation Library (VDL) at: <https://www.va.gov/vdl/>

**Table 4 Files for Retrieval**

<b>File Name</b>	<b>Contents</b>	<b>Retrieval Format</b>
MH_NCC_PROJ_5_01.KID	HFS file with the VistA software components	ASCII
MH_NCC_Proj_5_01_UG_R0719.pdf	NCC User Guide/Training Guide New Features in CPRS, Outpatient Pharmacy and Inpatient Medications	Binary
psj_5_p327_phar_um.pdf	Inpatient Medications: Pharmacist’s User Manual	Binary
psj_5_p327_nurse_um.pdf	Inpatient Medications: Nurse’s User Manual	Binary
psj_5_p327_tm. pdf	Inpatient Medications Technical Manual/Security Guide	Binary
pso_7_P457_man_um. pdf	Outpatient Pharmacy (PSO): Managers User Manual	Binary
pso_7_p457_phar_um.pdf	Outpatient Pharmacy (PSO): Pharmacist’s User Manual	Binary
MH_NCC_Proj_5_01_PSO_Psj_QR_R0719.pdf	Inpatient Medications and Outpatient Pharmacy Clozapine Changes– Quick Reference Card	Binary
or_3_p427_cprs_ug.pdf	Computerized Patient Record System (CPRS) User Guide: GUI Version	Binary
or_3_p427_cprs_QR.pdf	Quick Reference Guide for Prescribing/Ordering Clozapine in CPRS	Binary

#### **4.4. Database Creation**

Performed by the KIDS Installation.

#### **4.5. Installation Scripts**

Performed by the KIDS Installation.

#### **4.6. Cron Scripts**

N/A

## 4.7. Access Requirements and Skills Needed for the Installation

This guide is written with the assumption that the reader is experienced or familiar with the following:

- The VistA computing environment
- The VA File Manager (FileMan)
- Microsoft Windows

Local or Regional OI&T staff will coordinate the patch installation with the Pharmacy at each site. The Local or Regional OI&T staff have the necessary access and skill set to conduct the installation.

## 4.8. Installation Procedure

This patch should less than 15 minutes to install.

**Note:** Do not queue the installation of this patch.

To avoid disruptions, these patches should be installed during non-peak hours when there is minimal activity on the system. Refer to Appendix A for an example of the installation log.

Step	Pre-Installation Instructions
1	<p>OBTAIN PATCHES</p> <p>-----</p> <p>Obtain the host file MH_NCC_PROJECT_5_01.KID, which contains the following patches:</p> <ul style="list-style-type: none"><li>YS*5.01*122</li><li>PSO*7*457</li><li>PSJ*5*327</li><li>OR*3*427</li></ul> <p>Sites can retrieve VistA software from the following software repositories. The preferred method is to use Secure File Transfer Protocol (SFTP) to retrieve the files from:</p> <p><b>REDACTED</b></p> <p>This will download the files from the first available SFTP server.</p> <p>Sites may also elect to retrieve software directly from a specific server:</p> <p><b>REDACTED</b></p> <p>The MH_NCC_PROJECT_5_01.KID host file is in the anonymous software directory. Use ASCII Mode when downloading the file.</p>

Step	Pre-Installation Instructions
2	<p>Use the <b>Kernel Installation &amp; Distribution System [XPD MAIN]</b> menu.</p> <p>Select Kernel Installation &amp; Distribution System Option:</p> <pre> Edits and Distribution ... Utilities ... Installation ... </pre> <p>Select Kernel Installation &amp; Distribution System Option: Installation</p> <pre> Load a Distribution Print Transport Global Compare Transport Global to Current System Verify Checksums in Transport Global Install Package(s) Restart Install of Package(s) Unload a Distribution Backup a Transport Global </pre> <p>Select Installation Option:</p>
3	<p><b>LOAD TRANSPORT GLOBAL FOR MULTI-BUILD</b></p> <p>-----</p> <p>From the Installation menu, select the Load a Distribution option.</p> <p>When prompted for "Enter a Host File:", enter the full directory path where you saved the HFS file MH_NCC_PROJECT_5_01.KID.</p> <p>(e.g., SYSSYSDEVICE:[ANONYMOUS] MH_NCC_PROJ_5_01.KID)</p> <p>When prompted for "OK to continue with Load? NO//", enter "YES."</p> <p>The following will display:</p> <p>Loading Distribution...</p> <pre> MENTAL HEALTH NCC PROJECT 5.01 YS*5.01*122 PSO*7*457 PSJ*5*327 OR*3*427 </pre> <p>Use INSTALL NAME: MENTAL HEALTH NCC PROJECT 5.01 to install this Distribution.</p>
4	<p><b>RUN INSTALLATION OPTIONS FOR MULTI-BUILD</b></p> <p>-----</p> <p>From the Installation menu, you may select to use the following options (when prompted for the INSTALL NAME, enter MENTAL HEALTH NCC PROJECT 5.01</p> <ol style="list-style-type: none"> <li>a. 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.</li> <li>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.).</li> <li>c. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.</li> </ol>

Step	Pre-Installation Instructions
5	<p data-bbox="219 151 544 184"><b>INSTALL MULTI-BUILD</b></p> <p data-bbox="219 199 576 220">-----</p> <p data-bbox="240 226 1469 283">This is the step to start the installation of this KIDS patch. This will need to be run for the MENTAL HEALTH NCC PROJECT 5.01.</p> <ol data-bbox="267 310 1218 373" style="list-style-type: none"> <li>a. Choose the Install Package(s) option to start the patch install.</li> <li>b. When prompted "Select INSTALL NAME:", enter MENTAL HEALTH NCC PROJECT 5.01</li> </ol> <p data-bbox="240 409 1518 466">This Distribution was loaded on Jun 13, 2019@13:46:45 with header of MENTAL HEALTH NCC PROJECT 5.01 ;Created on June 12, 2019@13:46:02</p> <p data-bbox="240 493 609 520">It consisted of the following Install(s):</p> <p data-bbox="240 541 836 571">YS*5.01*122 PSO*7.0*457 PSJ*5.0*327 OR*3.0*427</p>

## 4.9. Sample Install Log

Please refer to [Appendix A](#) for an example of an installation log.

## 4.10. Post Install Steps and Post-Install Verification Procedures

After installation, the following post-installation tasks should be performed:

- Queue transmission option. Please see [Appendix B](#) for instructions.
- Assign new menu options, e.g. YSCL RETRANSMIT DATA, PSJL MANAGER. Please notify the site's Clozapine Treatment team about the new options available with this patch so they may request assignment.
- Delete the obsolete options from the TaskMan queue. The options are YSCL WEEKLY TRANSMISSION and YSCL TRANSMIT DEMOGRAPHICS. The steps shown below should be done for both options.

```
Select Systems Manager Menu <CLOZA> Option: TASKman Management
```

```
Schedule/Unschedule Options
One-time Option Queue
Taskman Management Utilities ...
List Tasks
Dequeue Tasks
Requeue Tasks
Delete Tasks
Print Options that are Scheduled to run
Cleanup Task List
Print Options Recommended for Queueing
```

```
Select Taskman Management <CLOZA> Option: SCHEDULE/Unschedule Options
```

```
Select OPTION to schedule or reschedule: YSCL TRANSMIT DEMOGRAPHICS (R)
```

```
Edit Option Schedule
```

---

QUEUED TO RUN AT WHAT TIME: @ << delete this value  
DEVICE FOR QUEUED JOB OUTPUT:  
QUEUED TO RUN ON VOLUME SET:  
RESCHEDULING FREQUENCY: 7D  
TASK PARAMETERS:  
SPECIAL QUEUEING:

---

Exit Save Next Page Refresh Quit

Enter a COMMAND, or "^" followed by the CAPTION of a FIELD to jump to.

COMMAND:

- **Create PSOCLOZ Mail Group:** Please contact the site's Clozapine Treatment team to identify users who should be assigned as mailgroup coordinator and organizer. An example of how to assign users to a Mail Group is shown below.

Select Systems Manager Menu Option: manage Mailman

```
Check MailMan Files for Errors
Create a Mailbox for a user
Disk Space Management ...
Group/Distribution Management ...
Local Delivery Management ...
MailMan Site Parameters
Network Management ...
New Features for Managing MailMan
```

Select Manage Mailman Option: group/Distribution Management

```
Bulletin edit
Edit Distribution List
Enroll in (or Disenroll from) a Mail Group
Mail Group Coordinator's Edit
Mail Group Coordinator's Edit W/Remotes
Mail Group Edit
```

Select Group/Distribution Management Option: mail group edit

Select MAIL GROUP NAME: PSOCLOZ

Are you adding 'PSOCLOZ' as a new MAIL GROUP? No// Y (Yes)  
MAIL GROUP NAME: PSOCLOZ//

```

Select MEMBER: HRUBOVCAK,JC          JCH          SR. LINUX ADMIN
Are you adding 'HRUBOVCAK,JC' as a new MEMBER (the 1ST for this
MAIL GROUP)? No// Y (Yes)
TYPE:
Select MEMBER:
DESCRIPTION:
  1>Used for the National Clozapine Center tracking messages.
  2>
EDIT Option:
TYPE: PR private
RESTRICTIONS:
ORGANIZER: HRUBOVCAK,JC//
COORDINATOR: BURKHALTER,WILLIAM      WB          SR. LINUX ADMIN
Select AUTHORIZED SENDER:
Select MEMBER GROUP NAME:
Select REMOTE MEMBER:
Select DISTRIBUTION LIST:

Select MAIL GROUP NAME:

```

Installation of PSJ\*5\*327 may be verified by using FileMan. Examples of using FileMan to list the data dictionaries (DD's) for verification (**fields to be verified are listed in red**):

```

SELECT SYSTEMS MANAGER MENU OPTION: FM VA FILEMAN

  VA FILEMAN VERSION 22.2

  ENTER OR EDIT FILE ENTRIES
  PRINT FILE ENTRIES
  SEARCH FILE ENTRIES
  MODIFY FILE ATTRIBUTES
  INQUIRE TO FILE ENTRIES
  UTILITY FUNCTIONS ...
  DATA DICTIONARY UTILITIES ...
  TRANSFER ENTRIES
  OTHER OPTIONS ...

SELECT VA FILEMAN OPTION: DATA DICTIONARY UTILITIES

  LIST FILE ATTRIBUTES
  MAP POINTER RELATIONS
  CHECK/FIX DD STRUCTURE
  FIND POINTERS INTO A FILE
  UPDATE THE META DATA DICTIONARY

SELECT DATA DICTIONARY UTILITIES OPTION: LIST FILE ATTRIBUTES
  START WITH WHAT FILE: 52.52 CLOZAPINE PRESCRIPTION OVERRIDES
                                (4099 ENTRIES)
  GO TO WHAT FILE: CLOZAPINE PRESCRIPTION OVERRIDES//
                                (4099 ENTRIES)

SELECT LISTING FORMAT: STANDARD// GLOBAL MAP

```

DEVICE: ;80;999 TELNET

GLOBAL MAP DATA DICTIONARY #52.52 -- CLOZAPINE PRESCRIPTION OVERRIDES FILE 6/1  
8/19 PAGE 1  
STORED IN ^PS(52.52, (4099 ENTRIES) SITE: VISTA.CPRSDEV.VA.GOV UCI: CLOZA,C  
LOZA (VERSION 7.0)

-----  
THIS FILE CONTAINS INFORMATION REGARDING WHO, WHEN AND WHY THE PROHIBITION ON A  
PRESCRIPTION FOR CLOZAPINE WAS OVERRIDDEN BY A MEMBER OF THE TEAM. BECAUSE OF  
THE NATURE OF THIS DRUG AND THE RESTRICTIONS PLACED UPON DISPENSING IT, ALL  
FIELDS IN THIS FILE ARE NOT TO BE EDITED THROUGH THE VA FILE MANAGER, BUT ARE TO  
BE SET ONLY THROUGH THE ORDER ENTRY OPTIONS OF THE OUTPATIENT PHARMACY PACKAGE.  
REPORTS GENERATED FROM THIS FILE SHOULD BE GENERATED ONLY FROM THE OPTION  
PROVIDED BY THE PACKAGE. FOR THESE REASONS, READ, WRITE, DELETE AND LAYGO  
ACCESS TO THIS FILE ARE SEVERELY RESTRICTED.

UNDER NO CIRCUMSTANCES SHOULD THE DATA DICTIONARY FOR THIS FILE  
BE MODIFIED

CROSS

REFERENCED BY: PRESCRIPTION NUMBER(A), DATE TIME(B)

^PS(52.52,D0,0)= (#.01) DATE TIME [1D] ^ (#1) PRESCRIPTION NUMBER [2P:52] ^  
==>(#2) USER ENTERING [3P:200] ^ (#3) APPROVING TEAM MEMBER  
==>[4P:200] ^ (#4) REASON FOR OVERRIDE [5P:52.54] ^ (#5)  
==>COMMENTS [6F] ^  
^PS(52.52,D0,1)= (#6) SECOND APPROVING TEAM MEMBER [1P:200] ^

SELECT DATA DICTIONARY UTILITIES OPTION: LIST FILE ATTRIBUTES

START WITH WHAT FILE: 52.54 CLOZAPINE OVERRIDE REASONS  
(10 ENTRIES)  
GO TO WHAT FILE: CLOZAPINE OVERRIDE REASONS// (10 ENTRIES)

SELECT LISTING FORMAT: STANDARD// GLOBAL MAP

DEVICE: ;80;999 TELNET

GLOBAL MAP DATA DICTIONARY #52.54 -- CLOZAPINE OVERRIDE REASONS FILE 6/18/19  
PAGE 1  
STORED IN ^PS(52.54, (10 ENTRIES) SITE: VISTA.CPRSDEV.VA.GOV UCI: CLOZA,CLO  
ZA (VERSION 7.0)

-----  
THIS FILE CONTAINS THE POSSIBLE REASONS FOR OVERRIDING A CLOZAPINE PRESCRIPTION  
OR ORDER LOCKOUT.

CROSS

REFERENCED BY: OVERRIDE REASON(B)



^PS(52.54,D0,0)= (#.01) OVERRIDE REASON [1F] ^

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):  
^DIPT(.01)= CAPTIONED

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

SELECT DATA DICTIONARY UTILITIES <CLOZA> OPTION: LIST FILE ATTRIBUTES

START WITH WHAT FILE: 53.8 CLOZAPINE MEDICATION OVERRIDES  
(57 ENTRIES)

GO TO WHAT FILE: CLOZAPINE MEDICATION OVERRIDES//  
(57 ENTRIES)

SELECT LISTING FORMAT: STANDARD// GLOBAL MAP

DEVICE: ;80;999 TELNET

GLOBAL MAP DATA DICTIONARY #53.8 -- CLOZAPINE MEDICATION OVERRIDES FILE 6/18/19  
PAGE 1

STORED IN ^PS(53.8, (57 ENTRIES) SITE: VISTA.CPRSDEV.VA.GOV UCI: CLOZA,CLOZ  
A (VERSION 5.0)

-----  
THIS FILE CONTAINS INFORMATION REGARDING WHO, WHEN AND WHY THE PROHIBITION ON A ORDER FOR CLOZAPINE WAS OVERRIDDEN MEMBER OF THE TEAM. BECAUSE OF THE NATURE OF THIS DRUG AND THE RESTRICTIONS PLACED UPON DISPENSING IT, ALL FIELDS IN THIS FILE ARE NOT TO BE EDITED THROUGH THE VA FILE MANAGER, BUT ARE TO BE SET ONLY THROUGH THE ORDER ENTRY OPTIONS OF THE INPATIENT PHARMACY PACKAGE. REPORTS GENERATED FROM THIS FILE SHOULD BE GENERATED ONLY FROM THE OPTION PROVIDED BY THE PACKAGE. FOR THESE REASONS, READ, WRITE, DELETE AND LAYGO ACCESS TO THIS FILE ARE SEVERELY RESTRICTED.

UNDER NO CIRCUMSTANCES SHOULD THE DATA DICTIONARY FOR THIS FILE  
BE MODIFIED

CROSS

REFERENCED BY: ORDER NUMBER(A), DATE TIME(B)

^PS(53.8,D0,0)= (#.01) DATE TIME [1D] ^ (#1) ORDER NUMBER [2P:100] ^ (#2)  
==>USER ENTERING [3P:200] ^ (#3) APPROVING TEAM MEMBER [4P:200]  
==>^ (#4) **REASON FOR OVERRIDE [5P:52.54]** ^ (#5) COMMENTS [6F] ^

^PS(53.8,D0,1)= (#6) SECOND APPROVING TEAM MEMBER [1P:200] ^

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

SELECT DATA DICTIONARY UTILITIES <CLOZA> OPTION: LIST FILE ATTRIBUTES

START WITH WHAT FILE: PHARMACY PATIENT// (40 ENTRIES)

GO TO WHAT FILE: PHARMACY PATIENT// (40 ENTRIES)

SELECT SUB-FILE: 62 UNIT DOSE

SELECT SUB-FILE:

SELECT LISTING FORMAT: STANDARD//

START WITH FIELD: FIRST// 301 CLOZAPINE DOSAGE (MG/DAY)

GO TO FIELD: 301 CLOZAPINE DOSAGE (MG/DAY)

DEVICE: ;80;999 TELNET

STANDARD DATA DICTIONARY #55.06 -- UNIT DOSE SUB-FILE 6/18/19 PAGE 1

STORED IN ^PS(55,D0,5, SITE: VISTA.CPRSDEV.VA.GOV UCI: CLOZA,CLOZA

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
-----------------	---------------	--------------------	--------------

55.06,301 CLOZAPINE DOSAGE (MG/DAY) SAND;1 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>3000)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: JUN 06, 2016

HELP-PROMPT: TYPE A NUMBER BETWEEN 0 AND 3000, 0 DECIMAL DIGITS.

DESCRIPTION: THIS IS THE TOTAL DAILY DOSAGE OF CLOZAPINE IF THIS ORDER IS FOR THE DRUG CLOZAPINE. THIS IS USED ONLY FOR CLOZAPINE.

## 4.11. System Configuration

The KIDS post-installation scripts perform all necessary system configuration required by the build. There are no additional actions required.

## 5. Backout Procedure

During the VistA Installation Procedure of the KIDS build, the installer has backed up the modified routines by using the *Backup a Transport Global action*. The installer can restore the routines using the MailMan message that were saved prior to installing the patch. See Appendix C for details on backing out database and order rules checking routines. All software components (routines and other items) must be restored to their previous state at the same time and in conjunction with restoration of the data.

This backout may need to include a database cleanup process.

Contact the product development team for assistance if the installed patch that needs to be backed out contains anything at all other than routines, before trying to back out the patch. If the installed patch that needs to be backed out includes a pre- or post-install routine, please contact the product development team before attempting the backout.

## 5.1. Backout Strategy

During installation, if the option to back up routines was performed, 'Backup a Transport Global,' then sites can restore routines from the backup PackMan message that was generated. The KIDS installation software does not restore other VistA components, such as data dictionaries, cross-references, template changes, etc. Refer to Appendix D for specific steps to back out other components of the multi-build.

Prior to attempting a backout of the software, please contact the IT Enterprise Service Desk at 1-855-673-4357 for support or assistance.

## 5.2. Backout Considerations

The Pharmacy ADPAC and OI&T have the authority to order the backout.

### 5.2.1. Load Testing

N/A

### 5.2.2. User Acceptance Testing

The User Acceptance Testing was conducted by the test sites listed in section 3.2.2.

The sites followed the provided test plan and executed the test cases for the first build of MENTAL HEALTH NCC PROJECT 5.01. The sites either passed or failed any item based on testing. Any items that failed were corrected and sent back to the sites via a new build for further acceptance testing following the same process.

Once in production, the test cases from the last build were performed in production. No subsequent builds were created as the test cases passed and sites signed off on concurrence for release of the product.

## 5.3. Backout Criteria

Criteria for a backout include, but are not limited, to the following:

- a. Failed baseline testing.
- b. Non-recoverable software error.

## 5.4. Backout Risks

Client data entered prior to the backout may be lost depending on the circumstances surrounding the backout (e.g., backout performed after several hours after new release deployed to production and several hours of client data being received, etc.).

## 5.5. Authority for Backout

The authorization for a backout includes a combination of the Chief of Pharmacy, Chief of Mental Health and Chief of Staff and Director of the Facility.

## 5.6. Backout Procedure

The YS\*5.01\*122, PSO\*7\*457, PSJ\*5\*327, OR\*3\*427 patches (part of the combined build, NCC Build 3) as well as any installed dependent patch changes that follow these releases need to be taken out in reverse of the order in which they were installed; routines and data dictionary modifications and populated data must also be rolled back in reverse order.

Please contact the IT Enterprise Service Desk at 1-855-673-4357 for support or assistance regarding roll-back procedures.

## 5.7. Backout Verification Procedure

Inspect the versions of the YS, PSO, PSJ and OR prior to installation.

Please contact the IT Enterprise Service Desk at 1-855-673-4357 for support or assistance regarding roll-back procedures.

## 6. Rollback Procedure

The YS\*5.01\*122, PSO\*7\*457, PSJ\*5\*327, OR\*3\*427 patches (part of the combined build, NCC Release 1), as well as any installed dependent patch changes that follow these releases, need to be removed reverse order in which they were installed; routines, data dictionary modifications, and populated data must also be rolled back in reverse order.

Please contact the IT Enterprise Service Desk at 855-673-4357 for support or assistance regarding roll-back procedures.

### 6.1. Rollback Considerations

No rollback considerations have been determined at this time.

### 6.2. Rollback Criteria

The only criterion for a rollback that has been determined at this time is that the installation failed baseline testing and the software has been backed out as described in Section 5 of this document.

### 6.3. Rollback Risks

Client data entered prior to the rollback may be lost depending on the circumstances surrounding the rollback (i.e., rollback performed after several hours after new release deployed to production and several hours of client data being received, etc.).

### 6.4. Authority for Rollback

The authorization for a rollback includes a combination of the Chief of Pharmacy, Chief of Mental Health and Chief of Staff and Director of the Facility.

### 6.5. Rollback Procedure

The need for a rollback is highly unlikely, however if it is required, contact the product development team for assistance if needed. The rollback procedure may require Pharmacy downtime and a reinstall of any previous KIDS versions. Additional files, options and settings will be ignored by the prior versions of the patches and do not present an operational risk.

Refer to Appendix C and D for steps to remove the following data dictionary changes:

CLOZAPINE OVERRIDE REASONS (52.54)	File	New
------------------------------------	------	-----

CLOZAPINE PRESCRIPTION OVERRIDES (52.52)	File	Modified
REASON FOR OVERRIDE #4	Field	Modified
CLOZAPINE MEDICATION OVERRIDES (53.8)	File	New
PHARMACY PATIENT (55)	File	Modified
sub-file UNIT DOSE (50.06)	File	Modified
CLOZAPINE DOSAGE (MG/DAY) #301	Field	New
CLOZAPINE PARAMETERS (603.03)	File	Modified
RX LAB PROD LISTENER #8	Field	New
DEMOGRAPHIC PROD LISTENER #9	Field	New
RX LAB TEST LISTENER #10	Field	New
DEMOGRAPHIC TEST LISTENER #11	Field	New

## 6.6. Rollback Verification Procedure

After backing out Patch PSJ\*5\*327, PSO\*7\*457 and YS\*5.01\*122 the Database may be verified by running a global listings from the VistA server command line. Global listings should be performed for the following global nodes, after which the following should be listed if the backout was successful:

Global listings should be performed for the following global nodes:

```
Global ^DD(52.52,4,0
Global ^DD(52.54,,0
Global ^DD(53.8,,0
Global ^DD(55.06,301,0
Global ^DD(603.03,8:11,0
```

Example:

```
SUPISC1A2:ARC>D ^%G
Global ^DD(52.52,4,0 -- NOTE: translation in effect

^DD(52.52,4,0)="REASON FOR OVERRIDE^RS^1:NO WBC IN LAST 7 DAYS;2:NO VERIFIED
WBC
;3:LAST WBC RESULT < 3500;4:3 SEQ. WBC DECREASE;5:LAST ANC RESULT < 2000;6:3
SEQ
. ANC DECREASE ;7:NCCC AUTHORIZED;^0;5^Q"

For help on global specifications DO HELP^%G
Global ^DD(52.54,,0 -- NOTE: translation in effect
<Nothing should be displayed>

Global ^DD(53.8,,0 -- NOTE: translation in effect
<Nothing should be displayed>

Global ^DD(55.06,301,0 -- NOTE: translation in effect
<Nothing should be displayed>

Global ^DD(603.03,8:11,0 -- NOTE: translation in effect
<Nothing should be displayed>
```



YS\*5.01\*122 was loaded on May 11, 2019@11:15:13  
Install Completed  
YS\*5.01\*122 was loaded on May 14, 2019@11:02:10  
Install Completed  
YS\*5.01\*122 was loaded on May 23, 2019@09:49:14  
Install Completed  
YS\*5.01\*122 was loaded on Jun 04, 2019@10:11  
OK to continue with Load? NO// YES

Build PSO\*7.0\*457 has been loaded before, here is when:  
PSO\*7.0\*457 was loaded on May 11, 2019@11:15:14  
Install Completed  
PSO\*7.0\*457 was loaded on May 14, 2019@11:02:12  
Install Completed  
PSO\*7.0\*457 was loaded on May 23, 2019@09:49:19  
Install Completed  
PSO\*7.0\*457 was loaded on Jun 04, 2019@10:11:05  
OK to continue with Load? NO// YES

Build PSJ\*5.0\*327 has been loaded before, here is when:  
PSJ\*5.0\*327 was loaded on May 11, 2019@11:15:14  
Install Completed  
PSJ\*5.0\*327 was loaded on May 14, 2019@11:02:13  
Install Completed  
PSJ\*5.0\*327 was loaded on May 23, 2019@09:49:20  
Install Completed  
PSJ\*5.0\*327 was loaded on Jun 04, 2019@10:11:06  
OK to continue with Load? NO// YES

Build OR\*3.0\*427 has been loaded before, here is when:  
OR\*3.0\*427 was loaded on May 11, 2019@11:15:14  
Install Completed  
OR\*3.0\*427 was loaded on May 14, 2019@11:02:13  
Install Completed  
OR\*3.0\*427 was loaded on May 23, 2019@09:49:21  
Install Completed  
OR\*3.0\*427 was loaded on Jun 04, 2019@10:11:08

OK to continue with Load? NO// YES

Distribution OK!

Want to Continue with Load? YES//  
Loading Distribution...

MENTAL HEALTH NCC PROJECT 5.01  
YS\*5.01\*122  
PSO\*7.0\*457  
PSJ\*5.0\*327  
OR\*3.0\*427

Use INSTALL NAME: MENTAL HEALTH NCC PROJECT 5.01 to install this  
Distribution.

Select INSTALL NAME: MENTAL HEALTH NCC PROJECT 5.01

6/12/19@23:34:38

=> T23 build June 12, 2019 YS\*5.01\*122, PSO\*7.0\*457, PSJ\*5.0\*327,  
OR\*3.0\*

This Distribution was loaded on Jun 12, 2019@23:34:38 with header of  
T23 build June 12, 2019 YS\*5.01\*122, PSO\*7.0\*457, PSJ\*5.0\*327, OR\*3.0\*42  
;Created on Jun 12, 2019@13:46:02

It consisted of the following Install(s):  
MENTAL HEALTH NCC PROJECT 5.01 YS\*5.01\*122 PSO\*7.0\*457 PSJ\*5.0\*327  
OR\*3.0\*427

Checking Install for Package MENTAL HEALTH NCC PROJECT 5.01

Install Questions for MENTAL HEALTH NCC PROJECT 5.01

Checking Install for Package YS\*5.01\*122

Install Questions for YS\*5.01\*122

Incoming Files:

603.03 CLOZAPINE PARAMETERS (Partial Definition)  
Note: You already have the 'CLOZAPINE PARAMETERS' File.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//

Checking Install for Package PSO\*7.0\*457

Install Questions for PSO\*7.0\*457

Incoming Files:

52.52 CLOZAPINE PRESCRIPTION OVERRIDES (Partial Definition)  
Note: You already have the 'CLOZAPINE PRESCRIPTION OVERRIDES' File.

52.54 CLOZAPINE OVERRIDE REASONS (including data)  
Note: You already have the 'CLOZAPINE OVERRIDE REASONS' File.  
Data will NOT be added.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//

Checking Install for Package PSJ\*5.0\*327

Install Questions for PSJ\*5.0\*327

Incoming Files:

53.8 CLOZAPINE MEDICATION OVERRIDES  
Note: You already have the 'CLOZAPINE MEDICATION OVERRIDES' File.

55 PHARMACY PATIENT (Partial Definition)  
Note: You already have the 'PHARMACY PATIENT' File.



Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//

Checking Install for Package OR\*3.0\*427

Install Questions for OR\*3.0\*427

Want KIDS to INHIBIT LOGONs during the install? NO//

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//

Enter the Device you want to print the Install messages.

You can queue the install by enter a 'Q' at the device prompt.

Enter a '^' to abort the install.

DEVICE: HOME// ;;99999 HOME (CRT)

-----  
---

Install Started for MENTAL HEALTH NCC PROJECT 5.01 :

Jun 12, 2019@23:49:17

Build Distribution Date: Jun 12, 2019

Installing Routines:

Jun 12, 2019@23:49:17

Install Started for YS\*5.01\*122 :

Jun 12, 2019@23:49:17

Build Distribution Date: Jun 12, 2019

Installing Routines:

Jun 12, 2019@23:49:17

Running Pre-Install Routine: BKGRD^YSCLTEST

Installing Data Dictionaries:

Jun 12, 2019@23:49:17

Installing PACKAGE COMPONENTS:

Installing OPTION

Jun 12, 2019@23:49:17

Running Post-Install Routine: START^YSCL122P

Updating Routine file...

Updating KIDS files...

YS\*5.01\*122 Installed.

Jun 12, 2019@23:49:21

Not a production UCI

NO Install Message sent

Install Started for PSO\*7.0\*457 :  
Jun 12, 2019@23:49:21

Build Distribution Date: Jun 12, 2019

Installing Routines:  
Jun 12, 2019@23:49:21

Installing Data Dictionaries:  
Jun 12, 2019@23:49:21

Installing Data:  
Jun 12, 2019@23:49:21

Installing PACKAGE COMPONENTS:

Installing OPTION  
Jun 12, 2019@23:49:21

Running Post-Install Routine: POST^PSO457P

Checking for Clozapine Registry data in ^XTMP. Jun 12, 2019@23:49:21

Clozapine Registry data in ^XTMP updated.

Updating Routine file...

Updating KIDS files...

PSO\*7.0\*457 Installed.  
Jun 12, 2019@23:49:21

Not a production UCI

NO Install Message sent

Install Started for PSJ\*5.0\*327 :  
Jun 12, 2019@23:49:21

Build Distribution Date: Jun 12, 2019

Installing Routines:  
Jun 12, 2019@23:49:21

Installing Data Dictionaries: .  
Jun 12, 2019@23:49:22

Installing PACKAGE COMPONENTS:

Installing OPTION  
Jun 12, 2019@23:49:22

Running Post-Install Routine: ADDMENUS^PSJ327P

Updating Routine file...

The following Routines were created during this install:

PSSJXR  
PSSJXR1  
PSSJXR10  
PSSJXR11  
PSSJXR12  
PSSJXR13  
PSSJXR14  
PSSJXR15  
PSSJXR16  
PSSJXR17  
PSSJXR18  
PSSJXR19  
PSSJXR2  
PSSJXR20  
PSSJXR21  
PSSJXR22  
PSSJXR23  
PSSJXR24  
PSSJXR25  
PSSJXR26  
PSSJXR27  
PSSJXR28  
PSSJXR29  
PSSJXR3  
PSSJXR30  
PSSJXR31  
PSSJXR32  
PSSJXR33  
PSSJXR34  
PSSJXR35  
PSSJXR36  
PSSJXR37  
PSSJXR38  
PSSJXR39  
PSSJXR4  
PSSJXR40  
PSSJXR5  
PSSJXR6  
PSSJXR7  
PSSJXR8  
PSSJXR9

Updating KIDS files...

PSJ\*5.0\*327 Installed.  
Jun 12, 2019@23:49:22

Not a production UCI

NO Install Message sent

Install Started for OR\*3.0\*427 :  
Jun 12, 2019@23:49:22

Build Distribution Date: Jun 12, 2019

Installing Routines:  
Jun 12, 2019@23:49:22

Running Post-Install Routine: ^ORY427ES .

Order Check Expert System Rule Transporter  
Created: MAR 7,2017 at 15:12 at NCCLAB1.AAC.VA.GOV  
Current Date: JUN 12,2019 at 23:49 at CHY0009.FO-BAYPINES.MED.VA.GOV

Loading Data . . . . .  
Installing '863.8 OCX MDD PARAMETER' records... .

-----Inconsistent word Data-----  
OCX MDD PARAMETER: COMPARISON VALUE [172]  
DESCRIPTION field [1] Line #1  
(L) CHY0009.FO-BAYPINES.MED.VA.GOV: This is a value to be  
cD  
. . . . .

-----Inconsistent word Data-----  
OCX MDD PARAMETER: PRIMARY DATA FIELD [171]  
DESCRIPTION field [1] Line #1  
(L) CHY0009.FO-BAYPINES.MED.VA.GOV: Primary data field in  
a t  
. . . . .

Installing '864.1 OCX MDD DATATYPE' records... . . . .  
Installing '863.7 OCX MDD PUBLIC FUNCTION' records... . . . .  
Installing '863.9 OCX MDD CONDITION/FUNCTION' records... . . . .  
Installing '863.4 OCX MDD ATTRIBUTE' records... . . . .  
. . . . .  
Installing '863.2 OCX MDD SUBJECT' records... . . . .  
Installing '863.3 OCX MDD LINK' records... . . . .  
Installing '860.9 ORDER CHECK NATIONAL TERM' records... . . . .  
. . . . .  
Installing '860.8 ORDER CHECK COMPILER FUNCTIONS' records... . . . .  
. . . . .

-----Inconsistent word Data-----  
ORDER CHECK COMPILER FUNCTIONS: LOCAL TERM LOOKUP [38]  
DESCRIPTION field [1] Line #1  
(L) CHY0009.FO-BAYPINES.MED.VA.GOV: This function allows a  
lg  
. . . . .

Installing '860.6 ORDER CHECK DATA CONTEXT' records... . . . .  
Installing '860.5 ORDER CHECK DATA SOURCE' records... . . . .  
Installing '860.4 ORDER CHECK DATA FIELD' records... . . . .  
. . . . .  
Installing '860.3 ORDER CHECK ELEMENT' records... . . . .  
Installing '860.2 ORDER CHECK RULE' records... . . . .

No data filing errors.

Transport Finished...

---Creating Order Check Routines-----

Build list of Active Rules, Elements and Datafields...

96 DATA FIELDS

77 ELEMENTS

39 RULES

Compile DataField Navigation code...

101 DataField Navigation Code Arrays

Compile Element Evaluation code...

71 Event Evaluation Code Arrays

Compile Element MetaCode...

77 Element Metacode Arrays

Get Compiler Function Code...

51 Compiler Include Functions

Compile Rule Element Relation code...

55 Rule Element Relation Code Arrays

Construct Decision Tree...

689 Sub-Routines

Optimize Sub-Routines...

276 Sub-Routines

60% Optimization

Assemble Routines...

38 OCXOZ\* Routines

Updating Routine file...

Updating KIDS files...

OR\*3.0\*427 Installed.

Jun 12, 2019@23:49:23

Not a production UCI

NO Install Message sent

Updating Routine file...

Updating KIDS files...

MENTAL HEALTH NCC PROJECT 5.01 Installed.  
Jun 12, 2019@23:49:23

No link to PACKAGE file

NO Install Message sent

Call MENU rebuild

Starting Menu Rebuild: Jun 12, 2019@23:49:25

Collecting primary menus in the New Person file...

Primary menus found in the New Person file  
-----

OPTION NAME	MENU TEXT	# OF USERS	LAST USED	LAST BUILT
DIUSER 05/11/19	VA FileMan	2	01/29/18	
XMUSER 05/11/19	MailMan Menu	394	01/29/18	
EVE 05/11/19	Systems Manager Menu	92	06/12/19	
XUSER 05/11/19	User Management	3	01/29/18	
SDMGR 05/11/19	Scheduling Manager's Menu	1	01/19/18	
YSUSER 05/11/19	Mental Health	144	01/29/18	
PSO MANAGER 05/11/19	Outpatient Pharmacy Manager	19	01/29/18	
DG BED CONTROL 05/11/19	Bed Control Menu	1	01/29/18	

Building secondary menu trees....

Merging.... done.

Install Completed

## Appendix B. Daily Transmission Details

The VistA Daily Clozapine Transmission [YSCL DAILY TRANSMISSION] option is designed to transmit the Clozapine dispensing, lab data, and demographics information for all Inpatient and Outpatient Clozapine dispenses from the previous day's dispenses and has been designed to only send the data once a day.

### A. VistA Daily Clozapine Transmission [YSCL DAILY TRANSMISSION]

The VistA Daily Clozapine Transmission [YSCL DAILY TRANSMISSION] option should be queued to run after midnight via TaskMan. If needed, it can also be run manually in the foreground.

### Example: Scheduling the new Daily Transmission Option

**Note: The option should be scheduled to run daily during off-peak. Sites should choose an appropriate time based on their workload.**

```
Select Systems Manager Menu Option: TASKman Management
```

```
Schedule/Unschedule Options
One-time Option Queue
Taskman Management Utilities ...
List Tasks
Dequeue Tasks
Requeue Tasks
Delete Tasks
Print Options that are Scheduled to run
Cleanup Task List
Print Options Recommended for Queuing
```

```
Select Taskman Management Option: SCHEDULE/Unschedule Options
```

```
Select OPTION to schedule or reschedule: YSCL DAILY TRANSMISSION
Daily Clozapine Transmission
```

```
Are you adding 'YSCL DAILY TRANSMISSION' as
a new OPTION SCHEDULING (the 17TH)? No// Y (Yes)
```

```
Edit Option Schedule
```

```
Option Name: YSCL DAILY TRANSMISSION
Menu Text: Daily Clozapine Transmission          TASK ID:
```

---

```
QUEUED TO RUN AT WHAT TIME: JUL 9,2019@01:30
```

```
DEVICE FOR QUEUED JOB OUTPUT:
```

```
QUEUED TO RUN ON VOLUME SET:
```

```
RESCHEDULING FREQUENCY: 1D
```

```
TASK PARAMETERS:
```

SPECIAL QUEUEING:

Exit Save Next Page Refresh Quit

When this option runs, it sends a Mailman message to mail group:  
Clozapine Discontinued Patient - CLOZAPINE ROLL-UP@FORUM.VA.GOV  
The mailman message to NCCC contains the Patients' SSN, name and reason for why the patient has been discontinued.

Example: Discontinued Clozapine Patient Mailman message to NCCC

```
SUBJ: FACILITY DISCONTINUED STATUS [#228489] 02/03/17@10:16 7 LINES
FROM: CLOZAPINE MONITOR IN 'IN' BASKET. PAGE 1 *NEW*
-----
GHAHU,JLUASXY W CU (2501)
THE PATIENT STATUS HAS CHANGED TO 'DISCONTINUED' BECAUSE THE NEW CLOZAPINE
PATIENT HAS NOT FILLED THE PRESCRIPTION/ORDER WITHIN 28 DAYS OF BEING MARKED
'ACTIVE'.

KLSH,INALY U (2700)
THE PATIENT STATUS HAS CHANGED TO 'DISCONTINUED' BECAUSE THE TEMPORARY LOCAL
AUTHORIZATION NUMBER ASSIGNED HAS EXPIRED AND NCCC HAS NOT ISSUED A NEW
AUTHORIZATION NUMBER.

MHIERT,LIXAGX U (5537)
THE PATIENT STATUS HAS CHANGED TO 'DISCONTINUED' BECAUSE THE ACTIVE CLOZAPINE
PATIENT HAS NOT FILLED THE PRESCRIPTION/ORDER WITHIN 56 DAYS OF BEING
PRESCRIBED/ORDERED.
```

Mailman message to mail group:  
Clozapine demographics - RUCLDEM@FO-DALLAS.MED.VA.GOV  
This message contains the Patients' SSN and name

Example: Clozapine demographics - Mailman message to NCC

```
Subj: Clozapine demographics [#228491] 02/03/17@10:28 14 lines
From: CLOZAPINE MONITOR In 'IN' basket. Page 1 *New*
-----
Clozapine demographic data was transmitted, 4 records were sent.
For the following patients, one or more of the required data
elements (race, sex, ZIP code) were missing.
Please have this information entered.
The available data was transmitted.

101086586 LDAN,AHPDT H (RACE, NEW FORMAT) (ETHNICITY)
NOTE: Race and Ethnicity may be entered if permission is obtained in the informed
Consent document. See VHA Directive 99-035.
101039337 AAA,AXRDH Z (RACE, NEW FORMAT) (ETHNICITY)
NOTE: Race and Ethnicity may be entered if permission is obtained in the informed
Consent document. See VHA Directive 99-035.
```



Mailman message to mail group:  
Clozapine lab data - RUCLRXLAB@FO-DALLAS.MED.VA.GOV  
This message contains the number of records transmitted to the NCCC Server.  
SSN, name, lab result date, WBC date and the Neutrophil date.

Example: Clozapine lab data - Mailman message to NCC

Subj: Clozapine lab data @ REDACTED VAMC on 3170111 at 02 [#216721]  
01/11/17@02:00 12 lines  
From: CLOZAPINE MONITOR In 'IN' basket. Page 1 \*New\*

-----  
Clozapine lab data was transmitted, 11 records were sent

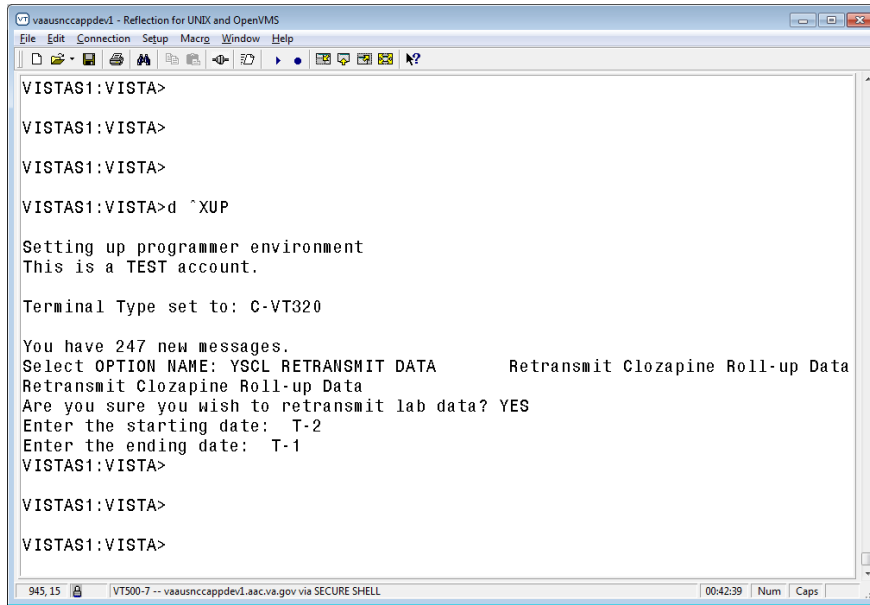
In message # 216720

101074507 AAADTSXY,QLYJH U (R) Jan 10, 2017 (W) Jan 10, 2017 (N) Jan 10, 2017  
101028121 ZXUY,QLYJH K (R) Jan 10, 2017 (W) Jan 09, 2017 (N) Jan 09, 2017  
101039337 AAA,AXRDH Z (R) Jan 10, 2017 (W) Jan 10, 2017 (N) NO NEUT  
101039337 AAA,AXRDH Z (R) Jan 10, 2017 (W) Jan 10, 2017 (N) NO NEUT  
101040657 AJXJB,TLRA HIPLUI (R) Jan 04, 2017 (W) Jan 10, 2017 (N) Jan 10, 2017  
101040657 AJXJB,TLRA HIPLUI (R) Jan 10, 2017 (W) Jan 10, 2017 (N) Jan 10, 2017  
101049185 GALI,LKHA A (R) Jan 10, 2017 (W) Jan 05, 2017 (N) Jan 05, 2017  
101077432 BXADLY,TXY A (R) Jan 10, 2017 (W) Jan 10, 2017 (N) NO NEUT  
101077432 BXADLY,TXY A (R) Jan 10, 2017 (W) Jan 10, 2017 (N) NO NEUT

**B. VistA Retransmit Clozapine Roll-up Data [YSCL RETRANSMIT DATA]**

The VistA Retransmit Clozapine Roll-up Data [YSCL RETRANSMIT DATA] option has been added in the event the NCCC needs to resend the Clozapine Data to the NCCC Server. The NCC application coordinator at each site will determine who is assigned the option. This option can send a single day's transactions or consecutive days of transactions. This option must be run manually in VistA. When running the option, the user will need to provide the start date and ending date for re-transmission. The system will then create and send the Clozapine lab data via a MailMan message to the NCC.

**Example:** Retransmit Clozapine Roll-up Data



### C. Options Being Disabled by this Patch

The VistA Weekly Clozapine Report [YSCL WEEKLY TRANSMISSION] and the Transmit Clozapine Demographics [YSCL TRANSMIT DEMOGRAPHICS] options have been marked ‘Out of Service’ and display ‘Replaced by the Daily Clozapine Transmission’ message.

#### Verification of the OPTION entries being disabled:

```

Select VA FileMan <CLOZA> Option:  Inquire to File Entries

Output from what File: OPTION//          (10342 entries)

Select OPTION NAME: YSCL WEEKLY TRANSMISSION      Weekly Clozapine Report

Another one: YSCL TRANSMIT DEMOGRAPHICS          Transmit Clozapine Demographics

Another one:

Standard Captioned Output? Yes// N  (No)

First Print FIELD: .01  NAME
Then Print FIELD: 1  MENU TEXT
Then Print FIELD: OUT OF ORDER MESSAGE
Then Print FIELD:

Heading (S/C): OPTION List//

DEVICE:  TELNET

OPTION List          JUL 08, 2019@14:42  PAGE 1
NAME
  MENU TEXT
  OUT OF ORDER MESSAGE
-----

```

YSCL WEEKLY TRANSMISSION  
Weekly Clozapine Report  
Replaced by YSCL DAILY TRANSMISSION  
YSCL TRANSMIT DEMOGRAPHICS  
Transmit Clozapine Demographics  
Replaced by YSCL DAILY TRANSMISSION.

## Appendix C. Order Checking Rules Backout

**Warning: Do not attempt rollback without contacting the Clozapine Modernization development team.**

The Clozapine project implemented several order checking rules to comply with the project's requirements. As part of the roll-back and backout, those rules need to be restored to the prior state. The below semi-manual steps are required to restore the order checking rules to their prior state.

1. Edit the CLOZAPINE record (57) in the Order Rule file (#860.2) to the 'before values' (See Order Rule File previous settings below Appendix C.1)
2. Compile the Order Rule file (#860.2)
3. Use the commands provided in Appendix D to revert the data dictionary (File #603.03), File #52.52. changes, File 52.54, File 53.8, and a field in File 55.
4. Restore YS, PSO, PSJ, OR routines from the Backup of YS\*5.01\*122 install

### Appendix C.1. Order Entry Rules Settings for Backout

#### ORDER CHECK RULE LIST

-----

NUMBER: 57	NAME: CLOZAPINE
LABEL: NO WBC W/IN 7 DAYS	
ELEMENT NAME: CLOZAPINE NO WBC W/IN 7 DAYS	
TYPE: SIMPLE DEFINITION	
LABEL: WBC < 3.0	ELEMENT NAME: CLOZAPINE WBC < 3.0
TYPE: SIMPLE DEFINITION	
LABEL: ANC < 1.5	ELEMENT NAME: CLOZAPINE ANC < 1.5
TYPE: SIMPLE DEFINITION	
LABEL: 3.0 <= WBC < 3.5	
ELEMENT NAME: CLOZAPINE WBC >= 3.0 & < 3.5	
TYPE: SIMPLE DEFINITION	
LABEL: NO ANC W/IN 7 DAYS	
ELEMENT NAME: CLOZAPINE NO ANC W/IN 7 DAYS	
TYPE: SIMPLE DEFINITION	
LABEL: CLOZAPINE	ELEMENT NAME: CLOZAPINE DRUG SELECTED
TYPE: SIMPLE DEFINITION	
LABEL: ANC >= 1.5	ELEMENT NAME: CLOZAPINE ANC >= 1.5

TYPE: SIMPLE DEFINITION  
 LABEL: WBC  $\geq$  3.5                      ELEMENT NAME: CLOZAPINE WBC  $\geq$  3.5  
 TYPE: SIMPLE DEFINITION  
 LABEL: 1.5  $\leq$  ANC  $<$  2.0  
 ELEMENT NAME: CLOZAPINE ANC  $\geq$  1.5 &  $<$  2.0  
 TYPE: SIMPLE DEFINITION  
 STATUS: ACTIVE  
 RELATION INDEX: 1                      ORDER CHECK: CLOZAPINE APPROPRIATENESS  
 RELATION EXPRESSION: CLOZAPINE AND (NO WBC W/IN 7 DAYS OR NO ANC W/IN 7 DAYS)  
 ORDER CHECK MESSAGE: Clozapine orders require a CBC/Diff within past 7 days.  
     Please order CBC/Diff with WBC and ANC immediately.  
     Most recent results - |CLOZ LAB RSLTS|  
 RELATION INDEX: 2                      ORDER CHECK: CLOZAPINE APPROPRIATENESS  
 RELATION EXPRESSION: CLOZAPINE AND (WBC  $<$  3.0 OR ANC  $<$  1.5)  
 ORDER CHECK MESSAGE: WBC  $<$  3.0 and/or ANC  $<$  1.5 - pharmacy cannot fill  
     clozapine order. Most recent results - |CLOZ LAB RSLTS|  
 RELATION INDEX: 3                      ORDER CHECK: CLOZAPINE APPROPRIATENESS  
 RELATION EXPRESSION: CLOZAPINE AND 3.0  $\leq$  WBC  $<$  3.5 AND ANC  $\geq$  1.5  
 ORDER CHECK MESSAGE: WBC between 3.0 and 3.5 with ANC  $\geq$  1.5 - please repeat  
     CBC/Diff including WBC and ANC immediately and twice  
     weekly. Most recent results - |CLOZ LAB RSLTS|  
 RELATION INDEX: 4                      ORDER CHECK: CLOZAPINE APPROPRIATENESS  
 RELATION EXPRESSION: CLOZAPINE AND 1.5  $\leq$  ANC  $<$  2.0  
 ORDER CHECK MESSAGE: ANC between 1.5 and 2.0 - please repeat CBC/Diff  
     including WBC and ANC immediately and twice weekly.  
     Most recent results - |CLOZ LAB RSLTS|

# Appendix D. Backout Steps

**Warning: Do not attempt rollback without contacting the Clozapine Modernization development team.**

## Appendix D.1. Remove Data Dictionary File 52.54

To permanently remove the file from the data dictionary, the developer should enter the following:

```
VISTA> S DIK="^DIC(",DA=52.54 D ^DIK <Enter>
VISTA>K ^DD(52.54),^PS(52.54) → removes data too
```

## Appendix D.2. Modify Field 4 of the File 52.52

To change field 4 of the file 52.52 back to pre-install, the developer should use FileMan:

```
VISTA>D P^DI
```

```
VA FileMan 22.2
```

```
Select OPTION: MODIFY FILE ATTRIBUTES
Do you want to use the screen-mode version? YES//
```

```
Modify what File: CLOZAPINE PRESCRIPTION OVERRIDES// (515 entries)
```

```
Select FIELD: 4 REASON FOR OVERRIDE
Field #4 in File #52.52
FIELD LABEL: REASON FOR OVERRIDE DATA TYPE... SET
R,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,T
.CODE: 1 WILL STAND FOR: NO WBC IN LAST 7 DAYS .
.CODE: 2 WILL STAND FOR: NO VERIFIED WBC .
.CODE: 3 WILL STAND FOR: LAST WBC RESULT < 3500 .
.CODE: 4 WILL STAND FOR: 3 SEQ. WBC DECREASE .
.CODE: 5 WILL STAND FOR: LAST ANC RESULT < 2000 .
.CODE: 6 WILL STAND FOR: 3 SEQ. ANC DECREASE .
.CODE: 7 WILL STAND FOR: NCCC AUTHORIZED .
.CODE: WILL STAND FOR: .
.CODE: WILL STAND FOR: .
.CODE: WILL STAND FOR: .
.CODE: WILL STAND FOR: .
.CODE: WILL STAND FOR: .
.CODE: WILL STAND FOR: .
F,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,G
```

```
Field #4 in File #52.52
FIELD LABEL: REASON FOR OVERRIDE DATA TYPE... SET
TITLE:
AUDIT:
AUDIT CONDITION:
READ ACCESS:
```

```

DELETE ACCESS: ^
WRITE ACCESS: ^
SOURCE:
DESCRIPTION...      TECHNICAL DESCRIPTION...

IS THIS FIELD MULTIPLE... NO

MANDATORY: YES
HELP-PROMPT: Enter the reason for the override of this prescription.
EXECUTABLE HELP:

```

---

```

Exit      Save      Refresh      Quit

Enter a COMMAND, or "^" followed by the CAPTION of a FIELD to jump to.

COMMAND: E                      Press <PF1>H for help  Insert

SINCE YOU HAVE CHANGED THE FIELD DEFINITION,
EXISTING 'REASON FOR OVERRIDE' DATA WILL NOW BE CHECKED FOR INCONSISTENCIES
OK? Yes// N (No)

```

### Appendix D.3. Remove Data Dictionary File 53.8

To permanently remove the file from the data dictionary, the developer enters the following:

**\*\*\* Warning: This should only be done by a programmer familiar with VistA utilities and conventions. A mistake could cause severe data loss. \*\*\***

```

VISTA> S DIK="^DIC(",DA=53.8 D ^DIK
; the following command removes data too
VISTA>K ^DD(53.8),^PS(53.8)

```

### Appendix D.4. Remove Field 301 from File 55

To remove the field 301 definition from the file 55, the developer should use FileMan:

```

VISTA>D P^DI

VA FileMan 22.2

Select OPTION: MODIFY FILE ATTRIBUTES
Do you want to use the screen-mode version? YES// NO

Modify what File: PHARMACY PATIENT//      (44820 entries)

Select FIELD: UNIT DOSE      (multiple)
LABEL: UNIT DOSE//
READ ACCESS (OPTIONAL):
WRITE ACCESS (OPTIONAL):

```

```

SOURCE:
Select DESTINATION:
Select GROUP: PSJU//
DESCRIPTION:
  1> This represents the 'top' of the UNIT DOSE SUB-FILE, where all of
  2>a patient's active (and expired & dc'd) UNIT DOSE orders are kept.
  3>Although orders are initially entered into ^PS(53.1), the order is
  4>transferred into this sub-file (^PSGOT) upon verification.
EDIT Option:
TECHNICAL DESCRIPTION:
  1>

Select UNIT DOSE SUB-FIELD: 301 CLOZAPINE DOSAGE (MG/DAY)
LABEL: CLOZAPINE DOSAGE (MG/DAY) Replace @
  SURE YOU WANT TO DELETE THE ENTIRE 'CLOZAPINE DOSAGE (MG/DAY)' UNIT DOSE
SUB-FIELD? Y (Yes)

```

## Appendix D.5. Remove Fields 8-11 from File 603.03

To remove fields 8-11 definition from the file 603.03, the developer should use FileMan:

```

VISTA>D P^DI

VA FileMan 22.2

Select OPTION: MODIFY FILE ATTRIBUTES
Do you want to use the screen-mode version? YES// YES

Modify what File: CLOZAPINE OVERRIDE REASONS// 603.03 CLOZAPINE PARAMETERS
(1 entry)

Select FIELD: 8 RX LAB PROD LISTENER
Field #8 in File #603.03
FIELD LABEL: DATA TYPE... FREE TEXT
  R,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,T
  . *****
  . ARE YOU SURE YOU WANT TO DELETE THE ENTIRE FIELD: YES .
AUDIT CON. *****
  READ F,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,G
  DELETE ACCESS:
  WRITE ACCESS:
  SOURCE:
  DESCRIPTION... TECHNICAL DESCRIPTION...

  IS THIS FIELD MULTIPLE... NO

  MANDATORY: NO
  HELP-PROMPT: Answer must be 5-40 characters in length.
XECUTABLE HELP:

```

OK TO DELETE 'RX LAB PROD LISTENER' FIELDS IN THE EXISTING ENTRIES? Yes//Y  
(Yes)

Select FIELD: 9 DEMOGRAPHIC PROD LISTENER

**Field #9 in File #603.03**

FIELD LABEL: DATA TYPE... FREE TEXT

R,,,T  
. \*\*\*\*\*  
. ARE YOU SURE YOU WANT TO DELETE THE ENTIRE FIELD: **YES** .  
AUDIT CON. \*\*\*\*\*  
READ F,,,G  
DELETE ACCESS:  
WRITE ACCESS:  
SOURCE:  
DESCRIPTION... TECHNICAL DESCRIPTION...

IS THIS FIELD MULTIPLE... **NO**

MANDATORY: **NO**  
HELP-PROMPT: **Answer must be 5-40 characters in length.**  
XECUTABLE HELP:

---

OK TO DELETE 'DEMOGRAPHIC PROD LISTENER' FIELDS IN THE EXISTING ENTRIES?  
Yes//Y (Yes)

Select FIELD: 10 RX LAB TEST LISTENER

**Field #10 in File #603.03**

FIELD LABEL: DATA TYPE... FREE TEXT

R,,,T  
. \*\*\*\*\*  
. ARE YOU SURE YOU WANT TO DELETE THE ENTIRE FIELD: **YES** .  
AUDIT CON. \*\*\*\*\*  
READ F,,,G  
DELETE ACCESS:  
WRITE ACCESS:  
SOURCE:  
DESCRIPTION... TECHNICAL DESCRIPTION...

IS THIS FIELD MULTIPLE... **NO**

MANDATORY: **NO**  
HELP-PROMPT: **Answer must be 5-40 characters in length.**  
XECUTABLE HELP:

---

OK TO DELETE 'RX LAB TEST LISTENER' FIELDS IN THE EXISTING ENTRIES? Yes//Y  
(Yes)

Select FIELD: 11 DEMOGRAPHIC TEST LISTENER

**Field #11 in File #603.03**

FIELD LABEL: DATA TYPE... FREE TEXT

R,,,T



```

. *****
. ARE YOU SURE YOU WANT TO DELETE THE ENTIRE FIELD: YES
AUDIT CON. *****
  READ F,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,G
  DELETE ACCESS:
  WRITE ACCESS:
  SOURCE:
DESCRIPTION...      TECHNICAL DESCRIPTION...

                        IS THIS FIELD MULTIPLE... NO

  MANDATORY: NO
  HELP-PROMPT: Answer must be 5-40 characters in length.
XECUTABLE HELP:

```

---

OK TO DELETE ' DEMOGRAPHIC TEST LISTENER' FIELDS IN THE EXISTING ENTRIES?  
Yes//Y (Yes)