Computerized Patient Record System (CPRS)

TECHNICAL MANUAL

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Revision History

☞ **NOTE: The new entries in the Change column are hyperlinked to the sections that were changed.**

Date	Pages	Change
1/24/03	236-237, 288	Added changes for Forwarding Alerts to a backup reviewer. Also, added a change for analgesics.
10/1/02	296-331	Updated appendix F, "Creating, Editing, and Viewing Release Events"
10/1/02	332-351	Updated appendix G, "Automatically Discontinuing Orders"
10/1/02	352-354	Added appendix H: Frequently Asked Questions about Event-Delayed Orders and Automatically Discontinuing Orders (Auto-DC Rules)
10/1/02	11	Updated the CPRS Configuration Menu (Clin Coord) options.
10/1/02	72	Added OE/RR PATIENT EVENT FILE, OE/RR RELEASE EVENTS, and OE/RR AUTO-DC RULES to the files list.
9/1/02		Updated exported routines.
9/1/02		Added a description of the OE/RR RELEASE EVENTS (#100.5) file under the "Files Associated with Release Events" heading.
9/1/02		Added a description of the OE/RR AUTO-DC RULES (#100.6) file and the OE/RR PATIENT EVENTS (#100.2) file under the heading "Files Associated with Auto-DC Rules."
9/1/02		Added brief explanation for information on the patch OR*3.0*139 change of recipients for orderer-flagged results. Also added information on the Notification ORB Forward Backup Reviewer.
8/28/02		Added information about Order Check Data Caching from Patch OR*3.0*143

Date	Pages	Change
7/1/02		Added “CPRS Tab Access and Reports-Only Access” section.
3/20/02		Added steps for assigning keys including an example.
2/11/02		Added information to Appendix E about how order checks work and descriptions of the order checks. Related patches are OR*3*127 and OR*3*128.
12/10/01		Added information about changes to UNVERIFIED ORDER and UNVERIFIED MEDICATION ORDER alerts.
12/10/01		Added information about the IMAGING REQUEST CHANGED alert.
11/29/01		Deleted references to ORB SURROGATE RECIPIENT parameter.
11/29/01		Added new alert: LAB THRESHOLD EXCEEDED.
11/29/01		Added functionality that sends alerts to devices on an OE/RR team.
11/29/01		Added description of ORK CONTRAST MEDIA CREATININE parameter.
9/25/01		Added description of changes for Performance Monitor Report.
5/10/01		Added description of functions for Performance Monitor Report in CPRS Configuration (Clin Coord).
5/3/01		Added Appendix D entitled “Exported (Default) Values for Notification Parameters”
2/15/01		Added a new appendix on how notifications work.
11/30/00		Added functions for Unsigned Orders Search in CPRS Configuration (Clin Coord).
7/24/00		Added a number of new notifications including Flagged orderable items expiring from patch 0R *3*88.

Date	Pages	Change
7/24/00		Updated appendix with new material from patches.
7/24/00		Included a new version of the parameters appendix that was formerly Appendix B.
6/29/00		Changed example of DGPM movement sequence.
6/28/00		Changed references to drug-drug interaction to read critical drug interaction.

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Introduction

The Computerized Patient Record System (CPRS) v. 1.0 is a Veterans Health Information Systems and Technology Architecture (VISTA) software application. CPRS enables clinicians, nurses, clerks, and others to enter, review, and continuously update all information connected with any patient.

Developing a computerized patient record is a long-term goal of the Veterans Health Administration (VHA) as part of its mission to provide high quality healthcare for America's veterans. New information needs are emerging as VHA continues to shift into a primary care, ambulatory healthcare delivery model. In the new clinical information environment, all information relevant to treating any given patient will be readily available to healthcare providers, clinical and management decision-makers, educators, and researchers through a secure platform on a need-to-know basis.

With CPRS, care providers can quickly flip through electronic "pages" of the chart to add new orders, review or add problems, write progress notes, or see results. Alerts, notifications, cautions, warnings, advanced directives, future appointments, demographic data, medications, and orders are all available. Order entry now includes quick orders, order sets, and order checking.

Purpose and Contents of This Manual

This manual provides technical information about packages installed with CPRS. Packages that integrate with CPRS, but were released prior to the CPRS installation (such as Dietetics, Lab patches, and Radiology), are described in separate package documentation. Pharmacy (Inpatient Meds and Outpatient Pharmacy) and Consult/Result Tracking are installed with CPRS, but have separate Technical and User Manuals. See those manuals for set-up instructions, lists of routines and files, additional technical information, and user information.

Related Manuals

Computerized Patient Record System v. 1.0 Clinician Guide (GUI)

Computerized Patient Record System v. 1.0 Clinician Guide (LM)

Computerized Patient Record System v. 1.0 Setup Guide

Computerized Patient Record System v. 1.0 Technical Manual

Differences between OE/RR 2.5 and CPRS 1.0

OE/RR 2.5	CPRS 1.0
Features a screen-like interface.	Features the List Manager interface.
"Backdoor" packages control ordering dialogs.	CPRS controls all ordering dialogs.
Multiple patient selection is available.	Only single patient selection is available except through the Results Reporting Menu.
You must select an action, then an item.	You must select an item, then an action.
Navigation of electronic record takes place through a menu structure of options and protocols.	The List Manager version allows navigation through the electronic record by way of actions that are equivalent to the tabs of a chart. The GUI version allows navigation by clicking on tabs.
Outpatient Pharmacy ordering is not available through OE/RR.	Outpatient Pharmacy is now available.
Consults resulting and tracking are not available through OE/RR.	Consults resulting is available through TIU.
There is no access to Discharge Summary.	Discharge Summary is available thru CPRS.
There is no time-delay ordering capability.	Time-delayed orders are available (admission, discharge, and transfer).
Actions available for orders: • Discontinue Orders • Edit Orders • Hold/Unhold Orders • Flag/Unflag Orders • Renew Orders • Comments for Ward/Clinic • Signature on Chart • Results Display • Long/Short Order Format • Detailed Order Display • Print Orders	Additional actions available for orders: • Copy • Discontinue • Change • Hold • Release Hold • Flag • Unflag • Renew • Verify • Ward Comments • Sign/On Chart

OE/RR 2.5	CPRS 1.0
• Print Labels • Requisition Print • Print Chart Copy • Print Service Copy • Accept Orders	• Results • Details • Print List and Print Screen (List Manager actions) • Print Labels • Print Requisitions • Print Chart Copies • Print Service Copies • Print Work Copies
Duplicate order is the only order check.	Twenty-one order checks are available: ALLERGY-CONTRAST MEDIA INTERAC ALLERGY-DRUG INTERACTION AMINOGLYCOSIDE ORDERED BIOCHEM ABNORMALITY FOR CONTRA CLOZAPINE APPROPRIATENESS CRITICAL DRUG INTERACTION CT & MRI PHYSICAL LIMITATIONS DISPENSE DRUG NOT SELECTED DUPLICATE DRUG CLASS ORDER DUPLICATE DRUG ORDER DUPLICATE ORDER ERROR MESSAGE ESTIMATED CREATININE CLEARANCE GLUCOPHAGE-CONTRAST MEDIA LAB ORDER FREQ RESTRICTIONS MISSING LAB TESTS FOR ANGIOGRA ORDER CHECKING NOT AVAILABLE POLYPHARMACY RECENT BARIUM STUDY RECENT ORAL CHOLECYSTOGRAM RENAL FUNCTIONS OVER AGE 65

OE/RR 2.5	CPRS 1.0
Twenty-three Notifications are available.	Forty-eight Notifications are available: LAB RESULTS ORDER REQUIRES CHART SIGNATURE FLAG ORDER FOR CLARIFICATION ORDER REQUIRES ELEC SIGNATURE ABNORMAL LAB RESULTS (ACTION) ADMISSION UNSCHEDULED VISIT DECEASED PATIENT IMAGING PATIENT EXAMINED IMAGING RESULTS CONSULT/REQUEST RESOLUTION CRITICAL LAB RESULT (INFO) ABNORMAL IMAGING RESULTS IMAGING REQUEST CANCEL/HELD NEW SERVICE CONSULT/REQUEST SERVICE ORDER REQ CHART SIGN CONSULT/REQUEST CANCEL/HOLD NPO DIET MORE THAN 72 HRS FLAGGED OI RESULTS - INPT ORDERER-FLAGGED RESULTS DISCHARGE TRANSFER FROM PSYCHIATRY ORDER REQUIRES CO-SIGNATURE FLAGGED OI ORDER - INPT LAB ORDER CANCELED STAT ORDER STAT RESULTS DNR EXPIRING FREE TEXT

OE/RR 2.5	CPRS 1.0
	MEDICATIONS EXPIRING UNVERIFIED MEDICATION ORDER NEW ORDER STAT IMAGING REQUEST URGENT IMAGING REQUEST IMAGING RESULTS AMENDED ORDER CHECK FOOD/DRUG INTERACTION ERROR MESSAGE CRITICAL LAB RESULTS (ACTION) ABNORMAL LAB RESULT (INFO) UNVERIFIED ORDER FLAGGED OI RESULTS – OUTPT FLAGGED OI ORDER – OUTPT DC ORDER CONSULT/REQUEST UPDATED FLAGGED OI EXPIRING – INPT FLAGGED OI EXPIRING – OUTPT IMAGING REQUEST CHANGED
Processing action for notifications is exported by OE/RR.	The site can control the processing action.
Problem lists are available only outside OE/RR.	CPRS features a Problem List tab.
There is no patient data overview available.	The Cover Sheet provides a clinical overview of the patient.

Implementation & Maintenance

See the *CPRS Setup Guide* for more detailed instructions about planning and setting up CPRS.

1. Summary of CPRS Setup

The options on the CPRS Configuration Menus (Clin Coord and IRM) let IRMS staff and Clinical Coordinators set and modify various parameters that control the behavior of the package. These options are described in the following pages of this section.

- After installation of CPRS, check CPRS parameters to ensure that they are all appropriate for your site (particularly Print parameters).
- Set up Pharmacy (Inpatient and Outpatient) parameters (Pharmacy ADPAC). See the *CPRS Setup Guide* or the Pharmacy Technical Manuals for details.
- Use *Enable or Disable Notification System* [ORB3 SYSTEM ENABLE/DISABLE] on the Notification Mgt Menu on the CPRS Manager Menu to turn on Notifications.
- Turn on Order Checking and set up its parameters.
- Use the option *Edit Site Local Terms* [OCX LOCAL TERM EDIT] on the Order Checking Management Menu to link the lab, radiology, and DNR terms used for order checking to local terms.
- Review and assign sequence numbers to protocols in the DGPM Movement Events field of the Protocol file.

```
ITEM: DGOERR NOTE                                    SEQUENCE: 13
ITEM: FHWMAS                                         SEQUENCE: 14
ITEM: LR70 MOVEMENT EVENT                            SEQUENCE: 15
ITEM: OCX ORDER CHECK PATIENT MOVE                   SEQUENCE: 16
ITEM: PSJ OR PAT ADT                                 SEQUENCE: 19
ITEM: ORU AUTOLIST                                   SEQUENCE: 21
ITEM: ORU REVIEW DELAYED ORDERS                      SEQUENCE: 22
ITEM: ORU PATIENT MOVMT                              SEQUENCE: 100
ITEM: OR GUA EVENT PROCESSOR NOTASK                  SEQUENCE: 999
```

This should have the lowest sequence #.

This should have the highest sequence #.

- Assign menus and keys for all packages distributed with CPRS, as described in the *CPRS Set-up Guide* or the Package Security Guide section of this manual and also the other packages' Technical Manuals.
- Review patient and team lists to ensure that they are what you will still use. Add or modify patient or team lists as needed, using options on the Patient/Team List menu.
- Set up Consult/Request Tracking parameters and the SERVICE/SECTION hierarchy. See the *CPRS Setup Guide* or the *Consult/Request Tracking Technical Manual* for details.
- Set up the GUI executable (install on client computers [PCs]).

2. Patch OR*2.5*49

Patch OR*2.5*49—installed prior to CPRS to help prepare VAMCs for CPRS implementation—converts menus, orderable items, generic orders, and quick orders set up locally by sites currently using OE/RR 2.5. The Order Menu Management menu exported with Patch 49 is also on the CPRS Configuration Menu (Clin Coord) on the CPRS Management Menu, and can be used after CPRS is installed to create and edit CPRS orderable items, menus, quick orders, and order sets. Other components of CPRS (Pharmacy, Lab, Radiology, Consult/Request Tracking, etc.) run their own conversions.

Patch 49 begins the transition from the PROTOCOL file (#101) to new files that have been created to handle the ordering mechanism: ORDER DIALOG (#101.41), and ORDERABLE ITEMS (#101.43). Patch 49 installs the data dictionaries. When the patch is installed, these files are automatically populated.

The setup steps for patch 49 in preparation for CPRS include:

- using options on the Protocol Conversion menu to prepare for conversion of menus to the new CPRS files
- conversion of menus
- using options on the Menu Management Menu to create or modify menus, quick orders, order sets, etc.

Protocol Conversion

Review the Protocol File, using ORCM REVIEW PROTOCOLS on the Protocol Conversion Utilities menu.

Protocol Conversion Utilities

Option	Option Name	Description
Review protocol file	ORCM REVIEW PROTOCOLS	This option queues three tasks to examine the PROTOCOL (#101) file for potential problems that may occur with the conversion of protocols to the ORDER DIALOG (#101.41) file. In addition a task will be queued to examine the PACKAGE (#9.4) file for problems with the entries for packages that interface with CPRS. A report of each search will be printed to a selected device.
Convert Protocol Menus to Order Dialogs	ORCM CONVERT MENUS	This option converts “add order” protocol menus that are currently in use to the ORDER DIALOG (#101.41) file for use in CPRS. All items on the menus will be converted to this file as well. A mail message will be sent to the individual running the option regarding any protocols that could not be successfully converted.
Locate protocols	ORCM FIND PROTOCOL	This option allows the Clinical Coordinator or IRM staff to see which protocols contain another protocol as an item. This option may be especially useful after the protocol conversion has completed. If one or more protocols must be recreated using the Order Menu Management tools, this option can be used to see where the recreated item should be replaced in the ORDER DIALOG (#101.41) file.
Estimate global growth for CPRS	ORCM ESTIMATE	This option estimates the number of outpatient prescriptions that will be backfilled into the ORDER (#100) file upon installation of CPRS. This figure, along with the current number of entries in the ^OR global and the ^PSRX global, will be used to estimate the amount of global blocks that will be consumed by the installation of CPRS and the subsequent conversion of orders. NOTE: This is only an estimate. There are many variables that can affect the actual space consumption.
Order Menu Management	ORCM MGMT	Options on this menu can be used for editing and modifying options and menus for CPRS.

Checks and Tasks Triggered When Using ORCM REVIEW PROTOCOLS

Extended Action Order Set Check

Patch OR*2.5*49 will not convert order sets to the ORDER DIALOG (#101.41) file in the proper sequence if the COLUMN WIDTH field is defined for the specific protocol. This will check all extended action protocols and report any with this problem. This is a common occurrence if an order set was created as a menu and then changed to an extended action protocol.

Corrective Action

Deletes the entry in the COLUMN WIDTH field of the listed protocols. This will not affect the protocol and will keep a problem from occurring when converted to file 101.41.

Namespace Check

The conversion of protocols to the ORDER DIALOG (#101.41) file relies heavily on the national namespaces to convert quick orders. This check will identify protocols that belong to a national package, but begin with a namespace differing from that package.

Corrective Action

For conversion of these quick orders to take place, the name must begin with the national namespace of the package to which it belongs.

Duplicate Item Check

Generic orders in CPRS can’t use the same item within an order dialog more than once. This check looks at all dialog type protocols and lists any that have an item that is used more than one time in the ITEM multiple.

Corrective Action

The duplicate item must be removed or replaced with a similar item with a different name.

Package File Check

This check looks at your PACKAGE file and makes sure that the packages required by CPRS are present, have the correct prefixes, and are not duplicated.

Corrective Action

Due to the variability of problems and the significance of the PACKAGE (#9.4) file to proper V*IST*A functioning, the recommendation is to contact National VISTA Support for assistance in correction of any problems.

Order Menu Management

*See the Patch OR*2.5*49 Installation/Implementation Guide for further descriptions and examples of the options on the CPRS Order Menu Management menu.*

Option Name	Menu Text	Description
ORCM ORDERABLES	Enter/edit orderable items	Lets you enter or edit generic order items.
ORCM PROMPTS	Enter/edit prompts	Lets you add or edit prompts for generic order dialogs.
ORCM ORDERS	Enter/edit generic orders	Lets you add or edit free-text orders.
ORCM QUICK ORDERS	Enter/edit quick orders	Lets you create or modify quick orders.
ORCM ORDER SETS	Enter/edit order sets	Lets you create or modify order sets.
ORCM ACTIONS	Enter/edit actions	Lets you enter or edit entry and exit actions for order dialogs.
ORCM MENU	Enter/edit order menus	Lets you modify the current order menus or create new ones for your site.
OR PARAM ADD MENU	Assign primary order menu	Lets you assign ordering menus (including ones you might have created through options here).
ORCM PROTOCOLS	Convert protocols	Lets you convert any protocols that didn't get automatically converted by the installation.
ORCM SEARCH/ REPLACE	Search/Replace Components	Lets you search for specific components on menus and replace them with new ones.

3. Setting CPRS Parameters

CPRS Parameters are set through the following menus and options:

CPRS Configuration Menu (Clin Coord)

Abbreviation	Menu Text	Option Name (in Option file #19)
AL	Allocate OE/RR Security Keys	ORCL KEY ALLOCATION
KK	Check for Multiple Keys	ORE KEY CHECK
DC	Edit DC Reasons	ORCL ORDER REASON
GP	GUI Parameters ...	ORW PARAM GUI
GA	GUI Access - Tabs, RPL	ORCL CPRS ACCESS
MI	Miscellaneous Parameter	OR PARAM ORDER MISC
NO	Notification Mgmt Menu ...	ORB NOT COORD MENU
OC	Order Checking Mgmt Menu	ORK ORDER CHK MGMT MENU
MM	Order Menu Management	ORCM MGMT
LI	Patient List Mgmt Menu ...	ORLP PATIENT LIST MGMT
FP	Print Formats	ORCL PRINT FORMAT
PR	Print/Report Parameters ...	OR PARAM PRINTS
RE	Release/Cancel Delayed Orders	ORC DELAYED ORDERS
US	Unsigned orders search	OR UNSIGNED ORDERS
EX	Set Unsigned Orders View on Exit	OR PARAM UNSIGNED ORDERS VIEW
NA	Search orders by Nature or Status	OR NATURE/STATUS ORDER SEARCH
DO	Event Delayed Orders Menu	OR DELAYED ORDERS

PM	Performance Monitor Report	OR PERFORMANCE MONITOR

See the CPRS Set-up Guide for descriptions of these options.

- CPRS Configuration (IRM)

```
CPRS Clean-up Utilities Menu [ORE MGR]
ORMTIME Main Menu [ORMTIME MAIN]
Order Check Expert System Main Menu [OCX MAIN]
General Parameters Tools [XPAR MENU TOOLS]
```

- Personal Preferences
- Nature of Order file
- Parameter options in packages related to CPRS

Setting CPRS Parameters, cont'd

The behavior of CPRS is also affected by parameters set through the following options in other applications:

Consults

- Define Service Hierarchy
- Set up Consults Services
- Set Up Consult Protocols
- Set Up Consult Site Parameters

Imaging

- Common Procedure Enter/Edit
- Rad/NM Procedure Entry/Edit
- Modifier List
- Procedure Modifier Entry
- Division Parameter Set-up
- Location Parameter Set-up
- Device Specifications for Imaging Locations
- Location Parameter List
- Sharing Agreement/Contract Entry/Edit
- Active Procedure List (Long)
- Examination Status Entry/Edit
- Examination Status List
- Rad/NM Diagnostic Code Enter/Edit
- Diagnostic Code List

Lab

- Domain Level Parameter Edit
- Location Level Parameter Edit
- Package Level Parameter Edit
- Update CPRS Parameters
- Update CPRS with Lab order parameters
- Update CPRS with Single Lab test
- Update CPRS with all Lab test parameters
- Merge Accessions

Pharmacy

Pharmacy Data Management Menu

- Pharmacy/VA Generic Orderable Item Report
- VA Generic Orderable Item Report
- Create Pharmacy Orderable Items
- Manually Match Dispense Drugs
- Orderable Item Matching Status
- Edit Orderable Items
- Dispense Drug/Orderable Item Maintenance
- Additive/Solutions, Orderable Item
- Orderable Item Report
- Drug Enter/Edit
- Lookup into Dispense Drug File
- Med Route/Instructions Table Maintenance
- Med. Route/Instruction File Add/Edit
- Medication Instruction File Add/Edit
- Standard Schedule Edit
- Electrolyte File (IV)
- EnterEdit Local Drug Interaction
- Edit Drug Interaction Severity
- Primary Drug Edit
- Edit IV Identifier
- CMOP Mark/Unmark (Single drug)
- Locked with PSXCMOPMGR

Outpatient Pharmacy

- Site Parameter Enter/Edit [PSO SITE PARAMETERS]
- Sets system parameter, ADMISSION CANCEL OF RXS, to discontinue med orders 72 hours after admission.
- Function call to determine if Outpatient Pharmacy orders can be renewed: S X=$$RENEW^PSORENW(ORIFN). Returned X=-1,1 or 0_"^"_reason (-1=invalid order, 1=renewable, 0=not renewable).

Maintenance (Outpatient Pharmacy) Menu

- Site Parameter Enter/Edit
- Edit Provider
- Add New Providers
- Queue Background Jobs
- Autocancel Rx's on Admission
- Bingo Board Manager
- Edit Data for a Patient in the Clozapine Program
- Enter/Edit Clinic Sort Groups
- Initialize Rx Cost Statistics
- Edit Pharmacy Intervention
- Delete Intervention
- Auto-delete from Suspense
- Delete a Prescription
- Expire Prescriptions
- Purge Drug Cost Data
- Purge External Batches
- Recompile AMIS Data

Inpatient Meds

Options

- Auto-Discontinue Set-Up (to auto-discontinue patients' orders whenever patients are transferred between wards, services, or to Authorized or Unauthorized Absence)
- Inpatient Ward Parameters Edit (to edit MAR Parameters)
- Site Parameters (IV)

Files

- Inpatient Meds uses the following fields from the Pharmacy System file (^PS(59.7)):
- NON-FORMULARY MESSAGE: This is a message that will be shown to non-pharmacists when they order patient drugs that are not currently stocked by the pharmacy. This is typically a warning and/or a procedure the non-pharmacist must follow before pharmacy will dispense the non-formulary drug.
- ALLOW THE CHANGE OF ORDER TYPES ON ORDERS FROM OERR: This field is a site parameter that will allow the pharmacist to change the type of order from what is received from CPRS. If this field is set to yes, it will be possible to change the order type on orders where the Orderable Item has data in the CORRESPONDING IV ITEM field for unit dose orders or data in the CORRESPONDING UD ITEM for IV orders.
- IV IDENTIFIER: This is a free text field that can be up to 30 characters. If the Orderable Item is marked for IV usage, this text will display next to the Orderable Item to distinguish a Unit dose from an IV drug.
- These fields can be accessed through the Systems Parameters Edit [PSJ SYS EDIT] option.

4. CPRS Configuration (IRM) [OR PARAM IRM MENU]

This menu is only available to those with Programmer access (holders of the XUPROG key).

Option	Menu Text	Description
OCX MAIN	Order Check Expert System Main Menu	These options are used for troubleshooting Order Checking and Notifications, for compiling the expert system rules, and for linking local terms with national terms for order checking.
ORMTIME MAIN	ORMTIME Main Menu	These options are intended for IRMS only, and are used in conjunction with the ORTASK routines.
ORE MGR	CPRS Clean-up Utilities	This menu contains a menu that contains utilities for checking consistency between lab files and OE/RR files.
XPAR MENU TOOLS	General Parameter Tools	This menu contains general purpose tools for managing parameters.

Order Check Expert System

Order Checking and Notifications both rely on a subset of CPRS called the Order Check Expert System. This includes a library of rules, elements, and a data dictionary, as well as facilities to maintain these data sets. Eventually the Expert System may be used for clinicians and others to create rules of their own by combining entities, elements, and rules.

How It Works

The Order Check Expert System is based on a set of Rules or Medical Logic Modules (MLM). The term Medical Logic Module, synonymous with rule or frame, is derived from the Arden Syntax, a standard for sharing MLMs and knowledge bases among decision support developers. The Order Check Expert System will support the Arden Syntax and will be able to share knowledge bases with other nonprofit entities.

At this point, the Expert System is mostly used as a compiler and as a tool for monitoring and debugging Order Checking and Notifications. The options on the Order Check Expert System Main Menu can be used to perform these functions.

Compiler

The compiler generates routines. The OCX post-install routine runs the compiler to generate an initial set of Order Checking routines. The post-install runs the compiler with default compiler options. One of the options is called Execution Trace. The default for this option is NO. When this option is set to YES, the compiler adds write statements to the compiled code that displays various aspects of the runtime environment. It displays information about the runtime datastream as well as the sequence of line labels as the compiled routine set executes. When this option is set to NO it does not add these additional statements. Adding this extra code makes the compiled routines bigger. However, since the compiler has a routine size limit (4k) imposed on it, it tends to make more routines instead. Thus, you may end up with more routines.

Order Check Expert System Main Menu

```
   1      Compile Rules [OCX RUN COMPILER]
   2      Expert System Rule Activate/Inactivate [OCX RULE ACTIVATE]
   3      Edit Site Local Terms [OCX LOCAL TERM EDIT]
   4      Expert System Inquire [OCX EXPERT SYSTEM INQUIRE]
```

After CPRS installation, each site must run this option to link terms used in the expert system to local terms. Some terms like DNR and NPO diet must be mapped to one or more entries in the orderable item file. Other terms like Serum Creatinine must be mapped to the lab test file.

Edit Site Local Terms Example

```
Select OPTION NAME: OCX MAIN       Order Check Expert System Main Menu

   1      Compile Rules
   2      Expert System Rule Activate/Inactivate
   3      Edit Site Local Terms
   4      Expert System Inquire

Select Order Check Expert System Main Menu Option: 3  Edit Site Local Terms

   Order Check National Terms
     SERUM CREATININE
     SERUM UREA NITROGEN
     DNR
     PROTHROMBIN TIME
     THROMBOPLASTIN TIME PARTIAL
     NPO
     SERUM SPECIMEN
     PARTIAL THROMBOPLASTIN TIME
     ANGIOGRAM (PERIPHERAL)
     WBC

      < Enter ?? to see the rest of the national terms on this list>

Select National Term: PROTHROMBIN TIME

National Term: PROTHROMBIN TIME

  Translated from file: 'LABORATORY TEST'  60

        PT     (467)

Select LABORATORY TEST NAME: PTT
        468. PTT
Select LABORATORY TEST name: <Enter>
```

Mail Message

```
Subj: Order Check Compiler Status  [#16691] 13 Jan 98 10:53  14 Lines
From: POSTMASTER (Sender: GREEN,JOANN)  in 'IN' basket.  Page 1  **NEW**
-------------------------------------------------------------------------------

  The Order Check routine compiler has completed normally
      on JAN 13,1998 at 10:53 by [15]  GREEN,JOANN.

       ORDER CHECK EXPERT version 1.0 (rev15) released DEC 15,1997 at 12:18

                   Elapsed time: 6 minutes 50 seconds
                                 Queued
           Execution Trace Mode:  ON
      Elapsed time Logging Mode:
          Raw Data Logging Mode:  ON  Keep data for 3 days then purge.
        Lines of code generated: 7835

Select MESSAGE Action: IGNORE (in IN basket)//
```

Expert System Inquire

This option lets you display the components that make up the rules that control order checking and notifications.

```
   1      Compile Rules
   2      Expert System Rule Activate/Inactivate
   3      Edit Site Local Terms
   4      Expert System Inquire

Select Order Check Expert System Main Menu Option: 4  Expert System Inquire

                  Expert System Display

        Rule      Display a Rule

        Element   Display an Element

        Field     Display a Data Field

Option List -> Element, Field, Rule

Choose an Option: R
Select ORDER CHECK RULE NAME: ?
 Answer with ORDER CHECK RULE NAME
 Do you want the entire 38-Entry ORDER CHECK RULE List? Y  (Yes)
Choose from:
   ABNORMAL LAB RESULTS
   ALLERGY - CONTRAST MEDIA REACTION
   AMINOGLYCOSIDE ORDER
   BIOCHEM ABNORMALITIES/CONTRAST MEDIA CHECK
   CLOZAPINE
   CONCURRENT LAB ORDERS FOR ANGIOGRAM, CATH - PERIPHERAL
   CONSULT/REQUEST CANCELED/HELD      ***INACTIVE
   CONSULT/REQUEST RESOLUTION      ***INACTIVE
   CREATININE CLEARANCE ESTIMATION
   CRITICAL HIGH LAB RESULTS
   CRITICAL LOW LAB RESULTS
   CT OR MRI PHYSICAL LIMIT CHECK
   FOOD/DRUG INTERACTION
   GLUCOPHAGE - CONTRAST MEDIA
   IMAGING REQUEST CANCELLED/HELD
   LAB ORDER CANCELLED
   LAB RESULTS
   NEW ORDER PLACED
   NPO DIET FOR MORE THAN 72 HOURS      ***INACTIVE
   ORDER FLAGGED FOR CLARIFICATION
   ORDER REQUIRES CHART SIGNATURE
   ORDER REQUIRES CO-SIGNATURE
   ORDER REQUIRES ELECTRONIC SIGNATURE
   ORDERABLE ITEM MESSAGE
   ORDERER FLAGGED RESULTS AVAILABLE
   PATIENT ADMISSION
   PATIENT DISCHARGE
   PATIENT TRANSFERRED FROM PSYCHIATRY TO ANOTHER UNIT
   POLYPHARMACY
   RECENT BARIUM STUDY
   RECENT CHOLECYSTOGRAM ORDER
   RENAL FUNCTIONS OVER AGE 65 CHECK
   SERVICE ORDER REQUIRES CHART SIGNATURE
   SITE FLAGGED ORDER
   SITE FLAGGED RESULT
```

Order Check Expert System, cont'd

```
 STAT ORDER PLACED
   STAT RESULTS AVAILABLE
   ZZ TEST RULE      ***INACTIVE

Select ORDER CHECK RULE NAME: L
     1   LAB ORDER CANCELLED
     2   LAB RESULTS
CHOOSE 1-2: 2
DEVICE: HOME// <Enter>  ALPHA

Rule: LAB RESULTS (ACTIVE Status)

Rule Element Label: HL7 LAB RESULTS
              Element: HL7 FINAL LAB RESULT

     Event-Element Name: HL7 FINAL LAB RESULT
               Data Context: GENERIC HL7 MESSAGE ARRAY
            Compiled Routine:
              Expression #3: IF  |CONTROL CODE| EQUALS ELEMENT IN SET'RE'
              Expression #4: IF  |FILLER| STARTS WITH 'LR'
              Expression #5: IF  |REQUEST STATUS (OBR)| EQ FREE TEXT'F'

          Data Field Name: CONTROL CODE
             Abbreviation:
             Data Context: GENERIC HL7 MESSAGE ARRAY

               Metadictionary Link: PATIENT.HL7_CONTROL_CODE
                         Attribute: HL7 CONTROL CODE
                         Data Type: FREE TEXT
                          OCXO VARIABLE NAME: OCXODATA("ORC",1)
                  OCXO UP-ARROW PIECE NUMBER: 1
                      OCXO DATA DRIVE SOURCE: HL7

          Data Field Name: FILLER
             Abbreviation: FILL
             Data Context: GENERIC HL7 MESSAGE ARRAY

               Metadictionary Link: PATIENT.HL7_FILLER
                         Attribute: HL7 FILLER
                         Data Type: FREE TEXT
                  OCXO UP-ARROW PIECE NUMBER: 2
                          OCXO VARIABLE NAME: OCXODATA("ORC",3)
                      OCXO DATA DRIVE SOURCE: HL7

          Data Field Name: REQUEST STATUS (OBR)
             Abbreviation:
             Data Context: GENERIC HL7 MESSAGE ARRAY

               Metadictionary Link: PATIENT.HL7_REQUEST_STATUS
                         Attribute: REQUEST STATUS
                         Data Type: FREE TEXT
                          OCXO VARIABLE NAME: OCXODATA("OBR",25)
                  OCXO UP-ARROW PIECE NUMBER: 1
                      OCXO DATA DRIVE SOURCE: HL7

Relation Expression: HL7 LAB RESULTS
            Notification: LAB RESULTS
   Notification Message: Lab results: |ORDERABLE ITEM NAME|

     Data Field Name: ORDERABLE ITEM NAME
        Abbreviation:
        Data Context: DATABASE LOOKUP
```

Order Check Expert System, cont'd

```
          Metadictionary Link: PATIENT.ORD_ITEM_NAME
                    Attribute: ORDERABLE ITEM
                    Data Type: FREE TEXT
             OCXO EXTERNAL FUNCTION CALL: ORDITEM(|ORDER NUMBER|)

 Press <enter> to continue... <Enter>

Expert System Display


        Rule      Display a Rule

        Element   Display an Element

        Field     Display a Data Field

Option List -> Element, Field, Rule

Choose an Option:
```

ORMTIME

ORMTIME is a background processor that is used in conjunction with the ORTASK routines to manage background jobs for order processing. They are intended for IRMS only.

ORMTIME is automatically scheduled once the Orders conversion is done. REQUEUE^ORMTIME is called from CLEANUP^OR3CONV1, which occurs when the conversion completes.

The following notifications/alerts are triggered via ORMTIME. If ORMTIME is not running/queued, they will not be sent.

- DNR Expiring
- Medications Expiring
- NPO Diet > 72 Hours
- Unverified Medication Order
- Unverified Order

ORMTIME Main Menu [ORMTIME MAIN]

This menu contains options that are used for managing ORMTIME.

Option	Name	Description
Reschedule Background Processor	ORMTIME REQUEUE BACKGROUND JOB	Use this option to Queue or Require ORMTIME. It is safe to run this option if ORMTIME is already queued. There is a check in the queuing code to see if the job is already queued and will not queue another if it finds one already there.
Get Background Job Status	ORMTIME BACKGROUND JOB STATUS	This option gives a status report of when ORMTIME last ran and also indicates when it is next scheduled to run. It also indicates when each of the seven ORMTIME failsafe jobs are supposed to run.
Kill all ORMTIME Driven Tasks	ORMTIME KILL ALL TASKS	This option is used to stop ORMTIME and all of its failsafe jobs. BE VERY CAREFUL WITH THIS OPTION. There are several Expert System purges that depend on ORMTIME and if ORMTIME is not running then the Expert System will eventually fill up the Volume Set it resides in.

CPRS Clean-up Utilities

This menu contains ORE LAB ORDER CHECKS, which has utilities for checking consistency between lab files and OE/RR files. These utilities can help you clean up some files as you move from OE/RR 2.5 to CPRS.

☞ **NOTE: The developers intend to add other options to this menu for checking the consistency for other packages.**

```
Select CPRS Manager Menu Option: IR  CPRS Configuration (IRM)

   OC     Order Check Expert System Main Menu ...
   UT     CPRS Clean-up Utilities ...

Select CPRS Configuration (IRM) Option: UT  CPRS Clean-up Utilities

   LA     Lab Order Checks ...


Select CPRS Clean-up Utilities Option: LA  Lab Order Checks


   1      Check Lab orders from file 69 to 100
             **> Out of order:  UNDER CONSTRUCTION
   2      Check Lab orders from file 100 to 69


Select Lab Order Checks Option: 2  Check Lab orders from file 100 to 69
This utility will look for inconsistencies between OE/RR 3.0 and Lab files.
It will compare records in the Orders file (100) with the Lab Order file (69).

Problems identified                                  Resolution
-------------------                                  ----------
^OR(100,IFN,0) does not exist                        ^OR(100,IFN) killed
Bad pointers on child orders                         Pointers removed
Child orders with no parent order                    Pointer removed
Child order missing parent pointer                   Pointer restored
Incorrect status on parent order                     Status corrected
Old veiled orders                                    Purged
Unrecognized pointer to file 69                      Order cancelled
Unconverted orders from OE/RR 2.5                    Order lapsed
Invalid pointer to file 69                           Order cancelled
Incorrect status on uncollected specimens            Status updated
Incorrect status on completed orders                 Status updated
Missing reference to file 69                         Cancelled (optional)
Old pending, active & unreleased orders              Status changed

Any problems will be displayed.  Continue? No// Y  (Yes)
Check for CPRS orders that no longer exist in the Lab Order file? No// Y  (Yes)
Do you want to remove old PENDING, ACTIVE and UNRELEASED orders? No// ?

Unreleased orders are removed from the system.
Old pending orders are changed to a Lapsed status, which will
remove them from the current orders context.
```

CPRS Clean-up Utilities, cont'd

```
Active orders that no longer have corresponding entries in the lab files
are changed to Lapsed
Do you want to remove old PENDING, ACTIVE and UNRELEASED orders? No// Y  (Yes)
Remove old orders with Start dates before: T-30// <Enter> (AUG 29, 1998)
Do you want me to correct the inconsistencies now? No// Y  (Yes)p
2.2=>GLUCOSE BLOOD S<2961022.115121>6<Didn't get converted, NOT IN 69
5.2=>DIGOXIN BLOOD S<2961022.131419>6<Didn't get converted, NOT IN 69
12.2=>DIGOXIN BLOOD S<2961029.154314>6<Didn't get converted, NOT IN 69
23.2=>PT  {Profile} B<2961031.164613>6<Didn't get converted, NOT IN 69
24.2=>COAGULATION (PT<2961031.164613>6<Didn't get converted, NOT IN 69
32.2=>COAGULATION (PT<2961101.095846>6<Didn't get converted, NOT IN 69
34.2=>SMAC (CHEM 20) <2961101.101734>6<Didn't get converted, NOT IN 69
37.2=>COAGULATION (PT<2961101.101814>6<Didn't get converted, NOT IN 69
89.1=>CHOLESTEROL BLO<2941129.154843>6<Didn't get converted, NOT IN 69
90.1=>GLUCOSE BLOOD S<2941129.154843>6<Didn't get converted, NOT IN 69
91.1=>HDL BLOOD SERUM<2941129.154843>6<Didn't get converted, NOT IN 69
96.1=>CHOLESTEROL BLO<2941129.155258>6<Didn't get converted, NOT IN 69
97.1=>GLUCOSE BLOOD S<2941129.155258>6<Didn't get converted, NOT IN 69
101.1=>TRANSFUSION REQ<2950120.120443>6<Status should be Complete
102.1=>TRANSFUSION REQ<2950120.125307>6<Status should be Complete
178=>OCCULT BLOOD (S<2911120.0936>5<Status should be Complete
277=>CHOLESTEROL BLO<2911120.154>5<Status should be Complete
278=>GLUCOSE BLOOD S<2911120.154>5<Status should be Complete
281=>GLUCOSE BLOOD S<2911121.1127>5<Status should be Complete
304=>TRANSFUSION REQ<2931217.1327>5<Status should be Complete
306=>Consult to PULM><No package defined
307=>Consult to PULM><No package defined
308=>Consult to PULM><No package defined
309=>Consult to PULM><No package defined
310=>Consult to PULM><No package defined
311=>Consult to PULM><No package defined
394=>CHEM 7 BLOOD SE<2980317.142517>6<Status should be Complete
409=>CO2 BLOOD SERUM<2980317.142527>6<Status should be Complete
445=>TRANSFUSION REQ<2980317.144511>6<Status should be Complete
472=>CO2 BLOOD SERUM<2980611.120016>6<Status should be Complete
560=>GLUCOSE BLOOD S<2980616.142934>6<Status should be Complete

Total inconsistencies: 221
Old Pending orders total: 185
Old Unreleased orders total: 5
Unconverted 2.5 orders total: 13
Status should be complete: 12

   1      Check Lab orders from file 69 to 100
             **> Out of order:  UNDER CONSTRUCTION
   2      Check Lab orders from file 100 to 69

Select Lab Order Checks Option:
```

General Parameter Tools

Options on this menu let you display or edit the "values" for selected parameters, entities, packages, and templates. The Parameter File (8989.1) has four fields:

- **Entity** is the person, place, or thing for which the parameter is being defined.
- **Parameter** is the definition of this particular parameter.
- **Instance** is for multi-division or integrated sites.
- **Value** is what you define or set for this parameter.

Name	Text	Definition
XPAR LIST BY PARAM	List Values for a Selected Parameter	This option prompts for a parameter (defined in the PARAMETER DEFINITION file) and lists all value instances for that parameter.
XPAR LIST BY ENTITY	List Values for a Selected Entity	This option prompts for the entry of an entity (location, user, etc.) and lists all value instances for that entity.
XPAR LIST BY PACKAGE	List Values for a Selected Package	This option prompts for a package and lists all parameter values for the selected package.
XPAR LIST BY TEMPLATE	List Values for a Selected Template	This option prompts for a parameter template. Depending on the definition of the template, additional information may be prompted for and then the parameter values defined by the template are displayed.
XPAR EDIT PARAMETER	Edit Parameter Values	The option calls the low level parameter editor, which allows you to edit the values for every parameter. Normally packages supply other means of editing parameters.
XPAR EDIT BY TEMPLATE	Edit Parameter Values with Template	This option prompts for a Parameter Template and then uses the selected template to edit parameter values.

List Values for a Selected Parameter

```
Select CPRS Configuration (IRM) Option: XX  General Parameter Tools

   LV     List Values for a Selected Parameter
   LE     List Values for a Selected Entity
   LP     List Values for a Selected Package
   LT     List Values for a Selected Template
   EP     Edit Parameter Values
   ET     Edit Parameter Values with Template

Select General Parameter Tools Option: LV  List Values for a Selected Parameter
Select PARAMETER DEFINITION NAME:  ORPF SERVICE COPY FORMAT       Service Copy Format

Values for ORPF SERVICE COPY FORMAT

SYS: OEX.ISC-SLC.VA.GOV        PHARMACY             DOCTOR'S ORDERS
SYS: OEX.ISC-SLC.VA.GOV        LAB SERVICE          DOCTOR'S ORDERS
SYS: OEX.ISC-SLC.VA.GOV        RADIOLOGY/NUCLEAR ME DOCTOR'S ORDERS
SYS: OEX.ISC-SLC.VA.GOV        OUTPATIENT PHARMACY  DOCTOR'S ORDERS
SYS: OEX.ISC-SLC.VA.GOV        CONSULT/REQUEST TRAC CONSULTATION BODY
SYS: OEX.ISC-SLC.VA.GOV        CONSULT TRACKING     CONSULTATION BODY

Enter RETURN to continue or '^' to exit:
```

List Values for a Selected Template

List templates have been created for many parameters, to ensure a consistent format for displaying and editing parameters. You can view the default values or local settings for any of these templates through these options.

```
Select General Parameter Tools Option:  List Values for a Selected Template
Select PARAMETER TEMPLATE NAME: ?
 Answer with PARAMETER TEMPLATE NAME
 Do you want the entire 23-Entry PARAMETER TEMPLATE List? y  (Yes)
Choose from:
   LR DOMAIN                        Lab Domain Level Parameters
   LR LOC                           Lab Location Level Parameters
   LR PKG                           Lab Package Level Parameters
   ORP CHART COPY                   Chart Copy Definition
   ORP ORDER MISC                   Miscellaneous OE/RR Definition
   ORP PRINTS (HOSP)                Miscellaneous Hospital Prints
   ORP PRINTS (LOC)                 Print Definition (Loc)
   ORP REQUISITIONS/LABELS          Requisition/Label Definition
   ORP SERVICE COPY                 Service Copy Definition
   ORP SUMMARY REPORTS              Summary Report Definition
   ORP WORK COPY                    Work Copy Definition
   ORQQ SEARCH RANGE (DIVISION)     GUI Cover Sheet - Division
   ORQQ SEARCH RANGE (LOCATION)     GUI Cover Sheet - Location
   ORQQ SEARCH RANGE (SERVICE)      GUI Cover Sheet - Service
   ORQQ SEARCH RANGE (SYSTEM)       GUI Cover Sheet - System
   ORQQ SEARCH RANGE (USER)         GUI Cover Sheet - User
   XPAR TEST 2                      TEST 2
   XPAR TEST TEMPLATE               Parameter Tools Test Template
   ZZORQQ SEARCH RANGE (DIVISION)   GUI Cover Sheet - Division
   ZZORQQ SEARCH RANGE (LOCATION)   GUI Cover Sheet - Location
   ZZORQQ SEARCH RANGE (SERVICE)    GUI Cover Sheet - Service
   ZZORQQ SEARCH RANGE (SYSTEM)     GUI Cover Sheet - System
   ZZTEST                           GUI Cover Sheet Display Parm U

Select PARAMETER TEMPLATE NAME: ORP ORDER MISC       Miscellaneous OE/RR Definition

Miscellaneous OE/RR Definition for System: OEX.ISC-SLC.VA.GOV
-------------------------------------------------------------------
Active Orders Context Hours                      24
Auto Unflag                                      YES
Confirm Provider                                 YES (Exclude ORES)
Default Provider                                 YES
Error Days                                       2
Grace Days before Purge                          30
Restrict Requestor                               YES (ORELSE & OREMAS)
Review on Patient Movement                       YES
Show Status Description                          YES
Signed on Chart Default                          NO
-------------------------------------------------------------------
Enter RETURN to continue or '^' to exit:
```

5. Other CPRS Configuration

List Manager Terminal Set-Up

Check the List Manager Attributes file. You may need to update the Terminal Type file for the VT100's; If the “Insert Line” field is empty, this will cause List Manager to revert back to scroll mode

List Manager uses 11 video attributes, which are in the Terminal Type file. These are listed (along with recommended values) in the Site Preparation section of the List Manager Developer’s Guide.

Attribute	Value for a VT series terminal
Form Feed	#,$C(27,91,50,74, 27,91,72)
XY CRT	W $C(27,91)_((DY+1))_$C(59)_((DX+1))_$C(72)
Erase to End of Page	$C(27,91,74)
Insert Line	$C(27),”[L”
Underline On	$C(27,91,52,109)
Underline Off	$C(27,91,109)
High Intensity	$C(27,91,49,109)
Normal Intensity	$C(27,91,109)
Save Cursor Pos	$C(27,55)
Restore Cursor Pos	$C(27,56)
Set Top/Bottom Marg	$C(27,91)_(+IOTM)_$C(59)_(+IOBM)_$C(114)

Nature of Order File

This file determines the actions that are to be taken based on the nature of an order or change to an order.

☞ **NOTE: This file shouldn't be added to or deleted from.**

The file is initially populated with data that seems the most appropriate. If sites find it necessary to change some of the fields for the entries in this file, they may do so. We recommend that you review the entries after CPRS is installed, and make changes to match local practice.

Nature of Order File, cont'd

These fields include:

Field #	Field Name	Description
100.02,.03	NON-INTERACTIVE	This field identifies this entry for interactive or non-interactive use.
100.02,.04	INACTIVE	This field is used to inactivate a nature of order.
100.02,.05	FRONT/BACKDOOR	This field is used to identify entries that are used during an OE/RR dialog (frontdoor), and entries that are used by ancillary services (backdoor).
100.02,.06	DC ONLY	Enter YES if this entry is only used for DC actions.
100.02,.11	CREATE ACTION	Enter YES if an order action should be created and signed, or NO to simply update the status of this order
100.02,.12	PRINT CHART COPY	This field determines if this entry/action should generate a Chart copy.
100.02,.13	PRINT DAILY SUMMARY	This field determines if this entry/action should appear on the Daily Order Summary.
100.02,.14	DEFAULT SIGNATURE STATUS	'0' FOR ON CHART w/written orders; '1' FOR ELECTRONIC; '2' FOR NOT SIGNED; '3' FOR NOT REQUIRED; '4' FOR ON CHART w/printed orders; '5' FOR NOT REQUIRED due to cancel; '6' FOR SERVICE CORRECTION to signed order; This is the signature status that will be assigned to an order having this nature; if a signature is not applicable, this field should be null.
100.02,.15	PRINT WORK COPY	This field determines if this entry/action should generate a Work Copy.

Tasked Jobs

Schedule the following tasks, as appropriate for your site:

```
1   ORTASK 24HR CHART COPIES  Task 24hr Chart Copy Print by Location  run routine
2   ORTASK 24HR SUMMARY     Task 24hr Order Summary by Location  run routine
3   ORTASK NICHT E          Nightly clean-up      run routine
4   ORTASK PURGE          Old Orders Batch Purge      run routine
```

More information is included in the Archiving/Purging section of this manual on the last two tasks.

Example

```
Select Driven Management Option: schedule/Unschedule Options

Select OPTION to schedule or reschedule: ortask 24HR CHART COPIES          Task  24hr
Chart Copy Print by Location      run routine
         ...OK? Yes// <Enter>   (Yes)
      (R)
Edit Option Schedule
    Option Name: ORTASK 24HR CHART COPIES
    Menu Text: Task 24hr Chart Copy Print by Lo          TASK ID: 385010
  ____________________________________________________________________

  QUEUED TO RUN AT WHAT TIME: OCT 18,1997@00:05

DEVICE FOR QUEUED JOB OUTPUT: WORK;P-DOC132;132;64

 QUEUED TO RUN ON VOLUME SET:

      RESCHEDULING FREQUENCY: 1D

             TASK PARAMETERS:

            SPECIAL QUEUEING:

_____________________________________________________________________________



COMMAND:                                        Press <PF1>H for help    Insert
```

Exported Routines

```
OR        ; slc/dcm - OE/RR
OR1       ; slc/dcm - OE/RR
OR2549PC  ;SLC/MLI - Clean-up package names/namespaces ; 3/28/95@1340
OR3C100   ; SLC/MKB - Orders file conversion for CPRS/OE3 ;8/8/97  15:27
OR3C100A  ; SLC/MKB - Orders file conversion cont ;8/8/97  15:28
OR3C101   ; SLC/MKB - Cleanup unused protocols ;8/20/97  08:30
OR3CONV   ;SLC/MLI-OE/RR v3 conversion entry points ;8/2/97
OR3CONV1  ;SLC/MLI-Conversion utilities and cleanup ;8/2/97 [5/25/99 9:33am]
OR3POST   ;SLC/MLI - Post-install for CPRS install ; 8/2/97
ORB       ; slc/CLA - Main routine for OE/RR notifications ;7/18/91  14:34
ORB3      ; slc/CLA - Main routine for OE/RR 3 notifications ;6/6/01  10:46
ORB31     ; slc/CLA - Routine to support OE/RR 3 notifications ;6/28/00  12:00 [
 04/02/97  11:12 AM ]
ORB3C0    ; slc/CLA - Routine to stub in notifications for parameter conversion
to CPRS ;3/23/97  21:22
ORB3C1    ; slc/CLA - Routine to pre-convert OE/RR 2.5 to OE/RR 3 notifications
;7/3/96  15:16 [ 04/03/97  1:41 PM ]
ORB3C2    ; slc/CLA - Routine to post-convert OE/RR 2.5 to OE/RR 3 notifications
 ;12/2/97  9:52 [ 04/03/97  1:41 PM ]
ORB3ENV   ; slc/CLA - OE/RR 3 Notifications/Order Check Environment Check Routin
e ;9/19/01  14:29
ORB3F1    ; slc/CLA - Extrinsic functions to support OE/RR 3 notifications ;5/8/
95  15:16
ORB3FN    ; slc/CLA - Functions which return OE/RR Notification information ;12/
15/97
ORB3FUP1  ; slc/CLA - Routine to support notification follow-up actions ;7/15/95
  17:23
ORB3FUP2  ; slc/CLA - Routine to support notification follow-up actions ;6/28/00
  12:00
ORB3MGR1  ; SLC/AEB - Manager Options - Notifications Parameters ;9/22/97
ORB3MGR2  ; SLC/AEB - Utilities for Manager Options - Notifications Parameters ;
4/23/96  16:53
ORB3REC   ; SLC/AEB - Notification Management Options for Recipients/Users ;4/30
/01  09:52
ORB3REG   ; slc/CLA - Support routine for ORB3 ;6/28/00  12:00 [ 04/02/97  2:16
PM ]
ORB3SPEC  ; slc/CLA - Support routine for ORB3 ;4/4/02  14:40
ORB3TIM1  ; slc/CLA - Routine to trigger time-related notifications ;6/28/00 12:
00 [ 04/02/97  11:12 AM ]
ORB3TIM2  ; slc/CLA - Routine to trigger time-related notifications ;3/30/01  07
:41
ORB3TIZ1  ; slc/CLA - Routine to trigger time-related notifications ;4/19/02  15
:56
ORB3U1    ; slc/CLA - Utilities which support OE/RR 3 Notifications ;12/15/97
ORB3U2    ; slc/CLA - OE/RR 3 Notifications Utilities routine two ;5/19/97  11:0
7 [ 04/02/97  2:09 PM ]
ORB3USER  ; slc/CLA - Alert recipient algorithms for OE/RR 3 notifications; 1/19
/00 14:45
ORB3X74   ; slc/CLA - Patch OR*3*74 Pre-INIT cleans up notification parameters ;
12/6/99
ORBCMA1   ; SLC/JLI - Pharmacy Calls for Windows Dialog [ 2/11/02 4:30PM ]
ORBCMA2   ; API for BCMA
ORBCMA32  ; SLC/JLI - Pharmacy Calls for GUI Dialog 1/17/02
ORBCMA5   ; SLC/JDL - BCMA Order utility ;2/18/02  13:37
ORBSTAT   ; slc/CLA - OE/RR Notifications stats ;10/6/95  09:25
ORBU      ; slc/CLA - Mgmt utilities for OE/RR notifications ;8/22/91  18:34
ORBUTL    ; slc/CLA - Modified for K8.0 by JLI/ISC-SF.SEA - Utilities for OE/RR
notifications ;10/24/94  10:41
ORBX31    ; SLC/CLA - Export Package Level Parameters ; Sep 30, 1998@11:03:28
ORBX3101  ; SLC/CLA - Data for Pkg Level Parameters; Sep 30, 1998@11:03:28
ORCACT    ; SLC/MKB - Act on orders ;4/2/02  16:41
ORCACT0   ;SLC/MKB-Validate order action ;02:46 PM  26 Jan 2001
```

```
ORCACT01         ;SLC/MKB-Validate order actions cont ;3/12/02  13:14
ORCACT02         ;SLC/MKB-Validation dose conversion for POE
ORCACT1   ;SLC/MKB-Act on orders cont ;7/29/97  08:26
ORCACT2   ;SLC/MKB-DC orders ; 08 May 2002  2:12 PM
ORCACT3   ;SLC/MKB-Delayed Orders ; 08 May 2002  2:12 PM
ORCACT4   ;SLC/MKB-Act on orders cont ; 08 May 2002  2:12 PM
ORCB      ;SLC/MKB-Notifications followup for LMgr chart ;4/5/01  21:32
ORCD      ; SLC/MKB - Order Dialog utilities ; 08 May 2002  2:12 PM
ORCDADT   ;SLC/MKB-Utility functions for ADT dialogs ;7/9/02  09:04
ORCDFH    ;SLC/MKB-Utility functions for FH dialogs ; 08 May 2002  2:12 PM
ORCDFH1   ;SLC/MKB,DKM - Utility functions for FH dialogs cont ;8/24/01  10:22
ORCDFHTF  ; SLC/MKB - Utility functions for FH Tubefeeding dialog ; 08 May 2002
 2:12 PM
ORCDGMRA  ;SLC/MKB-Utility functions for GMRA dialogs ;4/25/01  16:20
ORCDGMRC  ;SLC/MKB-Utility functions for GMRC dialogs ;6/7/01  07:34
ORCDLG    ;SLC/MKB-Order dialogs ; 08 May 2002  2:12 PM
ORCDLG1   ; SLC/MKB - Order dialogs cont ;11/21/01  08:03
ORCDLG2   ;SLC/MKB-Order dialogs cont ;9/7/01  14:24
ORCDLGH   ; SLC/MKB - Help for Order Dialogs ;4/7/97  10:00
ORCDLR    ;SLC/MKB-Utility functions for LR dialogs ;6/11/97  11:47
ORCDLR1   ;SLC/MKB,JFR - Utility fcns for LR dialogs cont ; 08 May 2002  2:12 PM
ORCDPS    ;SLC/MKB-Pharmacy dialog utilities ;02:36 PM  2 Apr 2001
ORCDPS1   ;SLC/MKB-Pharmacy dialog utilities ; 08 May 2002  2:12 PM
ORCDPS2   ;SLC/MKB-Pharmacy dialog utilities ;07:24 AM  5 Apr 2001 [12/31/01 6:3
7pm]
ORCDPS3   ;SLC/MKB-Pharmacy dialog utilities ;09:14 AM  5 Apr 2001
ORCDPSIV  ;SLC/MKB-Pharmacy IV dialog utilities ;6/30/97  11:01
ORCDRA    ; SLC/MKB - Utility functions for RA dialogs ;7/23/01  11:47
ORCDRA1   ;SLC/MKB-Utility functions for RA dialogs ; 08 May 2002  2:12 PM
ORCENV    ;SLC/MLI - Environment check routine ; 18 March 97
ORCFLAG   ; SLC/MKB - Flag orders ;6/2/97  10:44
ORCHANG1  ; SLC/KCM,MKB - Navigate Display Groups ;9/19/95  15:27 [10/2/00 2:51p
m]
ORCHANG2  ;SLC/MKB-Change View status ; 08 May 2002  2:12 PM
ORCHANG3         ;SLC/MKB - Change view by event ; 08 May 2002  2:12 PM
ORCHANGE  ;SLC/MKB-Change View utilities ; 08 May 2002  2:12 PM
ORCHART   ;SLC/MKB-OE/RR ; 08 May 2002  2:12 PM
ORCHECK   ;SLC/MKB-Order checking calls ; 08 May 2002  2:12 PM
ORCHTAB   ;SLC/MKB-Build Chart tab listings ;05:58 PM  23 Aug 2000
ORCHTAB1  ;SLC/MKB-Build Chart-tabs cont ;6/14/02  12:49
ORCHTAB2  ;SLC/MKB-Add item to tab listing cont ;6/4/98  11:17
ORCHTAB3  ;SLC/MKB,dcm-Add item to tab listing ; 08 May 2002  2:12 PM
ORCHTAB4  ;SLC/MKB,dcm-Add item to tab listing ;4/17/97  11:08
ORCHTAB5  ;SLC/dcm - Add item to tab listing ;4/17/97  11:08
ORCHTRE1  ; SLC/JER - Expand/collapse LM views ;14-NOV-2000 16:34:18
ORCHTRE2  ; SLC/JER - Expand/collapse LM views ;14-NOV-2000 09:46:35
ORCHTREE  ; SLC/JER - Expand/collapse LM views ;14-NOV-2000 17:00:28
ORCIDACT  ; SLC/JER - ID Note actions ;27-NOV-2000 13:54:06
ORCK101   ;SLC/JFR - OR 49 CHECK UTILITIES ;7/27/98
ORCMED    ;SLC/MKB-Medication actions ;4/2/02  16:45
ORCMED1   ;SLC/MKB-Medication actions ;03:03 PM  22 Aug 2000
ORCMEDIT  ;SLC/MKB-Menu Editor ;4/19/01  11:27
ORCMEDT0  ;SLC/MKB-Dialog Utilities ;9/7/01  14:19
ORCMEDT1  ;SLC/MKB-QO,Set editor ;11/6/01  13:33
ORCMEDT2  ;SLC/MKB-Menu Editor cont ;9/4/01  14:38
ORCMEDT3  ;SLC/MKB-Dialog editor ;6/28/01  14:21
ORCMEDT4  ;SLC/MKB-Prompt Editor ;6/19/01  15:05
ORCMEDT5  ;SLC/MKB-Misc menu utilities ;03:29 PM  12 Feb 1999
ORCMENU   ;SLC/MKB-Add Orders menus ; 08 May 2002  2:12 PM
ORCMENU1  ;SLC/MKB-Add Orders cont ;2/7/97  15:41
ORCMENU2  ;SLC/MKB-Review New Orders ;4/5/01  21:32
ORCNOTE   ; SLC/MKB - Progress Note actions ;25-JAN-2001 16:18:00
ORCONSLT  ;SLC/MKB-Consult actions ;6/7/01  07:28
ORCONV0   ; SLC/MKB - Convert protocols/menus to Dialogs cont ;9/15/97  15:41
ORCONV1   ; SLC/MKB - Convert protocols/menus to Dialogs cont ;6/10/97  10:37
ORCONV2   ; SLC/MKB - Convert protocols/menus to Dialogs cont ;6/10/97  10:40
ORCONV3   ; SLC/MKB - Convert diet orders, UD Order Sets ;6/20/97  11:24
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ORCONVRT  ; SLC/MKB - Convert protocols/menus to Dialogs ;9/15/97  15:38
ORCPOST   ; slc/dcm,MKB - CPRS post-init ;10/25/97  16:13
ORCPRE    ; SLC/MKB - CPRS pre-init ;3/26/97  13:41
ORCPROB   ; SLC/MKB - Problem List interface ;12/9/97  10:44
ORCSAVE   ;SLC/MKB-Save [ 08/09/96  11:28 PM ] ; 08 May 2002  2:12 PM
ORCSAVE1  ; SLC/MKB - Save Order Text ;7/21/97  15:47
ORCSAVE2  ;SLC/MKB-Utilities to update an order ;04:19 PM  11 Jan 2001
ORCSEND   ;SLC/MKB-Release orders ; 08 May 2002  2:12 PM
ORCSEND1  ;SLC/MKB-Release cont ;3/21/02  14:19
ORCSIGN   ;SLC/MKB-Sign/Release orders ;10/29/01  11:44
ORCXPND   ; SLC/MKB - Expanded Display ;6/3/97  11:04
ORCXPND1  ; SLC/MKB - Expanded Display cont ;11:58 AM  13 Mar 2001
ORCXPND2  ; SLC/MKB - Expanded display cont ; 08 May 2002  2:12 PM
ORCXPND3  ; SLC/MKB,dcm - Expanded display of Reports ;2/21/01  14:08
ORCXPND4  ; SLC/MKB,MA - Expanded Display cont ;9/10/99  13:16
ORCXPNDR  ; SLC/MKB,dcm - Expanded display of Reports ;2/12/97  13:48
ORD1      ; DRIVER FOR COMPILED XREFS FOR FILE #101 ; 11/02/98
ORD11     ; COMPILED XREF FOR FILE #101 ; 11/02/98
ORD110    ; COMPILED XREF FOR FILE #101.021 ; 11/02/98
ORD111    ; COMPILED XREF FOR FILE #101.03 ; 11/02/98
ORD112    ; COMPILED XREF FOR FILE #101.07 ; 11/02/98
ORD12     ; COMPILED XREF FOR FILE #101.01 ; 11/02/98
ORD13     ; COMPILED XREF FOR FILE #101.02 ; 11/02/98
ORD14     ; COMPILED XREF FOR FILE #101.021 ; 11/02/98
ORD15     ; COMPILED XREF FOR FILE #101.03 ; 11/02/98
ORD16     ; COMPILED XREF FOR FILE #101.07 ; 11/02/98
ORD17     ; COMPILED XREF FOR FILE #101 ; 11/02/98
ORD18     ; COMPILED XREF FOR FILE #101.01 ; 11/02/98
ORD19     ; COMPILED XREF FOR FILE #101.02 ; 11/02/98
ORD2      ; DRIVER FOR COMPILED XREFS FOR FILE #100 ; 06/12/02
ORD21     ; COMPILED XREF FOR FILE #100 ; 06/12/02
ORD210    ; COMPILED XREF FOR FILE #100.008 ; 06/12/02
ORD211    ; COMPILED XREF FOR FILE #100.045 ; 06/12/02
ORD212    ; COMPILED XREF FOR FILE #100.09 ; 06/12/02
ORD213    ; COMPILED XREF FOR FILE #100.09 ; 07/29/00
ORD214    ; COMPILED XREF FOR FILE #100.0084 ; 07/29/00
ORD22     ; COMPILED XREF FOR FILE #100.001 ; 06/12/02
ORD23     ; COMPILED XREF FOR FILE #100.002 ; 06/12/02
ORD24     ; COMPILED XREF FOR FILE #100.008 ; 06/12/02
ORD25     ; COMPILED XREF FOR FILE #100.045 ; 06/12/02
ORD26     ; COMPILED XREF FOR FILE #100.09 ; 06/12/02
ORD27     ; COMPILED XREF FOR FILE #100 ; 06/12/02
ORD28     ; COMPILED XREF FOR FILE #100.001 ; 06/12/02
ORD29     ; COMPILED XREF FOR FILE #100.002 ; 06/12/02
ORDD1     ; slc/dcm - Calls from OE/RR DD ;8/20/92  12:13 ;
ORDD100   ; slc/dcm - DD entries for file 100 ;3/12/97  10:00
ORDD100A  ;slc/dcm-DD entries for file 100 ;3/12/02  10:30
ORDD101   ; slc/KCM - Build menus in XUTL (file 101) ;8/23/00  09:30
ORDD41    ;slc/KCM,MKB-Build menus in XUTL (file 101.41) ;12/22/00  09:55
ORDD43    ; SLC/MKB - Build xrefs for file 101.43 ;7/2/97  10:52
ORDIALOG  ; SLC/KCM/JDL - Utilites for Order Actions;05:33 AM  20 May 1998;2/23/
98  16:18 [12/31/01 6:36pm];Jan 19 2002
ORDV01    ; slc/dcm - OE/RR Report Extracts ;8/31/01  10:24
ORDV02    ; slc/dcm - OE/RR Report Extracts ; 11 Jul 2001  7:44 AM
ORDV03    ; slc/dcm - OE/RR Report Extracts ;8/2/01  08:12
ORDV04    ;slc/dan - OE/RR ; 11 Jul 2001  7:44 AM
ORDV04A   ;SLC/DAN - OE/RR ;7/30/01  14:33
ORDV05    ; slc/jdl - OE/RR Report Extracts ; 11 Jul 2001  7:44 AM
ORDV05E   ; slc/jdl - Microbiology Extract Routine ;6/13/01  11:49
ORDV05T   ;;slc/jdl- Interim report rpc memo micro ;6/20/2001  18:52 [7/2/01 7:2
8am]
ORDV05X   ; slc/jdl - Microbiology Extended Extracts ;6/13/2001  11:59AM
ORDV06    ; slc/dkm - OE/RR Report Extracts ; 11 Jul 2001  7:44 AM
ORDV07    ;SLC/DAN - OE/RR Report extracts ; 11 Jul 2001  7:44 AM
ORDV08    ;DAN/SLC Testing new component ;8/22/01  11:30
ORDV08A   ; slc/dan Medicine procedure component ;8/13/01  14:42
ORDV09    ;DAN/SLC Testing new component ;9/6/01  09:20
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ORDVU     ; slc/dcm - OE/RR Report Extracts ; 08 May 2001  13:32PM
ORECS01   ;SLC/JDL-CPRS utility for Event Capture System; 5/21/02 10:00AM ;6/14/
02  13:04
ORELR     ; slc/dcm - Lab Enforcer
ORELR1    ; slc/dcm - Cross check/update file 100 with file 69
ORELR2    ; slc/dcm - Cross check file 100 with file 69 ;2/21/96  13:30 ;
ORELR3    ; slc/dcm - Cross check file 100 with file 69 ;2/21/96  13:30 ;
ORELR5    ; slc/dcm - Check 69 against 100 ;
OREOR0    ; slc/dcm - Check things ;7/23/97  12:49
ORERR     ; RJS/SLC-ISC - Order Entry Error Logger ;8/21/98  13:45
OREV      ;SLC/DAN Event delayed orders set up ;6/26/02  14:47
OREV0E    ;
OREV1     ;DAN/SLC Event delayed orders set up continued ;7/9/02  09:33
OREV2     ;SLC/DAN Event delayed orders set up ;7/3/02  11:10
OREVNT    ; SLC/MKB - Event delayed orders ; 25 Apr 2002 10:07 PM
OREVNT1   ;SLC/MKB - Release delayed orders ; 08 May 2002  2:12 PM
OREVNTX   ; SLC/MKB - Event delayed orders RPC's ; 08 May 2002  2:12 PM
OREVNTX1  ; SLC/JLI - Event delayed orders RPC's ;6/14/02  12:51
ORGUEM    ; slc/KCM - Set Up Formatted Protocol Menus ;5/28/92 14:41
ORGUEM1   ; slc/KCM - Build menu in seq #, name format ;2/5/92 17:16;
ORGUEM2   ; slc/KCM - Set Up Formatted Protocol Menus (cont) ;6/1/92  17:08
ORGUEM3   ; slc/KCM - Setup Formatted Protocol Menus (cont) ;7/13/92  15:40
ORKCHK    ; slc/CLA - Main routine called by OE/RR to initiate order checks ;7/2
4/96  17:55
ORKCHK2   ; slc/CLA - Order Checking support routine to do OCX-related order che
cks ;8/8/96 [ 04/02/97  1:08 PM ]
ORKCHK3   ; slc/CLA - Support routine called by ORKCHK to do DISPLAY mode order
checks ;3/6/97  9:35
ORKCHK4   ; slc/CLA - Support routine called by ORKCHK to do SELECT mode order c
hecks ;3/6/97  9:35
ORKCHK5   ; slc/CLA - Support routine called by ORKCHK to do ACCEPT mode order c
hecks ;3/6/97  9:35
ORKCHK6   ; slc/CLA - Support routine called by ORKCHK to do SESSION mode order
checks ;3/6/97  9:35
ORKLR     ; slc/CLA - Order checking support procedure for lab orders ;7/23/96
14:31
ORKLR2    ; slc/CLA - Order checking support proc for lab orders, part 2;2/13/97
  10:01
ORKMGR    ; SLC/AEB,CLA - Manager Options - Order Checking Parameters ;9/22/97
ORKOR     ; slc/CLA - Order checking support procedure for orders ;12/15/97 [ 04
/02/97  2:55 PM ]
ORKPMNT   ; SLC/STAFF CHECK CHANGES IN EDITABLE ORDER CHECKS ;9/19/01  14:12
ORKPS     ; slc/CLA - Order checking support procedures for medications ;12/15/9
7
ORKRA     ; slc/CLA - Order checking support procedure for Radiology ;12/15/97
ORKREC    ; SLC/AEB - Recipient Options - Order Checking Parameters Management ;
9/22/97
ORKUTL    ; slc/CLA - Utility routine for order checking ;5/21/97  16:25
ORKX32    ; slc/CLA - Export Package Level Parameters ; Dec 11, 1998@14:57:23
ORKX3201  ; slc/CLA - Package Level Parameter Data ; Dec 11, 1998@14:57:23
ORLA1     ; slc/dcm,cla - Order activity alerts ;11/7/95 10:00 [5/15/00 10:44am]
ORLA11    ; slc/MKB - Order activity alerts cont ;11/7/95 10:00
ORLP      ; SLC/CLA - Manager for Team List options ; [1/12/01 1:54pm]
ORLP0     ; SLC/DCM,CLA - Edit Patient Lists  ; 11/18/92 [11/21/00 10:36am]
ORLP00    ; slc/dcm,cla - Modify Patient Lists ;8/13/91  15:06 [11/8/00 4:58pm]
ORLP01    ; SLC/MKB,CLA - Edit Patient Lists cont  ;9/27/93  09:54 [3/15/00 2:51
pm]
ORLP1     ; SLC/DCM,CLA - Patient Lists, Store ; [1/3/01 1:37pm]
ORLP2     ; SLC/Staff - Remove Autolinks from Team List ; [1/2/01 11:43am]
ORLP3AC1  ; SLC/PKS - ADD and DELETE a patient to clinic Team List Autolinks.  [
6/27/00 10:08am]
ORLP3AUC  ; SLC/CLA -  Automatically load clinic patients into team lists ;9/11/
96 [12/28/99 2:45pm]
ORLP3AUT  ; slc/CLA -  Automatically load patients into team lists ;7/21/96 [6/1
8/99 11:04am]
ORLP3C1   ; slc/CLA - Utilities to convert OE/RR 2.5 lists ;12/15/97 [ 04/03/97
 10:50 AM ]
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ORLP3MGR  ; SLC/AEB - Manager Options - Patient List Defaults ;9/22/97 [4/25/00
3:25pm]
ORLP3U1   ; SLC/CLA - Utilities which support OE/RR 3 Team/Patient Lists ; [1/3/
01 1:38pm]
ORLP3U2   ; SLC/PKS - Team List routines. [3/27/00 4:01pm]
ORLP3USR  ; SLC/AEB,CLA -User Options - Pt. List Defaults ;9/22/97 [9/12/00 12:1
7pm]
ORLPAUT0  ; slc/CLA -  Automatically load patients into lists ;2/12/92 [7/14/99
3:06pm]
ORLPL     ; slc/CLA - Display/Edit Patient Lists; 8/8/91 [11/8/00 4:58pm]
ORLPR     ; slc/CLA - Report formatter for patient lists ;11/27/91 [7/20/00 10:3
3am]
ORLPR0    ; SLC/CLA - Report formatter for patient lists ;11/27/91 [11/8/00 4:43
pm]
ORLPTU    ; SLC/PKS  OE/RR - Terminated users, pointer removal. ; [3/13/00 1:04p
m]
ORLPURG   ; slc/dcm - Purge Patient Lists ;8/13/90  12:27
ORM       ; SLC/MKB - ORM msg router ;4/13/01  10:04
ORMBLD    ; SLC/MKB - Build outgoing ORM msgs ;11/24/00  13:09
ORMBLDAL  ;SLC/MKB,JFR-Build outgoing GMRA ORM msgs ;11/17/00  11:05
ORMBLDFH  ; SLC/MKB - Build outgoing Dietetics ORM msgs ;11/17/00  11:06
ORMBLDGM  ;SLC/MKB-Build outgoing GMR* ORM msgs ;11/17/00  11:07
ORMBLDLR  ; SLC/MKB - Build outgoing Lab ORM msgs ;11/17/00  11:10
ORMBLDOR  ; SLC/MKB - Build outgoing OR msgs ;11/17/00  11:11
ORMBLDPS  ;SLC/MKB-Build outgoing Pharmacy ORM msgs ;11:26 AM  2 Apr 2001
ORMBLDRA  ; SLC/MKB - Build outgoing Radiology ORM msgs ;11/17/00  11:14
ORMEVNT   ;SLC/MKB-Trigger HL7 msg off MAS events ; 25 Apr 2002 10:07 PM
ORMEVNT1  ;SLC/MKB-Trigger HL7 msg off OR events,ORMTIME ; 08 May 2002  2:12 PM
ORMFH     ; SLC/MKB - Process Dietetics ORM msgs ;02:49 PM  26 Jul 2000
ORMFN     ; SLC/MKB - MFN msg router ;04:29 PM  19 Dec 2000
ORMGMRA   ;SLC/JFR - ALLERGY ORDER UTILITIES ;11/19/98 11:25
ORMGMRC   ; SLC/MKB - Process Consult ORM msgs ;12:03 PM  26 Jul 2000
ORMLR     ; SLC/MKB - Process Lab ORM msgs ;11:59 AM  26 Jul 2000
ORMLR1    ; SLC/MKB - Process Lab ORM msgs cont ;3/20/97  08:22
ORMORG    ; SLC/MKB - Receive Generic Orders messages ; 08 May 2002  2:12 PM
ORMPS     ; SLC/MKB - Process Pharmacy ORM msgs ;3/8/02  13:05
ORMPS1    ;SLC/MKB - Process Pharmacy ORM msgs cont ;11:25 AM  2 Apr 2001
ORMPS2    ;SLC/MKB - Process Pharmacy ORM msgs cont;10:53 AM  16 May 2001 [9/28/
01 1:50pm]
ORMRA     ; SLC/MKB - Process Radiology ORM msgs ;2/21/02  15:44
ORMTIM01  ; RJS/SLC-ISC - PROCESS TIME BASED EVENT ;9/19/01  14:11
ORMTIME   ; SLC/RJS - PROCESS TIME BASED EVENT ;9/29/99  09:35 [2/1/00 9:30am]
ORMX40    ; SLC/PKS - Post-init Pkg Level Parameter Entry ; 5/01/99  13:00 [9/27
/99 11:36am]
ORMX4001  ; SLC/PKS - Post-init Pkg Parameter Subroutine ; 5/01/99  13:00 [9/27/
99 11:36am]
ORPFCNVT  ; SLC/AEB - Convert Order Parameter File (100.99) to Parameter Definit
ions(8989.51) ;3/17/97  12:17
ORPKG     ; SLC/KCM/JDL - Utilites for Order Actions;05:33 AM  20 May 1998;2/23/
98  16:18 [12/31/01 6:36pm];Jan 19 2002
ORPR00    ; slc/dcm - Prints Charming ;5/10/01  10:10
ORPR01    ; slc/dcm - Some day my prints will come ;12/8/00  13:54
ORPR010   ; slc/dcm - Silence of the prints
ORPR02    ; slc/dcm - Dances with Prints ;12/11/00  13:34
ORPR03    ; slc/dcm - While you were printing ;11/29/00  10:11
ORPR04    ; slc/dcm - Chart house ; 07 Dec 99  01:43PM
ORPR05    ; slc/dcm - When you are in the Service copies... ; 07 Dec 99  01:43PM
ORPR06    ; slc/dcm - Rent a Requisition ; 07 Dec 99  01:43PM
ORPR07    ; slc/dcm - Printless in Tuscaloosa ;6/10/97  15:36
ORPR07A   ; slc/dcm - WWW.PrintCodes.com
ORPR08    ; slc/dcm - Work Copies ; 07 Dec 99  01:43PM
ORPR09    ; slc/dcm - Getting Consults pre-formatted output ;12/21/98  12:16
ORPRPM    ;DAN/SLC Performance Measure; ;10/4/01  10:45
ORPRPM1   ;DAN/SLC Performance Measure Print; ;10/4/01  10:45
ORPRS01   ; slc/dcm - Hot'n Summary Report utilities ;12/4/00  11:24
ORPRS02   ; slc/dcm - Jurasic Prints ;11/18/96  20:20
ORPRS03   ; slc/dcm - (@) Formerly known as prints ;12/7/00  13:15
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ORPRS04   ; slc/dcm - Print Order summaries (SHRIVELED) ;11/28/00  15:39
ORPRS05   ; slc/dcm - Order summary headers, footers, inerds ;6/10/97  15:42
ORPRS06   ; slc/dcm - Driving Miss ChartCopy ;6/10/97  15:42
ORPRS07   ; slc/dcm - Managing multiple reportz ;6/10/97  15:43
ORPRS08   ; slc/dcm - Nightly Order Summary Task ;6/10/97  15:45
ORPRS09   ; slc/dcm - The prints_es_n_da_p ;6/10/97  15:33
ORPRS10   ; slc/dcm - Summary time, when the livin is easy... ;10/19/98  13:50
ORPRS11   ; slc/dcm - Alternate lifestyle for Summary Reports ;12/7/00  13:13
ORPRS12   ; slc/dcm - Interactive Chart Sum by loc, pat or chris ;6/10/97  15:50
ORPRS13   ; slc/dcm,JER - Health Summary Report & Driver (HSR&D) ;6/10/97  15:52
ORPRS14   ; slc/dcm,JER - Show me your vitals ;6/10/97  15:53
ORQ1      ;slc/dcm-Get orders for a patient. ; 08 May 2002  2:12 PM
ORQ10     ; slc/dcm - Test this utility
ORQ11     ;slc/dcm-Get patient orders in context ; 08 May 2002  2:12 PM
ORQ12     ; slc/dcm - Get patient orders in context ;10/24/00  10:49
ORQ13     ;slc/dcm-Get patient orders in context ; 08 May 2002  2:12 PM
ORQ2      ; SLC/MKB - Detailed Order Report ; 08 May 2002  2:12 PM
ORQ20     ; SLC/MKB - Detailed Order Report cont ;6/27/02  08:46
ORQOR1    ; slc/CLA - Functions which return order information ;12/15/97 [ 04/02
/97  3:01 PM ]
ORQOR2    ; slc/CLA - Extrinsic functions which return order information ;6/14/9
6  10:15 [ 04/02/97  1:35 PM ]
ORQORB    ; slc/CLA - Functions which return OE/RR Notification information ;12/
15/97
ORQPT     ; SLC/MKB - Patient Selection ;8/8/97  13:07 [6/5/01 12:12pm]
ORQPT1    ; SLC/MKB - Change Patient Selection List ;1/10/97  13:41 [6/5/01 12:1
2pm]
ORQPT2    ; HIRMFO/DAD-Patient Look-Up Security Check and Notification ;1/31/97
 07:57
ORQPTQ1   ; SLC/CLA - Functs which return OR patient lists and sources pt 1 ;12/
15/97 [ 04/02/97  3:32 PM ] [6/6/01 11:34am]
ORQPTQ11  ; SLC/CLA - Functs which return patient lists and sources pt 1B ;12/15
/97 [ 08/04/97  3:32 PM ] [3/25/02 9:44am]
ORQPTQ2   ; slc/CLA - Functions which return patient lists and list sources pt 2
 ;12/15/97 [ 04/02/97  3:41 PM ] [6/5/01 12:34pm]
ORQPTQ3   ; slc/CLA - Functions which return patient demographic data ;12/15/97
ORQPTQ4   ; slc/CLA - Extrinsic functions for patient information ;12/15/97
ORQPTQ5   ; SLC/PKS - Functions for Patient Selection Lists. [6/5/01 12:35pm]
ORQPTQ6   ; SLC/PKS [6/5/01 12:35pm]
ORQQAL    ; slc/CLA,JFR - Functions which return patient allergy data ;9/18/97 [
 04/02/97  3:43 PM ]
ORQQCN    ; slc/CLA/REV - Functions which return patient consult requests and re
sults ;08:19 AM 20 FEB 2001
ORQQCN1   ; slc/REV - Functions for GUI consult actions - RPCs for GMRCGUIA ; 8-
NOV-2000 14:49:16 [1/9/01 10:39am]
ORQQCN2   ; slc/REV - Functions for GUI consult actions ; 18 Dec 2001  09:02AM [
12/31/01 6:37pm]
ORQQCN3   ; slc/REV - RPCs for Consults/Medicine Resulting ;01:56 PM  12 May 200
0
ORQQLR    ; slc/CLA - Functions which return patient lab results ;12/15/97 [ 04/
02/97  3:46 PM ]
ORQQLR1   ; slc/CLA - Extrinsic functions and procedures which return patient la
b results ;7/23/96  12:47
ORQQPL    ; slc/CLA/REV - Functions which return patient problem list data ;12/1
5/97  [ 23-APR-1999 11:02:10 ]
ORQQPL1   ; ALB/PDR/REV - PROBLEM LIST FOR CPRS GUI ;03/12/02
ORQQPL2   ; ALB/PDR/REV - RPCs FOR CPRS GUI IMPLEMENTATION ;09:49 AM  29 Feb 200
0
ORQQPL3   ; ALB/PDR/REV ; Problem List RPC's ; 8-OCT-1998 09:08:49.29
ORQQPP    ; slc/CLA - Functions which return patient postings ;8/31/01  10:02
ORQQPS    ; slc/CLA - Functions which return patient medication data ;12/15/97 [
 04/02/97  3:52 PM ]
ORQQPX    ; SLC/JM - PCE and Reminder routines ;3/19/2001
ORQQPXRM  ; SLC/PJH - Functions for reminder data ;27/08/01
ORQQRA    ; slc/CLA - Functions which return patient radiology/nuclear med data
;12/15/97
ORQQVI    ; slc/CLA,STAFF - Functions which return vital and I/O data ;6/13/2000
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ORQQVI1   ;SLC/STAFF- Vitals rpc grid ;2/4/99  21:11
ORQQVI2   ;SLC/dee- RPC calls to GMRVPCE0, Vitals data event drivers ;2/2/98
ORQQVS    ; slc/CLA,STAFF - Functions which return patient visits ;8/19/98@13:36
:57
ORQQXQA   ; slc/CLA - Functions which return patient/user alert and mailman data
 ;5/27/98
ORQTL1    ; SLC/PKS - Functions returning Team List data. [1/9/01 4:05pm]
ORQTL2    ; SLC/PKS - Functions returning Team List data. [1/9/01 4:02pm]
ORRCAUTH  ; SLC/JER - Authentication calls for CM ;11-JUN-2002 08:20:30
ORRCCL    ; SLC/JER - Clinic/Pt lists for CM ; 4-JUN-2002 13:03:32
ORRCCLPT  ; SLC/JER - Clinic/Pt lists for CM ; 4-JUN-2002 13:16:47
ORRCERR   ; SLC/JER - ErrorTable ; 4-JUN-2002 13:25:03
ORRCLNP   ; SLC/JER - Person functions for CM ; 5-APR-2002 10:38:20
ORRCLPT   ; SLC/JER - Pt functions for CM ;16-APR-2002 13:46:56
ORRCLXM   ; SLC/JER - XML Library calls for CM ; 8-APR-2002 12:15:00
ORRCPR    ; SLC/JER - Provider/Pt lists for CM ; 4-JUN-2002 13:27:31
ORRCPRPT  ; SLC/JER - Provider/Pt lists for CM ; 4-JUN-2002 13:28:18
ORRCPRXY  ;SLC/JER-SharedBroker Proxy for VistALink ;12-JUN-2002 15:46:14
ORRCPT    ; SLC/JER - Pt lists for CM ; 4-JUN-2002 13:33:20
ORRCPTH   ; SLC/SRM - Pt lists for CM ;28-MAY-2002
ORRCRSEN  ;;    SLC/SRM - User Reports; 05/29/2002
ORRCRUS1  ;;    SLC/SRM - User Reports; 06/04/2002
ORRCRUS2  ;;    SLC/SRM - User Report Saves; 06/04/2002
ORRCRUSR  ;;SLC/SRM - User Reports; 05/20/2002
ORRCSL    ; SLC/JER - Specialty/Pt lists for CM ; 4-JUN-2002 13:41:51
ORRCSPPT  ; SLC/JER - Specialty/Pt lists for CM ; 4-JUN-2002 13:49:18
ORRCTL    ; SLC/JER - Team/Pt lists for CM ; 4-JUN-2002 13:49:55
ORRCTPT   ; SLC/JER - Team/Pt lists for CM ; 4-JUN-2002 13:51:08
ORRCTST   ; SLC/JER - Test calls ; 4-JUN-2002 14:36:05
ORRCTSTD  ;;    SLC/SRM - User Reports; 06/04/2002
ORRCU     ; SLC/JER - Utility Subroutines ; 5-APR-2002 12:39:51
ORRCVDTL  ; SLC/JER - Encounter Details for CM ; 4-JUN-2002 12:49:44
ORRCVSIT  ; SLC/JER - Encounter lists for CM ; 4-JUN-2002 12:51:10
ORRCWL    ; SLC/JER - Ward/Pt lists for CM ; 4-JUN-2002 13:57:40
ORRCWPT   ; SLC/JER - Ward/Pt lists for CM ; 4-JUN-2002 13:59:34
ORS100    ; SLC/RAF-unsigned orders search ;10/19/00  14:02
ORS100A   ;SLC/RAF - Continuation of ORS100 ;10/20/00  14:47
ORS100B   ;SLC/RAF - Continuation of ORS100A  ;10/19/00  13:36
ORSET98   ; slc/KCM - Set up display group file ;10/25/97  15:11
ORSETUP   ; SLC/MKB - OE3 Setup post-init ;7/26/97  15:51
ORSETUP1  ; SLC/MKB - OE3 Setup post-init cont ;2/5/97  11:28
ORSLTR    ; slc/RWF - Print Big Letters ;4/30/92  14:47 ;
ORSLTR2   ; slc/dcm - Setup letters ;7/29/91  10:33 ;
ORSNAST   ;SLC/RAF - Policy order search  ;10/20/00  14:10
ORSNAST1  ;SLC/RAF - continuation of nature/status search ;12/7/00  10:34
ORSNAST2  ;SLC/RAF - continuation of nature/status search ;10/20/00  14:32
ORTASK01  ; SLC/RJS - Look for orders to purge; [1/2/01 11:44am]
ORU       ; slc/dcm,JER - OE/RR Functions ;12/6/00  09:05
ORU1      ; slc/JER - More OE/RR Functions ;5/10/01  10:10
ORU2      ; slc/dcm - More OE/RR Utilities ;1/21/92  16:08
ORU4      ; slc/dcm - Silent utilities/functions ;12/7/00  13:10
ORUDPA    ; slc/dcm,RWF - Object (patient) lookup ;10/7/91  15:21 ;
ORUH      ; slc/JER - XECUTABLE HELP for format functions ;10/3/91  15:05
ORUHDR    ; slc/dcm - Order entry display headers ;3/25/92  15:05 ;
ORULG     ; SLC/KER/JVS - COLUMNAR GLOBAL LISTING BY PIECE ;; 08-19-92
ORUPREF1  ; slc/dcm - Key allocation ;12/11/91  08:12 [3/13/02 11:42am]
ORUS      ; slc/KCM - Display List of Items ;6/2/92  08:09
ORUS1     ; slc/KCM - Select Items from List ;3/24/92  08:56
ORUS2     ; slc/KCM - Process Selected Items ;11/7/90  18:21 ;
ORUS3     ; slc/KCM - Help for Display Lists ;11/7/90  16:57
ORUS4     ; slc/KCM - Select Items from List ;11/7/90  16:30 ;
ORUS5     ; slc/KCM - Display List of Items ;1/3/91  10:01 ;
ORUTL     ; slc/dcm,RWF - Order utilities; ;5/15/02  08:20
ORUTL1    ; slc/dcm - OE/RR Utilities ;6/7/91  08:47
ORVOM     ; slc/dcm - Generate ONITS- for OE/RR ;1/22/91  15:39
ORVOM0    ; slc/dcm - Gathers parts to send ;1/23/91  06:47 ;
ORVOM1    ; slc/dcm - Creates rtns for Protocol export ;1/23/91  07:13
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ORVOM11   ; slc/dcm - Creats RTN ending in ONIT1 ;1/22/91  15:53
ORVOM2    ; slc/dcm - Creates rtns ending in 'ONIT1' ;12/11/90  14:28
ORVOM3    ; slc/dcm - Creates rtn ending in 'ONIT2' ;1/23/91  07:15
ORVOM4    ; slc/dcm - Creates rtn ending in 'ONIT3' ;9/16/91  15:51 ;
ORVOM5    ; slc/dcm - ONIT creation ;1/14/91  09:55 ;
ORVOM6    ; slc/dcm - ONIT creation ;12/11/90  14:30 ;
ORVOMH    ; slc/dcm - Help for ORVOM ;12/11/90  14:30 ;
ORWCH     ; SLC/KCM/SCM - GUI calls specific to CPRS Chart;01:34 PM  15 Dec 1997
 [10:52 AM 13 JUN 2002]
ORWCIRN   ; slc/dcm,REV - Functions for GUI CIRN ACTIONS ;22-NOV-1999 07:27:24
ORWCOM    ;SLC/JM - Wraps RPCs for COM Objects Hooks ;8/02/2001
ORWCS     ; ALB/MJK - Consult Tab Calls ;9/18/96  15:02
ORWCSP    ; ALB/MJK - Background Consult Report Print Driver ;1/24/95  15:49
ORWCV     ; SLC/KCM - Background Cover Sheet Load;1/5/2001
ORWCV1    ; slc/dcm - CoverSheet calls continued ;12:30 PM  4 Oct 2000
ORWD      ; SLC/KCM - Utilities for Windows Dialogs ;7/2/01  13:31
ORWD1     ; SLC/KCM/REV - GUI Prints; 28-JAN-1999 12:51
ORWD2     ; SLC/KCM/REV - GUI Prints; 28-JAN-1999 12:51
ORWDAL32  ; SLC/REV - Allergy calls to support windows ;09:56 AM  1 Sep 2000
ORWDCN32  ; SLC/KCM/REV - Consults calls [ 12/16/97  12:47 PM ] ;14:50 PM 01 MAR
 2001
ORWDCSLT  ; SLC/KCM - Consults calls [ 08/04/96  7:36 PM ]
ORWDFH    ; SLC/KCM/JLI - Diet Order calls for Windows Dialogs ;12/12/00  14:44
ORWDGX    ; SLC/KCM - Generic Orders calls for Windows Dialogs [ 08/05/96  8:21
AM ]
ORWDLR    ; SLC/KCM - Lab Calls [ 08/04/96  8:47 PM ]
ORWDLR32  ; SLC/KCM/REV/JDL - Lab Calls 6/28/2002
ORWDLR33  ; SLC/KCM/REV/JDL - Lab Calls ; 7/1/2002 11AM
ORWDOR    ; SLC/KCM - Generic Orders calls for Windows Dialogs [ 08/05/96  8:21
AM ];03:50 PM  17 Jun 1998
ORWDPS    ; SLC/KCM - Pharmacy Calls for Windows Dialog [ 08/04/96  6:57 PM ]
ORWDPS1   ; SLC/KCM/JLI - Pharmacy Calls for Windows Dialog; 7/3/2002 3PM
ORWDPS2   ; SLC/KCM/JLI - Pharmacy Calls for Windows Dialog ;7/3/02 4:30PM
ORWDPS3   ; SLC/KCM/JLI - Order Dialogs, Menus; 4/10/02 11:00AM
ORX       ; slc/dcm - OE/RR old entry points ;12/26/96  09:49
ORX1      ; slc/dcm - OE/RR Nature of Order entry points ;12/26/96  09:49
ORX102    ; Export Package Level Parameters for patch OR*3*102 ; Apr 16, 2001@16
:00:40
ORX105    ; Export Package Level Parameters for patch OR*3*105 ; Apr 30, 2001@16
:00:40
ORX2      ; slc/dcm - OE/RR Patient lock entry points ;7/2/96  08:44
ORX3      ; slc/CLA - Support reference (DBIA #868) for notifications ;11/19/96
 10:50
ORX4      ; SLC/MKB - OE/RR Orders file extract utilities ;9/30/97  14:58
ORX74     ; slc/CLA - Export Package Level Parameters for patch OR*3*74 ; Dec 06
, 1999@15:15:23
ORX76     ; slc/CLA - Export Package Level Parameters for patch OR*3*76; Dec 20,
 1999@16:21:18
ORX8      ; slc/dcm,MKB - OE/RR Orders file extracts ; 08 May 2002  2:12 PM
ORX87     ; slc/CLA - Export Package Level Parameters for patch OR*3*87 ; Jun 05
, 2000@14:48:45
ORX88     ; slc/CLA - Export Package Level Parameters for patch OR*3*88 ; 6/28/0
0 12:00
ORXD      ;SLC/MKB-OE/RR Order Dialog entry points ;3/25/97  09:46
ORXP      ; SLC/KCM - Parameters File Calls
ORXPAR    ; Export Package Level Parameters ; Dec 17, 1997@11:35:35
ORXPAR01  ; ; Dec 17, 1997@11:35:35
ORXPAR02  ; ; Dec 17, 1997@11:35:35
ORXPAR03  ; ; Dec 17, 1997@11:35:35
ORXPAR04  ; ; Dec 17, 1997@11:35:35
ORXPAR05  ; ; Dec 17, 1997@11:35:35
ORXPAR06  ; ; Dec 17, 1997@11:35:35
ORXPAR07  ; ; Dec 17, 1997@11:35:35
ORXPAR08  ; ; Dec 17, 1997@11:35:35
ORXPAR09  ; ; Dec 17, 1997@11:35:35
ORXTABS   ; SLC/PKS - Edit tab parameters preferences.  [4/9/01 9:46am]
ORXTABS1  ; SLC/PKS - Edit tab parameters preferences.  [9/11/00 1:40pm]
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ORXTABS2  ; SLC/PKS - Edit calls, tab parameters preferences.  [10/2/00 3:53pm]
ORXTABS3  ; SLC/PKS - Edit calls, tab parameters preferences. [10/17/00 2:39pm]
ORXTABS4  ; SLC/PKS - Edit calls, tab parameters preferences. [9/28/00 3:05pm]
ORXTABS5  ;SLC/PKS - Edit calls, tab parameters preferences. [11/22/00 11:16am]
ORXU      ; SLC/MKB - Order Urgency utilities ;5/25/99  16:23
ORXURG    ; SLC/MKB - Order Urgency utilities ;9/23/99  14:33
ORY10     ; SLC/KCM - Patch 10 conversions ;03:16 PM  2 Sep 1998
ORY105    ; slc/CLA - Export Package Level Parameters for patch OR*3*105 ; Sep 0
5, 2001@11:20:54
ORY1050   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10501  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10502  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10503  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10504  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10505  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10506  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10507  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10508  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY10509  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY1050A  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY1050B  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY1050C  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY1051   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY1052   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY1053   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY1054   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY105ES  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*105) ;OCT 16,2001 at 15:39
ORY106    ;SLC/DAN - Postinit for patch OR*3*92 ;2/1/01  16:18
ORY107    ;DAN/SLC Clean up non-canonic dates ;4/18/01  13:14
ORY109    ; slc/dcm - Patch 109 Post/Pre-init ;06/19/01  16:09 [9/6/01 3:49pm]
ORY110    ;SLC/DAN--Clean up orderable items file ;1/4/02  13:57
ORY112    ; slc/CLA - Export Package Level Parameters for patch OR*3*112; Sep 05
, 2001@11:39:17
ORY115    ; slc/jvs - Patch 115 Post-init  ;9/6/01  13:52
ORY116    ;SLC/MKB -- postinit rtn for OR*3*116 ;9/27/01  16:39 [11/27/01 1:28pm
]
ORY117    ;SLC/MKB -- post-install for OR*3*117;02:56 PM  8 May 2001
ORY118    ;slc/dcm - Patch 118 Post/Pre-init ;08/27/01  10:09
ORY120    ;slc/dcm - Patch 120 Post/Pre-init ;08/27/01  10:09
ORY124    ;SLC/DAN--Find potentially erroneous complex orders ;10/25/01  14:36
ORY127    ; slc/CLA - Export Package Level Parameters and install Expert System
rule for OR*3*127 ; Jan 07, 2002@14:08:07
ORY1270   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY12701  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:00
ORY12702  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY12703  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
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l of OR*3*127) ;JUN 13,2002 at 15:01
ORY12704  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY12705  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY12706  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY12707  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY1271   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY1272   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY1273   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY1274   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY127ES  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*127) ;JUN 13,2002 at 15:01
ORY128    ; slc/CLA - Export Package Level Parameters and install Expert System
rule for OR*3*128 ; Dec 03, 2001@14:08:07
ORY1280   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY12801  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY12802  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY12803  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY12804  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY12805  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY12806  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY12807  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY1281   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY1282   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY1283   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY1284   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY128ES  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*128) ;JAN 3,2002 at 16:11
ORY129    ;SLC/MKB - Postinit for patch OR*3*129 ;12/11/01  11:04
ORY130    ; slc/CLA - Special routine to report mirrored and cyclical Kernel Ale
rt surrogates ;12/15/01  16:34
ORY132    ;SLC/REV -- postinit rtn for OR*3*132 ;12/13/01  06:25 [4/29/02 4:53pm
]
ORY133    ;SLC/MKB - Postinit for patch OR*3*133 ;1/18/02  12:20
ORY134    ;SLC/DAN ;3/28/02  12:35
ORY138    ;SLC/DAN ;3/14/02  15:31
ORY139    ; slc/CLA - Export Package Level Parameters ; Apr 08, 2002@16:33:25
ORY141    ;SLC/REV/JLI -- postinit rtn for OR*3*141 ;12/13/01  06:25 [5/21/02 2:
02pm]   6/7/02 1:33PM  [7/10/02 10:29am]
ORY141EC  ; SLC/JDL Event Capture Report ;6/14/02  13:06
ORY141ED  ; SLC/MKB - EDO inits for patch OR*3*141 ;4/26/02  11:42
ORY142    ; SLC/MKB - inits for ED pre-patch OR*3*142 ;7/3/02  13:57
ORY144    ; slc/CLA - Install Expert System changes for OR*3*144 ; Apr 15, 2002@
11:08:07
ORY1440   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY14401  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
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ORY14402  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY14403  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY14404  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY14405  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY14406  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY14407  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY1441   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY1442   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY1443   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY1444   ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY144ES  ;SLC/RJS,CLA - OCX PACKAGE RULE TRANSPORT ROUTINE (Delete after Instal
l of OR*3*144) ;JUN 12,2002 at 12:20
ORY145    ;SLC/DAN ;4/5/02  07:10
ORY147    ;slc/dcm - postinit for OR*3*147 ;5/17/02  12:17
ORY148    ;SLC/PKS -- postinit rtn for OR*3*148 ;12/13/01  06:25 [7/9/02 11:12am
]
ORY149    ;SLC/PKS -- postinit rtn for OR*3*149 ;12/13/01  06:25 [6/11/02 11:19a
m]
ORY24     ;SLC/MKB-Postinit for OR*3*24 ;4/16/98  16:18
ORY26     ;SLC/MKB-Postinit for patch OR*3*26
ORY27     ;SLC/MKB-Postinit for OR*3*27 ;5/11/98  08:28
ORY36     ;SLC/MKB-Postinit for patch OR*3*36 ;10/9/98  15:10
ORY38     ;SLC/MKB-Postinit for patch OR*3*38 ;11/20/98  09:24
ORY39     ;SLC/JFR - POST-INSTALL OR*3*39 11/24/98 13:15
ORY4      ;SLB/MKB-postinit for OR*3.0*4 ;4/30/98  15:52
ORY40     ; SLC/PKS Remove Parameter Entries ; [2/10/00 1:40pm]
ORY44     ; SLC/PKS-KR Remove Terminated Users ; [4/8/02 11:11am]
ORY44B    ; SLC/PKS-KR Remove Terminated Users (get DD info) ; [11/8/99 1:45pm]
ORY44C    ; SLC/PKS  OE/RR - Delete Personal lists for terminated users. ; [2/21
/00 1:02pm]
ORY45     ;SLC/MKB-Postinit for patch OR*3*45 ;2/22/99  15:17
ORY46     ;SLC/MKB-Preinit for patch OR*3*46;04:21 PM  12 Feb 1999
ORY48     ;SLC/MKB-Postinit for patch OR*3*48 ;7/9/99  14:22
ORY56     ; SLC/MKB - Postinit for patch OR*3*56 ;5/20/99  15:37
ORY57     ;SLC/MKB - Postinit for patch OR*3*57 ;6/2/99  15:35
ORY60     ; SLC/MKB - Postinit for patch OR*3*60 ;6/17/99  10:42
ORY61     ; SLC/MKB - Postinit for patch OR*3*61 ;7/16/99  15:31
ORY62     ; SLC/MKB - Postinit for patch OR*3*62 ;7/20/99  12:02
ORY7      ;SLB/MKB-postinit for OR*3.0*7 ;3/20/98  14:45
ORY71     ; SLC/MKB - Postinit for patch OR*3*71 ;11/4/99  08:36
ORY72     ; SLC/MKB - Postinit for patch OR*3*72 ;11/24/99  16:01
ORY73     ; SLC/MKB - Postinit for patch OR*3*73 ;3/13/00  09:03
ORY8      ;SLC/MKB -- post-install for OR*3*8 ;4/13/98  08:52
ORY85     ; slc/dcm - Patch 85 Post-init ;11/27/00  16:09 [6/15/01 12:38pm]
ORY86     ; SLC/MKB - Postinit for patch OR*3*86 ;5/9/00  14:06
ORY92     ;SLC/MKB - Postinit for patch OR*3*92 ;1/22/01  08:46
ORY92A    ;SLC/MKB - cleanup ptrs after V1
ORY93     ;SLC/MLI - Clean-up old fields in file 100.9 ; July 28, 2000@2:30pm
ORY94     ;SLC/MKB -- post-install for OR*3*94;02:56 PM  8 May 2001
ORY94A    ;SLC/MKB -- post-install for OR*3*94 cont;07:47 AM  7 Jun 2001
ORY94FC   ;SLC/DAN ;10/22/01  13:40
ORY95     ;SLC/DAN Post-Init for patch OR*3*95 ;9/18/01  13:38
ORY98     ; SLC/PKS Post-install for Patch OR*3*98; [12/28/00 9:58am]
ORY99     ; slc/dcm - Patch 99 Post-init ;12/25/00  16:09
ORYALG    ;SLC/JFR,MKB - postinit for OR*3*? ;9/1/99  11:04
ORYDGPM   ;SLC/MKB - Save DGPM Event data into ^XTMP
ORYDLG    ;SLC/MKB -- Postinit bulletin for order dialogs
```

```
ORYENV    ;SLC/MLI - Environment check routine ; 25 NOV 98
ORYHFS    ; ALB/MJK,dcm Report Calls ;9/18/96  15:02
ORYMKB    ;SLC/MKB -- init rtn for OR*3*### ;9/5/01  08:31
ORYMSG    ;SLC/MKB - cleanup for CPRS conversion ;2/11/98  12:32
ORYPKG    ;SLC/MKB-Fix Pkg ptrs for Honolulu ;11/19/98  15:01
ORYPTLK   ; SLC/KCM - Patient Lookup Calls (TEMPORARY -  for testing)
ORYPTLK1  ; SLC/KCM - Patient Lookup Calls, cont. (TEMPORARY -  for testing)
ORYRA     ;SLC/MKB-Postinit to cleanup orderables ;12/23/98  14:30
ORYSURG     ;SLC/REV-SURGERY POST-INIT ACTIONS ;4/2/01  10:18  ; Compiled May 31
, 2001 10:35:29
ORYX      ; Export Package Level Parameters ; Aug 20, 2001@15:48:24
ORYX01    ; ; Aug 20, 2001@15:48:24
ORWDPS32  ; SLC/KCM - Pharmacy Calls for GUI Dialog [ 08/04/96  6:57 PM ];02:03
PM  4 Sep 1998;2/2/98  23:53 ;1/22/01  11:39 [1/22/01 2:48pm]
ORWDPS4   ;; SLC/JDL - Order Dialogs CO-PAY;10:42 AM  6 Sep 1998 ;11/8/01  16:17
 [12/31/01 6:38pm]
ORWDPS5   ; SLC/JDL - BCMA Order utility ;12/12/01  13:37
ORWDRA    ; SLC/KCM - Radiology calls to support windows [ 08/03/96  6:42 PM ]
ORWDRA32  ; SLC/KCM/REV/JDL - Radiology calls to support windows [6/28/02]
ORWDVAL   ; SLC/KCM - Validate procedure
ORZFIX    ;alb/mli - fix x-refs in 100.21
ORZLAB    ;DAN/SLC Provide pending labs over a date range ;1/24/02  11:40
ORZPAR    ; ; 13-AUG-1999
ORZPOST   ;SLB/MLI - post-install for CPRS ;1/16/98  10:53
ORZPS     ;SLC/MKB-Test new Pharmacy dialog for patch 94 ;03:04 PM  22 Aug 2000
ORZTEAM   ; SLC/MLI - CPRS test site patch ; Oct 6, 1997
ORZTEAM1  ; slc/mli - team list conversion from PCMM back to OR ; 10/8/97
ORZTEAM2  ;SLC/MLI - team list fix for non-autolinked teams ; 28 Oct 97
ORZZCPRS  ;SLC/KCM - Test CPRS Components
ORZZTEST  ;SLC/KCM
```

Menus and Options

Options

```
OCX EXPERT SYSTEM INQUIRE          OCX FUNCT LIB REPORT BRIEF
OCX FUNCT LIB REPORT EXT CALLS     OCX LOCAL TERM EDIT
OCX MAIN                           OCX RULE ACTIVATE
OCX RUN COMPILER                   OR ADD MENU CLINICIAN
OR ADD MENU NURSE                  OR ADD MENU WARD CLERK
OR ADD ORDERS                      OR CPRS GUI CHART
OR MAIN MENU CLINICIAN             OR MAIN MENU NURSE
OR MAIN MENU WARD CLERK            OR OE/RR MENU CLINICIAN
OR OE/RR MENU NURSE                OR OE/RR MENU WARD CLERK
OR PARAM ADD MENU                  OR PARAM CHART COPY
OR PARAM COORDINATOR MENU          OR PARAM IRM MENU
OR PARAM ORDER MISC                OR PARAM PRINTS
OR PARAM PRINTS (HOSP)             OR PARAM PRINTS (LOC)
OR PARAM REQ/LABEL                 OR PARAM SERVICE COPY
OR PARAM SUMMARY REPORTS           OR PARAM WORK COPY
OR PROFILES                        OR RESULTS REPORTING
OR REVIEW ORDERS                   ORB NOT COORD MENU
ORB NOT MENU                       ORB NOT MGR MENU
ORB3 ALERT RECIPIENTS              ORB3 ARCHIVE PERIOD
ORB3 DEFAULT RECIPIENT DEVICES     ORB3 DEFAULT RECIPIENTS
ORB3 DELETE MECHANISM              ORB3 DETERMINE RECIPIENTS
ORB3 ERASE NOTIFICATIONS           ORB3 FLAG ORDERABLE ITEMS
ORB3 FLAGGED ORDERS BULLETIN       ORB3 FORWARD SUPERVISOR
ORB3 FORWARD SURROGATES            ORB3 PROCESSING FLAG
ORB3 PROVIDER RECIPIENTS           ORB3 REC ERASE NOTIFICATIONS
ORB3 REC FLG ORDERS BULLETIN       ORB3 REC PROCESSING FLAG
ORB3 REC RECIP NOTIFICATIONS       ORB3 REC SORT METHOD
ORB3 RECIP NOTIFICATIONS           ORB3 SORT METHOD
                                   ORB3 SYSTEM ENABLE/DISABLE
ORB3 URGENCY                       ORC DELAYED ORDERS
ORCL KEY ALLOCATION                ORCL MENU
ORCL ORDER REASON                  ORCL PRINT FORMAT
ORCM MENU                          ORCM MGMT
ORCM ORDER SETS                    ORCM ORDERABLES
ORCM ORDERS                        ORCM PROMPTS
ORCM PROTOCOLS                     ORCM QUICK ORDERS
ORDERS MENU                        ORE KEY CHECK
ORE LAB ORDER CHECKS               ORE LAB ORDERS CHECK 100=>69
ORE LAB ORDERS CHECK 69=>100       ORE MGR
ORK CLINICAL DANGER LEVEL          ORK CT LIMIT HT
ORK CT LIMIT WT                    ORK DEBUG ENABLE/DISABLE
ORK DUP ORDER RANGE LAB            ORK DUP ORDER RANGE OI
ORK DUP ORDER RANGE RADIOLOGY      ORK MRI LIMIT HT
ORK MRI LIMIT WT                   ORK ORDER CHK MGMT MENU
ORK ORDER CHK RECIP MENU           ORK PROCESSING FLAG
ORK REC PROCESSING FLAG            ORK REC RECIP ORDER CHECKS
ORK RECIP ORDER CHECKS             ORK SYSTEM ENABLE/DISABLE
ORLP ADD CLINIC                    ORLP ADD LIST
ORLP ADD MENU                      ORLP ADD ONE
ORLP ADD PROVIDER                  ORLP ADD SPECIALTY
ORLP ADD WARD                      ORLP CLEAR
ORLP DELETE                        ORLP DELETE PATIENT
ORLP EXAMINE/PRINT                 ORLP LIST
ORLP LOAD                          ORLP MENU
ORLP MERGE                         ORLP PATIENT LIST MGMT
```

Options, cont'd

```
ORLP TEAM ADD                       ORLP TEAM DELETE
ORLP TEAM DELETE AUTOLINKS          ORLP TEAM DELETE PATIENTS
ORLP TEAM DELETE USERS              ORLP TEAM MENU
ORLP3M DEFAULT CLINIC FRIDAY        ORLP3M DEFAULT CLINIC MONDAY
ORLP3M DEFAULT CLINIC SATURDAY      ORLP3M DEFAULT CLINIC START DT
ORLP3M DEFAULT CLINIC STOP DT       ORLP3M DEFAULT CLINIC SUNDAY
ORLP3M DEFAULT CLINIC THURSDAY      ORLP3M DEFAULT CLINIC TUESDAY
ORLP3M DEFAULT CLINIC WEDNESDA      ORLP3M DEFAULT LIST ORDER
ORLP3M DEFAULT LIST SOURCE          ORLP3M DEFAULT MGR MENU
ORLP3M DEFAULT PROVIDER             ORLP3M DEFAULT SPECIALTY
ORLP3M DEFAULT TEAM                 ORLP3M DEFAULT WARD
ORLP3M DISPLAY LIST SOURCE          ORLP3M USER PTS VIA TEAMS
ORLP3M USER TEAMS                   ORLP3U DEFAULT CLINIC FRIDAY
ORLP3U DEFAULT CLINIC MONDAY        ORLP3U DEFAULT CLINIC SATURDAY
ORLP3U DEFAULT CLINIC START DT      ORLP3U DEFAULT CLINIC STOP DT
ORLP3U DEFAULT CLINIC SUNDAY        ORLP3U DEFAULT CLINIC THURSDAY
ORLP3U DEFAULT CLINIC TUESDAY       ORLP3U DEFAULT CLINIC WED
ORLP3U DEFAULT LIST ORDER           ORLP3U DEFAULT LIST SOURCE
ORLP3U DEFAULT PROVIDER             ORLP3U DEFAULT SPECIALTY
ORLP3U DEFAULT TEAM                 ORLP3U DEFAULT USER MENU
ORLP3U DEFAULT WARD                 ORLP3U DISPLAY LIST SOURCE
ORLP3U USER PTS VIA TEAMS           ORLP3U USER TEAMS
ORMGR                               ORPO MENU
ORQ SEARCH RANGE A USER PARAM       ORQ SEARCH RANGE DIVISION PAR
ORQ SEARCH RANGE LOCATION PAR       ORQ SEARCH RANGE MGR MENU
ORQ SEARCH RANGE SERVICE PARAM      ORQ SEARCH RANGE SYSTEM PARAM
ORQ SEARCH RANGE USER PARAM         ORS HEALTH SUMMARY
ORTASK 24HR CHART COPIES            ORTASK 24HR SUMMARY
ORTASK NICHT E                      ORTASK PURGE
ORW HEALTH SUMMARY TYPES            ORW PARAM GUI
ORW TOOL MENU ITEMS
```

Menu Assignment

CPRS Manager Menu [ORMGR MENU]

```
CL  Clinician Menu ...
NM  Nurse Menu ...
WC  Ward Clerk Menu ...
PE  CPRS Configuration Menu (Clin Coord)
IR  CPRS Configuration Menu (IRM)
```

We recommend that you assign menus as follows:

Menu Text	Option Name	Assignment
CPRS Manager Menu	ORMGR MENU	IRMS specialists assigned to CPRS
Clinician Menu	OR MAIN MENU CLINICIAN	Clinicians (physicians, psychologists, social workers, nurse practitioners, PAs, etc.)
Nurse Menu	OR MAIN MENU NURSE	Nurses
Ward Clerk Menu	OR MAIN MENU WARD CLERK	Ward Clerks, MAS personnel
CPRS Configuration Menu (Clin Coord)	ORCL MENU	Clinical Coordinators, ADPACS,
CPRS Configuration Menu (IRM)	ORE MGR	IRMS CPRS specialist (locked with XUPROG key)

CPRS Configuration Menu (Clin Coord) [OR PARAM COORDINATOR MENU]

Menu Text	Option Name	Description
Auto-DC Parameters	OR PARAM AUTODC	This option is for editing hospital-wide parameters that control how CPRS will automatically discontinue orders on patient movements.
Allocate OE/RR Security Keys	ORCL KEY ALLOCATION	This option lets Clinical Coordinators allocate security keys to CPRS clinicians, nurses, ward clerks, or CPRS Read-Only users.
Check for Multiple Keys	OR PARAM SYSTEM	This menu, for IRMS and coordinators, lets you set various parameters, including order checking and notification parameters. It also lets you allocate security keys.
Edit DC Reasons	ORCL ORDER REASON	This option allows access to the Order Reason file to enter or edit reasons for discontinuing an order.
GUI Parameters…	ORW PARAM GUI	Configuration parameters for the CPRS GUI
Miscellaneous Parameters	OR PARAM ORDER MISC	This option is for editing miscellaneous hospital wide CPRS parameters, such as active orders time range, grace days before purge, whether to automatically unflag orders, confirm providers, review on patient movement, etc.
Notification Mgmt Menu	ORB NOT COORD MENU	This menu is used by clinical coordinators and IRM staff to turn notifications on or off for a provider. It prompts the coordinator for the user, then calls other notification mgmt options. It also contains options that can purge existing notifications.
Order Checking Management	ORK ORDER CHK MGMT MENU	Options on this menu allow IRMS to set order checking parameters for each of the possible entities: System, Division, Service, Location, Team, Class, or User, as applicable.
Order Menu Management …	ORCM MGMT	Options on this menu let you enter or edit orderable items, prompts, generic orders, quick

Menu Text	Option Name	Description
		orders, order sets, and order menus. It also lets you convert protocols.
Patient List Mgmt Menu..	ORLP PATIENT LIST MGMT MENU	This menu allows coordinators and IRMS to create and manage personal and patient team lists and to set default patient list parameters.
Print Formats	ORCL PRINT FORMAT	This option allows the user to define formats for printing labels and requisitions for orders.
Print/Report Parameters	OR PARAM PRINTS	This menu is for editing print parameters. It should be available to the clinical coordinator and IRM Staff.
Release/Cancel Delayed Orders	ORC DELAYED ORDERS	This option allows clinical coordinators to release or cancel orders that have been put on delay, but then weren't ever released for some reason.
Unsigned Orders Search	OR UNSIGNED ORDERS	This option provides the user with three choices to search for unsigned orders. Each search criteria will allow a choice of six sort parameters, a start date, an ending date, the option to print only the summary orders, and to select an output device.
Set Unsigned Orders View on Exit	OR PARAM UNSIGNED ORDERS VIEW	This option may be used to set the default view of unsigned orders that ORES key holders will see when exiting a patient's chart. Possible views are only those orders entered during the current session, all of the current user's unsigned orders, or all unsigned orders for the patient.
Search Orders by Nature or Status	OR NATURE/STATUS ORDER SEARCH	This option provides the user with a way to review orders by either the nature of the order or the status of the order. These options are generally used for quality assurance purposes to monitor ordering trends but may also be useful in meeting JCAHO requests
Event Delayed Orders Menu	OR DELAYED ORDERS	This option allows you to set up release events for event-delayed orders and also allows you to configure the auto-discontinue feature for orders.

Unsigned Orders Search

This option provides the user with three choices to search for unsigned orders. Each search criteria will allow a choice of six sort parameters, a starting date, an ending date, the option to print only the orders summary, and an output device.

Search Criteria Option

- **Released/Unsigned:** These are orders that have been released to the service but remain unsigned by the requesting clinician. Only released but unsigned orders will be found using this search option.
- **Unsigned:** These are orders that have not been signed by the requesting clinician, regardless of whether they have been released or not. This option will include all orders displayed in options 1 and 3.
- **Unsigned/Unreleased:** These are orders that have not been released to the service and remain unsigned by the requesting clinician. Only unreleased and unsigned orders will be found using this search option.

Sort Criteria

- **Service/Section**: This sort will allow the user to find unsigned orders for all service/sections, a single service/section, or multiple selected service/sections.
- **Provider**: This sort will allow the user to find unsigned orders associated with all providers, a single provider, or multiple selected providers.
- **Patient**: This sort will allow the user to find unsigned orders for all patients, a single patient, or multiple selected patients.
- **Location:** This sort will allow the user to find unsigned orders associated with all locations, a single location, or multiple selected locations.
- **Entered By**: This sort will allow the user to find unsigned orders entered by all entering persons, a single entering person, or multiple selected entering persons.
- **Division**: This sort will allow the user to find unsigned orders for all divisions, a single division, or multiple selected divisions.

Unsigned Orders Search, cont'd

Other Criteria

- **Starting Date**: Enter the most recent date you would like the search to begin with. For example, if your site has a 48 hours grace period for signing orders, you can ignore those orders placed and left unsigned within the last 48 hours by entering a T-2 or a date/time. Entries in this field follow FileMan conventions.
- **Ending Date**: Enter the oldest date you would like the search to consider. For example, when running this option for the first time, you may want to use the date/time of the installation of CPRS onto your system in order to avoid listing left over orders from the previous version, OERR 2.5. Entries in this field follow FileMan conventions.
- **Print Summary Only**: Enter YES at this prompt to print only the final summary report statistics of the orders count.
- **Device**: The output of this option is formatted for 132-column and will be much easier to read if sent to a device capable of handling 132 or greater columns.

Example of Unsigned Orders Search

```
Select CPRS Configuration (Clin Coord) Option:  US  Unsigned orders search


                              Unsigned Orders Search
               This report is formatted for a 132 column output.

     Select one of the following:

          1         Released/Unsigned
          2        Unsigned
          3        Unsigned/Unreleased


Enter the type of orders to search: 2  Unsigned

     Select one of the following:

          1         Service/Section
          2         Provider
          3         Patient
          4         Location
          5         Entered By
          6         Division

Enter the sort criteria: 2  Provider
Would you like a specific Provider? NO//
Enter a starting date: T  (NOV 21, 2000)
Enter an ending date: T-30  (OCT 22, 2000)
Print summary only ? NO//
DEVICE: HOME// ;132;999  ANYWHERE
```

Unsigned Orders Search, cont'd

The resulting reports would appear similar to the following examples.

```
Report Date: Nov 21, 2000@10:43:05  Sort Range From: Nov 21, 2000   To: Oct 22, 2000

                           List of UNSIGNED orders by PROVIDER

PROVIDER        ENTERED BY    PATIENT      SSN     STATUS       ORDER #   ORDER DATE
-------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------
DOCTOR,DAN      DOCTOR,DAN    JONES,BOB    1990   UNRELEASED     7095978  Nov 20, 2000
DOCTOR,BOB      DOCTOR,BOB    SMITH,SAM    1462   ACTIVE         7095976  Nov 17, 2000
DOCTOR,RUTH     DOCTOR,RUTH   SMITH,BILL   8322   DELAYED        7095935  Nov 06, 2000
DOCTOR,RUTH     DOCTOR,RUTH   SMITH,BILL   8322   DELAYED        7095936  Nov 06, 2000
DOCTOR,RUTH     DOCTOR,RUTH   SMITH,BILL   8322   DELAYED        7095937  Nov 06, 2000
DOCTOR,KEVIN    NURSE,NANCY   JONES,JIM    8832   ACTIVE         7095974  Nov 17, 2000
```

The following is an example of the data included on the report that is generated when you select "Print Summary Only."

```
Report Date: Nov 21, 2000@10:52:02  Sort Range From: Nov 21, 2000   To: Oct 22, 2000

                         Order Statistics for Provider sort

Provider            Patient                  # of Orders
-------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------
DOCTOR,DAN          JONES,BOB                    1
                                           SUBTOTAL: 1
DOCTOR,BOB          SMITH,SAM                    1
                                           SUBTOTAL: 1
DOCTOR,RUTH         SMITH,BILL                   3
                                           SUBTOTAL: 3
DOCTOR,KEVIN        JONES,JIM                    1
                                           SUBTOTAL: 1
                                           ------------
                                   TOTAL: 6
```

Search Orders by Nature or Status

This option provides the user with a way to review orders by either the nature of order or the status. These options are generally used for quality assurance purposes to monitor ordering trends but may also be useful in meeting JCAHO requests.

Search Criteria

- **Nature of Order**: This search criterion will enable the user to select one of the entries from the NATURE OF ORDER file. This will allow a report of orders based on a specific nature such as POLICY.
- **Order Status**: This search criterion will enable the user to select one of the order statuses from the ORDER STATUS file. This will allow a report of orders based on a specific status such as DISCONTINUED/EDIT.

Other Search Criteria

- **Starting Date**: Enter the date that you wish to mark the beginning of the search period. This date needs to be earlier than the ending date. Enter an ^ to exit the option. Entries in this field follow Fileman conventions.
- **Ending Date**: Enter the date that you wish to use to mark the end of the search period. This date needs to be more recent than the start date. Enter an ^ to exit the option. Entries in this field follow Fileman conventions.

Search Orders by Nature or Status, cont'd

Output Format

The user has the choice of two output formats: detailed format or columnar format.

Detailed format will provide information from the following fields:

- **Order Status**: This field will display the status of the order.
- **Order Action**: This field will display the action to be taken on the order. Type a question mark to view a list of possible entries.
- **ORIFN**: This is the internal entry number of the order from File 100. This number is equivalent to the ORDER # in the detailed display while in CPRS. When you use Fileman to edit an order in File 100, type a reverse apostrophe (`) before the number to jump directly to the order.
- **Object of Order**: This is the patient's name
- **SSN**: This will display the last four of the patient's Social Security number.
- **Ordered By**: This will display the name of the user who originated the order.
- **Veiled**: Orders placed prior to OERR 3.0 may have this field set to YES which hides the order from the end users. You must use Fileman to set this field to NO in order gain access to it thru CPRS.
- **Entered By**: This will display the name of the user who entered the order.
- **Released By**: This will display the name of the user who released the order.
- **Signed By**: This will display the name of the user who signed the order.
- **Order Text**: This will display the text of the order.

Columnar format produces an output similar to the unsigned orders format only with the following headings:

- Provider
- Patient
- SSN
- Status
- Order #
- Order Date
- Signed

Search Orders by Nature or Status, cont'd

Additional Search Choices

- **Output by Service**: Entering a YES at this prompt will allow the user to sort the output by service section for all service sections, a single service, or multiple selected services.
- **Specific Service/Section**: Entering a NO at this prompt will, by default, select all services. Entering a YES at this prompt will allow the user to enter a single service or a combination of services
- **Device:** When using the columnar format, it is best viewed using a device capable of displaying a 132-column format. The detailed display will work well with an 80-column display.

Example of Searching for Orders by Nature or Status

```
Select CPRS Configuration (Clin Coord) Option: NA  Search Orders by Nature or Status



                   Nature of Order or Order Status Search.
                This report is formatted for 132 column output.

     Select one of the following:

          1         Nature of order
          2         Order Status

Enter the search criteria: 2  Order Status
Select Order Status: DISCONTINUED/EDIT       dce
Enter a starting date: T-30  (OCT 28, 2000)
Enter a ending date: T  (NOV 27, 2000)

     Select one of the following:
          1         Detailed format
          2         Columnar format

Select output format: 2  Columnar format
Would you like to sort the output by service? NO// YES
Would you like to search for specific SERVICE/SECTIONS? NO//
DEVICE: HOME// ;132;999  ANYWHERE
```

Search Orders by Nature or Status, cont'd

The resulting report would appear similar to the following example.

```
Report Date: Nov 27, 2000@11:50:19
Sort Range From: Oct 28, 2000@23:59 TO: Nov 27, 2000@00:01
Search for orders with a status of DISCONTINUED/EDIT
Provider        Patient     SSN   Status          Order #  Order Date          Signed
-------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------
Service/Section: OTHER

   Entered by: MIMS,PHARMACIST

NABER,DAVID A   TEST,JAMIE  3333  DISCONTINUED/E  7095898  Nov 02, 2000@13:18


  Entered by: NABER,DAVID A

NABER,DAVID A   SIMPSON,BART 4423 DISCONTINUED/E  7095944  Oct 23, 2000@15:12  Oct 23, 2000@15:15
NABER,DAVID A   TEST,JAMIE   3333 DISCONTINUED/E  7095858  Oct 30, 2000@09:28  Oct 30, 2000@09:29
NABER,DAVID A   TEST,JAMIE   3333 DISCONTINUED/E  7095290  Nov 02, 2000@13:02  Nov 02, 2000@13:05
NABER,DAVID A   TEST,JAMIE   3333 DISCONTINUED/E  7095098  Nov 02, 2000@13:30  Nov 02, 2000@13:33
NABER,DAVID A   TEST,JAMIE   3333 DISCONTINUED/E  7095299  Nov 02, 2000@13:32  Nov 02, 2000@13:36
```

Performance Monitor Report

The Performance Monitor Report option on the Clinical Coordinator menu produces reports that can be used to monitor overall physician order entry. It includes an option for a Detail report, a Summary report, a Both option that includes the Detail and Summary report, and a Summary Report Totals Only that shows only the totals for the providers selected as a group rather than listing individual providers.

The logic for determining whether a provider entered his or her own order has changed slightly. A provider must hold the ORES key in order to be included on the report. By checking for the existence of the ORES key we can keep certain providers from showing up on the report. This would include fee basis providers as well as any other outside providers that might adversely affect the overall hospital compliance with provider-entered orders.

☞ **NOTE: For consistency, the ORES key should not be deleted when a user is no longer an active user on the system.**

Previously, the report counted the order as being entered by the provider if the ENTERED BY field of the ORDERS file also held the ORES key. Now, the ENTERED BY field and the PROVIDER field must match.

A new report option has been added. Sites can use the Summary Report Totals Only to quickly obtain the numbers that are sent to Office of Quality Management.

Changes also have been made to the information displayed in the Summary and Summary Report Totals Only options to better represent the orders that the provider could have entered directly. The changes will be discussed in the sections describing those reports.

In addition, the report now filters out test patients and the default answers to the prompts were changed to reflect the most likely choices. Prompt formats were also changed to make them more readable.

Detail Report Format

The Detail report provides a list of all orders connected with each provider known as the "universe of orders." The universe of orders refers to all orders for which the provider has been identified in the PROVIDER field of the ORDERS file.

The Detail report is first sorted alphabetically by provider name. Under each provider's listing, the report includes an entry for each order in the date range specified. The entries are listed earliest to most recent.

Each entry under the provider's name includes the following information:

- order date
- order number
- patient identification
- first orderable item
- order type
- patient location
- package
- whether the order was entered by an individual having the ORES key

The first orderable item can help identify orders when more than one order was given for the same patient on the same date. Order Type indicates whether the order was submitted as a written, verbal, telephone, electronic, or policy. The ORD TYPE column will include an abbreviation indicating the type. The abbreviations are

- WRI for written orders
- TEL for telephone orders
- VER for verbal orders
- ELE for electronic orders
- POL for policy orders

On the following page is a capture of a detailed report.

Example of a Detailed Performance Report

```
CPRS Performance Monitor – Detailed Report  May 07, 2001                        PAGE 1
Selected Date Range: 4/30/01 to 5/7/01                                          ENTERED
Sort criteria: ALL PATIENTS/ALL ORDERS    ORD   PATIENT                         BY HAS
ORDER DT  ORDER #  PAT ID  1st ORD ITEM   TYPE  LOCATION        PACKAGE          ORES?
-------------------------------------------------------------------------------------

PROVIDER: JONES, SAM

5/3/01    7096701  H2591   GLUCOSE        ELE    2B MED         LAB SERVICE         Y

PROVIDER: JONES, THEODORE

4/30/01   7096685   A0999                 WRI   2B MED          ADVERSE REA         Y
4/30/01   7096686   A0999                 WRI   2B MED          ADVERSE REA         Y
4/30/01   7096687   A0999                 WRI   2B MED          ADVERSE REA         Y
4/30/01   7096688   A0999                 WRI   2B MED          ADVERSE REA         Y
4/30/01   7096689   A0999                 WRI   2B MED          ADVERSE REA         Y
4/30/01   7096690   A0999                 WRI   2B MED          ADVERSE REA         Y
4/30/01   7096691   A0999                 WRI   2B MED          ADVERSE REA         Y
5/1/01    7096692   B8832  CARDIOLOGY     ELE   1A(1&2)         CONSULT/REQ         Y
5/1/01    7096693   B8832  CARDIOLOGY     ELE   1A(1&2)         CONSULT/REQ         Y
5/1/01    7096694   B8832  CARDIOLOGY     ELE   1A(1&2)         CONSULT/REQ         Y
5/1/01    7096695   B8832  CARDIOLOGY     ELE   1A(1&2)         CONSULT/REQ         Y
5/3/01    7096699   B8832  FOOT CLINIC    ELE   1A(1&2)         CONSULT/REQ         Y

PROVIDER: SMITH, JOE

4/30/01   7096682   H2591   ABDOMEN 3     ELE   2B MED          RADIOLOGY/N         Y
4/30/01   7096683   H2591   1000 CAL ADA  ELE   2B MED          DIETETICS           Y
4/30/01   7096684   H2591   REGULAR       ELE   2B MED          DIETETICS           Y
5/3/01    7096696   T3412   ANKLE 3 OR    ELE   1A(1&2)         RADIOLOGY/N         Y
5/3/01    7096697   T3412   COLON BAR     ELE   1A(1&2)         RADIOLOGY/N         Y
5/3/01    7096698   S4423   COLON BAR     ELE   1A(1&2)         RADIOLOGY/N         Y

PROVIDER: WHITE, JANE

5/4/01    7096708   W1321   DIAZEPAM      ELE   NOT 2B          INPATIENT M         Y
```

Performance Monitor Summary Reports Format

The CPRS Performance Monitor reports include two summary reports.

- The Summary report gives a summary for each provider selected and includes a total for the selected group on the bottom of the report.
- The Summary Report Totals Only shows only the totals for the providers selected as a group rather than listing individual providers.

The format for these reports has changed slightly.

Changes to the Summary Format

The Performance Monitor summary reports have been modified to better represent which orders physicians can enter directly and which they would not enter directly. Below is a simple capture that shows the report format.

```
CPRS Performance Monitor - Summary Report       Aug 13, 2001            PAGE 1
Selected Date Range: 5/15/01 to 8/13/01
Sort criteria: ALL PATIENTS/PHARMACY ORDERS               BREAKDOWN OF ORDERS
                                 PROVIDER  PROVIDER      NOT SELF ENTERED
PROVIDER  UNIVERSE     DEA/STU/POL ORDERS   ENTERED    %  WR/VE/TE/EL
-------------------------------------------------------------------------------
NABER,DAVID A
  Inpt Tot      11                      11         7  64% 2/1/0/1
 Outpt Tot       9           1/0/0       8         5  63% 2/1/0/0
   Sub-tot      20                      19        12  63%
-------------------------------------------------------------------------------
INPT            11           0/0/0      11         7  64% 2/1/0/1
OUTPT            9           1/0/0       8         5  63% 2/1/0/0
TOTAL           20           1/0/0      19        12  63% 4/2/0/1
```

The Provider column shows the name and the rows for Inpatient, Outpatient, and Subtotal.

The Universe column introduces the concept of a “universe of orders.” The universe of orders refers to all orders for which the provider has been identified in the PROVIDER field of the ORDERS file.

In the next column under the heading DEA/STU/POL, three new exceptions have been added to identify those orders that the provider would not be expected to enter directly. The exceptions are as follows:

- outpatient pharmacy orders for which the DEA requires a wet signature
- orders entered by students
- policy orders

Performance Monitor Summary Reports Format, cont'd

For the student exception in this report, a student will be a user who has either the PROVIDER CLASS field (53.5) of the NEW PERSON file (200) set to STUDENT or has had a user class (or subclass) of STUDENT assigned through the Authorization/Subscription Utility (ASU) software.

☞ **NOTE: For consistency, it is recommended that you assign an expiration date for a user class rather than deleting or removing the user class from the user when the class no longer applies.**

The Providers Orders column represents the number of orders that a provider could have entered directly. To get the number in this column, the DEA, student, and policy orders are subtracted from the universe of orders.

The Provider Entered column shows how many orders the provider entered directly.

The % column expresses the ratio of orders entered as a percentage (Provider entered/ provider ordered). The word "NONE" may also appear in the % column. "NONE" indicates that the provider had no orders during the selected time frame, which is different than having a 0%, which indicates that they did not enter any of their own orders.

The Breakdown column shows the nature of order for those orders not directly entered by the provider. There are four groups represented here: Written (WR), Verbal (VE), Telephone (TE) and Electronically Entered (EL). Previously, policy orders were shown in this column but as stated above they are now on the exceptions side of the report.

Summary Report

Like the Detail Report, the Summary Report sorts the data by provider first. For each provider, it displays the total number of orders for which the provider is responsible (the universe) for the selected time period, the exceptions broken down by category (DEA/Student/Policy), the number of orders the provider could have entered, the number actually entered by the provider, the percentage (actual/possible), and the breakdown of orders not self-entered by category: WR indicates written orders, VE indicates verbal orders, TE indicates telephone orders, EL indicates electronic orders.

Example of Summary Report

```
CPRS Performance Monitor - Summary Report           Sep 21, 2001        PAGE 1
Selected Date Range: 6/1/01 to 9/21/01
Sort criteria: ALL PATIENTS/PHARMACY ORDERS               BREAKDOWN OF ORDERS
                                 PROVIDER  PROVIDER      NOT SELF ENTERED
PROVIDER  UNIVERSE     DEA/STU/POL ORDERS   ENTERED    %  WR/VE/TE/EL
-------------------------------------------------------------------------------
JONES, SAM
  Inpt Tot      26                      26        26 100%
 Outpt Tot       5                       5         4  80% 0/0/0/1
   Sub-tot      31                      31        30  97%
WHITE, JOE
  Inpt Tot       5                       5         3  60% 0/0/0/2
 Outpt Tot      34                      34        34 100%
   Sub-tot      39                      39        37  95%
-------------------------------------------------------------------------------
INPT           31           0/0/0      31        29  94% 0/0/0/2
OUTPT          39           0/0/0      39        38  97% 0/0/0/1
TOTAL          70           0/0/0      70        67  96% 0/0/0/3
```

Summary Report Totals Only

The Summary Report Totals Only has the same format as the Summary report, except that it does not show any individual provider information. It displays a simple summary for the selected providers as a group.

An example of a Summary Report Totals Only is shown below.

```
CPRS Performance Monitor - Summary Totals Report    Sep 21, 2001        PAGE 1
Selected Date Range: 6/1/01 to 9/21/01
Sort criteria: ALL PATIENTS/PHARMACY ORDERS               BREAKDOWN OF ORDERS
                                 PROVIDER  PROVIDER      NOT SELF ENTERED
          UNIVERSE     DEA/STU/POL ORDERS   ENTERED    %  WR/VE/TE/EL
-------------------------------------------------------------------------------

INPT           56           0/3/0      53        49  92% 0/1/0/3
OUTPT          78           1/2/0      75        68  91% 0/0/0/7
TOTAL         134           1/5/0     128       117  91% 0/1/0/10
```

Selecting Criteria for the Performance Monitor Report

To create a CPRS Performance Monitor Report, select Performance Monitor Report (PM) from the CPRS Configuration (Clin Coord) Option menu. Then use the steps below to define the report criteria.

1. **Enter starting date.** You may type in a specific date in standard month-day-year format (APR 30, 2001) or a specific number of days from today using the standard "T-minus" format (T-7 for all orders generates one week ago or less).
2. **Enter ending date.** You may type in a specific date in standard month-day-year format (MAY 07, 2001) or specific number of days from today using the standard "T-minus" format (T for all orders generates through today). You may not select a date that is before the start date you entered in Step 1. In this field, you are limited to the dates after the start date you selected and the current date (today).
3. **Do you want ALL providers to appear on this report?** The default is "Yes." Type "NO" to select specific providers.
4. **Select provider.** This prompt appears only if you select "NO" in Step 3. Type in the name of the provider you wish to select.
5. **Select another provider.** This prompt appears only if you select "NO" in step 3. Type in the name of the next provider you wish to select. This prompt will repeat each time you select an additional provider. To end provider selection, press ENTER on a blank "Select another provider" prompt.
6. **Select order category.**
   - **A** All Orders
   - **P** Pharmacy orders only

   Type an "A" to select all orders or type a "P" (default) to select pharmacy orders only.
7. **Select patient status.**
   - **I** Inpatient
   - **O** Outpatient
   - **B** Both

   Type an "I" to select inpatient orders. Type an "O" to select only outpatient orders. Type a "B" (default) to select both inpatient and outpatient orders.

Selecting Criteria for the Performance Monitor Report, cont'd

8. **Select report.**
   - **S** Summary (includes provider details)
   - **D** Detail (includes order details)
   - **B** Both (Summary & Detail)
   - **T** Summary Report Totals Only (no provider details)

   Type an "S" (default) to select the summary report. Type a "D" to select the detail report. Type a "B" to select both versions of the report. Type a "T" to get a Summary Report Totals Only.
9. **DEVICE: HOME//.** The default is HOME, which will print the report to your computer screen. Type two question marks ("??") to view a list of printers available to you. You can select a printer and send the report. This report can also be queued.

Example of Selecting the Criteria for a CPRS Performance Monitor Report

```
Select CPRS Manager Menu Option: PE  CPRS Configuration (Clin Coord)
   AL     Allocate OE/RR Security Keys
   KK     Check for Multiple Keys
   DC     Edit DC Reasons
   GP     GUI Parameters ...
   GA     GUI Access - Tabs, RPL
   MI     Miscellaneous Parameters
   NO     Notification Mgmt Menu ...
   OC     Order Checking Mgmt Menu ...
   MM     Order Menu Management ...
   LI     Patient List Mgmt Menu ...
   FP     Print Formats
   PR     Print/Report Parameters ...
   RE     Release/Cancel Delayed Orders
   US     Unsigned orders search
   EX     Set Unsigned Orders View on Exit
   NA     Search orders by Nature or Status
   DO     Event Delayed Orders Menu ...
   PM     Performance Monitor Report


Select CPRS Configuration (Clin Coord) Option: PM  Performance Monitor Report
Enter starting date:  6/1/01  (JUN 01, 2001)
Enter ending date: T  (SEP 21, 2001)
Do you want ALL providers to appear on this report? Y// NO
Select provider: JONES, ALBERT            CLA         PHYSICIAN
Select another provider: JONES, SAM       KMA         COMPUTER SPECIALIST
Select another provider: JONES, WHITAKER  JL
Select another provider: WHITE, ROBERT    MW          CHIEF, MEDICAL SERVICE
Select another provider: WHITE, ZACHARY   TR          PHYSICIAN
Select another provider:

     Select one of the following:

          A         All orders
          P         Pharmacy orders only

Select order category: P// Pharmacy orders only

     Select one of the following:

          I         Inpatient
          O         Outpatient
          B         Both

Select patient status: B// Both

     Select one of the following:

          S         Summary (includes provider details)
          D         Detail (includes order details)
          B         Both (Summary & Detail)
          T         Summary Report Totals Only (no provider details)

Select report: S// Summary (includes provider details)
DEVICE: HOME//   ANYWHERE
```

CPRS Configuration (IRM) [OR PARAM IRM MENU]

Option	Menu Text	Description
OCX MAIN	Order Check Expert System Main Menu	These options are used for troubleshooting Order Checking and Notifications, for compiling the expert system rules, and for linking local terms with national terms for order checking.
ORMTIME MAIN	ORMTIME Main Menu	These options are intended for IRMS only, and are used in conjunction with the ORTASK routines.
ORE MGR	CPRS Clean-up Utilities	This menu contains an option that checks consistency between lab files and OE/RR files.
XPAR MENU TOOLS	General Parameter Tools	This menu contains general purpose tools for managing parameters.

CPRS Files

File #	File Name	Description
100	ORDER	This is the file of orders/requisitions made for any package through the Order Entry Option (OR).
100.01	ORDER STATUS	This file contains the possible statuses that may be associated with an order.
100.02	NATURE OF ORDER	This file should not be added to or deleted from. It determines the actions that are to be taken based on the nature of an order or change to an order. The file is initially populated with data that seems the most appropriate. Sites may find it necessary to change some of the fields for entries in this file.
100.03	ORDER REASON	This file is used to define the possible reasons for DC/ing/canceling an order. The entries are identified by package so that each package can have its own set of reasons. Sites may wish to modify the entries in this file to fit their needs. It is important to maintain the correct links to the Radiology Reason file if modifications are made. These links are maintained in the CODE field. For Radiology Reasons, the code field is the internal # of the Radiology Reason file, followed by the characters RA. This file points to the Nature of Order file. This relationship is what identifies the appropriate actions to take for any DC reason.
100.2	OE/RR PATIENT EVENT FILE	This file is used by CPRS to track what happened to a patient's orders as a result of an event, such as an MAS movement or returning from the OR.
100.22	OE/RR PRINT FIELDS	Entries in this file with an internal number >1000 have been exported with the OE/RR package. Every time a new version of OE/RR is installed, the entries above are removed and overwritten. If you want to use one of these exported entries, transfer the entry to a number less than 1000 and give it a new name so that it

File #	File Name	Description
		can be differentiated from the exported entry.
100.23	OE/RR PRINT FORMATS	Entries in this file with an internal number >1000 have been exported with the OE/RR package. Every time a new version of OE/RR is installed the entries above 1000 are removed and overwritten. If you want to use one of these exported entries, transfer the entry to a number less than 1000 and give it a new name so that it can be differentiated from the exported entry.
100.24	OE/RR PT SEL COMBO	This file is used by CPRS to store a user's "Combination" default patient selection settings. It operates behind the scenes, and direct user access is neither provided nor provided.
100.4	OE/RR ERRORS	This file contains a record of events that failed or errored out during the use of OE/RR. This file is not to be edited. It is for debugging purposes. Entries in this file are automatically purged. The life of an entry depends on the parameter ERROR DAYS in the Parameters file.
100.5	OE/RR RELEASE EVENTS	This file contains the locally-defined events that can release delayed orders within each division. It is strongly recommended that this file not be edited with File Manager. Please use the edit options provided within CPRS.
100.6	OE/RR AUTO-DC RULES	This file contains the locally-defined rules that control if and when active orders are automatically discontinued within each division. It is strongly recommended that this file not be edited using File Manager. Please use the edit options provided in CPRS.
100.8	ORDER CHECKS	This file contains the Order Checks used in CPRS.
100.9	OE/RR NOTIFICATIONS	This file contains data used to generate notifications. Packages determine if a notification should be sent, then send the patient ID and notification ID (IEN in this file) to order entry routines. Based on the notification IEN, data from this file is used to generate the notification and help determine its recipients.

File #	File Name	Description
100.98	DISPLAY GROUP	This file allows orders to be clustered in groups other than by package. It is similar in structure to the OPTION File (19). This allows display groups to be arranged in a hierarchy. The main entry in this file should be ALL SERVICES. Other entries should be logically subordinate to the ALL SERVICES entry.
100.99	ORDER PARAMETERS	This file contains site specific parameters for OE/RR. It has only one entry, Hospital.
101	PROTOCOL	This file contains the orderables and methods for accomplishing orders (protocols) within CPRS.
101.41	ORDER DIALOG	This file contains the information needed to define how to prompt for each order, what values are acceptable, etc.
101.42	ORDER URGENCY	This file contains the urgencies to assign to an order.
101.43	ORDERABLE ITEMS	This file contains the orderable items to use in CPRS.
860.1	ORDER CHECK PATIENT ACTIVE DATA FILE	This file temporarily holds patient data that is used to trigger rules. This file is only edited by the compiled inferencing routine.
860.2	ORDER CHECK RULE	This file holds the rules that determine the conditions necessary for a notification or some other action to be performed. Rules consist of a set of Conditional Elements and a set of Element relationship expressions. When an element is found to be TRUE for a patient, it is compared to the other TRUE elements for the patient by evaluating all the Element relation expressions that contain it. If an expression is found to be TRUE then all of the actions defined for that relation are performed.
860.3	ORDER CHECK ELEMENT	This file holds the definitions for the rule elements. A rule element consists of a set of Boolean expressions. This takes the form of Data Field -> Comparison Operator -> 1 or 2 Comparison fields depending on the Operator.

File #	File Name	Description
860.4	ORDER CHECK DATA FIELD	This file holds a list of all data fields known to the order check system. It is also the link to the metadictionary, where the Order check system goes to get navigation and data type information.
860.5	ORDER CHECK DATA SOURCE	This file is just for documentation so the rule editor can keep data fields manageable.
860.6	ORDER CHECK DATA CONTEXT	This file keeps a list of data contexts. A rule event/element can only compare data fields from the same context. A context may involve several data sources. For example the data context of 'HL7' has a data source for each hl7 segment.
860.7	ORDER CHECK PATIENT RULE EVENT	This is a short term data archive that holds historical information about triggered rules.
860.8	ORDER CHECK COMPILER FUNCTIONS	
860.9	ORDER CHECK NATIONAL TERM	This file holds names of national terms used for order checking; these must be matched to local terms from the Orderable Item or Laboratory Test files.
861	ORDER CHECK RAW DATA LOG	This file is used primarily by developers and IRM staff to troubleshoot HL7 and other related problems.
863	OCX MDD CLASS	Metadictionary classes
863.1	OCX MDD APPLICATION	Metadictionary file
863.2	OCX MDD SUBJECT	Metadictionary
863.3	OCX MDD LINK	Metadictionary
863.4	OCX MDD ATTRIBUTE	Metadictionary
863.5	OCX MDD VALUES	Metadictionary
863.6	OCX MDD METHOD	Metadictionary
863.7	OCX MDD PUBLIC FUNCTION	Metadictionary

File #	File Name	Description
863.8	OCX MDD PARAMETER	Metadictionary
863.9	OCS MDD CONDITION/FUNCTION	Metadictionary
864	OCX MDD SITE PARAMETERS	Metadictionary control file used by developers
864.1	OCX MDD DATATYPE	Metadictionary
8989.5	PARAMETERS	
8989.51	PARAMETER DEFINITION	
8989.52	PARAMETER TEMPLATE	
8989.53	PARAMETER ENTITY	

Cross-References

The following unique cross-references are included in CPRS.

ORDER File (#100)

AC	This is the individual object of the order. Depending on the parent file entry, this would be the Patient, Control Point, etc.
AV	Allows retrieval of orders associated with a patient MAS movement.
AS	Used to identify unsigned orders.
AW	For sorting by display group
AO	Allows retrieval of patients for whom this item has been ordered.
ACT	Allows retrieval of orders by patient, inverse-date of action, and display group.
AE	Allows retrieval of orders by expiration date; set only for orders that have not already completed, expired, or been discontinued or canceled.

OE/RR PATIENT (100.2)

AHLD	Locks patient orders to prevent simultaneous editing

NOTIFICATIONS (100.9)

E	Used to look-up users/recipients who have indicated they want to receive the notification.

ORDER DIALOG (101.41)

DAD	This MUMPS-type cross-reference allow retrieval of “child” prompts in sequence by parent.
ATXT	Used to build order text.
AC	The “AC” cross-reference puts in window controls in order by creation sequence

ORDER URGENCY (101.42)

Cross-references, cont'd

ORDER CHECK PATIENT ACTIVE DATA (860.1)

TIME

ORDER CHECK PATIENT ACTIVE DATA (860.2)

ATELM

ORDER CHECK PATIENT ACTIVE DATA (860.3)

APGM

ORDER CHECK DATA CONTEXT (860.7)

AT

OCX MDD CLASS (863)

ACLS	Parent of Subclass
APAR	Index to rapidly find the parameters in this class
MN	Used to rapidly look up a class by its mnemonic
UID	Enables rapid lookup of an object by its UID

OCX MDD APPLICATION (863.1)

APAR	Index to rapidly find the parameters associated with this class
SYN	Look up the application by its synonym
^^TRIGGER^863.1^4	Triggers a unique ID for this object

OCX MDD SUBJECT (863.2)

APAR	Index to rapidly find the parameters in this class
UID	Enables rapid lookup of an object by its UID
SYN	This index supports a synonym lookup of the subject

Cross-references, cont'd

OCX MDD LINK (863.3)

AC	Rapidly identify links associated with a descendant subject
AE	Rapidly identify links associated with a parent menu group
AD	Rapidly find links associated with an attribute
ALO	
F	
SYN	This index supports synonym lookup
APAR	Index to rapidly find the parameters associated with this class
UID	Enables rapid lookup of an object by its UID

OCX MDD ATTRIBUTE (863.4)

APAR	Rapidly identify parameters associated with this class
AP	Quickly find the offspring of an attribute
UID	Enables rapid lookup of an object by its ID

OCX MDD VALUES (863.5)

AC	Rapidly associate a list of values with a context name
APAR	Rapidly identify all parameters associated with this class

OCX MDD METHOD (863.6)

AC	Rapidly associate a list of values with a context name
APAR	Rapidly identify all parameters associated with this class
UID	Enables rapid lookup of an object by its ID

Cross-references, cont'd

OCX MDD PUBLIC FUNCTION (863.7)

^^TRIGGER^863.6^4	Triggers a unique ID
APAR	Rapidly identify all parameters associated with this class
UID	Enables rapid lookup of an object by its ID

OCX MDD PARAMETER (863.8)

^^TRIGGER^863.8^3	Triggers a unique object ID
DD	Identifies the set of "primary" parameters; i.e., those which define other parameters
UID	Enables rapid location of an object by its ID
APAR	Rapidly identify all parameters associated with this file

OCS MDD CONDITION/FUNCTION (863.9)

^^TRIGGER^863.9^3	Triggers a unique ID for an object
AFUN	Rapidly identify conditions associated with a certain function
APAR	Rapidly identify all parameters associated with this class
SYN	This index supports synonym lookup
UID	Enables rapid lookup of an object by its ID

Archiving and Purging

Archiving utilities are not provided for the distributed files. Therefore, archival copies must be produced from the printed chart by methods familiar to your HIM Service (e.g., microfiche).

Purge Options

ORTASK NIGHT E	Nightly clean-up run routine
ORTASK PURGE	Old Orders Batch Purge run routine

This is a purge of all orders that have a “Last Activity Date” of more than the number of “Grace days” ago. It also checks to make sure the orders that are purged are 'Child' orders, have an order start date in the past, and have a “Terminal” status.

As this option scans the entire Orders file, it should be scheduled to run after hours.

The ORDERS file (100) contains all the orders placed on the system. Unless otherwise specified by a package, all orders have a grace period of 30 days from the date completed or expired before they are purged. The option ORTASK PURGE in the OPTION file (19) can be set up to run nightly to purge old orders from file 100. Only orders that have been inactive for the specified grace period and meet predefined criteria of the package that created the order are deleted.

The *Miscellaneous Parameters* option on the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU] contains the parameter, GRACE DAYS BEFORE PURGE, that allows IRMS or Clinical Coordinators to change the number of days before orders are purged.

While the purge utility is running, statistics about orders are compiled and sorted in the ORDER STATISTICS file (100.1).

Miscellaneous Parameters Example

```
Select CPRS Configuration (Clin Coord) Option: MI  Miscellaneous Parameters

Miscellaneous OE/RR Definition for System: OEX.ISC-SLC.VA.GOV
-------------------------------------------------------------------------
Active Orders Context Hours                        8
Auto Unflag                                        YES
Confirm Provider                                   YES (Exclude ORES)
Default Provider                                   YES
Error Days                                         2
Grace Days before Purge                            30
Restrict Requestor                                 YES (ORELSE & OREMAS)
Review on Patient Movement                         YES
Show Status Description                            YES
Signed on Chart Default                            NO
-------------------------------------------------------------------------
ACTIVE ORDERS CONTEXT HOURS: 8//
AUTO UNFLAG: YES//
CONFIRM PROVIDER: YES (Exclude ORES)//
DEFAULT PROVIDER: YES//
ERROR DAYS: 2//
GRACE DAYS BEFORE PURGE: 30// ??

This parameter is the number of days that should pass before an order is
purged. Only orders with a status of discontinued, complete, expired,
cancelled, changed, and lapsed will be purged.

GRACE DAYS BEFORE PURGE: 30//
RESTRICT REQUESTOR: YES (ORELSE & OREMAS)//
REVIEW ORDERS ON PATIENT MOVEMENT: YES//
SHOW STATUS DESCRIPTION: YES//
SIGNED ON CHART DEFAULT: NO//
```

External Relations

Before CPRS can be installed, the following packages and patches must be installed and ***fully*** patched in your accounts.

Application Name	Minimum Version
Automated Information Collection System (AICS)	V 3.0
Adverse Reaction Tracking (ART)	V 4.0
Authorization/Subscription Utility (ASU)	V 1.0
**Consolidated Mail Outpatient Pharmacy (CMOP)	V 2.0
*Consult/Request Tracking	V 2.5
Dietetics	V 5.0
Gen. Med. Rec.-Vitals	V. 3.0
Health Summary	V. 2.7
HL7	V. 1.6
Integrated Funds Distribution, Control Point Activity, Accounting & Procurement (IFCAP)	V. 4.0
*Inpatient Medications (IM)	V. 4.5
Integrated Billing (IB)	V. 2.0
Kernel	V. 8.0
Laboratory	V. 5.2
Lexicon Utility	V. 2.0
National Drug File (NDF)	V. 3.17
*Order Entry/Results Reporting (OE/RR)	V. 2.5
*Outpatient Pharmacy	V. 6.0
Patient Care Encounter (PCE)	V. 1.0
Pharmacy Data Management (PDM)	V. 1.0
Problem List	V 2.0
Radiology/Nuclear Medicine	V 4.5
RPC Broker	V 1.1
Registration	V 5.3
Scheduling	V 5.3

Application Name	Minimum Version
Text Integration Utilities (TIU)	V 1.0
ToolKit	V. 7.3
VA FileMan	V. 21.0
Visit Tracking	V 2.0

* If the package is installed on your system prior to CPRS, the required version and patches must be installed. If they are not installed, the package will be installed with CPRS.

** Patch PSX*2*3 is required if you have CMOP installed.

Database Integration Agreements

Database Integration Agreements (DBIA) are available on the DBA menu on MailMan.

Callable routines, entry points, Application Program Interfaces (APIs), and Remote Procedure Calls (RPCs) can be subscribed to. Lists of these will be available on the DBA menu on the Forum.

CPRS Remote Procedure Calls (RPCs)

A remote procedure call (RPC) is M code that can take optional parameters to do some task and then return either a single value or an array to the client application. In the message sent to VISTA, client applications will include the name of the requested RPC to be activated. These RPCs will be registered in the REMOTE PROCEDURE file (#8994) containing available and authorized RPCs.

The following four “key” fields of the REMOTE PROCEDURE file (#8994) must be populated:

Field Name	Entry	Description
NAME (#.01)	Required	The name that identifies the RPC (this entry should be namespaced in the package namespace).
TAG (#.02)	Required	The tag at which the remote procedure call begins.
ROUTINE (#.03)	Required	The name of the routine which should be invoked to start the RPC.
RETURN VALUE TYPE (#.04)	Required	This indicates to the Broker how to format the return values. For example, if RETURN VALUE TYPE is WORD PROCESSING, then each entry in the returning list will have a <CR><LF> (<carriage return><line feed>) appended.

How to Register an RPC

Because of security concerns, all RPCs run via the RPC Broker and used internally by any VISTA package must be “registered” to each package application that uses those RPCs. The Broker on the server will check each RPC that it receives whether or not the RPC is registered to the application that the user is running on the client workstation. If the RPC has not been registered, the Broker will reject it and send an appropriate error message to the client. It is highly desirable to make RPCs as generic as possible so they can be utilized by as many packages as possible. Therefore, an individual RPC can be registered to and used by multiple packages.

To register an RPC to a package, the following procedures must be performed:

1. Select the entry in the OPTION file (#19) which corresponds to your client/server application.
2. Verify the client/server application TYPE field is a B type option.

☞ **NOTE: The OPTION TYPE "B" represents a Broker client/server type option.**

3 .In the RPC multiple for this option type, the following information is entered:

Field Name	Entry	Description
RPC (#.01)	Required	This field is used to enter a pointer to the REMOTE PROCEDURE file (#8994). This field links the remote procedure call in the REMOTE PROCEDURE file (#8994) to the package option.
RPCKEY (#1)	Optional	field is used to restrict the use of a remote procedure call to a particular package option. The RPCKEY field is a free-text pointer to the SECURITY KEY file (#19.1).
RULES (#2)	Optional	This field is used to enter M code that is executed when an RPC request is made to verify whether the request should be honored.

How to Register an RPC, cont'd

4. You provide access to the option of your client/server application the same way as any other in VISTA. You can even place it on the System Command Options menu [XUCOMMAND], if you want everyone to have it, however, don't forget to rebuild the menu trees!

☞ **NOTE: RPC to package registration can be automated via the KIDS install of the package.**

Exported Remote Procedure Calls (RPCs)

☞ **NOTE: This list is not complete.**

RPC	Description	Tag	Routine	Return Value
ORB DELETE ALERT	This function deletes an alert.	DEL	ORB3FUP1	SINGLE VALUE
ORB FOLLOW-UP ARRAY	This function returns an array of follow-up data. Content of the data varies by notification.	GUI	ORB3FUP1	ARRAY
ORB FOLLOW-UP STRING	This function returns a string of follow-up data. Content of the data varies by notification.	GUI	ORB3FUP1	SINGLE VALUE
ORB FOLLOW-UP TYPE	Returns the follow-up action type for a notification as identified via the alert xqaid.	TYPE	ORB3FUP1	SINGLE VALUE
ORB SORT METHOD	Returns the default sort method for notification display based on the precedence USER, DIVISION, SYSTEM, PACKAGE.	SORT	ORQORB	SINGLE VALUE
ORK TRIGGER	This function returns a list of order check messages.	EN	ORKCHK	ARRAY
ORQ NULL LIST	Returns a null list.	NLIST	ORQPTQ2	ARRAY
ORQOR DETAIL	Returns detailed information regarding an order.	DETAIL	ORWOR	ARRAY
ORQOR LIST	Returns a list of patient orders.	LIST	ORQOR1	ARRAY
ORQPT ATTENDING/PRIMARY	Returns a patient's attending physician and primary provider.	ATTPRIM	ORQPTQ3	SINGLE VALUE
ORQPT CLINIC PATIENTS	Returns patients with appointments at a clinic between start and stop dates	CLINPTS	ORQPTQ2	ARRAY
ORQPT CLINICS	Function returns a list of clinics.	CLIN	ORQPTQ2	ARRAY
ORQPT DEFAULT LIST SOURCE	Function returns the source of the current user's default patient list.	DEFSRC	ORQPTQ11	SINGLE VALUE
ORQPT DEFAULT PATIENT LIST	Function returns the current user's default patient list.	DEFLIST	ORQPTQ11	ARRAY
ORQPT PATIENT TEAM PROVIDERS	Function returns a list of providers linked to a patient via teams.	TPTPR	ORQPTQ1	ARRAY
ORQPT PROVIDER PATIENTS	Function returns an array of patients linked to a provider/user.	PROVPTS	ORQPTQ2	ARRAY
ORQPT PROVIDERS	Function returns an array of providers.	PROV	ORQPTQ2	ARRAY
ORQPT SPECIALTIES	Function returns an array of treating specialties.	SPEC	ORQPTQ2	ARRAY
ORQPT SPECIALTY PATIENTS	Function returns an array of patients linked to a treating specialty.	SPECPTS	ORQPTQ2	ARRAY
ORQPT TEAM PATIENTS	Function returns an array of patients on a team.	TEAMPTS	ORQPTQ1	ARRAY
ORQPT TEAMS	Function returns a list of teams.	TEAMS	ORQPTQ1	ARRAY
ORQPT WARD PATIENTS	Function returns a list of patients on a ward.	WARDPTS	ORQPTQ2	ARRAY
ORQPT WARDRMBED	Returns the ward, room-bed for a patient.	WRB	ORQPTQ3	SINGLE VALUE
ORQPT WARDS	Function returns a list of wards.	WARD	ORQPTQ2	ARRAY

RPC	Description	Tag	Routine	Return Value
ORQQAL DETAIL	This function returns a string of information for a specific allergy/ adverse reaction. Returned data is delimited by "^" and includes: allergen/reactant, originator, originator title, verified/not verified, observed/historical,<blank>,type, observation date, severity, drug class, symptoms/reactions (multiple symptoms possible - delimited by ";"), comments.	DETAIL	ORQQAL	ARRAY
ORQQAL LIST	Returns a list of allergies for a patient.	LIST	ORQQAL	ARRAY
ORQQAL LIST REPORT	Returns a list of allergens, severity and signs/symptoms in a report format which can be used in a "detailed" display. This RPC was set up to support the listing of allergies when selected from the Patient Postings list.	LRPT	ORQQAL	ARRAY
ORQQCN ADDCMT	Allows addition of a comment to a consult request/consult without changing its status. Optionally, allows sending of an alert to the requesting provider and others.	CMT	ORQQCN2	SINGLE VALUE
ORQQCN DETAIL	Returns formatted detailed information regarding the consult request, including result report if available.	DETAIL	ORQQCN	ARRAY
ORQQCN DISCONTINUE	Discontinue a consult or deny a consult request.	DC	ORQQCN1	SINGLE VALUE
ORQQCN FORWARD	Forwards a consult to a subservice of the forwarding service, as defined in file 123.5	FR	ORQQCN1	SINGLE VALUE
ORQQCN GET CONSULT	Given a Consult ID from file 123, return the zero node to the client for loading into a consult record in RESULTS[0]. If the consult has any associated TIU records (completion, addenda) these will be returned in RESULTS[i..j].	GETCSLT	ORQQCN1	ARRAY
ORQQCN LIST	Returns a list of consult requests for a patient within optional date range and optional service.	LIST	ORQQCN	ARRAY
ORQQCN MED RESULTS	Returns a display of Medicine Package results, followed by any TIU results.	MEDRSLT	ORQQCN2	ARRAY
ORQQCN PRINT SF513		PRT513	ORQQCN2	SINGLE VALUE
ORQQCN RECEIVE	Test version of RECEIVE CONSULT for use with GUI. (REV - 8/22/97)	RC	ORQQCN1	SINGLE VALUE
ORQQCN SET ACT MENUS	Based on the IEN of the consult passed in, returns a value of 1,2, or 3, allowing dynamic enabling/disabling of GUI menus based on user access level for that particular consult. See CPRS^GMRCACTM for return value explanations.	SETACTM	ORQQCN1	SINGLE VALUE
ORQQCN SHOW SF513		SHOW513	ORQQCN2	ARRAY
ORQQCN STATUS	Returns a list of consult statuses currently in use, as reflected in the "AC" XREF of ^GMR(123.1.	STATUS	ORQQCN2	ARRAY
ORQQCN SVCTREE	Returns a specially formatted list of consult services for use in populating a GUI TreeView control.	SVCTREE	ORQQCN2	ARRAY
ORQQCN URGENCIES	Returns a list of applicable urgencies from PROTOCOL file 101, given a ConsultIEN and type.	URG	ORQQCN1	ARRAY

RPC	Description	Tag	Routine	Return Value
ORQQLR DETAIL	Returns the details of a lab order.	DETAIL	ORQQLR	ARRAY
ORQQLR SEARCH RANGE INPT	Returns the date search range in number of days (e.g. 2) to begin the search before today. For example, a value of 2 would indicate to limit the search between two days and today. Limited to inpatients.	SRIN	ORQQLR	SINGLE VALUE
ORQQLR SEARCH RANGE OUTPT	Returns the date search range in number of days (e.g. 90) to begin the search before today. For example, a value of 90 would indicate to limit the search between ninety day. Limited to Outpatients.	SROUT	ORQQLR	SINGLE VALUE
ORQQPL ADD SAVE	Add new problem record	ADDSAVE	ORQQPL1	SINGLE VALUE
ORQQPL AUDIT HIST	RETURN PROBLEM AUDIT HISTORY	HIST	ORQQPL2	ARRAY
ORQQPL CLIN FILTER LIST	rETURNS ARRAY OF IEN^NAME FOR AN ARRAY OF IEN PASSED IN	GETCLIN	ORQQPL3	ARRAY
ORQQPL CLIN SRCH	Returns list of clinics for problem list. Should be replaced by CLIN^ORQPT	CLINSRCH	ORQQPL1	ARRAY
ORQQPL DELETE	DELETES A PROBLEM	DELETE	ORQQPL2	SINGLE VALUE
ORQQPL DETAIL	Function returns a string of detailed information for a problem.	DETAIL	ORQQPL	ARRAY
ORQQPL EDIT LOAD	Return array of default fields and original fields - GMPFLD() and GMPORIG()	EDLOAD	ORQQPL1	ARRAY
ORQQPL EDIT SAVE	sAVES EDITED PROBLEM RECORD	EDSAVE	ORQQPL1	SINGLE VALUE
ORQQPL INIT PT	returns death indicator, sc and exposures	INITPT	ORQQPL1	ARRAY
ORQQPL INIT USER	Returns user parameters for problem list	INITUSER	ORQQPL1	ARRAY
ORQQPL LIST	Function returns a list of problems for a patient.	LIST	ORQQPL	ARRAY
ORQQPL PROBLEM LEX SEARCH	Get a list from clinical lexicon for display in list or combo box	LEXSRCH	ORQQPL1	ARRAY
ORQQPL PROBLEM LIST	Problem list for CPRS GUI client	PROBL	ORQQPL3	ARRAY
ORQQPL PROV FILTER LIST	RETURNS A LIST OF PROVIDERS CORRESPONDING TO INPUT ARRAY OF IEN	GETRPRV	ORQQPL3	ARRAY
ORQQPL PROVIDER LIST	RETURNS ARRAY OF PROVIDERS MATCHING INPUT	PROVSRCH	ORQQPL1	ARRAY
ORQQPL REPLACE	REPLACES A PROBLEM THAT WAS PREVIOUSLY DELETED	REPLACE	ORQQPL2	SINGLE VALUE
ORQQPL SERV FILTER LIST	RETURNS ARRAY OF IEN^NAME FOR INPUT ARRAY OF IEN	GETSRVC	ORQQPL3	ARRAY
ORQQPL SRVC SRCH	gET LIST OF AVAILABLE SERVICES	SRVCSRCH	ORQQPL1	ARRAY
ORQQPL UPDATE	Updates problem record	UPDATE	ORQQPL1	ARRAY
ORQQPL USER PROB CATS	rETURNS ARRAY OF CATEGORIES FOR USER TO SELECT FROM	CAT	ORQQPL3	ARRAY
ORQQPL USER PROB LIST	Returns array of user specific problems to select from	PROB	ORQQPL3	ARRAY
ORQQPL VERIFY	VERIFY A TRANSCRIBED PROBLEM	VERIFY	ORQQPL2	SINGLE VALUE
ORQQPP LIST	Returns a list of active Patient Postings for a patient.	LIST	ORQQPP	ARRAY

RPC	Description	Tag	Routine	Return Value
ORQQPS DETAIL	Returns the details of a medication order.	DETAIL	ORQQPS	ARRAY
ORQQPS LIST	Function returns a list of a patient's medications.	LIST	ORQQPS	ARRAY
ORQQPX IMMUN LIST	Returns a list of patient immunizations.	IMMLIST	ORQQPX	ARRAY
ORQQPX REMINDER DETAIL	Returns the details of a clinical reminder.	REMDET	ORQQPX	ARRAY
ORQQPX REMINDERS LIST	Returns a list of clinical reminders.	REMIND	ORQQPX	ARRAY
ORQQVI VITALS	Function returns a patient's vital measurements between start date and stop date.	FASTVIT	ORQQVI	ARRAY
ORQQVI VITALS FOR DATE RANGE	Function returns a patient's vital measurements between start date and stop date.	VITALS	ORQQVI	ARRAY
ORQQVI1 GRID		GRID	ORQQVI1	GLOBAL ARRAY
ORQQVI2 VITALS HELP		HELP	ORQQVI2	ARRAY
ORQQVI2 VITALS RATE CHECK		RATECHK	ORQQVI2	SINGLE VALUE
ORQQVI2 VITALS STORE				
ORQQVI2 VITALS VAL & STORE		VALSTORE	ORQQVI2	ARRAY
ORQQVI2 VITALS VALIDATE		VALIDATE	ORQQVI2	ARRAY
ORQQVI2 VITALS VALIDATE TYPE		VMTYPES	ORQQVI2	SINGLE VALUE
ORQQVS DETAIL NOTES	Returns the progress notes based on patient and visit identifier.	DETNOTE	ORQQVS	ARRAY
ORQQVS DETAIL SUMMARY	Returns discharge summary for a visit.	DETSUM	ORQQVS	ARRAY
ORQQVS VISITS/APPTS	Returns a list of patient appointments and visits for a date/time range.	VSITAPPT	ORQQVS	ARRAY
ORQQXMB MAIL GROUPS	Returns mail groups in a system.	MAILG	ORQQXQA	ARRAY
ORQQXQA PATIENT	Function returns a list of notifications for a patient for the current user.	PATIENT	ORQQXQA	ARRAY
ORQQXQA USER	Function returns notifications for current user.	USER	ORQQXQA	ARRAY
ORWCH LOADALL		LOADALL	ORWCH	ARRAY
ORWCH SAVEALL		SAVEALL	ORWCH	SINGLE VALUE
ORWCH SAVESIZ		SAVESIZ	ORWCH	SINGLE VALUE
ORWCS LIST OF CONSULT REPORTS	This remote procedure call returns a list on consult reports for a specific patient.	LIST	ORWCS	GLOBAL ARRAY
ORWCS PRINT REPORT	This rpc is used to print a consult report on the Consult tab in CPRS.	PRINT	ORWCSP	SINGLE VALUE
ORWCS REPORT TEXT	This remote procedure call returns an array containing a formattied consult report. This array matches exactly the report format on the roll 'n scroll version of CPRS.	RPT	ORWCS	GLOBAL ARRAY
ORWD DEF	Returns the formatting definition for an ordering dialog from the ORDER DIALOG file (101.41).	DEF	ORWD	ARRAY
ORWD DT	Returns a date in internal Fileman format.	DT	ORWD	SINGLE VALUE
ORWD FORMID	Returns the Form ID (mapping to a windows form) for an ordering dialog.	FORMID	ORWD	SINGLE VALUE

RPC	Description	Tag	Routine	Return Value
ORWD GET4EDIT		GET4EDIT	ORWD	ARRAY
	Returns the responses for an already existing order.			
ORWD KEY		KEY	ORWD	SINGLE VALUE
ORWD OI		OI	ORWD	ARRAY
	Returns a group of orderable items to be used in the OnNeedData event for a long list box.			
ORWD PROVKEY		PROVKEY	ORWD	SINGLE VALUE
	Returns 1 if the users possesses the PROVIDER key.			
ORWD SAVE		SAVE	ORWD	ARRAY
	Saves an order. The order is passed in ORDIALOG format.			
ORWD SAVEACT		SAVEACT	ORWD	ARRAY
	Saves the action on a order in an unsigned/unreleased state.			
ORWD SIGN		SIGN	ORWD	ARRAY
	Changes signature status on a list of orders and optionally releases the orders to their respective services.			
ORWD VALIDACT		VALIDACT	ORWD	SINGLE VALUE
	Returns 1 if action is valid for an order, otherwise 0^error.			
ORWDCN32 DEF		DEF	ORWDCN32	ARRAY
	Load dialog data (lists & defaults) for a consult order. (32-BIT)			
ORWDCN32 ORDRMSG		ORDRMSG	ORWDCN32	SINGLE VALUE
ORWDCSLT DEF		DEF	ORWDCSLT	ARRAY
	Load dialog data (lists & defaults) for a consult order. (16-BIT)			
ORWDCSLT LOOK200		LOOK200	ORWDCSLT	SINGLE VALUE
	Validates Attn: field of a consult order.			
ORWDGX LOAD		LOAD	ORWDGX	ARRAY
	Loads a list of activities for an activity order.			
ORWDGX VMDEF		VMDEF	ORWDGX	ARRAY
	Loads dialog data (lists & defaults) for a vitals order.			
ORWDLR ABBSPEC		ABBSPEC	ORWDLR	ARRAY
	Returns lab specimens that have an abbreviation (used as default list).			
ORWDLR ALLSAMP		ALLSAMP	ORWDLR	ARRAY
	Returns a list of collection samples for a lab order.			
ORWDLR DEF		DEF	ORWDLR	ARRAY
	Loads dialog data (lists & defaults) for a lab order.			
ORWDLR LOAD		LOAD	ORWDLR	ARRAY
	Loads sample, specimen, and urgency information for a given lab test.			
ORWDLR OIPARAM		LOAD	ORWDLR	ARRAY
	No longer used.			
ORWDLR STOP		STOP	ORWDLR	SINGLE VALUE
	Calculates a stop date (for lab orders with schedules).			
ORWDLR32 ABBSPEC		ABBSPEC	ORWDLR32	ARRAY
ORWDLR32 ALLSAMP		ALLSAMP	ORWDLR32	ARRAY
ORWDLR32 ALLSPEC		ALLSPEC	ORWDLR32	ARRAY
ORWDLR32 DEF		DEF	ORWDLR32	ARRAY
ORWDLR32 LOAD		LOAD	ORWDLR32	ARRAY
ORWDLR32 MAXDAYS		MAXDAYS	ORWDLR32	SINGLE VALUE
ORWDLR32 STOP		STOP	ORWDLR32	SINGLE VALUE
ORWDPS DEF		DEF	ORWDPS	ARRAY
	Loads dialog data (lists & defaults) for a pharmacy order (inpatient and outpatient).			
ORWDPS INPT		INPT	ORWDPS	SINGLE VALUE
ORWDPS LOAD		LOAD	ORWDPS	ARRAY
	Loads dialog data (lists & defaults) for a pharmacy order once an orderable item (Drug & Form) is selected.			
ORWDPS OUTPT		OUTPT	ORWDPS	SINGLE VALUE
ORWDPS32 ALLROUTE		ALLROUTE	ORWDPS32	ARRAY

RPC	Description	Tag	Routine	Return Value
ORWDPS32 AUTH		AUTH	ORWDPS32	SINGLE VALUE
ORWDPS32 DLGSLCT		DLGSLCT	ORWDPS32	ARRAY
ORWDPS32 DRUGMSG		DRUGMSG	ORWDPS32	SINGLE VALUE
ORWDPS32 FORMALT		FORMALT	ORWDPS32	ARRAY
ORWDPS32 MEDISIV		MEDISIV	ORWDPS32	SINGLE VALUE
ORWDPS32 OISLCT		OISLCT	ORWDPS32	ARRAY
ORWDPS32 SCSTS		SCSTS	ORWDPS32	SINGLE VALUE
ORWDRA DEF		DEF	ORWDRA	ARRAY
	Loads dialog data (lists & defaults) for a radiology order.			
ORWDRA32 APPROVAL		APPROVAL	ORWDRA32	ARRAY
ORWDRA32 DEF		DEF	ORWDRA32	ARRAY
	Loads dialog data (lists & defaults) for a radiology order.			
ORWDRA32 IMTYPSEL		IMTYPSEL	ORWDRA32	ARRAY
ORWDRA32 ISOLATN		ISOLATN	ORWDRA32	SINGLE VALUE
ORWDRA32 PROCMSG		PROCMSG	ORWDRA32	ARRAY
ORWDRA32 RADSRC		RADSRC	ORWDRA32	ARRAY
ORWDRA32 RAORDITM		RAORDITM	ORWDRA32	ARRAY
ORWDX DLGDEF		DLGDEF	ORWDX	ARRAY
ORWDX DLGQUIK		DLGQUIK	ORWDX	ARRAY
ORWDX FORMID		FORMID	ORWDX	SINGLE VALUE
ORWDX LOADRSP		LOADRSP	ORWDX	ARRAY
ORWDX ORDITM		ORDITM	ORWDX	ARRAY
ORWDX SAVE		SAVE	ORWDX	ARRAY
ORWDX SEND		SEND	ORWDX	ARRAY
ORWDX WRLST		WRLST	ORWDX	ARRAY
ORWDXA ALERT		ALERT	ORWDXA	SINGLE VALUE
ORWDXA COMPLETE		COMPLETE	ORWDXA	ARRAY
ORWDXA DC		DC	ORWDXA	ARRAY
ORWDXA DCREASON		DCREASON	ORWDXA	ARRAY
ORWDXA FLAG		FLAG	ORWDXA	ARRAY
ORWDXA FLAGTXT		FLAGTXT	ORWDXA	ARRAY
ORWDXA HOLD		HOLD	ORWDXA	ARRAY
ORWDXA UNFLAG		UNFLAG	ORWDXA	ARRAY
ORWDXA UNHOLD		UNHOLD	ORWDXA	ARRAY
ORWDXA VALID		VALID	ORWDXA	SINGLE VALUE
ORWDXA VERIFY		VERIFY	ORWDXA	ARRAY
ORWDXA WCGET		WCGET	ORWDXA	ARRAY
ORWDXA WCPUT		WCPUT	ORWDXA	SINGLE VALUE
ORWDXQ DLGNAME		DLGNAME	ORWDXQ	SINGLE VALUE
ORWDXQ DLGSAVE		DLGSAVE	ORWDXQ	SINGLE VALUE
ORWDXQ GETQLST		GETQLST	ORWDXQ	ARRAY
ORWDXQ GETQNAM		GETQNAM	ORWDXQ	SINGLE VALUE
ORWDXQ PUTQLST		PUTQLST	ORWDXQ	SINGLE VALUE
ORWDXQ PUTQNAM		PUTQNAM	ORWDXQ	SINGLE VALUE
ORWDXR ISREL		ISREL	ORWDXR	SINGLE VALUE
ORWDXR RENEW		RENEW	ORWDXR	ARRAY
ORWDXR RNWFLDS		RNWFLDS	ORWDXR	ARRAY
ORWLR CUMULATIVE REPORT		CUM	ORWLR	GLOBAL ARRAY
	This call returns an up to date laboratory cumulative report for a given patient.			
ORWLR CUMULATIVE SECTION		RPT	ORWLR	GLOBAL ARRAY
	This rpc retrieves the part of the lab cumulative report selected by the user on the Labs tab.			

RPC	Description	Tag	Routine	Return Value
ORWLR REPORT LISTS		LIST	ORWLR	GLOBAL ARRAY
	This remote procedure call returns a list of lab cumulative sections, and date ranges that can be displayed at the workstation. There are no input parameters fo this rpc.			
ORWLRR ALLTESTS		ALLTESTS	ORWLRR	ARRAY
ORWLRR ATESTS		ATESTS	ORWLRR	ARRAY
ORWLRR ATG		ATG	ORWLRR	ARRAY
ORWLRR ATOMICS		ATOMICS	ORWLRR	ARRAY
ORWLRR CHART		CHART	ORWLRR	GLOBAL ARRAY
ORWLRR CHEMTEST		CHEMTEST	ORWLRR	ARRAY
ORWLRR GRID		GRID	ORWLRR	GLOBAL ARRAY
ORWLRR INTERIM		INTERIM	ORWLRR	GLOBAL ARRAY
ORWLRR INTERIMG		INTERIMG	ORWLRR	GLOBAL ARRAY
ORWLRR INTERIMS		INTERIMS	ORWLRR	GLOBAL ARRAY
ORWLRR MICRO		MICRO	ORWLRR	GLOBAL ARRAY
ORWLRR NEWOLD		NEWOLD	ORWLRR	SINGLE VALUE
ORWLRR PARAM		PARAM	ORWLRR	SINGLE VALUE
ORWLRR SPEC		SPEC	ORWLRR	ARRAY
ORWLRR TG		TG	ORWLRR	ARRAY
ORWLRR USERS		USERS	ORWLRR	ARRAY
ORWLRR UTGA		UTGA	ORWLRR	ARRAY
ORWLRR UTGD		UTGD	ORWLRR	ARRAY
ORWLRR UTGR		UTGR	ORWLRR	ARRAY
ORWMC PATIENT PROCEDURES		PROD	ORWMC	GLOBAL ARRAY
	This remote procedure call returns a list of patient procedures for a specific patient.			
ORWOR RESULT		RESULT	ORWOR	GLOBAL ARRAY
ORWORDG ALLTREE		ALLTREE	ORWORDG	ARRAY
ORWORDG GRPSEQB		GRPSEQB	ORWORDG	ARRAY
ORWORDG IEN		IEN	ORWORDG	SINGLE VALUE
ORWORDG MAPSEQ		MAPSEQ	ORWORDG	ARRAY
ORWORDG REVSTS		REVSTS	ORWORDG	ARRAY
ORWORR GET		GET	ORWORR	ARRAY
	Returns a list of orders & and associated fields and text.			
ORWPCE ACTIVE PROV		ACTIVPRV	ORWPCE2	SINGLE VALUE
	This calls the PCE API $$ACTIVPRV^PXAPI(provider ien, encounter d/t) to see if the provider can be stored by PCE. Returns a 1 if provider is good and 0 if the provider is not active or does not have an active person class.			
ORWPCE CPTREQD		CPTREQD	ORWPCE	SINGLE VALUE
ORWPCE DELETE		DELETE	ORWPCE	SINGLE VALUE
ORWPCE DIAG		DIAG	ORWPCE	ARRAY
ORWPCE GET EDUCATION TOPICS		EDTTYPE	ORWPCE2	ARRAY
ORWPCE GET EXAM TYPE		EXAMTYPE	ORWPCE2	ARRAY
ORWPCE GET HEALTH FACTORS TY		HFTYPE	ORWPCE2	ARRAY
ORWPCE GET IMMUNIZATION TYPE		IMMTYPE	ORWPCE2	ARRAY
ORWPCE GET SET OF CODES		GETSET	ORWPCE2	ARRAY
ORWPCE GET SKIN TEST TYPE		SKTYPE	ORWPCE2	ARRAY
ORWPCE GET TREATMENT TYPE		TRTTYPE	ORWPCE2	ARRAY
ORWPCE HF		HF	ORWPCE	ARRAY
ORWPCE IMM		IMM	ORWPCE	ARRAY
ORWPCE LEX		LEX	ORWPCE	ARRAY
ORWPCE LEXCODE		LEXCODE	ORWPCE	SINGLE VALUE
ORWPCE NOTEVSTR		NOTEVSTR	ORWPCE	SINGLE VALUE
ORWPCE PCE4NOTE		PCE4NOTE	ORWPCE	ARRAY
ORWPCE PED		PED	ORWPCE	ARRAY

RPC	Description	Tag	Routine	Return Value
ORWPCE PROC		PROC	ORWPCE	ARRAY
ORWPCE SAVE		SAVE	ORWPCE	SINGLE VALUE
ORWPCE SCDIS		SCDIS	ORWPCE	ARRAY
ORWPCE SCSEL		SCSEL	ORWPCE	SINGLE VALUE
ORWPCE SK		SK	ORWPCE	ARRAY
ORWPCE TRT		TRT	ORWPCE	ARRAY
ORWPCE VISIT		VISIT	ORWPCE	ARRAY
ORWPCE XAM		XAM	ORWPCE	ARRAY
ORWPS ACTIVE		ACTIVE	ORWPS	ARRAY
ORWPS COVER		COVER	ORWPS	ARRAY
ORWPS DETAIL		DETAIL	ORWPS	GLOBAL ARRAY
ORWPT ADMITLST		ADMITLST	ORWPT	ARRAY
	Returns a list of admissions for a patient (for visit selection).			
ORWPT APPTLST		APPTLST	ORWPT	ARRAY
	Returns a list of appointments for a patient (for visit selection).			
ORWPT CLINRNG		CLINRNG	ORWPT	ARRAY
ORWPT DFLTSRC		DFLTSRC	ORWPT	SINGLE VALUE
ORWPT DISCHARGE		DISCHRG2	ORWPT	SINGLE VALUE
	Given a patient and an admission date, return the discharge date/time.			
ORWPT ENCTITL		ENCTITL	ORWPT	SINGLE VALUE
ORWPT ID INFO		IDINFO	ORWPT	SINGLE VALUE
	Returns identifying information for a patient.			
ORWPT LAST5		LAST5	ORWPT	ARRAY
ORWPT LIST ALL		LISTALL	ORWPT	ARRAY
	Returns a set of patient names for use with a long list box.			
ORWPT PTINQ		PTINQ	ORWPT	GLOBAL ARRAY
ORWPT SELCHK		SELCHK	ORWPT	SINGLE VALUE
ORWPT SELECT		SELECT	ORWPT	SINGLE VALUE
ORWPT SHARE		SHARE	ORWPT	SINGLE VALUE
ORWPT TOP		TOP	ORWPT	ARRAY
ORWPT16 ADMITLST		ADMITLST	ORWPT16	ARRAY
ORWPT16 APPTLST		APPTLST	ORWPT16	ARRAY
ORWPT16 DEMOG		DEMOG	ORWPT16	SINGLE VALUE
ORWPT16 GETVSIT		GETVSIT	ORWPT16	SINGLE VALUE
ORWPT16 ID INFO		IDINFO	ORWPT16	SINGLE VALUE
ORWPT16 LIST ALL		LISTALL	ORWPT16	ARRAY
ORWPT16 LOOKUP		LOOKUP	ORWPT16	ARRAY
ORWPT16 PSCNVT		PSCNVT	ORWPT16	SINGLE VALUE
ORWRA IMAGING EXAMS		EXAMS	ORWRA	GLOBAL ARRAY
	This remote procedure call returns a list on imaging exams for a specific patient.			
ORWRA PRINT REPORT		PRINT	ORWRAP	SINGLE VALUE
	This rpc is used to print an imaging report on the Imaging tab in CPRS.			
ORWRA REPORT TEXT		RPT	ORWRA	GLOBAL ARRAY
	This remote procedure call returns an array containing a formattied imaging report. This array matches exactly the report format on the roll 'n scroll version of CPRS.			
ORWRP PRINT REPORT		PRINT	ORWRPP	SINGLE VALUE
	This rpc is used to print a report on the Report tab in CPRS.			
ORWRP REPORT LISTS		LIST	ORWRP	ARRAY
	This remote procedure call returns a list of reports, Health Summary types and date ranges that can be displayed at the workstation. There are no input parameters fo this rpc.			

RPC	Description	Tag	Routine	Return Value
ORWRP REPORT TEXT		RPT	ORWRP	GLOBAL ARRAY
	This rpc retrieves the report text for a report selected on the Report tab. the report format on the roll 'n scroll version of CPRS.			
ORWRP1 LISTNUTR		LISTNUTR	ORWRP1	GLOBAL ARRAY
ORWRP16 REPORT LISTS		LIST	ORWRP16	GLOBAL ARRAY
	This remote procedure call returns a list of reports, Health Summary types and date ranges that can be displayed at the workstation. There are no input parameters fo this rpc.			
ORWRP16 REPORT TEXT		RPT	ORWRP16	GLOBAL ARRAY
	This rpc retrieves the report text for a report selected on the Report tab. the report format on the roll 'n scroll version of CPRS.			
ORWU CLINLOC		CLINLOC	ORWU	ARRAY
ORWU DEVICE		DEVICE	ORWU	ARRAY
	Returns a list of print devices.			
ORWU DT		DT	ORWU	SINGLE VALUE
ORWU EXTNAME		EXTNAME	ORWU	SINGLE VALUE
ORWU GENERIC		GENERIC	ORWU	ARRAY
ORWU HASKEY		HASKEY	ORWU	SINGLE VALUE
ORWU HOSPLOC		HOSPLOC	ORWU	ARRAY
	Returns a set of hospital locations for use in a long list box.			
ORWU NEWPERS		NEWPERS	ORWU	ARRAY
	Returns a set of New Person file entries for use in a long list box.			
ORWU PATCH		PATCH	ORWU	SINGLE VALUE
ORWU TOOLMENU		TOOLMENU	ORWU	ARRAY
ORWU USERINFO		USERINFO	ORWU	SINGLE VALUE
	Returns preferences for the current user.			
ORWU VALDT		VALDT	ORWU	SINGLE VALUE
ORWU VALIDSIG		VALIDSIG	ORWU	SINGLE VALUE
	Validates a broker encrypted electronic signature.			
ORWU16 DEVICE		DEVICE	ORWU16	ARRAY
ORWU16 HOSPLOC		HOSPLOC	ORWU16	ARRAY
ORWU16 NEWPERS		NEWPERS	ORWU16	ARRAY
ORWU16 USERINFO		USERINFO	ORWU16	SINGLE VALUE
ORWU16 VALDT		VALDT	ORWU16	SINGLE VALUE
ORWU16 VALIDSIG		VALIDSIG	ORWU16	SINGLE VALUE
ORWUH POPUP		POPUP	ORWUH	ARRAY
	Retrieves the "What's This" text for a given control.			
ORWUX SYMTAB		SYMTAB	ORWUX	GLOBAL ARRAY

Package-Wide Variables

CPRS has no package-wide variables.

How to Get Online Documentation

The CPRS documentation set (Installation Guide, Implementation Guide, Technical Manual, and Clinician Guide) is available on the Software Services World Wide Web (WWW) page. It's also available in PDF format on the Hines Anonymous account.

Retrieving Online Help Using Question Marks

Entering question marks within the menu system provides help about options and menus.

? If you enter one question mark at a prompt, the program displays a brief explanation of what kind of information you should enter.

?? If you enter two question marks, the program shows a list of possible responses (if appropriate) or a more detailed description, and also the hidden actions available, if you are in a List Manager screen.

??? Three question marks cause more complete descriptions to be displayed..

KIDS Install Print Options

Print a List of Package Components

Use the KIDS Build File Print option if you would like a complete listing of package components (e.g., routines and options) exported with this software.

```
>D ^XUP
Setting up programmer environment
Terminal Type set to: C-VT100

Select OPTION NAME: XPD MAIN     Kernel Installation & Distribution System menu

          Edits and Distribution ...
          Utilities ...
          Installation ...

Select Kernel Installation & Distribution System Option: Utilities

          Build File Print
          Install File Print
          Convert Loaded Package for Redistribution
          Display Patches for a Package
          Purge Build or Install Files
          Rollup Patches into a Build
          Update Routine File
          Verify a Build
          Verify Package Integrity

Select Utilities Option: Build File Print
Select BUILD NAME: COMPUTERIZED PATIENT RECORD SYSTEM 1.0           COMPUTERIZED
PATIENT RECORD SYSTEM DEVICE: HOME//   VAX
```

Print Results of the Installation Process

Use the KIDS Install File Print option if you'd like to print out the results of the installation process.

```
DEVICE: HOME//   ANYWHERE
PACKAGE: COMPUTERIZED PATIENT RECORD SYSTEM 1.0     Jan 21, 1997 3:34 pm      PAGE 1
                                              COMPLETED           ELAPSED
-------------------------------------------------------------------------------
STATUS: Install Completed                 DATE LOADED: JAN 21, 1997@12:49:03
```

Other Kernel Print Options

Besides using the Kernel Installation & Distribution (KIDS) options to get lists of routines, files, etc., you can also use other Kernel options to print online technical information.

Routines

XUPRROU (List Routines) prints a list of any or all of the TIU routines. This option is found on the XUPR-ROUTINE-TOOLS menu on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: list Routines
Routine Print
Want to start each routine on a new page: No// [ENTER]

routine(s) ?   > TIU*
```

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (First Line Routine Print) to print a list of just the first line of each TIU subset routine.

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: First Line Routine Print
PRINTS FIRST LINES

routine(s) ?   >TIU*
```

Globals

```
Select Systems Manager Menu Option: programmer Options
Select Programmer Options Option: LIST Global
Global ^^PX*
```

XINDEX

XINDEX is a routine that produces a report called the VA Cross-Referencer. This report is a technical and cross-reference listing of one routine or a group of routines. XINDEX provides a summary of errors and warnings for routines that do not comply with VA programming standards and conventions, a list of local and global variables and what routines they are referenced in, and a list of internal and external routine calls.

XINDEX is invoked from programmer mode: D ^XINDEX.

When selecting routines, select OR* and OC*.

Data Dictionaries/Files

The number-spaces for CPRS files are 100-101 and 860-864. Use the VA FileMan DATA DICTIONARY UTILITIES, option #8 (DILIST, List File Attributes), to print a list of these files. Depending on the FileMan template used to print the list, this option will print out all or part of the data dictionary for the TIU files.

List File Attributes

The FileMan List File Attributes option [DILIST] lets you generate documentation about files and file structure. If you choose the "Standard" format, you can see the following Data Dictionary information for a specified file(s):

- File name and description.
- Identifiers.
- Cross-references.
- Files pointed to by the file specified.
- Files that point to the file specified.
- Input templates.
- Print templates.
- Sort templates.

Example

```
>D P^DI
VA FileMan 21.0
Select OPTION: DATA DICTIONARY UTILITIES
Select DATA DICTIONARY UTILITY OPTION: LIST FILE ATTRIBUTES
 START WITH WHAT FILE: 8925
                                        (1 entry)
      GO TO WHAT FILE: 8925// 8926*
Select LISTING FORMAT: STANDARD// [Enter]
DEVICE: PRINTER
```

In addition, the following applicable data is supplied for each field in the file: field name, number, title, global location, description, help prompt, cross-reference(s), input transform, date last edited, and notes.

The "Global Map" format of this option generates an output that lists all cross-references for the file selected, global location of each field in the file, input templates, print templates, and sort templates.

Inquire to Option File

The Kernel Inquire option [XUINQUIRE] provides the following information about a specified option(s):

- Option name
- Menu text
- Option description
- Type of option
- Lock (if any)

In addition, all items on the menu are listed for each menu option.

Glossary

ASU	Authorization/Subscription Utility, a utility that allows sites to associate users with user classes, allowing them to specify the level of authorization needed to sign or order specific document types and orderables.
ACTION	A functional process that a clinician or clerk uses in the List Manager computer program. “Edit,” “Create,” and “Find” are examples of actions.
ACTIVATE	To make an inactive window active by clicking anywhere in it.
AICS	Automated Information Collection System, formerly Integrated Billing; software developed at Albany IRMFO, supported by MCCR, producing scannable Encounter Forms.
ALERTS	Brief online notices that are issued to users as they complete a cycle through the menu system. Alerts are designed to provide interactive notification of pending computing activities, such as the need to reorder supplies or review a patient's clinical test results. Along with the alert message is an indication that the View Alerts common option should be chosen to take further action.
APPLICATION COORDINATOR (ADPAC)	A person at a hospital or clinic assigned to coordinate the ADP activities in a specific department. This person is usually a specialist in his department (e.g., a medical technologist or a pharmacist) first and the applications coordinator second.
APPLICATION PROGRAMMING INTERFACE (API)	Programmer calls provided for use by application programmers. APIs allow programmers to carry out standard computing activities without needing to duplicate Kernel utilities in their own packages. APIs also further DBA goals of system integration by channeling activities, such as adding new users, through a limited number of callable entry points.
BOILERPLATE TEXT	A pre-defined Progress Notes or Discharge Summary template containing standard text, with blanks to fill in for specific data about a patient.

BOOT To load instructions into main memory to get a computer operational.

CIO FIELD OFFICE Chief Information Office Field Office (formerly known as IRMFO: Information Resource Management Field Office (formerly ISC). **V***IST***A** has nine CIOFOs, each responsible for developing assigned application packages and for supporting the medical centers' VISNs within the IRMFO region.

CLIENT A single term used interchangeably to refer to the user, the workstation, and the portion of the program that runs on the workstation. In an object-oriented environment, a client is a member of a group that uses the services of an unrelated group. If the client is on a local area network (LAN), it can share resources with another computer (server).

CLIENT-SERVER ARCHITECTURE A Network consisting of a workstation (client) and a central computer holding the database, linked by TCP/IP.

CLINICIAN A doctor or other provider in the medical center who is authorized to provide patient care.

COMPONENT In Progress Notes, Components are "sections" or "pieces" of documents, such as Subjective, Objective, Assessment, and Plan in a SOAP Progress Components may have (sub)Components as items. They may have Boilerplate Text. Components may be designated SHARED.

CONSULTS A component or package of the CPRS (it can function as part of CPRS, independently as a standalone package, or as part of TIU). Consults are referrals of patients by the primary care physician to another hospital service/specialty, to obtain a medical opinion based on patient evaluation and completion of any procedures, modalities, or treatments the consulting specialist deems necessary to render a medical opinion. For instance, if a primary care physician orders a patient evaluation from Cardiology Service, and the cardiology specialist orders an Electrocardiogram (EKG) to complete the evaluation and provide an opinion concerning the patient's condition, this type of order is considered a "Consult."

CONTROL An object in a window on the screen which the user can cause action with visible results or change settings to modify a future action.

COTS	Commercial Off the Shelf ; products not developed by **V***IST***A**.
COVER SHEET	A screen of the CPRS patient chart which displays an overview of the patient's record, with tabs at the bottom representing components of a patient's chart.
CWAD	Crises, Warnings, Allergies/Adverse Reactions, and Advance Directives.
DISCHARGE SUMMARY	A discharge summary is a formal synopsis of a patient's medical care during a single hospitalization. It includes the pertinent diagnostic and therapeutic tests and procedures as well as the conclusions generated by those tests. A discharge summary is prepared for all discharges and transfers from a VA medical center or domiciliary or from nursing home care. The automated Discharge Summary module provides an efficient and immediate mechanism for clinicians to capture transcribed patient discharge summaries online, where they're available for review, signing, adding addendum, etc.
DLL	Dynamic Link Library. A DLL allows executable routines to be stored separately as files with a DLL extension. These routines are only loaded when a program calls for them. DLLs provide several advantages: 1. DLLs help save on computer memory, since memory is only consumed when a DLL is loaded. 2. DLLs ease maintenance tasks. Because the DLL is a separate file, any modifications made to the DLL will not affect the operation of the calling program or any other DLL. 3. DLLs help avoid redundant routines. They provide generic functions that can be utilized by a variety of programs.
EVENTS	An object-oriented term that represents user actions that a GUI application interface recognizes, such as a mouse click or pressing the down arrow key.
GUI	Graphical User Interface. A type of display format that enables users to choose commands, initiate programs, and other options by selecting pictorial representations (icons) via a mouse or a keyboard.

HEALTH SUMMARY	A **V***IST***A** product which can be viewed through CPRS. It includes snapshots of part or all of a patient's tests and results (based on how the site has it set up).
HL-7	Hospital Level 7, communications standards/protocols to link different computer systems together.
ICON	A picture or symbol that graphically represents an object or a concept.
IDCU	The Integrated Data Communications Utility which is a wide area network used by VA for transmitting data between VA sites.
IMAGING	A component of the patient chart; includes Radiology, X-rays, Nuclear Medicine, etc.
IRMS	Information Resource Management Service. A service at VA medical centers responsible for computer management and system security.
KERNEL DATA BROKER	See RPC Broker.
MODAL	A state or "mode" in which the user can only act or respond to a single dialogue box or window. You must select a response before you can exit or do anything else in the program.
MODELESS	The user is free to select and act in any window.
NAMESPACING	A convention for naming **V***IST***A** package elements. The Database Administrator (DBA) assigns unique character strings for package developers to use in naming routines, options, and other package elements so that packages may coexist. The DBA also assigns a separate range of file numbers to each package.
NOTIFICATIONS	Alerts regarding specific patients that appear on the CPRS patient chart.
OCIO	Office of the Chief Information Officer, located in Washington, D.C. All CIO Field Offices ultimately report to this entity, which is subordinate to the Office of the Undersecretary for Health.
OBJECT-BASED PROGRAMMING	Involves the use of components.

OBJECT-ORIENTED PROGRAMMING	Involves the creation of components. These components are self contained collections of data structures and routines that interact with other components or objects.
OE/RR	Order Entry/Results Reporting; a package developed to interface with all **V***IST***A** packages, now part of CPRS.
PATIENT POSTINGS	A component of the patient chart; includes messages about patient; an expanded version of CWAD (see above).
PCE	Patient Care Encounter; a **V***IST***A** program that's part of the Ambulatory Data Capture Project (ADCP), and also provides Clinical Reminders, which appear on Health Summaries.
PCMM	Patient Care Management Module, a **V***IST***A** product that manages patient/provider lists.
PROGRESS NOTES	The Progress Notes module of TIU is used by health care givers to enter and sign online patient progress notes and by transcriptionists to enter notes to be signed by caregivers at a later date. Caregivers may review progress notes online or print progress notes in chart format for filing in the patient's record.
REMOTE PROCEDURE CALL	A remote procedure call (RPC) is essentially some M code that may take optional parameters to do some work and then return either a single value or an array back to the client application.
RESOURCE	In **V***IST***A**, a method that enables sequential processing of tasks. The processing is accomplished with a RES device type designed by the application programmer and implemented by IRM. The process is controlled via the RESOURCE file (#3.54).
RPC BROKER	The RPC Broker acts as a bridge connecting the client application front-end on the workstation (e.g., Delphi GUI applications) to the M-based data and business rules on the server. It serves as the communications medium for messaging between VISTAclient/server applications.

RUBBER BAND JUMP	In roll and scroll mode of **V***IST***A**, a menu jump used to go out to an option and then return, in a bouncing motion. The syntax of the jump is two up-arrows followed by an option's menu text or synonym (e.g., ^^Print Option File). If the two up-arrows are not followed by an option specification, the user is returned to the primary menu (see Go-home Jump).
SEMI-MODAL	A window or dialogue box that will yield focus to the parent window for some limited processing. Typically, semi-modal dialogue boxes remain in the foreground even after yielding focus.
SERVER	The computer where the data and the Business Rules reside. It makes resources available to client workstations on the network. In **V***IST***A** , it is an entry in the OPTION file (#19). An automated mail protocol that is activated by sending a message to a server at another location with the "S.server" syntax. A server's activity is specified in the OPTION file (#19) and can be the running of a routine or the placement of data into a file.
TIU	Text Integration Utilities, a **V***IST***A** application interfacing with CPRS that manages document-oriented modules such as Progress Notes, Discharge Summary, and Consults.
USABILITY	The ease and comfort a program provides to people. Programs that are user-centered rather than machine or programmer-centered.
USER CLASS	The basic component of ASU (Authorization/ Subscription Utility). The User Class file contains the different categories of users within a hospital. ASU allows sites to designate who is authorized to do what.
USER-CENTERED	A program designed to match the way people do things

USER INTERFACE	The way the package is presented to the user, such as Graphical User Interfaces that display option prompts, help messages, and menu choices, the List Manager User Interface (described at the beginning of this manual), and the roll and scroll interface, the traditional **V***IST***A** terminal-based user interface.
VHA	Veterans Health Administration
VISN	Veterans Integrated Service Networks, geographic groupings of VA Medical Centers which together share resources and collaborate to maximize use of resources and efficiently meet the needs of veterans in their service areas.
V*IST***A**	VHA Information Systems & Technology Architecture, formerly DHCP (Decentralized Hospital Computer Program), the VA's comprehensive, integrated, medical center computer system. It consists of hardware, software packages, and comprehensive support for system-wide and station-specific, clinical and administrative automation needs.
WINDOW	An object on the screen that presents information such as a document or message.

Troubleshooting & Helpful Hints

CPRS Use of HL7

- Standard HL7 protocol is used, but not VA HL7 package.
- Package protocol links facilitate HL7 communications.
- HL7 messaging updates ancillary packages from CPRS and vice versa.
- If protocols are unlinked, status updates between packages will fail.
- HL7 is also used to update package orderables.

Protocol Linkage

- Each interfacing package has protocols that communicate with OE/RR.
- Order Communications via Protocols/HL7:
  - User places an order.
  - Order sent by CPRS to the receiving package.
  - The receiving package processes the order.
  - The receiving package sends a message to CPRS.

Multiple Sign-On

- Clinical staff may want to have both GUI CPRS and *VIST*A terminal sessions open.
- Single sign-on is available with Broker 1.1.
- PC must have broker client agent running.
- User enters Access/Verify only once for *VIST*A logon (via GUI or roll-and-scroll).
- It only works for Telnet-based roll and scroll sessions.
- Parameters control availability at system and user levels.

Resource Devices

CPRS adds four new resource devices:

- OR MOVEMENT RESOURCE
- ORB NOTIFICATION RESOURCE
- ORW THREAD RESOURCE
- ORW/PXAPI RESOURCE

Errors can cause resources to "plug." You should monitor resources using TaskMan. KERNEL tools "unplug" resources as shown in the example below.

```
Select Device Management Option: CLEAR ONE<Enter>Resource
Select RESOURCE NAME: HLCS RESO<Enter>URCE
Select SLOTS IN USE SLOT IN USE:  ?< <Enter>1
2
3
Select SLOTS IN USE SLOT IN USE: 1<Enter>
```

Use of KERNEL HFS Files

- CPRS uses host file capabilities to display V*IST*A reports in ListMan and GUI.
- HFS files require ZIS-related KERNEL patches (especially OpenM sites!).
- Ensure KERNEL parameter DEFAULT DIRECTORY FOR HFS is set appropriately.
- Ensure directory has read, write, and delete privileges enabled.

Time-Delay Order Issues

- Time delay orders for admission, transfer, or discharge are available.
- Time delay admission and transfer orders are based on treating specialty.
- If MAS Movement is entered with different specialty, orders will NOT release!
- Option exists to release or cancel time delay orders.
- Discharge medications release to pharmacy immediately.

GUI Debugging Tools

The main debugging tools that are built into the CPRS executable itself are:

1. **DEBUG command line parameter**—This uses the broker Debug property. If the keyword DEBUG is on the CPRS executable command line, it sets the debug property to true. This allows Customer Support to step through M code without accessing Delphi source code.
2. **Last Broker Call**—CPRS has a wrapper around the broker component. This is mostly so it can treat broker calls as functions and procedures that accept a variable number of parameters of any type. The call allows you to use strong typing on the Delphi side while eliminating the tedium of constant type conversions when calling the broker. This wrapper also logs broker calls, so that the user can step back and see the data that was exchanged in each call. The "wrapper" is part of CPRS, in the ORNet.pas unit.
3. **Show ListBox Data**—CPRS uses its own custom controls extensively. These controls allow you to store strings of information along with listbox items. This call will show the data "hidden" behind each listbox item.

These are the main things we use when debugging from within the CPRS executable itself. When debugging from the Delphi environment, where there is access to the source, we use the regular Delphi debugger. Sometimes we use some additional debugging tricks when debugging from the source code— like setting up timers to continuously display state information (a poor man's ZWATCH) or calls to the Windows function "OutputDebugString" (a poor man's ZWRITE).

Configuing the Client HOSTS File

The workstation can be configured in such a way that the client HOSTS file is not used for RPC Broker connections or other TELNET connections. Set up the WinNT or Win95/98 client as follows:

1. Right-click **Network Neighborhood Select Properties**.
2. Select the **Protocols tab**.
3. Highlight the **Network Protocol: TCP/IP Protocol**.
4. Select **Properties**.
5. Select the **DNS tab**.
6. In the Domain box enter the local **Bind Server Domain Name**, i.e. SiteName.MED.VA.GOV
7. In the DNS Service Search Order box, add the **Bind Server numeric address** as the top entry.
8. Remove any **existing entries** and add **entries** in the DNS search order appropriate for your site as stated in FORUM message Subj: VA Intranet Gateway Status [#25087701].
9. Click **Apply**.
10. Click **OK**.
11. Shutdown & Re-Start the client **workstation**.
12. Connect to **VISTA** via the terminal emulator you choose.

Most terminal emulators can be configured (with a macro) so that the Username prompt is stuffed with the appropriate Username and the end-user only sees the Access/Verify code prompt.

OE/RR Error File

ORERR Routine — Purpose

1. Log errors in the data stream without generating hard errors that would cause Users to be thrown off the system.
2. Puts the runtime information into a Fileman compatible file that support people can search with Fileman tools.

   DO ^ORERR(ORTYP,ORMSG,ORVAR)

   Where...

   ORTYP is copied verbatim into the 'ERROR TYPE' field.

   ORMSG either names the HL7 message array or is the HL7 message array

   ORVAR is an array that has as its subscripts the names of local variables that are to be saved in the error record. If the local variable named happens to be an array then the entire local array is saved.

```
Example 1: ORM+5  → I '$O(@ORMSG@(0)) D ^ORERR("Missing HL7 message",.ORMSG)
Q

Example 2: ORM+7  → I 'MSH D ^ORERR("Missing or invalid MSH segment",.ORMSG)
Q

Example 3: ORM+9  → I '$L(ORNMSP) D ^ORERR("Missing or invalid sending
application",.ORMSG) Q

Example 4: ORM+10  → D PID I '$G(ORVP) D ^ORERR("Missing or invalid patient
ID",.ORMSG) Q

Example 5: EN1+10^ORM. → S ORTN="EN^ORM"_ORNMSP D @ORTN
 (ORTN in this example is equal to 'ORMRA')

EN+1^ORMRA  →  I '$L($T(@ORDCNTRL)) S ORERR="Invalid order control code" Q
 (OOPS… ORDCNTRL has an invalid value so back to ^ORM)

EN1+11^ORM → D:$D(ORERR) ERROR K ^TMP("ORWORD",$J)
 (Error detected… Do error subroutine)

ERROR+2^ORM →  N ORV S ORV("XQY0")="" D ^ORERR(ORERR,.ORMSG,.ORV)

(While you're at it, save the value of 'XQY0', too…)
```

Troubleshooting, OE/RR Error Files, cont'd

The following appears in the OE/RR ERRORS (100.4) File after Example 5:

```
DATE/TIME: JUL 23, 1997@1024
ION: TNA:
DUZ: USER,TEST
ERROR TYPE: Invalid order control code
ERROR TEXT:   (word processing)
   HL7 Array:

   1: MSH|^~\&|LABORATORY|5000|||ORM
   2: PID||37|37;DPT(|APPLESEED,JOHNNY|
   3: PV1|I|1||||||||
   4: ORC|ZZTOP|10633^OR|1557;2970723;1^LRCH||IP||^^^19970723082138^||199707230817|
       5^USER,TEST|5^USER,TEST||19970723082138|
   5: OBR|1||84295.0000^Sodium^99NLT^176^SODIUM^99LRT||19970723082138|||O||19970
       723082235|0X500;SERUM;SNM;1;BLOOD  ;99LRS|||CH 0723

    Local Variables:

          XQY0: ORMGR^CPRS Manager Menu^^M^5^^^^^^^^^^1^1
```

Purposes of the Order Check Raw Data Log

1. To store samples of the raw HL7 data so any package that deals with HL7 can have a resource for troubleshooting problems.
2. To help establish a chronology of HL7 events for a particular patient or user.
3. To store sample of all raw data that passes through the expert system.

Elements of the Raw Data Log

A record from the ORDER CHECK RAW DATA LOG File (#861)…

```
TIMESTAMP: 19971104.084910        (Year Month Day '.' Hour Minute Second       When
the data was intercepted.)

DATA ARRAY NAME: ^TMP("HLS",$J,"PS")       (Variable name of the HL7 array.)

DATA:  ( The HL7 array data in a word processing field)

 MSH|^~\&|PHARMACY|5000|||ORR||||
 PID||66||ABC,PATIENT|||||||||
 PV1|I|14|||||||||719|||||||||||||||

ORC|OK|12378;1^OR|1038P^PS||IP|||19971104084903|1311^USER,TEST|1311^USER,TEST||^^99OR
N^^^|

PROCESS ID: 549463468    (Job Number of the job that was affected)

PATIENT: [66] ABC, PATIENT   ( [DFN] and  Name of the patient that was affected)

SOURCE: HL7        ( Source of the data. Currently 4 sources: ORERR, OREPS, DGPM
PATIENT MOVEMENTS, AND HL7.)

USER: [1311] USER,TEST    ([DUZ] and name of the user that was affected.)

VERSION: 3.0T14 released on: Oct 28, 1997  (Version of the expert system that was
running at the time)
```

Notifications Troubleshooting Guide

Problem: Why is a user not receiving a notification for patient Smith?

Solution: Follow the notification trouble-shooting flowchart below:

Is the Notification System Enabled?
Yes No [Enable it.]

Is TaskMan blocked by the ORB NOTIFICATION RESOURCE entry in the RESOURCE file?
Yes [D RELONE^XUDHRES to release it. Or delete all slots in use for the resource.] No

Determine Provider Recipients
Is the Provider Recipients parameter set up correctly for the notification?
Yes No [Set proper values.]

Display Notifications User Can Receive
Is the notification in question ON (Enabled)?
Yes No [Enable it.]

Display Patient Alerts and Alert Recipients
Look for the alert and display recipients for the related alert.
Did the user appear on the list of recipients?
Yes [They did receive the alert or the alert was reviewed and deleted by another user before this user saw the order.]
No [If the alert is order-related, note the order# (in brackets) of the alert. Look in the patient's chart for the order.]

If the notification requires an order#, enter the order # noted above.
Determine Recipients for a Notification
Did the user appear on the list of recipients?
Yes [Something may have changed since the original notification was triggered. Check team list membership, patient's providers or notification-related parameter values.]
No

Examine Notification Algorithm Source and Notifications – How It Works documents
How is the notification processed?

Expert System Rule (MLM)

1. Examine the related rule.
2. Search in Fileman for the ORDER CHECK RAW DATA LOG file for entries that trigger the rule.
   [e.g. SOURCE equals <DATA SOURCE from algo doc>
   PATIENT contains HOOD,ROBIN
   TIMESTAMP contains 19971106.]
3. Review related entries in ORDER CHECK COMPILER FUNCTIONS.

M Code

1. Examine related M code.
2. Ask pkg developer for assistance.

Notifications Troubleshooting, cont'd

Problem: The follow-up action for a notification is not working.

Solution: Follow the steps below:

1. Obtain an instance of the alert in question. You may want to ask a recipient of the alert to forward the alert to you via the View Alerts action.
2. Search in the Kernel Alert file for the entry corresponding to the alert.
   a. D ^%G
   b. ^XTV(8992,<DUZ>,"XQA",<date alert was triggered in FM format – e.g. 2971106:2971107>

   You should get strings that look something like this:

```
^XTV(8992,13,"XQA",2971105.115326,0) =
2971105.115326^OR,66,50;1311;2971105.115326^
ABC,PATIE (A4321): New order(s) placed.^^R^^NEWORD^ ORB3FUP1^^^^^1^1
^XTV(8992,13,"XQA",2971105.115326,1) = @OR|164V@PS
```

   In the 0 node, the important pieces are:

   2: XQAID^OR,<dfn>,<100.9 ien>;<triggering duz>;<alert fm d/t>

   3: alert message

   7: tag for follow-up action

   8: routine for follow-up action

   13: days before forwarding alert to user's mailman surrogate*

   14: days before forwarding alert to user's service/section chief (supervisor)*

   * forwarding alerts to surrogates/supervisors triggered via option XQALERT DELETE OLD

   The 1 node contains data which may or may not be used in the follow-up action.
3. Check the follow-up M code and data used to see if the follow-up action occurs properly.

Notifications Troubleshooting, cont'd

Problem: I cannot figure out what providers are linked to a patient via Teams.

Solution: D TPTPR^ORQPTQ1(.ORY,<dfn>) ZW ORY This will list all providers linked to the patient via Teams. [Hint: Look at the routine ORQPTQ1 for other entry points related to team lists and patient data.]

Problem: After an alert is processed, it goes away. Where does it go?

Solution: Kernel stores alerts that have been processed or deleted in the Alert Tracking file [^XTV(8992.1]. You can use FileMan to search or inquire regarding entries in this file. For a FileMan inquire you can enter the user's name, patient's name or FileMan date/time to obtain results.

Problem: The user had an alert but now it is gone and they did nothing to cause the alert to go away.

Solution: To clean up old alerts, sites should run the Kernel option XQALERT DELETE OLD on a daily basis. If the alert is older than the allotted number of days in the Kernel option, the alert would have been deleted. If the alert does not meet the criteria for Kernel option deletion, another user may have performed the action necessary to delete the alert. Check the parameter value for the alert to determine if it should be deleted for all recipients when one recipient performs the follow-up action or reviews the alert. This value is usually not changed by the site so review the value in the Notification Exported Default Values doc or after running FileMan in programmer mode check the value for OERR via the parameter editor.

```
D ^XPAREDIT
Select PARAMETER DEFINITION NAME:  ORB DELETE MECHANISM
Enter selection:  3 (Package [ORDER ENTRY/RESULTS REPORTING]
```

Problem: A user wants you to delete one or more alerts.

Solution: Give yourself the XQAL-DELETE key. Run the option XQALERT BY USER DELETE. You'll get a list of pending alerts for the user. Select those you wish to delete.

Notifications Troubleshooting, cont'd

Problem: I'm not getting notifications for some lab results.

Solution: Some lab tests are not meant to be resulted. This is indicated in the Lab test file (#60) and the Orderable Items file (#101.43). In both files there is a field called TYPE. The field in both files is a set of codes which indicates if the lab test is to be resulted or not. The codes consist of I:Input, O:Output, B:Both and N:Neither. If the TYPE for a lab test in the Lab file or Orderable Item file is set to "I" or "N," results will not be sent by lab. This may sometimes be set incorrectly and should be looked at when troubleshooting lab results-related notifications/alerts such as Lab Results, Abnormal Lab Results, Critical Lab Results, and STAT Results Available. If a lab results-related notification is not firing for a particular lab test, check the TYPE field for that test in the Lab Test and Orderable Items files. If it is "I" or "N" in either file, the results will not be posted via HL7 and the alert will not be sent.

Problem: None of our users are getting several notifications they should be getting. Are there any other reasons besides those listed above?

Solution: Check ORMTIME. ORMTIME is automatically scheduled once the Orders conversion is done. The following notifications/alerts are triggered via ORMTIME. If ORMTIME is not running/queued, they will not be sent.

- DNR Expiring
- Medications Expiring
- NPO Diet > 72 Hours
- Unverified Medication Order
- Unverified Order

Notification Recipient Determination

The OE/RR Notifications utility determines recipients of a patient's particular notification/alert in the following order:

1. Check the value of the parameter ORB SYSTEM ENABLE/DISABLE. If it is 'D'isabled, do not process or send any notifications. If it is 'E'nabled, process notifications as outlined below.
2. Get the default/regular recipients for this notification regardless of patient from the parameter ORB DEFAULT RECIPIENTS. Accessed via the Option ORB3 DEFAULT RECIPIENTS, teams or individuals can be set up to automatically always get a notification. If a team is identified, every user on that team (regardless of other parameter, option settings), will receive the notification/alert. Good uses of this parameter include troubleshooting notifications and delivering the Food/Drug Interaction notification [for all patients] to a team of dietitians.
3. Obtain the default/regular device recipients for this notification regardless of patient from the parameter ORB DEFAULT DEVICE RECIPIENTS. Accessed via the Option ORB3 DEFAULT DEVICE RECIPIENTS, one or more devices can be set up to automatically always get a notification. The device may be a printer, file or any other device defined at the site. This is useful if every instance of an alert across all patients is desired for QA, JCAHO or research purposes.
4. Additional potential recipients are obtained from:
   a. A recipient list identified by the service triggering the alert. For example, Radiology sends OE/RR Notifications a list of potential recipients when its STAT Imaging Request notification is triggered.
   b. Provider-related recipients indicated in the parameter ORB PROVIDER RECIPIENTS. Accessed via the Option ORB3 PROVIDER RECIPIENTS, the Primary provider, Attending physician, patient care Teams, or Ordering/requesting provider can be set to receive a notification. If set for Teams, all teams to which the patient belongs will be evaluated to obtained potential recipients. If set for Orderer and an order number is passed by the service triggering the alert, the ordering/requesting provider will be determined and added to the potential list. In addition, if the Orderer does not have signature authority (does not hold the ORES key) and the notification either Order Requires Electronic Signature or Order Requires Co-signature, the teams to which the Orderer belongs will be evaluated and every user on those teams (which also include the patient), will be added to the potential recipient list.

Notifications Troubleshooting, cont'd

5. Each user on the potential recipient list is evaluated according to values set for entities identified in the parameter ORB PROCESSING FLAG. These entity values are accessed via the Option ORB3 PROCESSING FLAG also called Enable/Disable Notifications. These entity values are processed in the following order to determine if that particular user should receive the notification/alert or not. *The first condition met stops the processing and determines whether or not the user will receive the notification*. Processing order:

   a. If the USER's value for the notification is set to Mandatory or Enabled, the user will receive the notification.

   b. If the user's TEAM value for the notification is set to Mandatory, the user will receive the notification.

   c. If the user's SERVICE/SECTION value for the notification is set to Mandatory, the user will receive the notification.

   d. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is set to Mandatory, the user will receive the notification.

   e. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is set to Disabled, the user will NOT receive the notification.

   f. If the user's DIVISION value for the notification is set to Mandatory, the user will receive the notification.

   g. If the SYSTEM value for the notification is set to Mandatory and DIVISION has no value, the user will receive the notification.

   h. If the PACKAGE (OERR-exported) value for the notification is set to Mandatory and SYSTEM and DIVISION have no value, the user will receive the notification.

   i. If the USER's value for the notification is set to Disabled, the user will NOT receive the notification.

   j. If the user's TEAM value for the notification is set to Disabled, the user will NOT receive the notification.

   k. If the user's SERVICE/SECTION value for the notification is set to Disabled, the user will NOT receive the notification.

   l. If the user's DIVISION value for the notification is set to Disabled, the user will NOT receive the notification.

   m. If the SYSTEM value for the notification is set to Disabled and DIVISION has no value, the user will NOT receive the notification.

   n. If the PACKAGE (OERR-exported) value for the notification is set to Disabled and SYSTEM and DIVISION have no value, the user will NOT receive the notification.

   o. If none of the above parameter values are found, the notification is processed as Disabled and the user will NOT receive the notification.

Notifications Troubleshooting, cont'd

Notification	Expert Rule (Mlm)	M Code	Data Source
ABNORMAL IMAGING RESULTS		Radiology Pkg	Radiology Pkg
ABNORMAL LAB RESULTS (ACTION)	ABNORMAL LAB RESULTS		HL7
ABNORMAL LAB RESULT (INFO)	ABNORMAL LAB RESULTS		HL7
ADMISSION	PATIENT ADMISSION		DGPM
CONSULT/REQUEST CANCEL/HOLD		Consults Pkg	Consults Pkg
CONSULT/REQUEST RESOLUTION		Consults Pkg	Consults Pkg
CRITICAL LAB RESULT (INFO)	CRITICAL HIGH/LOW LAB RESULTS		HL7
CRITICAL LAB RESULTS (ACTION)	CRITICAL HIGH/LOW LAB RESULTS		HL7
DECEASED PATIENT		NOTE^ORX3	MAS protocols, fields
DISCHARGE	PATIENT DISCHARGE		DGPM
DNR EXPIRING		EXPIR^ORB31	ORMTIME (TaskMan)
ERROR MESSAGE		^OCX RTNS	Expert System
FLAGGED ORDERS	ORDER FLAGGED FOR CLARIFICATION		OERR
FOOD/DRUG INTERACTION	FOOD/DRUG INTERACTION		HL7
IMAGING PATIENT EXAMINED		Radiology Pkg	Radiology Pkg
IMAGING REQUEST CANCEL/HELD	IMAGING REQUEST CANCELLED/HELD		HL7
IMAGING REQUEST CHANGED		Radiology Pkg	Radiology Pkg

Notification	Expert Rule (Mlm)	M Code	Data Source
IMAGING RESULTS		Radiology Pkg	Radiology Pkg
IMAGING RESULTS AMENDED		Radiology Pkg	Radiology Pkg
LAB ORDER CANCELED	LAB ORDER CANCELLED		HL7
LAB RESULTS	LAB RESULTS		HL7
MEDICATIONS EXPIRING		EXPIR^ORB31	ORMTIME (TaskMan)
NEW ORDER	NEW ORDER PLACED		HL7
NEW SERVICE CONSULT/REQUEST		Consults Pkg	Consults Pkg
NPO DIET MORE THAN 72 HRS		NPO^ORB31	ORMTIME (TaskMan)
ORDER CHECK		EN^ORKCHK	Order Checking
ORDER REQUIRES CHART SIGNATURE	ORDER REQUIRES CHART SIGNATURE		OERR
ORDER REQUIRES CO-SIGNATURE	ORDER REQUIRES CO-SIGNATURE		OERR
ORDER REQUIRES ELEC SIGNATURE	ORDER REQUIRES ELECTRONIC SIGN.		OERR
ORDERER-FLAGGED RESULTS	ORDERER FLAGGED RESULTS AVAILABLE		OERR
SERVICE ORDER REQ CHART SIGN	SERVICE ORDER REQUIRES CHART SIGN.		OERR
SITE-FLAGGED ORDER	SITE FLAGGED ORDER		HL7
SITE-FLAGGED RESULTS	SITE FLAGGED RESULT		HL7
STAT IMAGING REQUEST		Radiology Pkg	Radiology Pkg

Notification	Expert Rule (Mlm)	M Code	Data Source
STAT ORDER	STAT ORDER PLACED		HL7
STAT RESULTS	STAT RESULTS AVAILABLE		HL7
TRANSFER FROM PSYCHIATRY	PATIENT TRANSFERRED FROM PSYCH.		DGPM
UNSCHEDULED VISIT		NOTE^ORX3	MAS protocols, fields
UNVERIFIED MEDICATION ORDER		UNVER^ORB31	ORMTIME (TaskMan)
URGENT IMAGING REQUEST		Radiology Pkg	Radiology Pkg

Order Checking Troubleshooting Guide

Problem: Not getting order checks

Trouble-shooting Flowchart

Is the OC System Enabled?
Yes — No [Enable it.]

Display OCs User Can Receive
Is the OC in question ON (Enabled?)
Yes — No [Enable it.]

Examine OC Log File for Related Entries
Is message logging enabled?
Yes — No [Enable it. You must wait until after an order check has been triggered again to log an entry.]

D ^%G
^XTMP("ORKLOG",<date range>,<patient id>
e.g. (^XTMP("ORKLOG",2971106:2971107,16)
Is there a related order check?
Yes [If an entry matches that patient, oc and user, then for some reason, OERR did not display the message.] — No

Examine OC Algorithm Source
How is the OC processed?

Expert System Rule (MLM)
1. Examine the related rule.
2. Search the ORDER CHECK RAW DATA LOG file for entries that trigger the rule: SOURCE equals OEPS PATIENT contains HOOD,ROBIN TIMESTAMP contains 19971106.
3. Review related entries in ORDER CHECK COMPILER FUNCTIONS.
4. Check linkages used in OC Term Lookup.

M Code
1. Determine main routine for OC's mode.
2. Examine related M code.
3. Re-examine ^XTMP("ORKLOG" for entries/data used in the M code.
4. Test by plugging data from ^XTMP log file into M code.

Order Checking Troubleshooting, cont'd

Problem: Not getting expected order checks.

Possible Reasons:

1. Orderer does not select a dispense drug when ordering a medication. Critical drug interactions, duplicate drug and duplicate drug class order checks will not occur.
2. Orderer places an order for an IV solution. Duplicate drug order check will not occur.
3. During recompilation of the CPRS Expert System rules, expert system-based order checks will not occur.
4. If the CPRS Expert System encounters an error, expert system-based order checks will not occur.
5. Ordered medication does not have a corresponding entry (pointer) in the Nat'l Drug File. Drug-allergy interaction order check will not occur.
6. Ordered lab procedure does not have an entry in the Lab file [#60] MAX. ORDER FREQ. field (under the COLLECTION SAMPLE multiple). The Maximum Order Frequency portion of the Lab Order Freq Restrictions order check will not occur.
7. Ordered lab procedure does not have an entry in the Lab file [#60] SINGLE DAY MAX ORDER FREQ field (under the COLLECTION SAMPLE multiple). The Single Day Maximum Order Frequency portion of the Lab Order Freq Restrictions order check will not occur.
8. Ordered lab procedure has entries in the Lab file [#60] for both MAX. ORDER FREQ. and SINGLE DAY MAX ORDER FREQ fields (under the COLLECTION SAMPLE multiple). The Single Day Maximum Order Frequency portion of the Lab Order Freq Restrictions order check will not occur.

Order Checking Troubleshooting, cont'd

Problem: Not getting expected order checks, cont'd

Possible Reasons: cont'd

9. Local terms at site not linked (or linked incorrectly) to Nat'l CPRS Expert System terms. See instructions.

Nat'l Expert System Term	Linked File	Order Check
SERUM CREATININE	LAB [60]	AMINOGLYCOSIDE ORDERED
		BIOCHEM ABNORMALITY FOR CONTRAST MEDIA
		ESTIMATED CREATININE CLEARANCE
		RENAL FUNCTIONS OVER AGE 65
SERUM UREA NITROGEN	LAB [60]	AMINOGLYCOSIDE ORDERED
		BIOCHEM ABNORMALITY FOR CONTRAST MEDIA
		ESTIMATED CREATININE CLEARANCE
		RENAL FUNCTIONS OVER AGE 65
ANGIOGRAM,CATH – PERIPHERAL	OI [101.43]	MISSING LAB TESTS FOR ANGIOGRAM PROCEDUR
PROTHROMBIN TIME	OI [101.43]	MISSING LAB TESTS FOR ANGIOGRAM PROCEDUR
THROMBOPLASTIN TIME PARTIAL	OI [101.43]	MISSING LAB TESTS FOR ANGIOGRAM PROCEDUR
WHITE BLOOD COUNT (WBC)	LAB [60]	CLOZAPINE APPROPRIATENESS
BLOOD SPECIMEN	TOPOG [61]	CLOZAPINE APPROPRIATENESS

Order Checking Troubleshooting, cont'd

Nat'l Expert System Term	Linked File	Order Check
SERUM SPECIMEN	TOPOG [61]	AMINOGLYCOSIDE ORDERED
		BIOCHEM ABNORMALITY FOR CONTRAST MEDIA
		ESTIMATED CREATININE CLEARANCE
		RENAL FUNCTIONS OVER AGE 65

Order Checking and OE/RR Dialogs

Mechanism

1. OE/RR calls EN^ORKCHK at the trigger events.
   a. Routines which call EN^ORKCHK: ORCDLG, ORCDPS, ORCMENU1
   b. Events:
      - Ordering dialog/display
      - Orderable item selection
      - Order acceptance
      - Ordering session completion
      - Special events:
        - Delayed/time-release orders initiated
        - Orders Renewed or Edited
        - Orders signed in a later session (delayed signature)
2. EN^ORKCHK Parameters:
   a. Array of return messages in format: order number^order check ien[#100.8]^clinical danger level^message
      - return array will be sorted by clinical danger level, order number, then sequence processed
      - clinical danger levels are expressed as integers: 1 = High, 2 = Moderate, 3 = Low
      - DISPLAY mode order checks return a clinical danger level of “’ (null)
   b. Patient dfn
   c. Array of ordering information in format: orderable item ien|filler application (PS, RA, FH, LR, etc.)|nat’l id^nat’l text^nat’l coding system^local id^local text^local coding system|order effective date/time|order number|filler-specific data

      Filler -specific data:

      LR: specimen of the lab test ordered in the format: ien of Topography (specimen) file [^LAB(61,]

      PS: medications ordered during this session in the format: med1^med2^med3^…
   d. Mode/event trigger (DISPLAY,SELECT,ACCEPT,SESSION,NOTIF,ALL)

Order Checking Troubleshooting, cont'd

Order Checking and OE/RR Dialogs, cont'd

3. Event Examples (this example covers the List Manager interface, a similar process will occur in the GUI where the ORK TRIGGER remote procedure call will be invoked):

   a. DISPLAY example:

      S OCINFO(1)="|PS||||"

      S OCINFO=1

      D EN^ORKCHK(.RTN,1234,.OCINFO,"DISPLAY")

Order Checking and OE/RR Dialogs, cont'd

   b. SELECT example:

```
                    S OCINFO(1)="1385|PS|576.4^DIGOXIN 0.5MG
TAB^99NDF^4213^DIGOXIN 0.5MG TAB^99PSD|||"
                    S OCINFO=1
                    D EN^ORKCHK(.RTN,1234,.OCINFO,"SELECT")
```

   c. ACCEPT example:

```
                    S OCINFO(1)="1385|PS|576.4^DIGOXIN 0.5MG
TAB^99NDF^4213^DIGOXIN 0.5MG TAB^99PSD |2960229.103021||"
                    S OCINFO=1
                    D EN^ORKCHK(.RTN,1234,.OCINFO,"ACCEPT")
                    * order d/t not available for PS orders due to PS restrictions
```

   d. SESSION example:

```
                    S OCINFO(1)="1385|PS|576.4^DIGOXIN 0.5MG
TAB^99NDF^4213^DIGOXIN 0.5MG TAB^99PSD |2960229.103021|4332|"
                    S OCINFO(2)=" 2244|PS|355.2^PENICILLIN 250MG
TAB^99NDF^1334^PENICILLIN 250MG TAB^99PSD |2960229.103151|4333|med1"
                    S OCINFO(3)="57|RA|71020^CHEST X-RAY^CPT4^58^Chest
2 views PA&LAT^99RAP|2960229.103410|4334|"
                    S
OCINFO(4)="2730|LR|84330.0000^^NLT^175^GLUCOSE^99LRT| 2970211.1601|8119|72"
                    S OCINFO=4
                    D EN^ORKCHK(.RTN,1234,.OCINFO,"SESSION")
```

   e. NOTIF (delayed/time release orders) example:

```
                    S OCINFO(1)="1385|PS|576.4^DIGOXIN 0.5MG
TAB^99NDF^4213^DIGOXIN 0.5MG TAB^99PSD |2960229.103021|4332|"
                    S OCINFO=1
                    D EN^ORKCHK(.RTN,1234,.OCINFO,"NOTIF")
```

   f. ALL (renew, edit and signature delayed orders) example:

```
                    S OCINFO(1)="1385|PS|576.4^DIGOXIN 0.5MG TAB^99NDF^4213^DIGOXIN
0.5MG TAB^99PSD |2960229.103021||"
                    S OCINFO=1
                    D EN^ORKCHK(.RTN,1234,.OCINFO,"ALL")
```

Order Checking and OE/RR Dialogs, cont'd

4. For each member of the order information array:
   a. Initiate non-MLM order checks designated as appropriate for that mode/event trigger
   b. Initiate MLM order checks designated as appropriate for that mode/event trigger (each MLM created for order checking will have a mode/event trigger data element indicating when the MLM is to be processed)

Order Checks Categorized by Event:

1. Ordering dialog/display - including
   - Estimated creatinine clearance, for patients <50 [MLM]
   - Order checking not available/supported
   - Renal functions for patients over 65 [MLM]
   - Polypharmacy [MLM]
2. Orderable item selection
   - Duplicate drug orders (against existing meds)
   - Duplicate drug class orders (against existing meds)
   - Critical drug interactions (against existing meds)
   - Clozapine appropriateness [MLM]
   - Allergy-contrast media interactions [MLM]
   - Physical limitations for CT and MRI scanners [MLM]
   - Biochem abnormality for contrast media [MLM]
   - Glucophage-contrast media interaction [MLM]
   - Dispense drug not selected
   - Recent barium study [MLM]
3. Order acceptance (includes checks where time is a factor in reducing false positives)
   - Duplicate orders (non-med)
   - Allergy-drug interactions
   - Recent oral cholecystogram [MLM]
   - Lab order frequency restrictions

Order Checking and OE/RR Dialogs, cont'd

4. Ordering session completion
   - Aminoglycosides [MLM]
   - Labs req'd with radiology orders [MLM]
   - Duplicate drug orders (against meds placed in same session)
   - Duplicate drug class orders (against meds placed in same session)
   - Critical drug interactions (against meds placed in same session)

Order Checking Dialog and Override Mechanism:

1. List of Order Check messages presented to user sorted by clinical danger level
2. Based on the Order Check's clinical danger level and user's OE/RR 2.5 elec signature key:
   a. User holds OREMAS key:
      - Process without prompting for justification but allow them to 'Cancel' or 'OK' the order.

   b. User does not hold OREMAS key and clinical danger level is '2' (Moderate) or '3' (Low):
      - Process without prompting for justification but allow them to 'Cancel' or 'OK' the order.

   c. User does not hold OREMAS key and clinical danger level is '1' (High):
      - Prompt for justification by prompting to 'Cancel' or 'Override'. If select 'Override', prompt for justification (allow selection from a list or to enter free text). If a justification is entered, allow them to 'Cancel' or 'OK'.
3. Order check messages and any accompanying over-ride justifications are sent with the order to the filling package and are displayed in the order's detailed display. If the clinical danger level for an order check message is "High" (value of '1'), the order check message and justification are stored in the Order file [#100] under the '9' node.

FAQs (Frequently Asked Questions)

These frequently-asked questions are based on questions received from CPRS test sites.

Q. What is the relationship between OE/RR and CPRS? I sometimes hear references to OE/RR 3.0 and much of the CPRS package just seems to be an enhanced OE/RR 2.5.

A. This distinction does get fuzzy at times. CPRS is the umbrella package for a much more comprehensive suite of software. OE/RR 3.0 is a component of CPRS, and can't be used outside of CPRS. Many of the packages contained within CPRS still have independent lives, for use by their services for administrative and other purposes, and occasionally to add and review orders (known as "backdoor" ordering). The CPRS documentation set mainly documents the OE/RR portion of CPRS (files and routines in the OR, OEX, and XPAR namespaces).

Q. How do sites handle document verification (nurse and clerk)? Do they still print 24-hour summaries, chart copies, etc. for nurses and clerks to initial? How would they know, otherwise, what's been done?

A. West Palm Beach requires online verification. Nurses do the majority of the verification, and they do this online, periodically throughout the day, at designated workstations on the wards or clinics. Some copies are printed and put in the chart for contingencies and backup, but basically, it is a paperless system.

Q. What are the benefits of a GUI over the traditional **V***IST***A** programs or the List Manager version of CPRS?

A. A Windows-type environment (GUI) allows you to do many things easier and more efficiently. The visibility and accessibility of many components of a patient record allow you to move among them more freely to review and link data. You can choose your own workflow rather than having it dictated by the computer in a sequential way. Sometimes, the traditional roll-and-scroll and List Manager have advantages. For straightforward data entry, these methods can be faster and less complex.

FAQs, cont'd

Q. When I write an order for digoxin and quinidine at the same time, the order check does not seem to take place until after it would with an order check between a new med and an old one. Did I understand that correctly?

A. Your observations are correct regarding the order checking against new meds vs. old meds. Almost all medication-related order checks are performed by querying the pharmacy package. During the ordering process, pharmacy doesn't know about the meds placed during the ordering session. Meds are not "released" to the pharmacy service until they have been signed so checks between meds placed in the session cannot occur. Checks against meds already released to Pharmacy occur within the ordering process. Being unable to check against meds placed in a session was not acceptable so we devised a method where at the end of the ordering session all meds placed during the session are passed to the pharmacy package and they perform the med vs. med checks as if the patient were already receiving them. We waited until after the session is completed (just before electronic signature), because order checks are fairly resource-intensive and this approach minimizes the delays between prompts.

Q. You used to be able to get a readout for lab alerts. Now, I get "abn: ldl 160" and that's it, not the whole lipid profile. Plus, you can't get into the lab/note file without re-entering the patient name.

A. The way lab results (abnormal/critical) are displayed in the View Alerts list has been changed. In the old version, they required you to select the alert (a follow-up action) which displayed the abnormal/critical results along with other results associated with that lab order. In CPRS, each abnormal/critical lab result has its own alert, including abbreviated lab test name and result value but without the follow-up display of other associated results. There were many requests for this change from OE/RR 2.5 users. We hope you can get used to it and in the end find it to be better.

You can set yourself up to get a Lab Results alert that will display all lab results for a lab order. This alert is not given to everyone because it triggers with every lab result and can be a great annoyance. In CPRS, you have more flexibility to turn notifications on or off and at different levels—site, division, service, or by user).

FAQs, cont'd

Q: Why don't I get notifications for some lab results?

A: Some lab tests are not meant to be resulted. This is indicated in the Lab test file (#60) and the Orderable Items file (#101.43). In both files there is a field called TYPE. The field in both files is a set of codes which indicates if the lab test is to be resulted or not. The codes consist of I:Input, O:Output, B:Both and N:Neither. If the TYPE for a lab test in the Lab file or Orderable Item file is set to "I" or "N," results will not be sent by lab. This may sometimes be set incorrectly and should be looked at when troubleshooting lab results-related notifications/alerts such as Lab Results, Abnormal Lab Results, Critical Lab Results, and STAT Results Available. If a lab results-related notification is not firing for a particular lab test, check the TYPE field for that test in the Lab Test and Orderable Items files. If it is "I" or "N" in either file, the results will not be posted via HL7 and the alert will not be sent.

Notes on Notifications and Order Checks

☞ **NOTE:** **All alerts and order checks are a nuisance to some and a benefit to others. That is why they were designed with the flexibility to enable or disable them at many different levels.**

☞ **NOTE:** **Try disabling the objectionable order checks at the patient location level. The check will not be displayed for patients in that location (inpatient only) unless the user specifically has the order check enabled.**

☞ **NOTE:** **Another approach would be to disable the order check for your site (VAMC level) then enable it for the locations or users where the check is desired. You can also screen (enable or disable) order checks based on the user's service/specialty.**

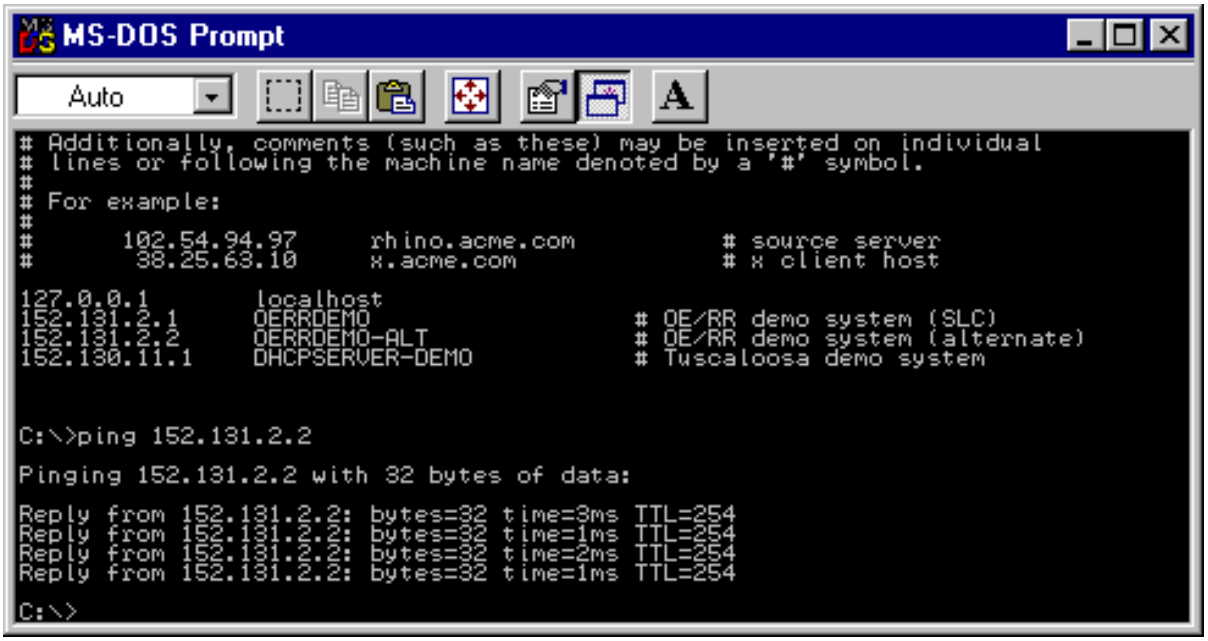
☞ **NOTE:** **For order checks, the order of precedence when determining if order check should be performed or not is USER -> PT LOCATION -> SERVICE -> VAMC. The user's level has priority over patient location which priority over the user's service/ specialty and so on. If a value does not exist for the user (they have not enabled or disabled the order check), the software looks up the chain for a value at the patient location level. The software looks up the chain until a value is found. If nothing exists for the VAMC, a value released with CPRS is used.**

☞ **NOTE:** **While notifications use a similar hierarchy for determining whether or not an alert should be sent, it is more complicated because a notification/alert can be set to "mandatory." A value of "mandatory" overrides most other values for that notification/alert.**

Server Access

Problem: Setting up or accessing a server

Solution: Use PING to test access.




```
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#    102.54.94.97        rhino.acme.com      # source server
#     38.25.63.10        x.acme.com          # x client host
127.0.0.1          localhost
152.131.2.1        OERRDEMO            # OE/RR demo system (SLC)
152.131.2.2        OERRDEMO-ALT        # OE/RR demo system (alternate)
152.130.11.1       DHCPSERVER-DEMO     # Tuscaloosa demo system

C:\>ping 152.131.2.2

Pinging 152.131.2.2 with 32 bytes of data:

Reply from 152.131.2.2: bytes=32 time=3ms TTL=254
Reply from 152.131.2.2: bytes=32 time=3ms TTL=254
Reply from 152.131.2.2: bytes=32 time=3ms TTL=254
Reply from 152.131.2.2: bytes=32 time=3ms TTL=254

C:\>
```

Appendix A - CPRS Package Security

CPRS security is maintained through security keys, menu assignment, and VA FileMan protection.

Security Keys

- ORES
- ORELSE
- OREMAS

Do not assign more than one of the ORES, ORELSE, or OREMAS keys per user.

ORES Key

- Assigned to users authorized to write and sign orders
- Typically assigned to licensed physician
- Allows holders to electronically sign orders; available to service immediately

ORELSE Key

- Assigned to users authorized to release physician's orders
- Typically assigned to RNs
- Releases orders to service for immediate action

OREMAS Key

- Assigned to users authorized to release patient orders as signed on chart
- Typically assigned to Ward Clerks
- Releases orders to service for immediate action

Assigning Keys

Below is one way to assign keys using the Clinical Coordinator menu. Remember that this should be done when creating or editing a user.

You must have Clinical Coordinator access to assign keys.

1. In the appropriate account, bring up the Clinical Coordinator menu by typing **ORCL MENU** and pressing **<Enter>**.
2. Choose CPRS Configuration (Clin Coord) … by typing **PE** and **<Enter>.**
3. Choose Allocate OE/RR Security Keys by typing **AL** and **<Enter>**.
4. Locate the key you want to assign (ORES, ORELSE, or OREMAS). To advance to the next key, type N and <Enter> at the Edit Holders: prompt.
5. When you locate the key you want to assign, at its Edit Holders prompt select **Y** and press **<Enter>**.
6. At the Select HOLDER: prompt, type the name of person to whom you will give the key and press **<Enter>**.
7. To give the key to additional users, continue typing the users' names and pressing <Enter>.
8. When finished giving keys, press <Enter> at the Select HOLDER prompt to exit.
9. If necessary, type N and press <Enter> at the Edit Holders prompt to exit the Allocate OE/RR Key option.

Example of giving keys

```
Select OPTION NAME: ORCL MENU       Clinical Coordinator's Menu     menu

Select Clinical Coordinator's Menu Option: PE  CPRS Configuration (Clin Coord)

Select CPRS Configuration (Clin Coord) Option: AL  Allocate OE/RR Security Keys

KEY: ORES

This key is given to users that are authorized to write orders in
the chart.  Users with this key can verify with their electronic
signature patient orders.

This key is typically given to licensed Physicians.

Orders entered by users with this key can be released to the ancillary
service for immediate action.

DO NOT give users both the ORES key and the ORELSE key.

Edit Holders? Yes// <Enter>   (Yes)

Select HOLDER: WELBY,MARCUS
               Added.

Select HOLDER: <Enter>
==============================================================================
KEY: ORELSE

This key is given to users that are authorized to release doctors
orders to an ancillary service for action.

This key is typically given to Nurses.
Users with this key are allowed to put verbal orders in the system
and release them to the service for action.


DO NOT give users both the ORES key and the ORELSE key.

Edit Holders? Yes// <Enter>  (Yes)

Select HOLDER: NURSE,BONNIE         BC
                Added.

Select HOLDER: <Enter>
==============================================================================

KEY: OREMAS

This is the key given to MAS Ward Clerks.  It allows the user to
specify patient orders as 'signed on chart' when entered, which
releases the orders to the service for action.  Users with this
key are not allowed to put verbal orders in the system.

Edit Holders? Yes// Y  (Yes)

Select HOLDER: WINTERTON,STEVEN B.         SBW
               Added.

Select HOLDER: <Enter>
==============================================================================
```

CPRS Tab Access and Reports-Only Access

To use the CPRS GUI, each user now must be given access to a specific tab or set of tabs. If tabs are not assigned to the user in their NEW PERSON file or if the RESTRICT PATIENT SELECTION prompt does not contain a Yes or No, the CPRS GUI will abort when the user tries to login. This change is part of the Read-Only project and will give sites greater control over who has access to patient records during what time period and is in anticipation of further enhancements to CPRS.

Note: Post-install code contained in a patch should set the "RESTRICTED PATIENT SELECTION" entry to "N" for all current CPRS GUI users, and create a default "COR" tab entry for them as well so that their access remains the same.

After the post-install routine has run, each time a new user is added to the system or if restricted access is needed for existing users, a Clinical Application Coordinator (CAC) or whoever is responsible for granting access to the CPRS GUI at each site will have to assign the appropriate access. The settings to choose from are

```
COR        All current CPRS GUI tabs
RPT        Reports tab
```

Sites can give a user COR, RPT, or both. Normally, one would expect that only one of these would be given. However, a great deal of flexibility has been built into the system. The following table shows what one can expect from the combinations of settings.

Restrict Patient List?	OE/RR Team List	Tabs Assigned	Result
Left blank	None	None	No access to the CPRS GUI
Left blank	XYZ Team	None	No access to the CPRS GUI
Left blank	XYZ Team	RPT	No access to the CPRS GUI
Yes	None/invalid	RPT	No access to the CPRS GUI
Yes	XYZ Team	RPT	• User can access only the CPRS GUI Reports tab. • Patient Selection only options under the Tools | Options. • User can select patients from the assigned team list.
No	XYZ Team	RPT	• User gets access to the Reports tab only. • The full patient list is available.
No	N/A	COR, RPT	User sees all tabs and can access all patients
Yes	N/A	COR, RPT	User sees all tabs and can access all patients
Yes	N/A	COR	User sees all tabs and can access all patients
No	N/A	COR	User sees all tabs and can access all patients
Left blank	N/A	COR	No access to the CPRS GUI
Left blank	N/A	COR, RPT	No access to the CPRS GUI

Although these are the possible combinations, the most common combinations envisioned for these settings are

- no restrictions on the patient list and core access, or
- a restricted patient list with a defined patient selection list and the reports only tab.

Note: If tab access is given for both COR and RPT with concurrent effective dates, the core tab access overrides the reports only access.

How Sites Can Restrict Access

Even with core access, sites can use the effective and expiration dates to control access to CPRS GUI. A CAC can assign the user core access for a specific period of time that the user will be at the site. Later, if access is needed again, the CAC can edit the existing entry to change the dates or leave that entry as a record and create a new tab access entry for the same tab with new dates. The user then has access to all CPRS GUI tabs and the full patient list for the period of time during which access is granted. To create a duplicate entry of the same tab, the user must select "No" when prompted for the new entry on a blank line.

Restricting core access by dates might be helpful if the CAC knows that a user will do a 90-day rotation. The CAC can set the user up to have core access for the period of time the user will be at the facility using the effective (or starting) date and the expiration date. Currently, an effective date is required for tab settings, but the expiration date is not.

However, of the two, read-only access is the more anticipated. Granting read-only access to CPRS involves assigning the reports tab only. In addition, the user can be assigned a restricted patient list, which is a previously created list in the OE/RR LIST FILE (#100.21). The purpose of this feature is to allow non-clinical users, such as veterans service organizations (VSOs) or others who need to review the chart, to have access to the chart without being able to view the whole chart or make any changes to the chart. Setting the tab and a restricted list would allow these individuals to view only the reports tab of those patients they are assigned.

Technical Information

Kernel patches, XU*8*214 and XU*8*230, provide several new fields in the NEW PERSON (#200) file for the following:

- Whether the user's access is restricted – RESTRICT PATIENT SELECTION (#101.01)
- Which restricted patient list (team list) the user is assigned – PATIENT SELECTION LIST (#101.02)
- Which tabs the user has been given access to and the dates – CPRS TAB (#101.13 multiple)

Within the CPRS TAB (#101.13) multiple, is the CPRS TAB (#.01) field which is a pointer to the new OR CPRS TABS (#101.13) file. Additional fields within the CPRS TAB (#101.13) multiple are EFFECTIVE DATE (#.02) and EXPIRATION DATE (#.03). The entries are made through the Clinical Coordinator menu using the GUI Access – Tabs, PL [ORCL CPRS ACCESS] option. In connection with the "Read Only" functionality, the Patient List utilized, which is based on an OE/RR LIST, is stored, displayed, scrolled, and refreshed fully from a ^TMP global.

Assigning CPRS GUI Tab Access

In order to assign CPRS tab access, you must be able to use the Clinical Coordinator menu in the List Manager interface. To grant restricted access to the CPRS GUI, an OERR List (file #100.21) must be defined to contain the selected patients.

A new option has been added to the PE CPRS Configuration (Clin Coord) [OR PARAM COORDINATOR MENU] entitled GA GUI Access - Tabs, PL [ORCL CPRS ACCESS].

To assign CPRS tab access for user, follow these steps:

1. At the CPRS Configuration (Clinical Coordinator) Option prompt, type **GA** (for GUI Access – Tabs, PL) and press <**Enter**>.
2. At the Select NEW PERSON prompt, type the last name of the user and press <**Enter**>. If necessary, select from the choices given.
3. At the RESTRICTED PATIENT SELECTION prompt, type Y if you want to assign the user a specific Team List and press <**Enter**>. If you do not want to restrict the user's access to a specific team list, type **N** and press <**Enter**>.

   Note: This prompt must be answered with a Yes or No. You can skip it, but if it is not answered, CPRS will abort when the user tries to run CPRS.

4. If you answered Yes to the prompt in step 5, at the PATIENT SELECTION LIST prompt, type the name of the list that was previously defined and assigned to the user using the Patient List Management Menu and press <**Enter**>.
5. Type the letters representing the tab or tab set (COR or RPT) that you want to assign to this user and press <**Enter**>.

   Note: To get the tab entry options, type **??** and press **<Enter**> as necessary. Remember that if you assign the user access to the core tabs (COR) that the user will have full access to CPRS. Also, if you are making a duplicate entry for the same tab such as "RPT" when an "RPT" already exists, you will need to answer N, to the REPORTS TAB? Ok? Yes// prompt to make the duplicate entry.

6. When asked if you are adding it as tab and no other entry exists, type **Y** and press <**Enter**>.
7. At the EFFECTIVE DATE prompt, type a date and press <**Enter**>.
8. At the EXPIRATION DATE prompt, you can type a date on which you want the access to expire and press <**Enter**> or you may press <**Enter**> without entering a date to bypass this prompt.
9. At the Select CPRS TAB prompt, if you have more editing to do, type which tab you want to edit or add. If you are done editing access press <**Enter**>.

Example of Creating a New Tab Entry for the CPRS GUI

```
Select OPTION NAME: ORCL MENU       Clinical Coordinator's Menu     menu


   CL     Clinician Menu ...
   NM     Nurse Menu ...
   WC     Ward Clerk Menu ...
   XC     Check for Multiple Keys
   PE     CPRS Configuration (Clin Coord) ...
   RD     Release/Cancel Delayed Orders


Select Clinical Coordinator's Menu Option: PE  CPRS Configuration (Clin Coord)

   AL     Allocate OE/RR Security Keys
   KK     Check for Multiple Keys
   DC     Edit DC Reasons
   GP     GUI Parameters ...
   GA     GUI Access - Tabs, RPL
   MI     Miscellaneous Parameters
   NO     Notification Mgmt Menu ...
   OC     Order Checking Mgmt Menu ...
   MM     Order Menu Management ...
   LI     Patient List Mgmt Menu ...
   FP     Print Formats
   PR     Print/Report Parameters ...
   RE     Release/Cancel Delayed Orders
   US     Unsigned orders search
   EX     Set Unsigned Orders View on Exit
   NA     Search orders by Nature or Status
   DO     Event Delayed Orders Menu ...
   PM     Performance Monitor Report


Select CPRS Configuration (Clin Coord) Option: GA  GUI Access - Tabs, PL

Select NEW PERSON NAME: BUNKER,ARCHIBALD       AB
RESTRICT PATIENT SELECTION: YES//
PATIENT SELECTION LIST: restricted list 5//
Select CPRS TAB: RPT       REPORTS TAB.
  Are you adding 'RPT' as a new CPRS TAB (the 1ST for this NEW PERSON)? No// Y
  (Yes)
  EFFECTIVE DATE: T  (MAY 30, 2002)
  EXPIRATION DATE: T+365  (MAY 30, 2003)
Select CPRS TAB:
```

Electronic Signature

An electronic signature is the private code that an authorized user types into the system after performing certain actions. For CPRS, it's used by clinicians entering orders. This signature has the same validity as the written signature on the chart.

Implementing electronic signature for CPRS is a four-step process:

1. Define the clinician as a provider in the NEW PERSON file.
2. Assign the clinician the Provider key (while in the NEW PERSON file).
3. Assign the ORES key to clinicians who have signature authority.
4. Assign electronic signature codes (this can be done by the coordinator, at the same time as defining the clinician as a provider in the NEW PERSON file, or by the clinician, using *Electronic Signature Code Edit* on the User's Toolbox menu. See instructions on following pages).

Users may have the ORES key but not have an electronic signature code, and will, therefore, not be allowed to electronically sign orders on the system.

☞**NOTE:** **Until ORES key holders have an electronic signature code, the system assumes that orders entered have been entered and manually signed "on chart"; orders are automatically released to the ancillary service for action.**

Once ORES key holders have an electronic signature code, they will be prompted to enter the electronic signature after accepting the orders. If the electronic signature code is entered correctly, the orders are released to the ancillary services for action. If the electronic signature code is not entered, or is entered incorrectly, the orders are *not* released to the ancillary services for action, but are held in an unreleased/unsigned status. Key holders are given three chances to correctly enter their signature codes.

GUI Review and Sign Works as Follows, According to Signature Status:

- ***User has provider key only*** (med student)
  If there are notes the user can sign, the ES panel appears in Review/Sign Changes; otherwise it is hidden. Orders appear on the list with the checkbox grayed. If the ES is entered for documents, it is NOT applied to the orders.
- ***User has OREMAS key***
  If users (clerks) have entered notes for which they are the author AND orders on behalf of a provider, TWO review screens will appear—one prompting for ES for the things the clerk can sign (a note), and one to allow the clerk to process the orders (mark signed on chart).
- ***User has ORELSE key***
  Works the same as for clerks, but the user can also release the orders.
- ***User has ORES key***
  Sees the review screen with the ES prompting, both for notes and orders.

Electronic Signature Edit Option

Key holders may enter or edit their electronic signature codes through the option, "Electronic Signature Edit," on the User's Toolbox menu. To change an existing code, the user must type in the current code and then enter the new one.

Setup of Electronic Signature

If key holders forget their electronic signature codes, they must contact their IRM Service so that the old code can be deleted. Once this has been done, the user will be allowed to enter a new code without having to know the old code. IRM staff can delete the electronic signature code by editing the field, ELECTRONIC SIGNATURE CODE (20.4) in the NEW PERSON file (200), or by using the option, "Clear Electronic Signature Code [XUSESIG CLEAR]."

ORDER PARAMETERS File (100.99)

Field 100.99,21 ELECTRONIC SIGNATURE

'0' FOR NO;

'1' FOR YES;

This field allows electronic signature functionality to be used. Use of this functionality requires some initial setup before it can be turned on. Users have to be assigned keys that allow them to perform verification steps in the order entry process. They also have to be given an electronic signature code. This also has an effect on who can be selected as the person requesting the order.

Field 100.99,22 ELECTRONIC RECORD

'3' FOR YES (ALLOW S.O.C & WRITTEN);

'4' FOR YES (Exempt Service Entered);

A site can use this field to select 1 of 4 modes for Electronic Signature:

0> No change from current Electronic Signature functionality.

1> Yes (All orders must be signed online.)
Signature on chart is not allowed All orders are filed initially with a signature status of Unsigned and a notification for electronic signature is sent to the ordering provider.

2> Yes (Allow S.O.C)
All orders are signed online, but for those cases where an order is written and signed on the paper chart, you can so specify. Backdoor orders send a notification for electronic signature and require a signature, unless the order has a Nature of Order set to null.

3> Yes (Allow S.O.C. & Written)
Is the same as option 2 except that it will allow orders sent from the ancillary packages with a nature of order of Written to be entered without requiring an electronic signature.

4> Yes (Exempt Service Entered)
Is the same as option 2 except that it will allow orders sent from the ancillary packages that have not defined a nature of order to be entered without requiring an electronic signature. This is the way 'backdoor' orders were handled before the changes introduced with this new field (added with patch OR*2.5*46) were added. As of the release of patch OR*2.5*46 only Pharmacy and Lab have a way of dealing with the nature of order from the backdoor. So until the rest of the backdoor interfaces can deal with this, option 4 is the least disruptive method of evolution, and still get the enhancements for notification and signing of verbal orders.

For options 1, 2, 3 and 4, the default for the prompt "Do you want to mark these orders as 'Signed on Chart'" is changed to NO.

Setup of Electronic Signature

CPRS Configuration Menu (Clin Coord)

```
   AL     Allocate OE/RR Security Keys
   KK     Check for Multiple Keys
   DC     Edit DC Reasons
   GP     GUI Parameters ...
   GA     GUI Access - Tabs, RPL
   MI     Miscellaneous Parameters
   NO     Notification Mgmt Menu ...
   OC     Order Checking Mgmt Menu ...
   MM     Order Menu Management ...
   LI     Patient List Mgmt Menu ...
   FP     Print Formats
   PR     Print/Report Parameters ...
   RE     Release/Cancel Delayed Orders
   US     Unsigned orders search
   EX     Set Unsigned Orders View on Exit
   NA     Search orders by Nature or Status
   DO     Event Delayed Orders Menu ...
   PM     Performance Monitor Report
```

Option	Option Name	Synonym	Description
Allocate OE/RR Security Keys	ORCL KEY ALLOCATION	KA	This option is to assist the CPRS Clinical Coordinator when allocating Security keys to users of the OE/RR system.
Check for Multiple Key	ORE KEY CHECK	XC	This option will identify users that have more than one OR key. Users must only have one OR key to correctly use the software. Any users identified need to have their keys edited so that only one of the OR keys remain (ORES, OREMAS, ORELSE).

1. Assign the appropriate keys to the appropriate users, using the CPRS Configuration Menu (Clin Coord) option, *Allocate CPRS Security Keys*.
2. Turn electronic signature on in the PARAMETERS file, to make electronic signature requirements active. If the ELECTRONIC SIGNATURE parameter is turned off (set to '0'), orders become active automatically after they're entered.
3. Users with the ORES key will not see the electronic signature prompts until they add their signature code (through the option *Edit Electronic Signature*). If they have the ORES key, but haven't added a signature code, they will be prompted:

```
...you do not have an electronic signature code
Do you want to give yourself a code now? YES//<Enter>  (YES)
```

If the ORES key holder answers no to the above prompt, this dialogue will appear:

```
You did not enter a signature code!
...orders requiring signature will be marked as 'SIGNED ON CHART'.
```

Once ORES keyholders add their signature codes, they will see:

```
To electronically sign these orders...
Enter Signature Code: (xxxxxxx) <hidden>
SIGNED
```

Set-up of Electronic Signature, cont'd

4. Users with the ORELSE and OREMAS keys will see the following prompts after entering orders:

```
Select Action: Accept Orders// <Enter>   Accept Orders

...insufficient signature authority
   NOT SIGNED
Do you want to mark these orders as 'Signed on Chart'? YES//  <RET> (YES)
```

   a. If ORELSE key holders answer no, the computer dialogue will be:

```
...insufficient signature authority
   NOT SIGNED
Do you want to mark these orders as 'Signed on Chart'? YES// n  (NO)
These orders have not been signed by an authorized physician
Do you still want to release these orders to the service? YES// <RET> (YES)
NATURE OF ORDER: VERBAL// <RET>
```

   b. If OREMAS key holders answer no, the dialogue will be :

```
...insufficient signature authority
   NOT SIGNED
Do you want to mark these orders as 'Signed on Chart'? YES// n  (NO)
UNRELEASED ORDERS:
 $     PROTHROMBIN TIME BLOOD PLASMA LB #1971 WC
```

Example of "Allocate CPRS Security Keys"

```
Select CPRS Configuration Menu (Clin Coord): ka  Allocate CPRS Security Keys
                                      User Security Key Edit
KEY: ORES

This key is given to users that are authorized to write orders in the chart. Users
with this key can verify  with their electronic signature patient orders .

Edit Holders? YES//<Enter>   (YES)

Select HOLDER: MAL,ROSE// REEO,O
  HOLDER:REEO,O//<Enter>
Select HOLDER: <Enter>
================================================================

KEY: ORELSE

This key is given to users that are authorized to release doctors' orders to an
ancillary service for action.
This key is typically given to Nurses.
Users with this key are allowed to put verbal orders in the system and release them
to the service for action..

Edit Holders? YES// n  (NO)
=============================================================
KEY: OREMAS
```

```
This is the key given to MAS Ward Clerks. It allows the user to specify patient
orders as 'signed on chart' when entered, which releases the orders to the service
for action. Users with this key are not allowed to put verbal orders in the system.

Edit Holders? YES// n  (NO)
```

Menu Assignments

Menu Text	Option Name	Assignment
CPRS Manager Menu	ORMGR MENU	IRMS specialists assigned to CPRS
Clinician Menu	OR MAIN MENU CLINICIAN	Clinicians (physicians, psychologists, social workers, nurse practitioners, PAs, etc.)
Nurse Menu	OR MAIN MENU NURSE	Nurses
Ward Clerk Menu	OR MAIN MENU WARD CLERK	Ward Clerks, MAS personnel
CPRS Configuration Menu (Clin Coord)	ORCL MENU	Clinical Coordinators, ADPACS,
CPRS Configuration Menu (IRM)	ORE MGR	IRMS CPRS specialist (locked with XUPROG key)

Appendix B: How Notifications Work - Technical Overview

Introduction

In CPRS, most Notifications will be triggered by examining data in HL7 messages. (In limited cases, they will be triggered within individual packages.) As packages update and pass pertinent data in HL7 arrays via protocol event points, the CPRS Expert System will capture and examine those messages and data to determine if a notification should be triggered. The HL7 message data capture and review process is similar to that required by Order Checking which also uses the CPRS Expert System. When compared with order checks, the delivery mechanism for notifications is non-real time with a different destination. (For a detailed comparison of Notifications and Order Checks, refer to the Notifications document entitled, “Notifications, Order Checks and Kernel Alerts”.) To support this new direction for notifications, the Notifications file has been altered. Some of the information that used to reside in the Notifications file has been moved to the Parameter files.

Notification	^ORD(100.9 ien	New in CPRS
ABNORMAL IMAGING RESULTS	25	
ABNORMAL LAB RESULT (INFO)	58	√
ABNORMAL LAB RESULTS (ACTION)	14	
ADMISSION	18	
CONSULT/REQUEST CANCEL/HOLD	30	
CONSULT/REQUEST RESOLUTION	23	
CONSULT/REQUEST UPDATED	63	√
CRITICAL LAB RESULT (INFO)	24	
CRITICAL LAB RESULTS (ACTION)	57	√
DC ORDER	62	√
DECEASED PATIENT	20	
DISCHARGE	35	√
DNR EXPIRING	45	√
ERROR MESSAGE	56	√
FLAG ORDER FOR CLARIFICATION	6	
FLAGGED OI EXPIRING – INPT	64	√
FLAGGED OI EXPIRING – OUTPT	65	√
FLAGGED OI ORDER – INPT	41	√
FLAGGED OI ORDER – OUTPT	61	√
FLAGGED OI RESULTS – INPT	32	√
FLAGGED OI RESULTS – OUTPT	60	√
FOOD/DRUG INTERACTION	55	√
FREE TEXT **(INACTIVE)**	46	√
IMAGING PATIENT EXAMINED	21	
IMAGING REQUEST CANCEL/HELD	26	
IMAGING REQUEST CHANGED	67	√
IMAGING RESULTS	22	
IMAGING RESULTS AMENDED	53	√
LAB ORDER CANCELED	42	√

Notification	^ORD(100.9 ien	New in CPRS
LAB RESULTS	3	
LAB THRESHOLD EXCEEDED	68	√
MEDICATIONS EXPIRING	47	√
NEW ORDER	50	√
NEW SERVICE CONSULT/REQUEST	27	
NPO DIET MORE THAN 72 HRS	31	√
ORDER CHECK	54	√
ORDER REQUIRES CHART SIGNATURE **(INACTIVE)**	5	
ORDER REQUIRES CO-SIGNATURE **(INACTIVE)**	37	√
ORDER REQUIRES ELEC SIGNATURE	12	
ORDERER-FLAGGED RESULTS	33	√
SERVICE ORDER REQ CHART SIGN **(INACTIVE)**	28	
STAT IMAGING REQUEST	51	√
STAT ORDER	43	√
STAT RESULTS	44	√
TRANSFER FROM PSYCHIATRY	36	√
UNSCHEDULED VISIT	19	
UNVERIFIED MEDICATION ORDER	48	√
UNVERIFIED ORDER	59	√
URGENT IMAGING REQUEST	52	√

Trigger Methods

Notifications are triggered via six methods:

1. Hard coded triggers within packages; for example: Imaging Patient Examined
2. Time (TaskMan)-driven processes; for example: Medications Expiring
3. Expert system rules monitoring HL7 messages; for example: Critical Lab Results
4. Expert system rules monitoring DGPM Movement Events protocol; for example: Discharge
5. Expert system rules monitoring OE/RR Events; for example: Order Requires Elec Signature
6. Order checking system; for example: Order Check

The processing of notifications is determined by information evaluated during the triggering process and the values of parameters set by options in the ORB namespace. For a description of these parameters, refer to Parameters document "Notification Parameters in CPRS 1 - Technical Overview".

Recipient Determination

CPRS Notifications determines recipients of a patient's particular notification/alert in the following order.

☞ **NOTE: Terminated users will not receive notifications/alerts.**

1. Check the value of the parameter ORB SYSTEM ENABLE/ DISABLE. If it is 'D'isabled, do not process or send any notifications. If it is 'E'nabled, process notifications as outlined below.

☞ **NOTE: You can check the value of this parameter via option "Enable or Disable Notification System."**

2. Obtain the default/regular recipients for this notification regardless of patient from the parameter ORB DEFAULT RECIPIENTS.

☞ **NOTE: You can access this parameter via option "Set Default Recipients for Notifications." With this option, teams and individuals can be set up to automatically always receive a particular notification. If a team is identified, every user on that team (regardless of other parameter and option settings), will receive the notification/alert. Good uses of this parameter include troubleshooting notifications and delivering the Food/Drug Interaction notification (for all patients), to a team of dietitians.**

Recipient Determination, cont'd

3. Obtain the default/regular device recipients for this notification regardless of patient from the parameter ORB DEFAULT DEVICE RECIPIENTS.

☞ **NOTE: This parameter is accessed via option "Set Default Recipient Device(s) for Notifications." One or more devices can be set up to automatically always receive a notification. The device may be a printer, file or any other device defined at the site. This is useful if every instance of an alert across all patients is desired for QA, JCAHO or research purposes.**

4. After default recipients are determined, a list of potential alert recipients is obtained from:
   a. Special, notification-specific recipients:
      1) If the notification processed is FLAGGED OI RESULTS - INPT/OUTPT (usually triggered by an HL7 result message from Lab, Imaging or Consults), the orderable item associated with the notification's order number is found. The parameter ORB OI RESULTS – INPT/OUTPT is then evaluated to determine if users, teams or devices have flagged that orderable item. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team. (If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.) Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

☞ **NOTE: If a device is added to the potential recipient list, it will always receive the alert.**

☞ **NOTE: You can check for users or teams linked to flagged orderable item results via option "Flag Orderable Item(s) to Send Notifications".**

Recipient Determination, cont'd

2) If the notification processed is FLAGGED OI ORDER - INPT/OUTPT (usually triggered by an HL7 order message from OE/RR or a backdoor ancillary package order), the orderable item associated with the notification's order number is found. The parameter ORB OI ORDERED – INPT/OUTPT is then evaluated to determine if users or teams have flagged that orderable item. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE: If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.)**

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

☞ **NOTE: If a device is added to the potential recipient list, it will always receive the alert.**

☞ **NOTE: You can check for users or teams linked to flagged orderable item orders via option "Flag Orderable Item(s) to Send Notifications".**

3) If the notification processed is FLAGGED OI EXPIRING - INPT/OUTPT (triggered when an order will expire before midnight on the next working day), the orderable item associated with the notification's order number is found. The parameter ORB OI EXPIRING – INPT/OUTPT is then evaluated to determine if users or teams have flagged that orderable item. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE: If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.**

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

☞ **NOTE: If a device is added to the potential recipient list, it will always receive the alert.**

☞ **NOTE: You can check for users or teams linked to expiring flagged orderable items via option "Flag Orderable Item(s) to Send Notifications".**

4) If a lab results notification is processed (LAB RESULTS, ABNORMAL LAB RESULTS (ACTION), STAT RESULTS, CRITICAL LAB RESULTS (ACTION)), the unique lab id (e.g., "1916;2990506;9;CH;7009492.9046"), for the notification is obtained. The patient's existing alerts are then reviewed for matching notifications and unique lab ids. If a matching alert is found, that alert's recipients are added to the potential recipient list. In addition, the matching alert's message text is prefixed to the current alert's message text and the matching alert is deleted.

b. The optional recipient list identified by the service triggering the alert. For example, Radiology sends Notifications a list of potential recipients when its STAT Imaging Request notification is triggered.

c. Provider-related recipients indicated in the parameter ORB PROVIDER RECIPIENTS:

1) "P" – Primary Provider (inpatient)

2) "A" – Attending Physician

3) "T" – Teams. If set for Teams, all OE/RR teams to which the patient belongs will be evaluated to obtain potential recipients from the set of users also on the teams. A user on multiple teams with the patient will be processed for each team that has an Enabled, Disabled or Mandatory value for that notification. Thus it is possible for one team membership to "disable" a user's alert whereas another team membership "enables" the user's alert, all for the same patient.

4) "O" – Ordering Provider. If set for ordering/requesting provider and an order number is passed by the service/HL7 message triggering the alert, the ordering/requesting provider will be determined and added to the potential list.

☞ **NOTE: If the notification is either Order Requires Electronic Signature or Order Requires Co-signature and the ordering/requesting provider does not have signature authority (does not hold the ORES key), the teams that contain both the ordering/requesting provider and patient will be evaluated. Every user with the ORES key on those teams will be added to the potential recipient list.**

Recipient Determination, cont'd

5) "M" – PCMM Team. If set for PCMM Teams, adds users/providers linked to the patient's primary PCMM team via PCMM Team Position assignments to the potential recipient list.

6) "E" – Entering User. If set for entering user and an order number is passed by the service/HL7 message triggering the alert, the user/provider who entered the order's most recent activity will be added to the potential recipient list.

7) "R" – PCMM Primary Care Practitioner (PCP)

8) "S" – PCMM Associate Provider

☞ **NOTE: You can access the ORB PROVIDER RECIPIENTS parameter value via option "Set Provider Recipients for Notifications".**

5. Obtain a list of the previous "single instance" alert recipients who have NOT deleted the alert and add them as potential recipients to the new alert. As potential recipients, these previous recipients go through the same "ON/OFF" algorithm to determine if they should actually receive the new alert or not. Single instance notifications/alerts that delete the previous instance of the alert and obtain potential recipients for the new alert from the previous alert include:

   - DC ORDER
   - DNR EXPIRING
   - FLAG ORDER FOR CLARIFICATION
   - MEDICATIONS EXPIRING
   - NEW ORDER
   - NPO DIET MORE THAN 72 HRS
   - ORDER REQUIRES ELEC SIGNATURE
   - UNVERIFIED MEDICATION ORDER
   - UNVERIFIED ORDER

Recipient Determination, cont'd

6. Each user on the potential recipient list is evaluated according to values set for entities identified in the parameter ORB PROCESSING FLAG.

☞ **NOTE: You can access these entity values via options "Enable/Disable Notifications" and "Display the Notifications a User Can Receive."**

The parameter's entity values are processed in the following order to determine if that particular user should receive the notification/alert or not.

☞ **NOTE: Terminated users will not receive notifications/ alerts.**

If a user on the recipient list has the notification "ON" (they will receive the alert). If the user has Kernal Alert surrogate, the surrogate will receive the alert. The original user will not receive the alert if he has a surrogate!

The first condition met below stops the processing and determines whether or not the user will receive the notification. These conditions are summarized as a matrix in Appendix A. Processing order:

a. If the USER's value for the notification is Mandatory or Enabled, the user will receive the alert.

b. If the user's TEAM value for the notification is Mandatory, the user will receive the alert.

c. If the user's TEAM value for the notification is Disabled, the user will NOT receive the alert.

d. If the user's SERVICE/SECTION value for the notification is Mandatory, the user will receive the alert.

e. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is Mandatory, the user will receive the alert.

f. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is Disabled, the user will NOT receive the alert.

g. If the user's DIVISION* value for the notification is Mandatory (and PATIENT's HOSPITAL LOCATION has no value), the user will receive the alert.

h. If the SYSTEM value for the notification is Mandatory (and DIVISION and PATIENT's HOSPITAL LOCATION have no value), the user will receive the alert.

i. If the PACKAGE (OERR-exported) value for the notification is Mandatory (and SYSTEM, DIVISION*, and PATIENT's HOSPITAL LOCATION have no value), the user will receive the alert.

j. If the USER's value for the notification is Disabled, the user will NOT receive the alert.

Recipient Determination, cont'd

k. If the user's TEAM value for the notification is Enabled, the user will receive the alert.

l. If the user's SERVICE/SECTION value for the notification is Disabled, the user will NOT receive the alert.

m. If the user's SERVICE/SECTION value for the notification is Enabled, the user will receive the alert.

n.. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is Enabled, the user will receive the alert.

o. If the user's DIVISION* value for the notification is Disabled, the user will NOT receive the alert.

p. If the user's DIVISION* value for the notification is Enabled, the user will receive the alert.

q. If the SYSTEM value for the notification is Disabled, the user will NOT receive the alert.

r. If the SYSTEM value for the notification is Enabled, the user will receive the alert.

s. If the PACKAGE (OERR-exported) value for the notification is Disabled, the user will NOT receive the alert.

t. If the PACKAGE (OERR-exported) value for the notification is Enabled, the user will receive the alert.

u. If none of the above parameter values are found, the notification is processed as Disabled and the user will NOT receive the alert.

☞ **NOTE: All notifications will have a value (Enabled, Disabled or Mandatory), at the package level when exported.**

☞ **NOTE: * If the user has multiple divisions, the first division found with a "Mandatory" value is used. If no mandatory division values exist and a division has an "Enabled" value, that division is used. If neither mandatory nor enabled division values exist and a division has a "Disabled" value, that division is used.**

Notification Specifics

Each notification and how it works is described below. In most cases, Recipients, Urgency and Deletion can be set at the site via ORB options/parameters. The values indicated below for Recipients, Urgency and Deletion are those exported by CPRS as package entity, (OE/RR) defaults.

Abnormal Imaging Result [ABNORMAL IMAGING RESULTS]

Trigger: Within Radiology package

Mechanism: Radiology package determines an abnormal imaging result has been verified.

Message: Abnormal Imaging Results: <procedure>

Follow-up: Display Abnormal Radiology Report

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Abnormal Lab Result for Single Test [ABNORMAL LAB RESULT (INFO)]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If final abnormal lab results

☞ **NOTE:** **According to the lab developer it is not possible for lab to determine abnormal results for non-analyze lab tests, therefore this notification will never trigger for non-'CH' labs.**

Message: Abnormal lab: <lab test> < value> <collection D/T>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE:** **To prevent redundant alerts, both Abnormal Lab Result(s) notifications should not be concurrently turned-on for a user. Check concurrency via the 'Display the Notifications a User Can Receive' option.**

Abnormal Lab Results with Follow-Up Action [ABNORMAL LAB RESULTS (ACTION)]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If final abnormal lab results

☞ **NOTE:** **According to the lab developer it is not possible for lab to determine abnormal results for non-analyze lab tests, therefore this notification will never trigger for non-'CH'emistry labs.**

Message: Abnormal labs - [<orderable item name>]

Follow-up: Display order results.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE:** **To prevent redundant alerts, both Abnormal Lab Result(s) notifications should not be concurrently turned-on for a user. Check concurrency via the 'Display the Notifications a User Can Receive' option.**

Patient Admission [ADMISSION]

Trigger: Expert system rule intercepts DGPM Movement Events protocol.

Mechanism: If DGPM Movement is “new” and Type is “admission”

Message: Admitted on <Admission D/T> to <ward room-bed>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Consult/Request Canceled/Held [CONSULT/REQUEST CANCEL/HOLD]

Trigger: Within Consults package

Mechanism: Consults package determines a consult/request was canceled or held.

Message: <Cancelled/Discontinued/On hold> consult <consult name or type>

Follow-up: Display consult/request. If appropriate, possible actions: receive, forward, cancel (deny), discontinue, add comments, complete/update, make addendum, detailed display, results display, print form 513.

Recipients: Determined by Consults package and parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Consult/Request Resolution [CONSULT/REQUEST RESOLUTION]

Trigger: Within Consults package

Mechanism: Consults package determines a consult has been completed.

Message: Completed consult <consult name or type>

Follow-up: Display consult/request. If appropriate, possible actions: detailed display, results display, print form SF 513.

Recipients: Determined by Consults package and parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Consult/Request Updated [CONSULT/REQUEST UPDATED]

Trigger: Within Consults package

Mechanism: Consults package determines a consult has been updated.

Message: <varies but indicates some form of updating> consult <consult name or type>

Follow-up: Display consult/request. If appropriate, possible actions: detailed display, results display, print form SF 513

Recipients: Determined by Consults package and parameter ORB PROVIDER RECIPIENTS. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Critical Lab Result for Single Test [CRITICAL LAB RESULT (INFO)]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If final critical lab results

☞ **NOTE:** **According to the lab developer it is not possible for lab to determine critical results for non-analyze lab tests, therefore this notification will never trigger for non-'CH' labs.**

Message: Critical lab: <lab test> < value> <collection D/T>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE:** **To prevent redundant alerts, both Critical Lab Result(s) notifications should not be concurrently turned-on for a user. Check concurrency via the 'Display the Notifications a User Can Receive' option.**

Critical Lab Results with Follow-Up Action [CRITICAL LAB RESULTS (ACTION)]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If final critical lab results

☞ **NOTE:** **According to the lab developer it is not possible for lab to determine critical results for non-analyze lab tests, therefore this notification will never trigger for non-'CH' labs.**

Message: Critical labs - [<orderable item name>]

Follow-up: Display order results.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action s.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE:** **To prevent redundant alerts, both Critical Lab Result(s) notifications should not be concurrently turned-on for a user. Check concurrency via the 'Display the Notifications a User Can Receive' option.**

DC Order Placed [DC ORDER]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If order is cancelled or discontinued

Message: [<pt location>] New DC order(s) placed

Follow-up: Display patient's recent orders (including DCed orders).

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU. This notification was designed to allow nurses (and perhaps clerks), on teams to be notified when a physician enters a new DC order for a patient cared for by that team. This notification is triggered with every new DC order placed, so it should be disabled for the site with the exception of the nurse/clerk teams when it should be enabled. Enabling and disabling of notifications is accomplished via the parameter ORB PROCESSING FLAG which can be set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU. This alert is deleted when a recipient reviews the patient's new DC orders via the View Alert follow-up action.

☞ **NOTE: The DC Order notification is exported as 'Disabled' due to the high volume of alerts it generates. Sites can selectively enable this notification for individuals, teams, etc.**

Deceased Patient [DECEASED PATIENT]

Trigger: DGPM Movement Events Protocol and Date of Death field in Patient file

Mechanism: DGPM protocol or Date of Death field invokes DGOERNOT routine which calls ORX3.

Message: Died while an inpatient on <Deceased D/T> or Died on <Deceased D/T>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Attending, Primary, Teams.

☞ **NOTE: Alert does not go to Attending and Primary because when deceased, a patient does not have an attending and primary.**

ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Patient Discharged [DISCHARGE]

Trigger: Expert system rule intercepts DGPM Movement Events protocol.

Mechanism: If DGPM Movement Type is discharge

Message: Discharged on <Discharge D/T>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Attending, Primary, Teams.

☞ **NOTE: Alert does not go to Attending and Primary because at time of discharge, a patient does not have an inpatient attending and primary.**

ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

DNR Order Nearing Expiration [DNR EXPIRING]

Trigger: TaskMan monitored process (currently every 15 minutes).

Mechanism: DNR order expiring within 24 hours (72 hours on Fridays)

☞ **NOTE: For this notification to work, two site setups must be completed:**

- **A link must exist between the national term "DNR" and each site's local orderable item that denotes DNR.**
- **One or more order dialogs must use the DNR orderable items.**

Therefore when an order with a DNR orderable item linked to the national term "DNR" is found to be expiring within 24 hours (72 hours on Fridays), the alert is sent.

Message: DNR order nearing expiration

Follow-up: Display DNR order and allow renewal.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (Completion of follow-up action, which is renewal or DCing of the DNR order, by one recipient deletes the alert for all recipients.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Error Message [ERROR MESSAGE]

Trigger: Error in CPRS Expert System processes

Mechanism: Problem in CPRS Expert System

Message: Error occurred.

Follow-up: NA

Recipients: Recipients for this notification are not based on patient. Recipients can be identified via the parameter ORB DEFAULT RECIPIENTS. There is no exported recipient value for this notification. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. There is no exported recipient device value for this notification. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Low. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (Deletion for all recipients when one recipient reviews the alert via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Order Flagged [FLAG ORDER FOR CLARIFICATION]

Trigger: Expert system rules monitoring OE/RR Events

Mechanism: OE/RR determines an order has been flagged.

Message: Order(s) needing clarification: Flagged <date/time>

Follow-up: Display flagged orders and allow user to unflag and/or edit the orders.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (Completion of follow-up action, which is unflagging all of the patient's flagged orders, by one recipient deletes the alert for all recipients.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Flagged Orderable Item Expiring - Inpatient [FLAGGED OI EXPIRING – INPT]

Trigger: TaskMan monitored process (currently every 15 minutes).

Mechanism: The date range to search is based upon day of week and entries in the Holiday file. The range is extended to include all expiring med orders through the next working day (excluding holidays and weekends.) Alert is not triggered if patient is deceased or an outpatient.

Message: [<pt location>] Order expiring: <oi name> <order start D/T>

Follow-up: Display orders expiring through the next working day and allow renewal.

Recipients: Recipients for this notification are not based specifically on patient. They are based on orderable item. Users, OE/RR Teams and Devices can receive this alert for specific orderable items by flagging the orderable items via parameter ORB OI EXPIRING - INPT. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient.

☞ **NOTE: If a device is added to the potential recipient list, it will always receive the alert.**

Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient’s primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE: If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.**

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team. Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Flagged Orderable Item Expiring - Outpatient [FLAGGED OI EXPIRING – OUTPT]

Trigger: TaskMan monitored process (currently every 15 minutes).

Mechanism: The date range to search is based upon day of week and entries in the Holiday file. The range is extended to include all expiring med orders through the next working day (excluding holidays and weekends.) Alert is not triggered if patient is deceased or an inpatient.

Message: [<pt location>] Order expiring: <oi name> <order start D/T>

Follow-up: Display orders expiring through the next working day and allow renewal.

Recipients: Recipients for this notification are not based specifically on patient. They are based on orderable item. Users, OE/RR Teams and Devices can receive this alert for specific orderable items by flagging the orderable items via parameter ORB OI EXPIRING - OUTPT. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient.

☞ **NOTE: If a device is added to the potential recipient list, it will always receive the alert.**

Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE: If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.**

Flagged Orderable Item Expiring - Outpatient

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team. Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Flagged Orderable Item Ordered - Inpatient [FLAGGED OI ORDER – INPT]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: Expert system checks the parameter ORB OI ORDERED - INPT to determine if the orderable item for the order has been flagged to trigger a notification when it is ordered. The expert system also checks to insure the order is new. If the order was placed via the “backdoor” (through lab, pharmacy, etc.) and not through CPRS, an OE/RR order must be included with the HL7 message, often it is not. Therefore, in many backdoor order cases (such as lab backdoor orders), the alert is not sent because an order number is not in the HL7 message. Also the patient must be an INPATIENT.

☞ **NOTE:** **The orderable item identified via the parameter must match the order’s orderable item. Orders are linked to orderable items through the order dialog setup.**

Message: [<pt location>] Order placed: <oi name> <order start D/T>

Follow-up: NA

Recipients: Recipients for this notification are not based specifically on patient. They are based on orderable item. Users, OE/RR Teams and Devices can receive this alert for specific orderable items by flagging the orderable items via parameter ORB OI ORDERED - INPT. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient.

☞ **NOTE:** **If a device is added to the potential recipient list, it will always receive the alert.**

Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient’s primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE:** **If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.**

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team. Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Some VAMCs set this notification to go to a team of quality assurance specialists. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Flagged Orderable Item Ordered - Outpatient [FLAGGED OI ORDER – OUTPT]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: Expert system checks the parameter ORB OI ORDERED - OUTPT to determine if the orderable item for the order has been flagged to trigger a notification when it is ordered. The expert system also checks to insure the order is new. If the order was placed via the “backdoor” (through lab, pharmacy, etc.) and not through CPRS, an OE/RR order must be included with the HL7 message, often it is not. Therefore, in many backdoor order cases (such as lab backdoor orders), the alert is not sent because an order number is not in the HL7 message. Also the patient must be an OUTPATIENT.

☞ **NOTE:** **The orderable item identified via the parameter must match the order’s orderable item. Orders are linked to orderable items through the order dialog setup.**

Message: [<pt location>] Order placed: <oi name> <order start D/T>

Follow-up: NA

Recipients: Recipients for this notification are not based specifically on patient. They are based on orderable item. Users, OE/RR Teams and Devices can receive this alert for specific orderable items by flagging the orderable items via parameter ORB OI ORDERED - OUTPT. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient.

☞ **NOTE:** **If a device is added to the potential recipient list, it will always receive the alert.**

Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient’s primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE:** **If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.**

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team. Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Some VAMCs set this notification to go to a team of quality assurance specialists. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Flagged Orderable Item Result(s) Available – Inpatient [FLAGGED OI RESULTS - INPT]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: This notification only functions for Lab, Radiology and Consult results. The expert system checks the parameter ORB OI RESULTS – INPT to determine if the orderable item for the order has been flagged to trigger a notification when it is resulted. The expert system tracks that order by checking HL7 messages. The notification is triggered when the final HL7 results are returned from the filling package. (This notification is currently available for lab, consults and radiology results only.) Also the patient must be an INPATIENT.

☞ **NOTE:** **Note: The orderable item identified via the parameter must match the order's orderable item. Orders are linked to orderable items through the order dialog setup.**

Message: [<pt location>] Result available: <orderable item name> < order start D/T>

Follow-up: Display lab, consults or radiology results

Recipients: Recipients for this notification are not based specifically on patient. They are based on orderable item. Users, OE/RR Teams and Devices can receive this alert for specific orderable items by flagging the orderable items via parameter ORB OI RESULTS - INPT. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient.

☞ **NOTE:** **If a device is added to the potential recipient list, it will always receive the alert.**

Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE:** **If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.**

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team. Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Some VAMCs set this notification to go to a team of quality assurance specialists. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Flagged Orderable Item Result(s) Available – Outpatient [FLAGGED OI RESULTS - OUTPT]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: This notification only functions for Lab, Radiology and Consult results. The expert system checks the parameter ORB OI RESULTS – OUTPT to determine if the orderable item for the order has been flagged to trigger a notification when it is resulted. The expert system tracks that order by checking HL7 messages. The notification is triggered when the final HL7 results are returned from the filling package. (This notification is currently available for lab, consults and radiology results only.) Also the patient must be an OUTPATIENT.

☞ **NOTE: The orderable item identified via the parameter must match the order's orderable item. Orders are linked to orderable items through the order dialog setup.**

Message: [<pt location>] Result available: <orderable item name> < order start D/T>

Follow-up: Display lab, consults or radiology results

Recipients: Recipients for this notification are not based specifically on patient. They are based on orderable item. Users, OE/RR Teams and Devices can receive this alert for specific orderable items by flagging the orderable items via parameter ORB OI RESULTS - OUTPT. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL patients. If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient.

☞ **NOTE: If a device is added to the potential recipient list, it will always receive the alert.**

Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team.

☞ **NOTE: If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.**

Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team. Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Some VAMCs set this notification to go to a team of quality assurance specialists. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Food/Drug Interaction [FOOD/DRUG INTERACTION]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If the patient is an inpatient (has a ward/room-bed) and a new medication order is for warfarin/coumadin, disulfiram, phenelzine, tranylcypromine, or parnate.

Message: [<pt location>] <medication> ordered - adjust diet accordingly

Follow-up: NA

Recipients: Recipients for this notification are not based specifically on patient. Recipients can be identified via the parameter ORB DEFAULT RECIPIENTS. There is no exported recipient value for this notification. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Some VAMCs have set this notification to go to a team of dieticians (regardless of patient). Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. There is no exported recipient device value for this notification. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE:** **Sites have requested the ability to add and remove non-hard coded medication terms to the Food/Drug Interaction notification. Sites can accomplish this by mapping local medication orderable items to the CPRS Expert System national term FOOD-DRUG INTERACTION MED as explained below. Mapping local terms should be done during off hours because the CPRS Expert System is recompiled every time a local term is added, modified, or removed.**

When a site installs patch OR*3*96, the patch removes existing medication terms used in the Food/Drug Interaction notification/alert, and these terms must be added after installation. You will add the CPRS default list of COUMADIN/WARFARIN, DISULFIRAM, PHENELZINE, TRANYLCYPROMINE, and PARNATE. You can also add other terms as desired, but you may need assistance from a pharmacist to make the appropriate mapping.

How to Edit Local Site Terms

Before you edit the Local Site Terms, you may want to check what terms are currently mapped.

The following is an example of an inquiry into the file using Fileman.

```
VA FileMan 22.0
 Select OPTION NAME: INQUIRE TO FILE ENTRIES

 OUTPUT FROM WHAT FILE: ORDER CHECK ELEMENT//
 Select ORDER CHECK ELEMENT NAME:    INPATIENT FOOD-DRUG REACTION

 NAME: INPATIENT FOOD-DRUG REACTION
   ELEMENT CONTEXT: GENERIC HL7 MESSAGE ARRAY
 EXPRESSION SEQUENCE NUMBER: 1           DATA FIELD 1: FOOD-DRUG
 INTERACTION MED
   OPERATOR/FUNCTION: LOGICAL TRUE
   CONDITIONAL VALUE 1:
 COUMADIN,WARFARIN, DISULFIRAM, PHENELZINE, TRANYLCYPROMINE, PARNATE
<======
 EXPRESSION SEQUENCE NUMBER: 3           DATA FIELD 1: CONTROL CODE
   OPERATOR/FUNCTION: EQUALS ELEMENT IN SET
   CONDITIONAL VALUE 1: NW,SN
EXPRESSION SEQUENCE NUMBER: 4           DATA FIELD 1: INPATIENT
   OPERATOR/FUNCTION: LOGICAL TRUE
```

You must use the Order Check Mgmt option "Edit Site Local Terms" to re-add the hard-coded medication terms. (The CPRS default list included COUMADIN/WARFARIN, DISULFIRAM, PHENELZINE, TRANYLCYPROMINE and PARNATE.) You can also use the option to add any new medications desired by your site. When mapping the old, default medication terms to the new national term FOOD-DRUG INTERACTION MED, the default medication terms may not map directly to medication orderable items. You may need assistance from a pharmacist to make the appropriate mapping. For example, mapping "WARFARIN" to "WARFARIN TAB" is straightforward but there may be other orderable item forms of warfarin in your system that should also be mapped. It is best to do this mapping during off-peak hours because the CPRS Expert System is automatically recompiled after a local term is added, modified or removed. During compilation, some order checks and notifications/alerts are taken off-line.

Editing or Adding Site Local Terms

Here is an example using the option "Edit Site Local Terms" to re-add the hard-coded medication terms. The same process can be used to add new medication terms.

CPRS Manager Menu Option: PE CPRS Configuration (Clin Coord)

```
AL      Allocate OE/RR Security Keys
KK      Check for Multiple Keys
DC      Edit DC Reasons
GP      GUI Parameters ...
GA      GUI Access - Tabs, RPL
MI      Miscellaneous Parameters
NO      Notification Mgmt Menu ...
OC      Order Checking Mgmt Menu ...
MM      Order Menu Management ...
LI      Patient List Mgmt Menu ...
FP      Print Formats
PR      Print/Report Parameters ...
RE      Release/Cancel Delayed Orders
US      Unsigned orders search
EX      Set Unsigned Orders View on Exit
NA      Search orders by Nature or Status
DO      Event Delayed Orders Menu ...
PM      Performance Monitor Report
```

Select CPRS Configuration (Clin Coord) Option: OC Order Checking Mgmt Menu

```
 1      Enable/Disable an Order Check
 2      Set Clinical Danger Level for an Order Check
 3      CT Scanner Height Limit
 4      CT Scanner Weight Limit
 5      MRI Scanner Height Limit
 6      MRI Scanner Weight Limit
 7      Orderable Item Duplicate Order Range
 8      Lab Duplicate Order Range
 9      Radiology Duplicate Order Range
 10     Enable or Disable Order Checking System
 11     Enable or Disable Debug Message Logging
 12     Display the Order Checks a User Can Receive
 13     Edit Site Local Terms                          <===
 14     Set Number of Medications for Polypharmacy
 15     Set Creatinine Date Range for Glucophage-Lab Rslts
 16     Set Order Checks to be Uneditable By Users
```

Editing or Adding Site Local Terms, cont'd

Select Order Checking Mgmt Menu Option: 13 Edit Site Local Terms

```
            Order Check National Terms

      SERUM CREATININE
      SERUM UREA NITROGEN
      DNR
      PROTHROMBIN TIME
      NPO
      SERUM SPECIMEN
      PARTIAL THROMBOPLASTIN TIME
      ANGIOGRAM (PERIPHERAL)
      WBC
      BLOOD SPECIMEN

       < Enter ?? to see the rest of the national terms on this list>
```

Select National Term: ?? <=== Enter "??" for next screen

```
     Choose from:
     ANGIOGRAM (PERIPHERAL)
     BLOOD SPECIMEN
     DANGEROUS MEDS FOR PTS > 64
     DNR
     FOOD-DRUG INTERACTION MED          <===
     NPO
     ONE TIME MED
     PARTIAL THROMBOPLASTIN TIME
     PROTHROMBIN TIME
     SERUM CREATININE
     SERUM SPECIMEN
     SERUM UREA NITROGEN
     WBC
```

Select National Term: FOOD-DRUG INTERACTION MED

```
   National Term: FOOD-DRUG INTERACTION MED

   Translated from file: 'ORDERABLE ITEMS'  101.43
```

Select ORDERABLE ITEMS NAME: COUMADIN WARFARIN TAB (2113) <===

```
   National Term: FOOD-DRUG INTERACTION MED

   Translated from file: 'ORDERABLE ITEMS'  101.43

      WARFARIN TAB     (2113)
```

Editing or Adding Site Local Terms, cont'd

Select ORDERABLE ITEMS NAME: DISULFIRAM TAB (1400) <===

```
   National Term: FOOD-DRUG INTERACTION MED

   Translated from file: 'ORDERABLE ITEMS'  101.43

      DISULFIRAM TAB     (1400)
      WARFARIN TAB     (2113)
```

Select ORDERABLE ITEMS NAME: PHENELZINE SULFATE TAB (1846) <===

```
   National Term: FOOD-DRUG INTERACTION MED

   Translated from file: 'ORDERABLE ITEMS'  101.43

      DISULFIRAM TAB     (1400)
      PHENELZINE SULFATE TAB     (1846)
      WARFARIN TAB     (2113)
```

Select ORDERABLE ITEMS NAME: TRANYLCYPROMINE TAB (2059) <===

```
   National Term: FOOD-DRUG INTERACTION MED

   Translated from file: 'ORDERABLE ITEMS'  101.43

      DISULFIRAM TAB     (1400)
      PHENELZINE SULFATE TAB     (1846)
      TRANYLCYPROMINE TAB     (2059)
      WARFARIN TAB     (2113)
```

Select ORDERABLE ITEMS NAME:

```
           Order Check National Terms

      SERUM CREATININE
      SERUM UREA NITROGEN
      DNR
      PROTHROMBIN TIME
      NPO
      SERUM SPECIMEN
      PARTIAL THROMBOPLASTIN TIME
      ANGIOGRAM (PERIPHERAL)
      WBC
      BLOOD SPECIMEN
< Enter ?? to see the rest of the national terms on this list>
```

Editing or Adding Site Local Terms, cont'd

Select National Term:

☞ **NOTE: The CPRS Expert System automatically recompiles when a local term is added, modified or removed.**

```
 Expert system compiler queued to run in 30 seconds.
 You will be sent a MailMan bulletin when it has finished.
Removing a Local Site Terms
 ********************************************************************
 *                                                                  *
 *     TO DELETE/REMOVE A TERM, ENTER THE TERM'S NUMBER AT THE      *
 *     "ORDERABLE ITEMS NAME:" PROMPT AS IN THE FOLLOWING EXAMPLE:  *
 *                                                                  *
 ********************************************************************

 National Term: FOOD-DRUG INTERACTION MED

   Translated from file: 'ORDERABLE ITEMS'  101.43

      DISULFIRAM TAB     (1400)
      PHENELZINE SULFATE TAB     (1846)
      TRANYLCYPROMINE TAB     (2059)
      WARFARIN TAB     (2113)
```

Select ORDERABLE ITEMS NAME: 2059 <=== TRANYLCYPROMINE TAB (2059)

```
  ...OK? Yes//   (Yes)

 Do you want remove 'TRANYLCYPROMINE TAB     (2059)' from the list ? NO//
 YES  removed
```

Imaging Patient Examined [IMAGING PATIENT EXAMINED]

Trigger: Within Radiology package

Mechanism: Radiology package determines a patient has been examined.

Message: Examined: <procedure> <proc D/T> (results pending)

Follow-up: NA

Recipients: Determined and passed by Radiology package and by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Imaging Request Canceled/Held [IMAGING REQUEST CANCEL/HELD]

Trigger: Expert system rule intercept HL7 message.

Mechanism: If an imaging order has been canceled or discontinued and user canceling the order did not place original order

☞ **NOTE:** **This notification is triggered only if the order is cancelled by the non-original ordering provider. (If Dr. A cancels a chest x-ray ordered by Dr. B, the notification is triggered and sent to potential recipients identified via the ORB PROVIDER RECIPIENTS parameter. If Dr B cancels his chest x-ray order, the notification is not triggered.)**

Message: Imaging request canceled/held/discontinued: <order text (truncated to 51 characters)>

Follow-up: Display order details which will include reason for cancel/held/dced and allow a new order to be placed.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Imaging Request Changed [IMAGING REQUEST CHANGED]

Trigger: From within Radiology package

Mechanism: If an imaging request is changed, the alert is triggered from within the Radiology package.

Message: Imaging Exam Changed: <procedure name>

Follow-up: Displays the request before and after the change.

Recipients: Recipients are determined from either the parameter ORB PROVIDER RECIPIENTS for this alert or by Imaging. Imaging will provide the requesting providers before and after the change. Recipients in the parameter ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values for the parameter ORB PROVIDER RECIPIENTS are set through an option under the menu options ORB NOT MGR MENU and ORB NOT COORD MENU. There is not exported, package-level value for ORB PROVIDER RECIPIENTS for this notification.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Imaging Result Verified [IMAGING RESULTS]

Trigger: Within Radiology package

Mechanism: Radiology package determines a result has been verified.

Message: Imaging results: <procedure> <proc D/T>

Follow-up: Display Radiology Report

Recipients: Determined and passed by Radiology package. Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. There is no exported recipient value for this notification. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Imaging Result Amended [IMAGING RESULTS AMENDED]

Trigger: Within Radiology package

Mechanism: Radiology package determines a result has been amended.

Message: Amended Imaging Results: <procedure>

Follow-up: Display Radiology Report

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Lab Order Canceled [LAB ORDER CANCELED]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If a lab order has been canceled or discontinued and user canceling the order did not place original order.

☞ **NOTE:** **This notification is triggered only if the order is cancelled by the non-original ordering provider. (If Dr. A cancels a Chem 7 ordered by Dr. B, the notification is triggered and sent to potential recipients identified via the ORB PROVIDER RECIPIENTS parameter. If Dr B cancels his Chem 7 order, the notification is not triggered.)**

Message: Lab order canceled: <order text (truncated to 51 characters)>

Follow-up: Display order details which will include reason for cancellation and allow a new order to be placed.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Lab Results Available [LAB RESULTS]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If final lab results

Message: Lab results: <orderable item name>

Follow-up: Display lab order results.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review or results via follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE: The Lab Results notification is exported as 'Disabled' due to the high volume of alerts it generates. Sites can selectively enable this notification for individuals, teams, etc.**

Lab Threshold Exceeded [#68 - LAB THRESHOLD EXCEEDED]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: The expert system checks the parameters ORB LAB > THRESHOLD and ORB LAB < THRESHOLD for greater and less than threshold values for the resulted lab test. If a threshold value is found and the result value exceeds the parameter's threshold value, a notification/alert is triggered.

Message: [<pt location>] Lab threshold exceeded - [<orderable item name>]

Follow-up: Display lab results.

Recipients: Recipients for this notification are not based specifically on patient. Target recipients are determined within the Lab Threshold expert system rule. Recipients are users who have indicated upper and/or lower threshold values for lab tests and are linked to the patient. A user is considered linked to the patient if they are the patient's Inpatient Primary Provider, Attending Physician, PCMM Primary Provider or PCMM Associate Provider. A user is also considered linked if they share an OE/RR or PCMM team with the patient. When a result exceeds a threshold value, the user setting the threshold receives an alert message (if they are linked to the patient.) Recipients can also be identified via the parameter ORB DEFAULT RECIPIENTS. ORB DEFAULT RECIPIENTS can be set at the User and Team levels. Devices can be identified as recipients via the option ORB DEFAULT RECIPIENT DEVICES. ORB DEFAULT RECIPIENT DEVICES can be set at the Division and System levels. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS. Values are set for these parameters by an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Medications Nearing Expiration [EXPIRING MEDICATIONS]

Trigger: TaskMan monitored process (currently every 15 minutes).

Mechanism: The date range to search is based upon day of week and entries in the Holiday file. The range is extended to include all expiring med orders through the next working day (excluding holidays and weekends.) Alert is not triggered if patient is deceased or an outpatient, order is a one time medication, or medication is not renewable.

Message: Medications nearing expiration.

Follow-up: Display medication orders expiring through the next working day and allow renewal.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (Completion of follow-up action, which is renewal or DCing of all medication orders nearing expiration, by one recipient deletes the alert for all recipients.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

New Order Placed [NEW ORDER]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: If a new order is placed through OE/RR or "backdoor" package

Message: [<pt location>] New order(s) placed

Follow-up: Display active orders for that patient.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU. This notification was designed to allow nurses (and perhaps clerks), on teams to be notified when a physician enters a new order for a patient cared for by that team. This notification is triggered with every new order placed (it happens often), so it should be disabled for the site with the exception of the nurse/clerk teams when it should be enabled. Enabling and disabling of notifications is accomplished via the parameter ORB PROCESSING FLAG which can be set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE: The New Order notification is exported as 'Disabled' due to the high volume of alerts it generates. Sites can selectively enable this notification for individuals, teams, etc.**

New Service Consult/Request [NEW SERVICE CONSULT/REQUEST]

Trigger: Within Consults package

Mechanism: Consults package determines a new consult has been requested.

Message: New consult <consult name or type> (<urgency>)

Follow-up: Display Consult/Request and allow user to take action on it.

Recipients: "Attention:" provider passed in call from Consults and determined by parameter ORB PROVIDER RECIPIENTS. There is no exported recipient value for this notification. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

NPO Diet for More Than 72 Hours [NPO DIET MORE THAN 72 HRS]

Trigger: TaskMan monitored process (currently every 15 minutes).

Mechanism: Triggered for NPO orders that have existed for more than 72 hours. Orders with a status of DC, Expired, Cancelled, Lapsed, Complete, Changed, and Released do not trigger this notification/alert.

☞ **NOTE:** **For this notification to work, two site setups must be completed: 1) a link must exist between the national term "NPO" and each site's local orderable item that denotes NPO, and 2) one or more order dialogs must use the NPO orderable items. Therefore when an order with a NPO orderable item linked to the national term "NPO" is found to be expiring within 72 hours, the alert is sent.**

Message: NPO Diet for more than 72 hours

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Order Check [ORDER CHECK]

Trigger: Order checking system

Mechanism: When an order check cannot be delivered real-time, it is bundled and sent to notifications.

Message: Variable

Follow-up: NA

Recipients: If an order exists, the Ordering Provider. If no order exists, the inpatient primary provider (first choice) or the outpatient primary provider (second choice). It is also possible to identify potential recipients via parameter ORB PROVIDER RECIPIENTS. There is no exported recipient value for this notification. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE:** **The Order Check notification is exported as 'Disabled' due to the high volume of alerts it generates. Sites can selectively enable this notification for individuals, teams, etc.**

Order Requires Chart Signature [ORDER REQUIRES CHART SIGNATURE]
*** INACTIVE ***

Trigger: Expert system rules monitoring OE/RR Events.

Mechanism: OE/RR determines an order requires chart signature.

Message: Order released - requires chart signature.

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Order(s) Require Co-Signature [ORDER REQUIRES CO-SIGNATURE]
*** INACTIVE ***

Trigger: Expert system rules monitoring OE/RR Events

Mechanism: OE/RR determines an order requires co-signature.

Message: Orders require co-signature.

Follow-up: Display orders requiring co-signature and allow co-signature.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (Completion of follow-up action, which is co-signature of all orders requiring co-signature, by one recipient deletes the alert for all recipients.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE: This alert will not work until ASU is incorporated into CPRS.**

Order(s) Require Electronic Signature [ORDER REQUIRES ELEC SIGNATURE]

Trigger: Expert system rules monitoring OE/RR Events

Mechanism: OE/RR determines an order requires electronic signature.

Message: Order requires electronic signature.

Follow-up: Display orders requiring electronic signature and allow electronic signature.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE: When considering OE/RR or PCMM teams for potential recipients, only those teams linked to the patient are evaluated for potential recipients. If the ordering provider does not have the ORES key, users on OE/RR teams linked to the ordering provider and patient are added to the potential recipient list (if the user has ORES.)**

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (Completion of follow-up action, which is electronic signature of all orders requiring electronic signature, by one recipient deletes the alert for all recipients.) Also deleted on print event when notification is changed from Order Requires Electronic Signature to Order Requires Chart Signature and resent. ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE: The following two exception conditions exist when determining how alert deletion will occur. In all other cases, alert deletion will occur when the patient has no unsigned orders.**

1) **If the recipient of this alert does NOT have the ORES key, the alert will be deleted for that recipient after he reviews the unsigned orders.**

☞ **NOTE: cont'd**

2) If the recipient has the ORES key and is NOT linked to the patient as attending physician, inpatient primary provider, PCMM primary care practitioner, PCMM associate provider or via OE/RR or PCMM teams, his alert will be deleted when his unsigned orders are signed. (If unsigned orders written by other providers for the patient remain, alerts for these other providers will not be deleted.) For example, a consulting surgeon (with ORES) places three unsigned orders for a patient. He then receives an "Order requires electronic signature" alert for the patient. He uses the View Alerts follow-up action and is presented with ten unsigned orders for the patient. Only three of the ten orders are his. The surgeon signs his three unsigned orders. If the surgeon is not linked to the patient as attending, inpatient primary provider, PCMM primary care practitioner, PCMM associate provider or via OE/RR or PCMM teams, the alert will be deleted (for him only.)

In most cases alert deletion will occur when the patient has no unsigned orders. For example, if a recipient has the ORES key and is linked to the patient as attending, inpatient primary provider, PCMM primary care practitioner, PCMM associate provider or via OE/RR or PCMM teams, all unsigned orders for the patient must be signed before his alert is deleted.]

Orderer-Flagged Order Result(s) Available [ORDERER-FLAGGED RESULTS]

Trigger: Expert system rules monitoring OE/RR Events

Mechanism: User selects an order then action 'Alert Results' from OE/RR Orders screen. The user then enters the name of the intended recipient. OE/RR determines that an order has been flagged and invokes the CPRS Expert System. The expert system tracks that order by checking HL7 messages. The notification is triggered when the final HL7 results are returned from the filling package. (This notifications is currently available for lab, consults and radiology results only.)

Message: Requested results available: <orderable item, order D/T>

Follow-up: Display lab, consults, or radiology results

Recipients: Determined by user input through a GUI list box and parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU..

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review or results via follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Service Order Requires Chart Signature [SERVICE ORDER REQ CHART SIGN]
*** INACTIVE ***

Trigger: Expert system rules monitoring OE/RR Events

Mechanism: OE/RR determines an order placed via a service option requires chart signature.

Message: Service order-requires chart signature.

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider, Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

STAT Imaging Request [STAT IMAGING REQUEST]

Trigger: Within Radiology package

Mechanism: Radiology package determines a STAT imaging procedure has been requested.

Message: Imaging Request Urgency: STAT

Follow-up: NA

Recipients: Determined and passed by Radiology package. This notification was developed with the primary intention of alerting radiology technicians and clerical personnel when a STAT imaging request was made. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

STAT Order Placed [STAT ORDER]

Trigger: Expert system rule intercepts HL7 message

Mechanism: If a new order has an urgency of 'STAT'

Message: STAT order: <orderable item local text>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU. This notification was designed to allow nurses (and perhaps clerks), on teams to be notified when a physician enters a STAT order for a patient cared for by that team. This notification is triggered with every STAT order placed, so it should be disabled for the site with the exception of the nurse/clerk teams when it should be enabled. Enabling and disabling of notifications is accomplished via the parameter ORB PROCESSING FLAG which can be set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

☞ **NOTE: The STAT Order Placed notification is exported as 'Disabled' due to the high volume of alerts it generates. Sites can selectively enable this notification for individuals, teams, etc.**

STAT Result Available [STAT RESULT]

Trigger: Expert system rule intercepts HL7 message.

Mechanism: This notification only functions for Lab, Radiology and Consult STAT results. The expert system checks for final STAT results in HL7 messages.

Message: STAT lab/imaging/consult results: <orderable item local text>

Follow-up: Display lab or radiology results.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Ordering Provider. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual completion of follow-up action.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Patient Transferred from Psychiatry to Another Unit [TRANSFER FROM PSYCHIATRY]

Trigger: Expert system rule intercepts DGPM Movement Events protocol.

Mechanism: If DGPM Movement Type is transfer and old location/treating specialty was psychiatry

Message: Transfer from Psych ward: <pt's previous ward> to ward: <pt's current ward>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Unscheduled Patient Visit [UNSCHEDULED VISIT]

Trigger: Disposition field in Patient file

Mechanism: When an unscheduled visit occurs

Message: Unscheduled patient visit <Visit D/T>

Follow-up: NA

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Attending, Primary, Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Unverified Medication Order(s) [UNVERIFIED MEDICATION ORDER]

Trigger: TaskMan monitored process (currently every 15 minutes).

Mechanism: TaskMan process searches for unverified inpatient medication orders. If a medication order was placed more than x hours previously, where x is determined by the parameter ORB UNVERIFIED MED ORDER, the alert is triggered. The parameter can be accessed via options Notification Mgmt Menu -> Set Delays for Unverified Orders… -> Set Delays for Unverified Medication Orders.

Message: Medication order(s) unverified by nurse.

Follow-up: Displays unverified orders from the current admission. If a current admission cannot be determined, displays unverified orders for the last 30 days.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU. This notification was designed to allow nurses on teams to be notified when a medication order for a patient has not been verified. This notification should be disabled for the site with the exception of the nurse teams wishing to receive it. Enabling and disabling of notifications is accomplished via the parameter ORB PROCESSING FLAG which can be set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (completion of follow-up action, which is verification of all orders requiring verification, by one recipient deletes the alert for all recipients.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

This alert is deleted when all unverified med orders from the current admission have been verified, cancelled or no longer have a status of unverified. If current admission cannot be determined, then unverified med orders from the past 30 days are used in the deletion criteria.

☞ **NOTE:** **The Unverified Medications notification is exported as 'Disabled'. Sites can selectively enable this notification for individuals, teams, etc.**

Unverified Order(s) [UNVERIFIED ORDER]

Trigger: TaskMan monitored process (currently every 15 minutes).

Mechanism: TaskMan process searches for unverified inpatient orders. If an order was placed more than x hours previously, where x is determined by the parameter ORB UNVERIFIED ORDER, the alert is triggered. This notification will be triggered for ALL unverified orders (including medication orders.) The parameter can be accessed via options Notification Mgmt Menu -> Set Delays for Unverified Orders… -> Set Delays for All Unverified Orders.

Message: Order(s) unverified by nurse.

Follow-up: Displays unverified orders from the current admission. If a current admission cannot be determined, displays unverified orders for the last 30 days.

Recipients: Determined by parameter ORB PROVIDER RECIPIENTS. The exported value for this notification is Teams. ORB PROVIDER RECIPIENTS can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU. This notification was designed to allow nurses on teams to be notified when an order for a patient has not been verified. This notification should be disabled for the site with the exception of the nurse teams wishing to receive it. Enabling and disabling of notifications is accomplished via the parameter ORB PROCESSING FLAG which can be set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is High. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is All Recipients (completion of follow-up action, which is verification of all orders requiring verification, by one recipient deletes the alert for all recipients.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

This alert is deleted when all unverified med orders from the current admission have been verified, cancelled or otherwise no longer have a status of unverified. If current admission cannot be determined, then unverified med orders from the past 30 days are used in the deletion criteria.

☞ **NOTE:** The Unverified Orders notification is exported as ‘Disabled’. Sites can selectively enable this notification for individuals, teams, etc.

URGENT Imaging Request [URGENT IMAGING REQUEST]

Trigger: Within Radiology package

Mechanism: Radiology package determines an URGENT imaging procedure has been requested.

Message: URGENT Imaging request: <procedure> <proc D/T>.

Follow-up: NA

Recipients: Determined and passed by Radiology package. This notification was developed with the primary intention of alerting radiology technicians and clerical personnel when an urgent imaging request was made. Like other notifications, recipients can also be identified via parameter ORB PROVIDER RECIPIENTS.

Urgency: Determined by parameter ORB URGENCY. The exported value for this notification is Moderate. ORB URGENCY can be set at the User, Service, Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Deletion: Determined by parameter ORB DELETE MECHANISM. The exported value for this notification is Individual Recipient (Individual review via View Alerts.) ORB DELETE MECHANISM can be set at the Division and System levels. Values are set via an option under menu options ORB NOT MGR MENU and ORB NOT COORD MENU.

Notification Processing Matrix

		Package				System				Division				Location				Service				Team				User			
		D	E	M		D	E	M		D	E	M		D	E	M		D	E	M		D	E	M		D	E	M	
Package	D	N				N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N
	E		Y			N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y
	M			Y		N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
					N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N
System	D	N	N	N	N	N				N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N
	E	Y	Y	Y	Y		Y			N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y
	M	Y	Y	Y	Y			Y		N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
		N	Y	Y	N				N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N
Division	D	N	N	N	N	N	N	N	N	N				N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N
	E	Y	Y	Y	Y	Y	Y	Y	Y		Y			N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y
	M	Y	Y	Y	Y	Y	Y	Y	Y			Y		N	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
		N	Y	Y	N	N	Y	Y	N				N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N
Location	D	N	N	N	N	N	N	N	N	N	N	N	N	N				N	N	Y	N	N	N	Y	N	N	Y	Y	N
	E	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y			N	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y
	M	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y		Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
		N	Y	Y	N	N	Y	Y	N	N	Y	Y	N				N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N
Service	D	N	N	Y	N	N	N	Y	N	N	N	Y	N	N	N	Y	N	N				N	Y	Y	N	N	Y	Y	N
	E	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y		Y			N	Y	Y	Y	N	Y	Y	Y
	M	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y		N	Y	Y	Y	Y	Y	Y	Y
		N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N				N	N	Y	Y	N	N	Y	Y	N
Team	D	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N				N	Y	Y	N
	E	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		Y			N	Y	Y	Y
	M	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y		Y	Y	Y	Y
		N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N				N	N	Y	Y	N
User	D	N	N	Y	N	N	N	Y	N	N	N	Y	N	N	N	Y	N	N	N	Y	N	N	N	Y	N	N			
	E	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y		
	M	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	
		N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N	N	Y	Y	N				N

D = Disabled
E = Enabled
M = Mandatory
Blank = no value

Y - Indicates Notification will be delivered.
N - Indicates Notification will Not be delivered.
Note: Unless Noted otherwise, the Processing Flag will be considered "Disabled".

Lab Result Notifications

OE/RR 2.5 lab result notifications/alerts were modified to fit into the CPRS scheme. CPRS exports seven lab result-related notifications:

Lab Results	follow-up action displays all results for that order
Abnormal Lab Results (Action)	follow-up action displays all results for that order
Abnormal Lab Result (Info)	information only, results and collection date/time in alert msg
Critical Lab Results (Action)	follow-up action displays all results for that order
Critical Lab Result (Info)	information only, results and collection date/time in alert msg
Lab Threshold Exceeded	follow-up action displays all results for that order, including results that exceeded the threshold.
STAT Lab Results	follow-up action displays all results for that order

If the parameter controlling notification recipients (ORB PROCESSING FLAG), is set up improperly, it is possible for a user to receive six different alerts for one lab order (they will get Lab Results when it is resulted, Abnormal Lab Results (Action) and Abnormal Lab Result (Info) if the result is 'H' or 'L', Critical Lab Results (Action) and Critical Lab Result (Info) if the result is 'HH' or 'LL', and STAT Lab Results if the urgency for the order was STAT. [Clue: To review how a user is set up to receive notifications/alerts, use the Notifications Mgmt menu option ‘Display the Notifications a User Can Receive’.] For example, if a Chem 7 has three abnormal results, users with Abnormal Lab Results (Action) as ‘Mandatory’ will get one alert for the Chem 7. The alert’s follow-up action will display all results for the Chem 7. Users with Abnormal Lab Result (Info) as ‘Mandatory’ will get three “Information” alerts. The abnormal values and collection date/times will be in the alert message. A similar scenario exists for the two Critical Lab Result(s) notifications. In most cases, users should NOT have Lab Results and either Abnormal Lab Result(s) notification set to ‘Mandatory’.

Lab Result Notifications, cont'd

☞ **NOTE: If any notification is set to 'Mandatory' for the user's Team, user's Service, patient's Location, site's Division, or site's System, the user will get the notification. With the exception where the patient's Location (inpatient only) is set to 'Disabled'. All instances of the notification for patients in that location will be 'Disabled' and not processed. Whereas the notification for patients in other hospital locations will be processed as 'Mandatory'. This feature of CPRS was specifically included to reduce the number of abnormal and critical lab alerts for patients in critical care units like ICU. Patient location notifications are disabled via the Enable/Disable Notifications option then selecting 'Location' and the notification. This option is only available on ORMGR and clinical coordinator menus.**

To prevent multiple lab alert problems, the following setups are recommended:

- Users who want to see ALL lab results (some users process all lab alerts as part of their job), should set the Lab Results notification to 'Mandatory'. 'Disable' the other lab results notifications for the user.
- Providers who do not want to get all lab result alerts may find it best to set Abnormal Lab Results (Action) and Critical Lab Result (Info) to 'Mandatory'. There may be some duplication at times but the docs will be alerted to critical labs and also be able to review Abnormal Labs when desired. STAT Lab Results may also be a notification they wish to set to 'Mandatory', depending on how they plan to use the notifications/alerts to follow-up lab orders. Also, set Abnormal Lab Results (Info) and Critical Lab Results (Action) to 'Disabled'.

☞ **NOTE: If any notification is set to 'Mandatory' for the user's Team, user's Service, patient's Location, site's Division, or site's System, the user will get the notification.**

- Other providers will wish to get only information alerts with no follow-up action. For these users, set Abnormal Lab Result (Info) and Critical Lab Result (Info) to 'Mandatory' and the other three lab result notifications to 'Disabled'. (They may want to set the STAT Lab Results to 'Mandatory'.)
- Some providers may want to set Critical Lab Results (Action) or (Info) to 'Mandatory' and 'Disable' all other lab result notifications.

Notifications Trigger Summary

Notification	Expert Rule (Mlm)	Data Source
ABNORMAL IMAGING RESULTS		Radiology Pkg
ABNORMAL LAB RESULT (INFO)	ABNORMAL LAB RESULTS	HL7
ABNORMAL LAB RESULTS (ACTION)	ABNORMAL LAB RESULTS	HL7
ADMISSION	PATIENT ADMISSION	DGPM
CONSULT/REQUEST CANCEL/HOLD		Consults Pkg
CONSULT/REQUEST RESOLUTION		Consults Pkg
CONSULT/REQUEST UPDATED		Consults Pkg
CRITICAL LAB RESULT (INFO)	CRITICAL LAB RESULTS	HL7
CRITICAL LAB RESULTS (ACTION)	CRITICAL LAB RESULTS	HL7
DC ORDER	NEW ORDER PLACED	HL7
DECEASED PATIENT		MAS protocols, fields
DISCHARGE	PATIENT DISCHARGE	DGPM
DNR EXPIRING		ORMTIME (TaskMan)
ERROR MESSAGE		Expert System
FLAG ORDER FOR CLARIFICATION	ORDER FLAGGED FOR CLARIFICATION	OERR
FLAGGED OI EXPIRING – INPT		ORMTIME (TaskMan)
FLAGGED OI EXPIRING – OUTPT		ORMTIME (TaskMan)
FLAGGED OI ORDER - INPT	SITE FLAGGED ORDER	HL7
FLAGGED OI ORDER - OUTPT	SITE FLAGGED ORDER	HL7
FLAGGED OI RESULTS - INPT	SITE FLAGGED RESULT	HL7
FLAGGED OI RESULTS - OUTPT	SITE FLAGGED RESULT	HL7
FOOD/DRUG INTERACTION	FOOD/DRUG INTERACTION	HL7
IMAGING PATIENT EXAMINED		Radiology Pkg
IMAGING REQUEST CANCEL/HELD	IMAGING REQUEST CANCELLED/HELD	HL7
IMAGING REQUEST CHANGED		Radiology Pkg
IMAGING RESULTS		Radiology Pkg
IMAGING RESULTS AMENDED		Radiology Pkg
LAB ORDER CANCELED	LAB ORDER CANCELLED	HL7
LAB RESULTS	LAB RESULTS	HL7

Notification	Expert Rule (Mlm)	Data Source
LAB THRESHOLD EXCEEDED	LAB THRESHOLD EXCEEDED	HL7
MEDICATIONS EXPIRING		ORMTIME (TaskMan)
NEW ORDER	NEW ORDER PLACED	HL7
NEW SERVICE CONSULT/REQUEST		Consults Pkg
NPO DIET MORE THAN 72 HRS		ORMTIME (TaskMan)
ORDER CHECK		Order Checking
ORDER REQUIRES CHART SIGNATURE	ORDER REQUIRES CHART SIGNATURE	OERR
ORDER REQUIRES CO-SIGNATURE	ORDER REQUIRES CO-SIGNATURE	OERR
ORDER REQUIRES ELEC SIGNATURE	ORDER REQUIRES ELECTRONIC SIGN.	OERR
ORDERER-FLAGGED RESULTS	ORDERER FLAGGED RESULTS AVAILABLE	OERR
SERVICE ORDER REQ CHART SIGN	SERVICE ORDER REQUIRES CHART SIGN.	OERR
STAT IMAGING REQUEST		Radiology Pkg
STAT ORDER	STAT ORDER PLACED	HL7
STAT RESULTS	STAT RESULTS AVAILABLE	HL7
TRANSFER FROM PSYCHIATRY	PATIENT TRANSFERRED FROM PSYCH.	DGPM
UNSCHEDULED VISIT		MAS protocols, fields
UNVERIFIED MEDICATION ORDER		ORMTIME (TaskMan)
UNVERIFIED ORDER		ORMTIME (TaskMan)
URGENT IMAGING REQUEST		Radiology Pkg

Forwarding Alerts to Supervisors/Surrogates

The forwarding of alerts to supervisors and surrogates works as follows:

1. Identify the number of days you want an alert to be held before it is sent to the user's supervisor and/or MailMan surrogate(s). (Supervisor is determined by Kernel to be the service chief of the user's service section.) This number of days value is set in the Notification Mgmt Menu options.
2. When the alert/notification is triggered, the number of days values for forwarding to supervisor and/or surrogate are sent with the alert to the Kernel Alert utility.
3. Whenever the option XQALERT DELETE OLD is triggered, alerts older than 14 days are deleted. In addition, the algorithm searches for alerts with the forward to surrogate/supervisor number of days values greater than zero. If forwarding values are found and the recipient has not responded to the alert within the set number of days, it is forwarded to the recipient's supervisor and/or mailman surrogates.
4. If forwarding is to occur with regularity, the option XQALERT DELETE OLD must be triggered regularly. Most often this is accomplished via TaskMan. Because this option also cleans up old alerts (the archives are still kept) it should be ran daily/nightly. If you want forwarding to surrogates and supervisors to occur, the XQALERT DELETE OLD option must be queued to run regularly.
5. No mail message or bulletin is sent to the surrogate(s) or supervisor. The alert is "forwarded" to the surrogate(s) and/or supervisor. The alert will be similar to those noted below.

Example of Forwarded Alerts

```
1.   HOOD,ROBI (H2591): New order(s) placed.
       Forwarded by: ANDERSON,CURTIS  Generated: 07/02/97 16:26:36
       ALERT NOT PROCESSED BY ANDERSON,CURTIS
2.   FEET,SMEL (F1990): New order(s) placed.
       Forwarded by: ANDERSON,CURTIS  Generated: 07/02/97 14:40:32
       ALERT NOT PROCESSED BY ANDERSON,CURTIS
```

Parameter Descriptions

ORB FORWARD SUPERVISOR: Hold Days before Forward to Supervisor

This parameter is the number of days before a notification is forwarded to a recipient's supervisor. The maximum is 30 days. If not indicted or zero, the notification will not be forwarded. For example, if a notification has a value of 14 for this parameter, it will be forwarded to the supervisor of each recipient who hasn't processed the notification after 14 days. Determination of recipients who have not processed the notification/alert is made when the option XQALERT DELETE OLD is processed. Supervisors are determined by the Kernel Alert Utility to be the user's service/section chief. Alerts are not forwarded to supervisors of recipients who have processed the alert within 14 days or who have processed the alert within the number of days identified in the parameter. If the value of this parameter is zero or non-existent, the alert/notification is never forwarded.

ORB FORWARD SURROGATES: Hold Days before Forward to Surrogates

This parameter is the number of days before a notification is forwarded to a recipient's surrogates. The maximum is 30 days. If not indicated or zero, the notification will not be forwarded. For example, if a notification has a value of 14 for this parameter, it will be forwarded to the surrogates of each recipient who haven't processed the notification after 14 days. Determination of recipients who have not processed the notification/alert is made when the option XQALERT DELETE OLD is processed. Surrogates are determined by the Kernel Alert Utility to be the user's MailMan surrogates. Alerts are not forwarded to surrogates of recipients who have processed the alert within 14 days or who have processed the alert within the number of days identified in the parameter. If the value of this parameter is zero or non-existent, the alert/notification is never forwarded.

Debugging Time-Driven Notifications

Usually the reason time-driven alerts are not triggering is the national term is not mapped and/or the expiring or unverified orders do not exist within the correct time range with the correct order status. Here are some useful steps in troubleshooting time-driven notifications/alerts.

1. Review the mechanism and logic for the notification in the notification description above. Make sure all mapping (if appropriate) is complete and accurate.
2. Check to make sure the notification system is enabled:

   W $$GET^XPAR("SYS^PKG","ORB SYSTEM ENABLE/DISABLE",1,"I")

   It should return an "E".
3. Check the last time the process was queued:

   W $$GET^XPAR("SYS","ORB LAST QUEUE DATE",1,"I")

☞ **HINT: You can use ^XPAREDIT to change this value back to an earlier date time so you will process a wider date/time range. Otherwise it only looks at orders since the last time the process was queued.**

4. For Unverified Order notifications, check to see how long an order had to go unverified before it would trigger the alert (the delay period):

   W $$GET^XPAR("ALL","ORB UNVERIFIED ORDER",1,"I")

   Also, this notification will not be present for orders older than 30 days or from a previous admission.

☞ **HINT: You can use Notification mgmt options or ^XPAREDIT to modify this value to be 0 (zero) hours so you can place an order then run the time-driven alerts code. You can run also the code directly via TNOTIFS^ORB3TIM1 and bypass ORMTIME. The code looks for unverified orders between the last queue date/time and the delay date/time. The exceptions can be found in the notification's description. (Order status, outpatient order, etc.) Finally, EN^ORB3 is called to determine recipients and send the alert.**

Debugging Time-Driven Notifications, cont'd

5. For DNR Expiring notifications, check to see if the DNR term has been mapped properly:

   W $$TERMLKUP^ORB31(.ORBY,"DNR")

   The function should return "101.43", with ORBY equal to something like "ORBY(1)=2581^Do Not Resuscitate". (101.43 is the Orderable Item file.) Orders with a status noted in the notification's description or for a deceased patient are screened out. Finally, check to see if the orderable item of the expiring order is the same as the orderable item for the mapped DNR term:

   W $$OI^ORQOR2(<expiring order number>)

   If the returned orderable item equals the mapped DNR term's orderable item, EN^ORB3 is called to determine recipients and send the alert.

   Remember, you can trigger time-driven notifications/alerts directly via TNOTIFS^ORB3TIM1 and bypass ORMTIME.

Notification Processing Flowchart with Related Parameters

Package data or HL7 event initiates process

↓

Package identifies list of potential recipients (optional)

↓

Package or HL7 event invokes main notification processing algorithm

↓

Continue if parameter ORB SYSTEM ENABLE/DISABLE = "Enabled"
[option "Enable or Disable Notification System"]

↓

Continue if potential recipients exist for the notification - true if any of the following conditions exist:
Parameter ORB PROCESSING FLAG has one or more "Enabled" or "Mandatory" values for the notification
[option "Enable/Disable Notifications"]
Parameter ORB DEFAULT RECIPIENT DEVICES has a value for the notification
[option "Set Default Recipient Device(s) for Notifications"]
Parameter ORB DEFAULT RECIPIENTS has a "Yes" value for the notification
[option "Set Default Recipients for Notifications"]

↓

Queue notification processing off to TaskMan via Resource file entry ORB NOTIFICATION RESOURCE

↓

TaskMan initiates queued notification processing when resources become available

↓

Send alert to devices indicated for this notification in parameter ORB DEFAULT RECIPIENT DEVICES
[option "Set Default Recipient Device(s) for Notifications"]

↓

Send alert to users and OE/RR team users indicated for this notification in parameter ORB DEFAULT RECIPIENTS
[option "Set Default Recipient(s) for Notifications"]

↓

Obtain list of potential notification/alert recipients
If notification is FLAGGED OI ORDER – INPT, obtain the related orderable item
Add users/team users/devices* that flagged this orderable item via parameter ORB OI ORDER – INPT to list
[option "Flag Orderable Item(s) to Send Notifications" → "Flag INPATIENT orders/results. " → "Flag Inpatient ORDERS.… "]
If notification is FLAGGED OI ORDER – OUTPT, FLAGGED OI RESULTS – INPT, or FLAFFED OI RESULTS – OUTPT process same as FLAGGED OI ORDER – INPT but with respective parameters ORB OI ORDER – OUTPT, ORB OI RESULTS – INPT and ORB OI RESULTS – OUTPT
If notification is LAB RESULTS, ABNORMAL LAB RESULTS (ACTION), STAT RESULTS (lab only), or CRITICAL LAB RESULTS (ACTION)
Find patient's existing alert with the same lab identifier and add existing alert's recipients to list
If triggering package had identified potential recipient(s), add them to list
If the parameter ORB PROVIDER RECIPIENTS has a value for this notification, obtain related users
[option "Set Provider Recipients for Notifications"]
If value contains "P" add patient's Primary (inpatient) provider to list
If value contains "A" add patient's Attending physician to list
If value contains "T" add users on patient's OE/RR Teams to list
If value contains "O" add order's Ordering/requesting provider to list (order number must be available)
If notification is ORDER REQUIRES ELEC SIGNATURE and the ordering provider does not have the ORES key, review OE/RR teams that contain both the patient and ordering provider. Add team users holding ORES to list.

* Devices that flag an orderable item will always receive the alert for that orderable item.

↓

Use parameter ORB PROCESSING FLAG and on/off algorithm to determine each potential recipient's "On/Off" value – send alert to users with "On" value [option "Enable/Disable Notifications"]
Refer to "Notification Algorithm for Processing Potential Recipients" document for more information.

Notification Algorithm for Processing Potential Recipients

Each user on the potential recipient list is evaluated according to values set for entities identified in the parameter ORB PROCESSING FLAG. The parameter's entity values are processed in the following order to determine if that particular user should receive the notification/alert or not. If a user on the recipient list has the notification "ON" (they will receive the alert). If the user has a Kernel Alert surrogate, the surrogate will receive the alert. The original user will not receive the alert if he has a surrogate!

☞ **NOTE: You can access these entity values via options "Enable/Disable Notifications" and "Display the Notifications a User Can Receive."**

The first condition met below stops the processing and determines whether or not the user will receive the notification/alert. Processing order:

a. If the USER's value for the notification is Mandatory or Enabled, the user will receive the alert.

b. If the user's TEAM value for the notification is Mandatory, the user will receive the alert.

c. If the user's TEAM value for the notification is Disabled, the user will NOT receive the alert.

d. If the user's SERVICE/SECTION value for the notification is Mandatory, the user will receive the alert.

e. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is Mandatory, the user will receive the alert.

f. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is Disabled, the user will NOT receive the alert.

g. If the user's DIVISION* value for the notification is Mandatory (and PATIENT's HOSPITAL LOCATION has no value), the user will receive the alert.

h. If the SYSTEM value for the notification is Mandatory (and DIVISION and PATIENT's HOSPITAL LOCATION have no value), the user will receive the alert.

i. If the PACKAGE (OERR-exported) value for the notification is Mandatory (and SYSTEM, DIVISION*, and PATIENT's HOSPITAL LOCATION have no value), the user will receive the alert.

j. If the USER's value for the notification is Disabled, the user will NOT receive the alert.

k. If the user's TEAM value for the notification is Enabled, the user will receive the alert.

l. If the user's SERVICE/SECTION value for the notification is Disabled, the user will NOT receive the alert.

m. If the user's SERVICE/SECTION value for the notification is Enabled, the user will receive the alert.

Notification Algorithm for Processing Potential Recipients, cont'd

n. If the PATIENT's HOSPITAL LOCATION (inpatients only) value for the notification is Enabled, the user will receive the alert.

o. If the user's DIVISION* value for the notification is Disabled, the user will NOT receive the alert.

p. If the user's DIVISION* value for the notification is Enabled, the user will receive the alert.

q. If the SYSTEM value for the notification is Disabled, the user will NOT receive the alert.

r. If the SYSTEM value for the notification is Enabled, the user will receive the alert.

s. If the PACKAGE (OERR-exported) value for the notification is Disabled, the user will NOT receive the alert.

t. If the PACKAGE (OERR-exported) value for the notification is Enabled, the user will receive the alert.

u. If none of the above parameter values are found, the notification is processed as Disabled and the user will NOT receive the alert.

☞ **NOTE: All notifications will have a value (Enabled, Disabled or Mandatory), at the package level when exported.**

☞ **NOTE: * If the user has multiple divisions, the first division found with a "Mandatory" value is used. If no mandatory division values exist and a division has an "Enabled" value, that division is used. If neither mandatory nor enabled division values exist and a division has a "Disabled" value, that division is used.**

Using Kernel Alert Option XQALERT DELETE OLD

The Kernel Alert option XQALERT DELETE OLD is used to perform several alert clean-up and management jobs. These jobs include:

1. Delete alerts unprocessed after 14 days.
2. Purge alerts from the Alert Tracking file.
3. Forward alerts to supervisors.
4. Forward alerts to MailMan surrogates.
5. Forward alerts to Backup Reviewers.

The option XQALERT DELETE OLD can be ran directly or as a queued job. As a queued job, the option should be setup to run through TaskMan on a regular basis, preferably once per day. This is accomplished by adding XQALERT DELETE OLD as an entry in the OPTION SCHEDULING file.

Delete Alerts Unprocessed after 14 Days

All alerts unprocessed after 14* days are deleted and will no longer appear on the "View Alerts" display. The date/time of deletion by this method is noted in the "Auto deleted:" field of the Alert Tracking file. Note: the alerts will continue to be stored in the Alert Tracking file for another 16 days. (Unless specified otherwise, alerts are deleted from the Alert Tracking file after 30 days.)

*The 14 days retention period before deletion is a default value. This value can be changed through the TASK PARAMETERS field of the OPTION SCHEDULING file. A numeric value in the TASK PARAMETERS field will replace the default alert retention value of 14 days.

Purge Alerts from the Alert Tracking File

Purges all alerts older than 30 days from the Alert Tracking file. If the alert also exists in the Alert file, it is deleted from there as well. The 30 day default value can be modified by using the Notification Mgmt option "9 Archive (delete) after <x> Days" (option ORB3 ARCHIVE PERIOD), to enter a value for parameter ORB ARCHIVE PERIOD. This value is delivered with the alert to Kernel and calculates a value for the RETENTION DATE field of the Alert Tracking file. Purging alerts from the alerts files is especially useful to sites with a high volume of alerts in that it saves disk space and response time.

Forward Alerts to Supervisors

Alerts unprocessed after a specified period are forwarded to the alert recipient's supervisor (service/section chief.) If no forwarding value exists, the alert is not forwarded. The forwarding value can be set by using Notification Mgmt option "10 Forward Notifications ..." then selection "1 Forward Unprocessed Notification to Supervisor" (option ORB3 FORWARD SUPERVISOR), to enter a value for parameter ORB FORWARD SUPERVISOR.

Forward Alerts to MailMan Surrogates

Alerts unprocessed after a specified period are forwarded to the alert recipient's MailMan surrogates.

If no forwarding value exists, the alert is not forwarded. The forwarding value can be set by using Notification Mgmt option "10 Forward Notifications ..." then selection "2 Forward Unprocessed Notification to Surrogates" (option ORB3 FORWARD SURROGATES), to enter a value for parameter ORB FORWARD SURROGATES.

Example of a Forwarded Alert:

```
1.   HOOD,ROBI (H2591): New order(s) placed.
      Forwarded by: SMITH,JOHN  Generated: 07/02/00 16:26:36
      ALERT NOT PROCESSED BY SMITH,JOHN
```

Forward Alerts to Backup Reviewers

Alerts unprocessed after a specified period are forwarded to the Backup Reviewer as designated by the ALERT BACKUP REVIEWER parameter. If no forwarding value exists, the alert is not forwarded. The forwarding value, which is the number of days the user has to respond to the alert. After the forwarding value, or number of days elapses, CPRS forwards the alert to another reviewer. You can enter a forwarding value for parameter ORB FORWARD BACKUP REVIEWER using Notification Mgmt option "10 Forward Notifications ..." then selection "3 Forward Unprocessed Notification to Bkup Reviewer" (option ORB3 FORWARD BACKUP REVIEWER). The maximum is 30 days. If not indicated or zero, the notification will not be forwarded. The Backup Reviewer, the individual who will receive the alert, can be set via the option "Set Backup Reviewer for Alerts" (XQAL SET BACKUP REVIEWER) on the Alert Management (XQALERT MGR) menu.

For example, if you set the ORB FORWARD BACKUP REVIEWER parameter to 14, the alert will be forwarded to the backup reviewer of each recipient who hasn't processed the notification after 14 days. The Kernel Alert Utility determines which recipients have not processed their alerts in the specified time and who the back up reviewer for each recipient is.

Appendix C: Notification Parameters in CPRS 1 – Technical Overview

Introduction

CPRS Notifications uses the Parameter file [#8989.5] to export values for parameters that determine how notifications are processed. Some of these parameters replaced fields in the Notifications file [#100.9]; others are new in CPRS. When each parameter is defined and set up via the Parameter Definition file [#8989.51], a set of entity relationships is established. Most CPRS Notification parameters were set up with links to the "Package" entity. Hence, the exported notification "defaults" are found as parameter values for package entity "Order Entry/Results Reporting." Notification parameter values for package entities (Order Entry/Results Reporting) should never be modified. Changes specific to your site can be made for system, division, and other entities depending on how each parameter is defined. (Refer to CPRS Install documents for a listing of exported default values.)

☞ **NOTE: Some parameters have a "Location" entity type. Only inpatient location entities are used. Outpatient location entities are ignored because a patient's outpatient location cannot be reliably determined and a patient can have several simultaneous outpatient locations.**

Parameters

ORB ARCHIVE PERIOD [Option: ORB3 ARCHIVE PERIOD]

This parameter indicates the number of days to archive a notification in the Alert Tracking file [#8992.1]. If not indicated, the default period of 30 days is used. The maximum number of days is 100,000 or about 220 years. When a notification/alert is triggered, this value is passed to the Kernel Alert Utility. Kernel Alerts stores the value with each individual alert in the Alert Tracking File [^XTV(8992.1]. The Kernel Alert Utility handles the actual display, archiving, and deletion of alerts.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

Customization Suggestion:

- If you wish to keep alerts for a notification as long as possible, set this value to its maximum of 100,000 (about 220 years.)

ORB DEFAULT RECIPIENT DEVICES [Option: ORB3 DEFAULT DEVICE RECIPIENTS]

This parameter sets devices as default recipients of a notification, regardless of patient. A value of "Yes" indicates the device always receives the notification when it is triggered. Example devices include printers, terminals, and files.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

Customization Suggestions:

- Set a file to receive every instance of a notification useful in meeting JCAHO requirements.
- Troubleshoot notification occurrences by sending them to a printer or a file.
- Set a file to receive every instance of a notification for research purposes. Later parse the file removing key data for use in a spreadsheet or research database.

ORB DEFAULT RECIPIENTS [Option: ORB3 DEFAULT RECIPIENTS]

This parameter sets teams and/or users as default recipients of a notification, regardless of patient. A value of "Yes" indicates the team/user always receives the notification when it is triggered – despite values in the ORB PROCESSING FLAG parameter.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
```

Customization Suggestions:

- Set up a dietician team to receive all instances of the Food/Drug Interaction alert by using this parameter to set that team as a "Default Recipient" for the Food/Drug Interaction notification.

☞ **NOTE: Do not add patients to these teams. If patients exist on these teams, the dieticians will also receive alerts for notifications with an ORB PROVIDER RECIPIENT value containing "T". To prevent dieticians on this team from receiving unwanted alerts, set the team's ORB PROCESSING FLAG parameter values to Disabled for all Mandatory notifications. (With patch OR*3*74, Disabled Team values take precedence over Mandatory values at all entity levels except User.)**

- Set up a QA team to receive all instances of a notification.

ORB DELETE MECHANISM [Option: ORB3 DELETE MECHANISM]

This parameter determines how alerts are deleted when a successful alert follow-up action is taken or a user views an “Information Only” alert. It is a set of codes including:

- **I** (Individual Recipient): delete the notification for an individual recipient when:
  - That individual completes the follow-up action on notifications with associated follow-up action.
  - That individual reviews notifications without follow-up actions.
- **A** (All Recipients): delete the notification for all recipients when:
  - Any recipient completes the follow-up action on notifications with follow-up actions.
  - Any recipient reviews notifications without follow-up actions.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

ORB FLAGGED ORDERS BULLETIN [Option: ORB3 FLAGGED ORDERS BULLETIN]

This parameter is used to determine if a bulletin should be sent when an order is "flagged for clarification." A "Yes" indicates a MailMan bulletin is sent to the order's Current Provider (usually the Ordering Provider) when the order is flagged. This option has no effect on the Flagged Order for Clarification notification that is also triggered when an order is flagged for clarification.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Service
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 4                    ENTITY TYPE: System
```

Customization Suggestion:

- If you have a service that prefers bulletins over notifications/alerts when an order is flagged, set this parameter to "Yes" for the service and "Disable" the notification "Flagged Order for Clarification" for the service via the ORB PROCESSING FLAG parameter. Furthermore, if you have a user within that service who prefers notifications/alerts over bulletins when an order is flagged, set this parameter to "No" for the user and set the user's processing flag value for the notification "Flagged Order for Clarification" to be "Mandatory."

ORB FORWARD BACKUP REVIEWER [Option: ORB3 FORWARD BACKUP REVIEWER]

This new parameter supports Kernel Alert functionality that allows users to identify a user (backup reviewer) to receive unattended alerts after x days. The new parameter indicates how many days to wait before forwarding an alert to the backup reviewer. (Specifying a user's backup reviewer is accomplished via Kernel Alert option XQAL SET BACKUP REVIEWER.) This is similar to current functionality that forwards alerts to a user's surrogate or supervisor. The value exported with this patch for each OE/RR notification/alert on your system is 0 (zero.) A zero indicates the notification/alert will never be forwarded to the backup reviewer. This new parameter does not affect TIU and non-OE/RR alerts.

Note: You must change the parameter value for each notification/alert your site intends to be forwarded to the backup reviewer.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

ORB FORWARD SUPERVISOR [Option: ORB3 FORWARD SUPERVISOR]

This parameter indicates how many days to hold an unprocessed alert before forwarding it to the user's supervisor. The maximum is 30 days. If not indicated or zero, the notification is never forwarded. For example, if a notification has a value of "14" for this parameter, it is forwarded to the supervisor of each recipient who hasn't processed the notification within 14 days. Determination of recipients who have not processed the notification and their supervisors is made by the Kernel Alert Utility. For this purpose, Kernel Alerts recognizes the user's service/section chief as supervisor.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

ORB FORWARD SURROGATES [Option: ORB3 FORWARD SURROGATES]

This parameter indicates how many days to hold an unprocessed alert before forwarding it to the user's MailMan surrogates. The maximum is 30 days. If not indicated or zero, the notification is never forwarded. For example, if a notification has a value of 14 for this parameter, it is forwarded to the MailMan surrogates of each recipient who hasn't processed the notification within 14 days. Determination of recipients who have not processed the notification and their surrogates is made by the Kernel Alert Utility.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

ORB LAST QUEUE DATE [Option: No User Interaction]

This parameter indicates the last date/time the Driven-driven notifications were triggered.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: System
```

Customization Suggestion:

- Do not modify this parameter unless you desire an unrelenting hail of expiring order alerts and riotous user behavior.

ORB OI EXPIRING – INPT [Option: ORB3 FLAG ORDERABLE ITEMS]

This parameter is used to trigger the FLAGGED OI EXPIRING - INPT notification/alert when a specific orderable item is expiring for an inpatient. For the notification to be triggered, the orderable item selected via this parameter must match the order's orderable item and the patient must be an inpatient. Orders are linked to orderable items through the order dialog setup. OE/RR Teams, individual users or devices can be set up to receive the alert for one or more orderable items by selecting the desired team, user or device via this parameter. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL inpatients. (If a device is added to the potential recipient list, it will always receive the alert.) If the value is "NO", the entity (user, team, device), flagging the

orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team. (If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.) Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Device
```

Customization Suggestions:

- Flag orderable items for restraints/protective devices that need to be renewed every 24 hours.
- Flag orderable items of importance to JCAHO.
- Flag orderable items for telemetry orders.
- Send an alert to a printer whenever a particular orderable item is ordered.

ORB OI EXPIRING – OUTPT [Option: ORB3 FLAG ORDERABLE ITEMS]

This parameter is used to trigger the FLAGGED OI EXPIRING - OUTPT notification/alert when a specific orderable item is expiring for an outpatient. For the notification to be triggered, the orderable item selected via this parameter must match the order's orderable item and the patient must be an outpatient. Orders are linked to orderable items through the order dialog setup. OE/RR Teams, individual users or devices can be set up to receive the alert for one or more orderable items by selecting the desired team, user or device via this parameter. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL inpatients. (If a device is added to the potential recipient list, it will always receive the alert.) If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient's primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team. (If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.) Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Device
```

Customization Suggestions:

- Flag orderable items for HBHC orders.
- Flag orderable items of importance to JCAHO.
- Send an alert to a printer whenever a particular orderable item is ordered.

ORB OI ORDERED – INPT [Option: ORB3 FLAG ORDERABLE ITEMS]

This parameter identifies or “flags” an orderable item to trigger the FLAGGED OI ORDER - INPT notification/alert when the orderable item is ordered for an inpatient. For the notification to be triggered, the orderable item selected via this parameter must match the order’s orderable item and the patient must be an inpatient. Orders are linked to orderable items through the order dialog setup. OE/RR Teams, individual users or devices can be set up to receive the alert for one or more orderable items by selecting the desired team, user or device via this parameter. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL inpatients. (If a device is added to the potential recipient list, it will always receive the alert.) If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient’s primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team. (If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.) Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Device
```

Customization Suggestions:

- If an infection control officer wants to receive an alert any time a special antibiotic is ordered, identify that user as the entity, then select the antibiotic’s orderable item. (The orderable item must be linked with applicable order dialogs.)
- Alert the chief of radiology whenever a particularly expensive imaging procedure is ordered.
- Alert a QA team whenever special lab tests are ordered.
- Send an alert to a printer whenever a particular orderable item is ordered.

ORB OI ORDERED – OUTPT [Option: ORB3 FLAG ORDERABLE ITEMS]

This parameter identifies or “flags” an orderable item to trigger the FLAGGED OI ORDER - OUTPT notification/alert when the orderable item is ordered for an outpatient. For the notification to be triggered, the orderable item selected via this parameter must match the order’s orderable item and the patient must be an outpatient. Orders are linked to orderable items through the order dialog setup. OE/RR Teams, individual users or devices can be set up to receive the alert for one or more orderable items by selecting the desired team, user or device via this parameter. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL outpatients. (If a device is added to the potential recipient list, it will always receive the alert.) If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient’s primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team. (If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.) Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Device
```

Customization Suggestions:

- Alert a clinician whenever a particular orderable item is ordered for patients on his team.
- Send an alert to a printer whenever a particular orderable item is ordered.

ORB OI RESULTS – INPT [Option: ORB3 FLAG ORDERABLE ITEMS]

This parameter identifies or “flags” an orderable item to trigger the FLAGGED OI RESULTS - INPT notification/alert when a related order is resulted for an inpatient. This only works for results-based orderable items (Lab, Imaging, and Consults.) For the notification to be triggered, the orderable item selected via this parameter must match the related order’s orderable item and the patient must be an inpatient. Orders are linked to orderable items through the order dialog setup. OE/RR Teams, individual users or devices can be set up to receive the alert for one or more orderable items by selecting the desired team, user or device via this parameter. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL outpatients. (If a device is added to the potential recipient list, it will always receive the alert.) If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient’s primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team. (If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.) Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Device
```

Customization Suggestions:

- If an infection control officer wants to receive an alert any time a particular lab procedure is resulted, identify that user as the entity then select the procedure’s orderable item. (The orderable item must be linked with applicable order dialogs.)
- Send an alert to a file whenever a particular orderable item is resulted.

ORB OI RESULTS – OUTPT [Option: ORB3 FLAG ORDERABLE ITEMS]

This parameter identifies or “flags” an orderable item to trigger the FLAGGED OI RESULTS - OUTPT notification/alert when a related order is resulted for an outpatient. This only works for results-based orderable items (Lab, Imaging, and Consults.) For the notification to be triggered, the orderable item selected via this parameter must match the related order’s orderable item and the patient must be an outpatient. Orders are linked to orderable items through the order dialog setup. OE/RR Teams, individual users or devices can be set up to receive the alert for one or more orderable items by selecting the desired team, user or device via this parameter. If the value for the orderable item flag is "YES", the entity (user, team, device), flagging the orderable item becomes a potential alert recipient for ALL outpatients. (If a device is added to the potential recipient list, it will always receive the alert.) If the value is "NO", the entity (user, team, device), flagging the orderable item only becomes a potential alert recipient if that entity is "linked" to the patient. Users are linked to a patient if the user is the patient's attending physician, primary inpatient provider, PCMM primary care practitioner or PCMM associate provider. In addition, users are linked to a patient if the user shares an OE/RR team with the patient or holds a team position assignment on the patient’s primary PCMM team. OE/RR teams are linked to a patient if the patient is on the OE/RR team. (If a patient is on an OE/RR team that has flagged an orderable item, all users on that team become potential alert recipients.) Devices (printers, etc.) are linked to a patient if the device and patient are on the same OE/RR team.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Device
```

Customization Suggestions:

- Alert a clinician whenever a particular orderable item is resulted for patients on his team.
- Send an alert to a file whenever a particular orderable item is resulted.

ORB PROCESSING FLAG [Option: ORB3 PROCESSING FLAG]

This parameter determines notification/alert recipients. It replaces the Notifications file Processing Flag field. Whereas the field contained the set of codes “D”isabled, “E”nabled, “M”andatory, and “N”avigation, the parameter contains “E”nabled, “D”isabled and “M”andatory. Unlike most parameters, ORB PROCESSING FLAG is not used to determine an overall value based on Entity Precedence. Instead, a Notifications algorithm obtains the ORB PROCESSING FLAG value for all entity levels when determining alert recipients. (Refer to Notifications documents for a detailed explanation of this process.)

☞ **NOTE: If a team’s or user’s ORB DEFAULT RECIPIENTS parameter value for a notification is ‘’True,” that Team or User will always receive that notification/alert, regardless of any ORB PROCESSING FLAG value. This is also true for devices identified via the ORB DEFAULT RECIPIENT DEVICES parameter.**

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Team (OE/RR)
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Service
ENTITY PRECEDENCE: 4                    ENTITY TYPE: Location
ENTITY PRECEDENCE: 5                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 6                    ENTITY TYPE: System
```

Customization Suggestions:

- Disable Critical Lab Result alerts for ICU patients by setting the ICU (Location entity), value of this parameter to “Disabled” for the Critical Lab Results notifications. (For this parameter, Location entity values take precedence over Division and System entity values, even if those values are “Mandatory.”) If a critical lab result now occurs for a patient in ICU, the alert will not be triggered. Critical Lab Result alerts continue to be possible for patients in other locations.
- To send only one particular notification/alert (and no others) to an OE/RR team, set the team’s parameter value to Mandatory for that notification and all set other team notification parameter values to Disabled. If a user on the team wants to receive additional notifications/alerts, the user can set his parameter value to Enabled or Mandatory for each desired notification.

ORB PROVIDER RECIPIENTS [Option: ORB3 PROVIDER RECIPIENTS]

This parameter determines if the ordering provider, attending physician, inpatient primary provider, OE/RR patient-related teams, PCMM teams, PCMM primary care practitioner, PCMM associate provider or user entering the order are considered for potential alert recipients. This parameter replaces the Recipient Restrictions, Exclude Attending and Exclude Primary fields in the Notifications file and the Notification to Physician field in the Order Parameter file. The value for this parameter can be any one or combination of the codes listed below. These codes indicate a site's preferred notification recipients by the user title or relationship to the patient. The codes include:

P (Primary Provider): deliver notification to the patient's (inpatient) Primary Provider.

A (Attending Physician): deliver notification to the patient's Attending Physician.

T (Patient Care Teams): deliver notification to the patient's OE/RR Teams (personal patient and team lists are evaluated for potential recipients) and to devices on an OE/RR team.

O (Ordering Provider): deliver notification to the provider who placed/requested the order (if the notification is order-based.)

M (PCMM Team): deliver notification to the users/providers linked to the patient via PCMM Team Position assignments.

E (Entering User): deliver notification to the user/provider who entered the order's most recent activity.

R (PCMM PCP): deliver notification to the patient's PCMM Primary Care Practitioner (PCP).

S (PCMM Assoc Prov.): deliver notification to the patient's PCMM Associate Provider.

☞ **NOTE: The providers, physicians, and teams must be set up properly and accurately for correct recipient determination.**

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

Customization Suggestion:

- Create teams for inpatient nurses and/or clerks to receive an alert when new orders are placed on patients in their ward. When creating the team, set up an autolink to the desired ward(s). This will automatically add and remove patients to the team when they are admitted, transferred or discharged. Next, set this parameter to "T" for the New Order notification to indicate the alert should only go to teams. (Most attendings, primary providers, and ordering providers will not want to receive an alert every time one of their patients has a new order placed.) [Please remember a "T" indicates all team and personal lists that include the patient will be evaluated for potential alert recipients.]

  Next, use the parameter ORB PROCESSING FLAG to set the value for the New Order notification to "Disabled" for your System or Division. (Disabling the notification for the System/Division will prevent most teams, personal lists and users from receiving the alert.

  Finally, use the ORB PROCESSING FLAG parameter to set the New Order notification value to "Mandatory" or "Enabled" for the teams you created. (A setting of "Enabled" will allow users on the team to disable the notification/alert if desired whereas "Mandatory" will send the alert to all users on that team.)

ORB SORT METHOD [Option: ORB3 SORT METHOD]

This parameter determines how notifications are sorted in the GUI display. Possibilities include:

P:	Patient:	sort by patient name.
T:	Type:	sort by notification type (Name field in file 100.9.)
U:	Urgency:	sort by notification's value in the ORB URGENCY parameter.

Within these sort methods notifications are presented in reverse chronological order.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 3                    ENTITY TYPE: System
```

ORB SYSTEM ENABLE/DISABLE [Option: ORB3 SYSTEM ENABLE/DISABLE]

This parameter determines if any CPRS Notification processing will occur. In effect, it enables or disables all notification processing.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                    ENTITY TYPE: System
```

☞ **NOTE: This parameter disables all types of notifications. Additional functionality exists in the CPRS Expert System to inactivate specific rule-based notifications.**

ORB URGENCY [Option: ORB3 URGENCY]

The ORB URGENCY parameter is used in the GUI display. If an entity's ORB SORT METHOD parameter value is set to "Urgency," notifications displayed in the GUI are sorted by their value in this parameter. Possible values include:

1:	High:	display these notifications at the top of the GUI alert list.
2:	Moderate:	display these notifications in the middle of the GUI alert list.
3:	Low:	display these notifications at the bottom of the GUI alert list.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: User
ENTITY PRECEDENCE: 2                    ENTITY TYPE: Service
ENTITY PRECEDENCE: 3                    ENTITY TYPE: Division
ENTITY PRECEDENCE: 4                    ENTITY TYPE: System
```

ORBC CONVERSION [Option: No User Interaction]

This parameter indicates whether or not the notification conversion from OE/RR 2.5 has occurred. It prevents overwriting of existing parameter values if CPRS must be installed multiple times.

```
ENTITY PRECEDENCE: 1                    ENTITY TYPE: System
```

☞ **NOTE: Do not modify this parameter – unless, of course, you desire a maelstrom of user discontent.**

Option –> Parameter Mapping

Option	Parameter
CPRS Manager Menu	
PE CPRS Configuration (Clin Coord) ...	
NO Notification Mgmt Menu ...	**Parameter**
1 Enable/Disable Notifications	ORB PROCESSING FLAG
2 Erase Notifications	
3 Set Urgency for Notifications (GUI)	ORB URGENCY
4 Set Deletion Parameters for Notifications	ORB DELETE MECHANISM
5 Set Default Recipient(s) for Notifications	ORB DEFAULT RECIPIENTS
6 Set Default Recipient Device(s) for Notifications	ORB DEFAULT RECIPIENT DEVICES
7 Set Provider Recipients for Notifications	ORB PROVIDER RECIPIENTS
8 Flag Orderable Item(s) to Send Notifications	
a. Flag INPATIENT orders/results/expiring orders.	
1) Flag Inpatient ORDERS.	ORB OI ORDERED – INPT
2) Flag Inpatient RESULTS.	ORB OI RESULTS – INPT
3) Flag Inpatient EXPIRING orders.	ORB OI EXPIRING – INPT
b. Flag OUTPATIENT orders/results/expiring orders.	
1) Flag Outpatient ORDERS.	ORB OI ORDERED – OUTPT
2) Flag Outpatient RESULTS.	ORB OI RESULTS – OUTPT
3) Flag Outpatient EXPIRING orders.	ORB OI EXPIRING – OUTPT
9 Archive(delete) after <x> Days	ORB ARCHIVE PERIOD
10 Forward Notifications...	
a. Forward Unprocessed Notification to Supervisor	ORB FORWARD SUPERVISOR
b. Forward Unprocessed Notification to Surrogates	ORB FORWARD SURROGATES
11 Set Delays for Unverified Orders...	
a. Set Delay for All Unverified Orders	ORB UNVERIFIED ORDER
b. Set Delay for Unverified Medication Orders	ORB UNVERIFIED MED ORDER
12 Set Notification Display Sort Method (GUI)	ORB SORT METHOD
13 Send Flagged Orders Bulletin	ORB FLAGGED ORDERS BULLETIN
14 Determine Recipients for a Notification	
15 Display Patient Alerts and Alert Recipients	
16 Enable or Disable Notification System	ORB SYSTEM ENABLE/DISABLE
17 Display the Notifications a User Can Receive	

PP Personal Preferences	
NO Notification Mgmt Menu ..	**Parameter**
1 Enable/Disable My Notifications	ORB PROCESSING FLAG
2 Erase All of My Notifications	
3 Set Notification Display Sort Method (GUI)	ORB SORT METHOD
4 Send me a MailMan bulletin for Flagged Orders	ORB FLAGGED ORDERS BULLETIN
5 Show Me the Notifications I Can Receive	

Appendix D: Exported (Default) Values for Notification Parameters

Introduction

CPRS Notifications use the Parameter file [#8989.5] to export values for parameters that determine how notifications will be processed. Some of these parameters replaced fields in the Notifications file [#100.9]; others are new in CPRS. When each parameter is defined and set up via the Parameter Definition file [#8989.51], a set of entity relationships is established. Most CPRS Notification parameters were set up with links to the "Package" entity in order to export default values with CPRS. Hence, the exported notification "defaults" are found as parameter values for package entity "Order Entry/Results Reporting." Notification parameter values for package entities (Order Entry/Results Reporting) should never be modified. Changes specific to your site can be made for system, division, and other entities depending on how each parameter is defined. (For additional information regarding notification parameters, refer to the Parameters documents.)

Overview

The **ORB ARCHIVE PERIOD** parameter indicates the number of days to archive the notification in the Alert Tracking file [#8992.1]. CPRS exports a value of "30" days for all notifications to indicate all alerts derived from OE/RR Notifications will be deleted after 30 days.

The **ORB DELETE MECHANISM** parameter is used to determine how alerts are deleted when a successful alert follow-up action is taken or a user views an "Information Only" alert. The exported default value for the Notifications Expert Panel determined each notification and test site experience.

The **ORB ERASE ALL** parameter is used to indicate if a user will have access to an option that allows the user to delete alerts. A value of "Yes" indicates that the user can delete all of the user's alerts. This parameter will become available with Patch OR*3*85.

The **ORB FLAGGED ORDERS BULLETIN** parameter is used to determine if a bulletin should be sent when an order is flagged. The exported default value is "No," the bulletin will not be sent.

The **ORB FORWARD SUPERVISOR** parameter indicates how many days to hold an unprocessed alert before forwarding it to the user's service/section supervisor. The exported value for all notifications is "0" days, indicating the related alerts will never be forwarded.

The **ORB FORWARD SURROGATES** parameter indicates how many days to hold an unprocessed alert before forwarding it to the user's MailMan surrogates. The exported value for all notifications is "0" days, indicating the related alerts will never be forwarded.

The **ORB PROCESSING FLAG** parameter determines notification/alert recipients. It replaces the Processing Flag field in the Notifications file. Whereas the field contained the set of codes "D" for Disabled, "E" for Enabled, "M" for Mandatory, and "N" Navigation, the parameter only contains "D" for Disabled and "M" for Mandatory. The exported values for all notifications new in CPRS are "D" for Disabled. Experience has shown that bringing these notifications gradually online is better than flooding users with new alerts right after CPRS is installed. Several different entity relationships exist for this parameter enabling sites to selectively "turn on" the new notifications. Exported values for "Mandatory" OE/RR 2.5 notifications remain "Mandatory." "Enabled" OE/RR 2.5 notifications are exported without any value for this parameter. (Refer to the Parameters documents for additional information.)

The **ORB PROVIDER RECIPIENTS** parameter determines if the ordering provider, attending physician, primary provider, or patient-related teams will be considered for potential alert recipients. This parameter replaces the Recipient Restrictions, Exclude Attending, and Exclude Primary fields in the Notifications file and the Notification to Physician field in the Order Parameter file. The Notifications Expert Panel and test site experience determined the exported value for each notification.

The **ORB SORT METHOD** is used to determine how notifications will be sorted in the GUI display. The exported value is "Type" indicating notifications will be sorted by notification.

The **ORB SYSTEM ENABLE/DISABLE** parameter determines if any CPRS Notification processing will occur. In effect, it enables or disables all notification processing. The exported default value is "Disabled" – no notifications will be processed, no OE/RR alerts will be delivered. (The default value is "Disabled" to speed-up conversions during CPRS installation.) Sites are encouraged to "Enable" this parameter at the System or Division entity as soon as possible after CPRS installation. (It is NOT necessary to wait until all CPRS conversions have completed.) Once this parameter is enabled, OE/RR 2.5 notifications/alerts will resume. However, new CPRS notifications will remain disabled until enabled (set to "Mandatory" at one or more entities), via the ORB PROCESSING FLAG parameter.

The **ORB UNVERIFIED MED ORDER** parameter sets the number of hours delay after a medication order has been placed before triggering the notification/alert Unverified Medication Order. The exported value is "2" hours - if a medication order has not been verified by a nurse within two hours after the order was placed, the notification is triggered and an alert is sent. Sites can modify this value at the System or Division entity.

The **ORB UNVERIFIED ORDER** parameter sets the number of hours delay after an order has been placed before triggering the notification/alert Unverified Order. The exported value is "2" hours - if an order has not been verified by a nurse within two hours after the order was placed, the notification is triggered and an alert is sent. Sites can modify this value at the System or Division entity.

The **ORB URGENCY** parameter is used in the GUI display. If an entity's ORB SORT METHOD parameter value is set to "Urgency," notifications displayed in the GUI are sorted by their value in this parameter. The Notification Expert Panel determined the exported default value for each notification.

Additional CPRS Notification parameters exist that do not have exported default values. These are discussed in the Parameters documents. A list of CPRS Notification parameters with exported default values follows.

Parameters

PARAMETER: ORB ARCHIVE PERIOD

ENTITY: ORDER ENTRY/RESULTS REPORTING

Notification	Value
ABNORMAL IMAGING RESULTS	30
ABNORMAL LAB RESULT (INFO)	30
ABNORMAL LAB RESULTS (ACTION)	30
ADMISSION	30
CONSULT/PROC INTERPRETATION	30
CONSULT/REQUEST CANCEL/HOLD	30
CONSULT/REQUEST RESOLUTION	30
CRITICAL LAB RESULT (INFO)	30
CRITICAL LAB RESULTS (ACTION)	30
DECEASED PATIENT	30
DISCHARGE	30
DNR EXPIRING	30
ERROR MESSAGE	30
FLAGGED ORDERS	30
FOOD/DRUG INTERACTION	30
FREE TEXT	30
IMAGING PATIENT EXAMINED	30
IMAGING REQUEST CANCEL/HELD	30
IMAGING REQUEST CHANGED	30
IMAGING RESULTS	30
IMAGING RESULTS AMENDED	30
LAB ORDER CANCELED	30
LAB RESULTS	30
LAB THRESHOLD EXCEEDED	30
MEDICATIONS EXPIRING	30
NEW ORDER	30

Notification	Value
NEW SERVICE CONSULT/REQUEST	30
NPO DIET MORE THAN 72 HRS	30
ORDER CHECK	30
ORDER REQUIRES CHART SIGNATURE	30
ORDER REQUIRES CO-SIGNATURE	30
ORDER REQUIRES ELEC SIGNATURE	30
ORDERER-FLAGGED RESULTS	30
SERVICE ORDER REQ CHART SIGN	30
SITE-FLAGGED ORDER	30
SITE-FLAGGED RESULTS	30
STAT IMAGING REQUEST	30
STAT ORDER	30
STAT RESULTS	30
TRANSFER FROM PSYCHIATRY	30
UNSCHEDULED VISIT	30
UNVERIFIED MEDICATION ORDER	30
UNVERIFIED ORDER	30
URGENT IMAGING REQUEST	30

PARAMETER: ORB DELETE MECHANISM

ENTITY: ORDER ENTRY/RESULTS REPORTING

Notification	Value
ABNORMAL IMAGING RESULTS	IndividualRecipient
ABNORMAL LAB RESULT (INFO)	IndividualRecipient
ABNORMAL LAB RESULTS (ACTION)	IndividualRecipient
ADMISSION	IndividualRecipient
CONSULT/PROC INTERPRETATION	IndividualRecipient
CONSULT/REQUEST CANCEL/HOLD	IndividualRecipient
CONSULT/REQUEST RESOLUTION	IndividualRecipient
CRITICAL LAB RESULT (INFO)	IndividualRecipient
CRITICAL LAB RESULTS (ACTION)	IndividualRecipient
DECEASED PATIENT	IndividualRecipient
DISCHARGE	IndividualRecipient
DNR EXPIRING	AllRecipients
ERROR MESSAGE	AllRecipients
FLAGGED ORDERS	AllRecipients
FOOD/DRUG INTERACTION	IndividualRecipient
FREE TEXT	AllRecipients
IMAGING PATIENT EXAMINED	IndividualRecipient
IMAGING REQUEST CANCEL/HELD	IndividualRecipient
IMAGING REQUEST CHANGED	IndividualRecipient
IMAGING RESULTS	IndividualRecipient
IMAGING RESULTS AMENDED	IndividualRecipient
LAB ORDER CANCELED	IndividualRecipient
LAB RESULTS	IndividualRecipient
LAB THRESHOLD EXCEEDED	IndividualRecipient
MEDICATIONS EXPIRING	AllRecipients
NEW ORDER	IndividualRecipient
NEW SERVICE CONSULT/REQUEST	IndividualRecipient

Notification	Value
NPO DIET MORE THAN 72 HRS	IndividualRecipient
ORDER CHECK	IndividualRecipient
ORDER REQUIRES CHART SIGNATURE	Individual Recipient
ORDER REQUIRES CO-SIGNATURE	AllRecipients
ORDER REQUIRES ELEC SIGNATURE	AllRecipients
ORDERER-FLAGGED RESULTS	IndividualRecipient
SERVICE ORDER REQ CHART SIGN	IndividualRecipient
SITE-FLAGGED ORDER	IndividualRecipient
SITE-FLAGGED RESULTS	IndividualRecipient
STAT IMAGING REQUEST	IndividualRecipient
STAT ORDER	IndividualRecipient
STAT RESULTS	IndividualRecipient
TRANSFER FROM PSYCHIATRY	IndividualRecipient
UNSCHEDULED VISIT	IndividualRecipient
UNVERIFIED MEDICATION ORDER	AllRecipients
UNVERIFIED ORDER	AllRecipients
URGENT IMAGING REQUEST	IndividualRecipient

PARAMETER: ORB ERASE ALL

ENTITY: ORDER ENTRY/RESULTS REPORTING Yes

PARAMETER: ORB FLAGGED ORDERS BULLETIN

ENTITY: ORDER ENTRY/RESULTS REPORTING No

PARAMETER: ORB FORWARD SUPERVISOR

ENTITY: ORDER ENTRY/RESULTS REPORTING

Notification	Value
ABNORMAL IMAGING RESULTS	0
ABNORMAL LAB RESULT (INFO)	0
ABNORMAL LAB RESULTS (ACTION)	0
ADMISSION	0
CONSULT/PROC INTERPRETATION	0
CONSULT/REQUEST CANCEL/HOLD	0
CONSULT/REQUEST RESOLUTION	0
CRITICAL LAB RESULT (INFO)	0
CRITICAL LAB RESULTS (ACTION)	0
DECEASED PATIENT	0
DISCHARGE	0
DNR EXPIRING	0
ERROR MESSAGE	0
FLAGGED ORDERS	0
FOOD/DRUG INTERACTION	0
FREE TEXT	0
IMAGING PATIENT EXAMINED	0
IMAGING REQUEST CANCEL/HELD	0
IMAGING REQUEST CHANGED	0
IMAGING RESULTS	0
IMAGING RESULTS AMENDED	0
LAB ORDER CANCELED	0
LAB RESULTS	0
LAB THRESHOLD EXCEEDED	0
MEDICATIONS EXPIRING	0
NEW ORDER	0
NEW SERVICE CONSULT/REQUEST	0

Notification	Value
NPO DIET MORE THAN 72 HRS	0
ORDER CHECK	0
ORDER REQUIRES CHART SIGNATURE	0
ORDER REQUIRES CO-SIGNATURE	0
ORDER REQUIRES ELEC SIGNATURE	0
ORDERER-FLAGGED RESULTS	0
SERVICE ORDER REQ CHART SIGN	0
SITE-FLAGGED ORDER	0
SITE-FLAGGED RESULTS	0
STAT IMAGING REQUEST	0
STAT ORDER	0
STAT RESULTS	0
TRANSFER FROM PSYCHIATRY	0
UNSCHEDULED VISIT	0
UNVERIFIED MEDICATION ORDER	0
UNVERIFIED ORDER	0
URGENT IMAGING REQUEST	0

PARAMETER: ORB FORWARD SURROGATES

ENTITY: ORDER ENTRY/RESULTS REPORTING

Notification	Value
ABNORMAL IMAGING RESULTS	0
ABNORMAL LAB RESULT (INFO)	0
ABNORMAL LAB RESULTS (ACTION)	0
ADMISSION	0
CONSULT/PROC INTERPRETATION	0
CONSULT/REQUEST CANCEL/HOLD	0
CONSULT/REQUEST RESOLUTION	0
CRITICAL LAB RESULT (INFO)	0
CRITICAL LAB RESULTS (ACTION)	0
DECEASED PATIENT	0
DISCHARGE	0
DNR EXPIRING	0
ERROR MESSAGE	0
FLAGGED ORDERS	0
FOOD/DRUG INTERACTION	0
FREE TEXT	0
IMAGING PATIENT EXAMINED	0
IMAGING REQUEST CANCEL/HELD	0
IMAGING REQUEST CHANGED	0
IMAGING RESULTS	0
IMAGING RESULTS AMENDED	0
LAB ORDER CANCELED	0
LAB RESULTS	0
LAB THRESHOLD EXCEEDED	0
MEDICATIONS EXPIRING	0
NEW ORDER	0
NEW SERVICE CONSULT/REQUEST	0

Notification	Value
NPO DIET MORE THAN 72 HRS	0
ORDER CHECK	0
ORDER REQUIRES CHART SIGNATURE	0
ORDER REQUIRES CO-SIGNATURE	0
ORDER REQUIRES ELEC SIGNATURE	0
ORDERER-FLAGGED RESULTS	0
SERVICE ORDER REQ CHART SIGN	0
SITE-FLAGGED ORDER	0
SITE-FLAGGED RESULTS	0
STAT IMAGING REQUEST	0
STAT ORDER	0
STAT RESULTS	0
TRANSFER FROM PSYCHIATRY	0
UNSCHEDULED VISIT	0
UNVERIFIED MEDICATION ORDER	0
UNVERIFIED ORDER	0
URGENT IMAGING REQUEST	0

PARAMETER: ORB PROCESSING FLAG

ENTITY: ORDER ENTRY/RESULTS REPORTING

Notification	Value
ABNORMAL IMAGING RESULTS	Mandatory
ABNORMAL LAB RESULT (INFO)	Disabled
ABNORMAL LAB RESULTS (ACTION)	Disabled
ADMISSION	[No exported value - enabled in OE 2.5]
CONSULT/PROC INTERPRETATION	Disabled
CONSULT/REQUEST CANCEL/HOLD	[No exported value - enabled in OE 2.5]
CONSULT/REQUEST RESOLUTION	[No exported value - enabled in OE 2.5]
CRITICAL LAB RESULT (INFO)	Mandatory
CRITICAL LAB RESULTS (ACTION)	Disabled
DECEASED PATIENT	[No exported value - enabled in OE 2.5]
DISCHARGE	Disabled
DNR EXPIRING	Disabled
ERROR MESSAGE	Disabled
FLAGGED ORDERS	[No exported value - enabled in OE 2.5]
FOOD/DRUG INTERACTION	Disabled
FREE TEXT	Disabled
IMAGING PATIENT EXAMINED	[No exported value - enabled in OE 2.5]
IMAGING REQUEST CANCEL/HELD	[No exported value - enabled in OE 2.5]
IMAGING REQUEST CHANGED	Disabled
IMAGING RESULTS	[No exported value - enabled in OE 2.5]
IMAGING RESULTS AMENDED	Disabled
LAB ORDER CANCELED	Disabled
LAB RESULTS	Disabled
LAB THRESHOLD EXCEEDED	Disabled
MEDICATIONS EXPIRING	Disabled
NEW ORDER	Disabled
NEW SERVICE CONSULT/REQUEST	[No exported value - enabled in OE 2.5]

Notification	Value
NPO DIET MORE THAN 72 HRS	Disabled
ORDER CHECK	Disabled
ORDER REQUIRES CHART SIGNATURE	Mandatory
ORDER REQUIRES CO-SIGNATURE	Disabled
ORDER REQUIRES ELEC SIGNATURE	Mandatory
ORDERER-FLAGGED RESULTS	Disabled
SERVICE ORDER REQ CHART SIGN	Mandatory
SITE-FLAGGED ORDER	Disabled
SITE-FLAGGED RESULTS	Disabled
STAT IMAGING REQUEST	Disabled
STAT ORDER	Disabled
STAT RESULTS	Disabled
TRANSFER FROM PSYCHIATRY	Disabled
UNSCHEDULED VISIT	[No exported value - enabled in OE 2.5]
UNVERIFIED MEDICATION ORDER	Disabled
UNVERIFIED ORDER	Disabled
URGENT IMAGING REQUEST	Disabled

PARAMETER: ORB PROVIDER RECIPIENTS

ENTITY: ORDER ENTRY/RESULTS REPORTING

Notification	Value
ABNORMAL IMAGING RESULTS	OAPT
ABNORMAL LAB RESULT (INFO)	OAPT
ABNORMAL LAB RESULTS (ACTION)	OAPT
ADMISSION	APT
CONSULT/REQUEST CANCEL/HOLD	O
CONSULT/REQUEST RESOLUTION	OAP
CRITICAL LAB RESULT (INFO)	OAPT
CRITICAL LAB RESULTS (ACTION)	OAPT
DECEASED PATIENT	APT
DISCHARGE	APT
DNR EXPIRING	OAPT
ERROR MESSAGE	[No exported value]
FLAGGED ORDERS	OAPT
FOOD/DRUG INTERACTION	[No exported value]
FREE TEXT	O
IMAGING PATIENT EXAMINED	O
IMAGING REQUEST CANCEL/HELD	O
IMAGING RESULTS	[No exported value]
IMAGING RESULTS AMENDED	OAPT
LAB ORDER CANCELED	OT
LAB RESULTS	OAPT
LAB THRESHOLD EXCEEDED	[No exported value]
MEDICATIONS EXPIRING	OAPT
NEW SERVICE CONSULT/REQUEST	[No exported value]
NEW ORDER	T
NPO DIET MORE THAN 72 HRS	O
ORDER CHECK	[No exported value]

Notification	Value
ORDER REQUIRES CHART SIGNATURE	OAPT
ORDER REQUIRES CO-SIGNATURE	OAPT
ORDER REQUIRES ELEC SIGNATURE	OAPT
ORDERER-FLAGGED RESULTS	O
SERVICE ORDER REQ CHART SIGN	OAPT
SITE-FLAGGED ORDER	[No exported value]
SITE-FLAGGED RESULTS	[No exported value]
STAT IMAGING REQUEST	[No exported value]
STAT ORDER	T
STAT RESULTS	O
TRANSFER FROM PSYCHIATRY	APT
UNSCHEDULED VISIT	APT
UNVERIFIED MEDICATION ORDER	Disabled
UNVERIFIED ORDER	Disabled
URGENT IMAGING REQUEST	[No exported value]

PARAMETER: ORB SORT METHOD

ENTITY: ORDER ENTRY/RESULTS REPORTING Type

PARAMETER: ORB SYSTEM ENABLE/DISABLE

ENTITY: ORDER ENTRY/RESULTS REPORTING Disable

PARAMETER: ORB UNVERIFIED MED ORDER

ENTITY: ORDER ENTRY/RESULTS REPORTING 2

PARAMETER: ORB UNVERIFIED ORDER

ENTITY: ORDER ENTRY/RESULTS REPORTING 2

PARAMETER: ORB URGENCY

ENTITY: ORDER ENTRY/RESULTS REPORTING

Notification	Value
ABNORMAL IMAGING RESULTS	High
ABNORMAL LAB RESULT (INFO)	Moderate
ABNORMAL LAB RESULTS (ACTION)	Moderate
ADMISSION	Moderate
CONSULT/PROC INTERPRETATION	Moderate
CONSULT/REQUEST CANCEL/HOLD	Moderate
CONSULT/REQUEST RESOLUTION	Moderate
CRITICAL LAB RESULT (INFO)	High
CRITICAL LAB RESULTS (ACTION)	High
DECEASED PATIENT	Moderate
DISCHARGE	Moderate
DNR EXPIRING	High
ERROR MESSAGE	Low
FLAGGED ORDERS	Moderate
FOOD/DRUG INTERACTION	Moderate
FREE TEXT	Moderate
IMAGING PATIENT EXAMINED	Moderate
IMAGING REQUEST CANCEL/HELD	Moderate
IMAGING REQUEST CHANGED	Moderate
IMAGING RESULTS	Moderate
IMAGING RESULTS AMENDED	Moderate
LAB ORDER CANCELED	High
LAB RESULTS	Moderate
LAB THRESHOLD EXCEEDED	High
MEDICATIONS EXPIRING	High
NEW ORDER	Moderate
NEW SERVICE CONSULT/REQUEST	Moderate

Notification	Value
NPO DIET MORE THAN 72 HRS	Moderate
ORDER CHECK	High
ORDER REQUIRES CHART SIGNATURE	Moderate
ORDER REQUIRES CO-SIGNATURE	High
ORDER REQUIRES ELEC SIGNATURE	High
ORDERER-FLAGGED RESULTS	High
SERVICE ORDER REQ CHART SIGN	High
SITE-FLAGGED ORDER	High
SITE-FLAGGED RESULTS	High
STAT IMAGING REQUEST	Moderate
STAT ORDER	High
STAT RESULTS	High
TRANSFER FROM PSYCHIATRY	Moderate
UNSCHEDULED VISIT	Moderate
UNVERIFIED MEDICATION ORDER	Moderate
UNVERIFIED ORDER	High
URGENT IMAGING REQUEST	Moderate

Appendix E: Order Check

Order Check Parameters in CPRS 1 - Technical Overview

Introduction

CPRS Order Checks use the Parameter file [#8989.5] to export values for parameters that determine how order checks are processed. All of these parameters are new in CPRS. When each parameter is defined and set up via the Parameter Definition file [#8989.51], a set of entity relationships is established. Most CPRS Order Check parameters were set up with links to the "Package" entity in order to export default values with CPRS. Hence, the exported order checking "defaults" are parameter values for package entity "Order Entry/Results Reporting." Order Check parameter values for package entities (Order Entry/Results Reporting) should never be modified. Changes specific to your site can be made for system, division, and other entities, depending on how each parameter is defined. (Refer to CPRS Install documents for a listing of exported default values.)

☞ **NOTE: Some parameters have a "Location" entity type. Only inpatient location entities are used. Outpatient location entities are ignored because a patient's outpatient location cannot be reliably determined and a patient can have several simultaneous outpatient locations.**

Parameters

ORK CLINICAL DANGER LEVEL [Option: ORK CLINICAL DANGER LEVEL]

This parameter indicates an order check's potential clinical danger to the patient. Potential values are a set of codes:

1 (High): Order check indicates a potentially high danger to the patient.

2 (Moderate): Order check indicates a moderate danger to the patient.

3 (Low): Order check indicates a low danger to the patient.

A 'High' value indicates the order checking dialog will ask for an override reason. (The provider entering the order is prompted for an override reason if they ignore a "High" clinical danger order check and continue placing the order.)

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                          ENTITY TYPE: System
```

Customization Suggestion:

- CPRS exports the Duplicate Drug Order order check with a "High" clinical danger level. This indicates duplicate medication orders do display an order check message, then prompt users for an override reason. To prevent the override prompt, set the Clinical Danger Level for this order check to "Moderate." Providers get the order check message, but will not be prompted for an override reason.

ORK CONTRAST MEDIA CREATININE [Option: ORK CONTRAST MEDIA CREATININE]

This option is used by the Biochem Abnormality for Contrast Media order check. This order check displays a message if the patient doesn't have a serum creatinine result within the past X days, where the number of days is determined by the value of this parameter. The exported value is 30 [days].

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Location
ENTITY PRECEDENCE: 2                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 3                          ENTITY TYPE: System
```

ORK CT LIMIT HT [Option: ORK CT LIMIT HT]

This parameter is used by order checking to determine if a patient is too tall to be examined by the CT scanner. The value indicates the maximum height (in inches) allowed.

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                          ENTITY TYPE: System
```

Customization Suggestion:

- For systems with CT scanners at more than one division, set the value of this parameter at the division level to correspond to that division's scanner height limit.

ORK CT LIMIT WT [Option: ORK CT LIMIT WT]

This parameter is used by order checking to determine if a patient weighs too much to be safely examined by the CT scanner. The value indicates the maximum weight (in pounds) allowed.

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                          ENTITY TYPE: System
```

Customization Suggestion:

- For systems with CT scanners at more than one division, set the value of this parameter at the division level to correspond to that division's scanner weight limit.

ORK DEBUG ENABLE/DISABLE [Option: ORK DEBUG ENABLE/DISABLE]

This parameter determines if order checking logs debug messages into ^XTMP("ORKLOG".) The possible values are a set of codes:

E (Enabled): Indicates the Order Checking debug log is activated.

D (Disabled): Indicates the Order Checking debug log is inactivated and deleted.

Information passed to order checking from OE/RR is stored in the zero node. The zero node is in the format:

```
^XTMP("ORKLOG",<order check date/time>,<pt id>,<orderable item>,<dlog mode>, <user
id>,0)= <orderable item>|<filler>|<natl id^natl text^natl sys^local id^local text^
local sys>|<order effective date/time>|<order number>|<filler data>|.
```

The data for non-zero node entries is the information passed from order checking back to OE/RR. It is the order check messages plus other info to enhance OE/RR processing. It is in the format:

```
^XTMP("ORKLOG",<order check date/time>,<pt id>,<orderable item>,<dlog mode>, <user
id>,<non-zero>)= <order number>^<order check id - 864.5 ien>^<clin danger
level>^<message>
```

This parameter is used primarily for troubleshooting. Under normal circumstances it should be "Disabled." When this debug global exceeds 5,000 entries, it is killed and begins adding new entries.

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                          ENTITY TYPE: System
```

Customization Suggestion:

- To determine if a particular type of order check is occurring, set this parameter to be "Enabled" and check the debug log global periodically.

ORK DUP ORDER RANGE LAB [Option: ORK DUP ORDER RANGE LAB]

This parameter indicates how many hours back in time to look for duplicate lab orders. If a similar lab order has been placed within the number of hours indicated in this parameter, an order check message is displayed. Lab orders with an OE/RR order status of "Canceled," "Discontinued," "Expired," "Lapsed," "Discontinued/Edit," or "Delayed" are not evaluated when looking for duplicates.

☞ **NOTE: This parameter is superseded if the ordered lab procedure has a corresponding orderable item entered in the ORK DUP ORDER RANGE OI parameter.**

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Location
ENTITY PRECEDENCE: 2                          ENTITY TYPE: Service
ENTITY PRECEDENCE: 3                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 4                          ENTITY TYPE: System
```

Customization Suggestion:

- Use this parameter to set a duplicate order value for the majority of lab procedures, then use ORK DUP ORDER RANGE OI to set duplicate order values for lab procedures with special duplicate order ranges. (Refer to ORK DUP ORDER RANGE OI customization suggestions for an example.)

ORK DUP ORDER RANGE OI [Option: ORK DUP ORDER RANGE OI]

This parameter indicates how many hours back in time to look for duplicate orders with a matching orderable item. If an order with the same orderable item has been placed within the number of hours indicated in this parameter, an order check message is displayed. For the order check to occur, the orderable item selected via this parameter must match both the orderable item of the order being placed and the duplicate order's orderable item. Orders are linked to orderable items through the order dialog setup. Use this parameter to set duplicate order search ranges for special orderable items. This parameter does not affect medication duplicate order ranges. Medication order duplicates are determined within the Pharmacy package. A value of "0" (zero) indicates duplicate order checking for this orderable item does not occur.

☞ **NOTE: If the orderable item of the order being placed has a value in this parameter, this parameter's value supersedes values entered in the ORK DUP ORDER RANGE LAB/RADIOLOGY parameters.]**

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Location
ENTITY PRECEDENCE: 2                          ENTITY TYPE: Service
ENTITY PRECEDENCE: 3                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 4                          ENTITY TYPE: System
```

Customization Suggestions:

- Use the ORK DUP ORDER RANGE LAB parameter to set a duplicate order value for the majority of lab procedures, then use ORK DUP ORDER RANGE OI to set duplicate order values for lab tests with special duplicate order ranges. For example, the exported default value for ORK DUP ORDER RANGE LAB is "48" hours. Use ORK DUP ORDER RANGE LAB to change that value to "24" hours for your System entity. Next, use ORK DUP ORDER RANGE OI at your System entity level to set the duplicate order range for the CBC orderable item to "12" hours. The order check message indicating a duplicate CBC order will now occur if the patient has a previous CBC order within the past 12 hours.

☞ **NOTE: The order being placed and the duplicate order must each have an orderable item that matches the CBC orderable item entered via this parameter.**

  The order check for CBC will not occur if the patient's most recent CBC order occurred 13 hours previously. However, if the order is for a different lab test (and no parameter value for that test exists), the order check message will occur if the patient's most recent lab test was within the past 24 hours.

- In addition to the suggestion above, set the ICU (Location entity), value of ORK DUP ORDER RANGE OI to "3" hours for orderable item CBC. Now, if the CBC order is for a patient in ICU, the order check occurs only if the most recent order is within the past three hours. CBC orders older than three hours do not trigger the order check for patients in ICU. For non-ICU patients the duplicate range value remains "12" hours.
- To prevent duplicate order checks on generic nursing orders placed by General Medicine providers (Service entity), use this parameter to set General Medicine's value of the generic nursing orderable item to "0" (zero.) Remember, the generic nursing orderable item identified in the parameter must match the orderable item of the order dialog used to place generic nursing orders.

ORK DUP ORDER RANGE RADIOLOGY [Option: ORK DUP ORDER RANGE RADIOLOGY]

This parameter indicates how many hours back in time to look for duplicate imaging orders. If a similar imaging procedure has been placed within the number of hours indicated in this parameter, an order check message is displayed. Imaging orders with an OE/RR order status of "Canceled," "Discontinued," "Expired," "Lapsed," "Discontinued/Edit," or "Delayed" are not evaluated when looking for duplicates.

☞ **NOTE: This parameter is superseded if the ordered imaging procedure has a corresponding orderable item entered in the ORK DUP ORDER RANGE OI parameter.**

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Location
ENTITY PRECEDENCE: 2                          ENTITY TYPE: Service
ENTITY PRECEDENCE: 3                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 4                          ENTITY TYPE: System
```

Customization Suggestion:

- Use this parameter to set a duplicate order value for the majority of imaging procedures then use ORK DUP ORDER RANGE OI to set duplicate order values for imaging procedures with special duplicate order ranges. (Refer to ORK DUP ORDER RANGE OI customization suggestions for a similar example with lab procedures.)

ORK MRI LIMIT HT [Option: ORK MRI LIMIT HT]

This parameter is used by order checking to determine if a patient is too tall to be examined in the MRI scanner. The value indicates the maximum height (in inches) allowed.

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                          ENTITY TYPE: System
```

Customization Suggestion:

- For systems with MRI scanners at more than one division, set the value of this parameter at the division level to correspond to that division's scanner height limit.

ORK MRI LIMIT WT [Option: ORK MRI LIMIT WT]

This parameter is used by order checking to determine if a patient weighs too much to be safely examined by the MRI scanner. The value indicates the maximum weight (in pounds) allowed.

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 2                          ENTITY TYPE: System
```

Customization Suggestion:

- For systems with MRI scanners at more than one division, set the value of this parameter at the division level to correspond to that division's scanner weight limit.

ORK PROCESSING FLAG [Option: ORK PROCESSING FLAG]

This parameter determines if an order check will be processed. Potential values are a set of codes:

E (Enabled): Order check enabled for the entity unless an entity of higher precedence has the order check disabled (e.g. Enabled at System level and Disabled at User level—order check will not be processed for that user.)

D (Disabled): Order check disabled for entity unless entity of higher precedence has order check Enabled (e.g. Disabled at System level and Enabled at User level—order check will be processed for that user.)

```
ENTITY PRECEDENCE: 1                           ENTITY TYPE: User
ENTITY PRECEDENCE: 2                           ENTITY TYPE: Location
ENTITY PRECEDENCE: 3                           ENTITY TYPE: Service
ENTITY PRECEDENCE: 4                           ENTITY TYPE: Division
ENTITY PRECEDENCE: 5                           ENTITY TYPE: System
```

Customization Suggestion:

- Disable polypharmacy order checking for ICU patients by setting the ICU (Location entity), value of this parameter to "Disabled" for the Polypharmacy order check. Polypharmacy order checks continue to be possible for patients in other locations.

ORK SYSTEM ENABLE/DISABLE [Option: ORK SYSTEM ENABLE/DISABLE]

This parameter determines if any CPRS Order Check processing will occur. In effect, it enables or disables all order check processing.

E (Enabled): Order checking is enabled and running.

D (Disabled): Order checking is disabled and not running.

☞ **NOTE: This parameter disables all types of order checks. Additional functionality exists in the CPRS Expert System to inactivate specific rule-based order checks.**

```
ENTITY PRECEDENCE: 1                          ENTITY TYPE: User
ENTITY PRECEDENCE: 2                          ENTITY TYPE: Location
ENTITY PRECEDENCE: 3                          ENTITY TYPE: Service
ENTITY PRECEDENCE: 4                          ENTITY TYPE: Division
ENTITY PRECEDENCE: 5                          ENTITY TYPE: System
```

Option –> Parameter Mapping

Option		Parameter
CPRS Manager Menu		
PE	**CPRS Configuration (Clinical Coordinator) ...**	
OC	**Order Checking Mgmt Menu ...**	**Parameter**
1	Enable/Disable an Order Check	ORK PROCESSING FLAG
2	Set Clinical Danger Level for an Order Check	ORK CLINICAL DANGER LEVEL
3	CT Scanner Height Limit	ORK CT LIMIT HT
4	CT Scanner Weight Limit	ORK CT LIMIT WT
5	MRI Scanner Height Limit	ORK MRI LIMIT HT
6	MRI Scanner Weight Limit	ORK MRI LIMIT WT
7	Orderable Item Duplicate Order Range	ORK DUP ORDER RANGE OI
8	Lab Duplicate Order Range	ORK DUP ORDER RANGE LAB
9	Radiology Duplicate Order Range	ORK DUP ORDER RANGE RADIOLOGY
10	Enable or Disable Order Checking System	ORK SYSTEM ENABLE/DISABLE
11	Enable or Disable Debug Message Logging	ORK DEBUG ENABLE/DISABLE
12	Display the Order Checks a User Can Receive	
13	Edit Site Local Terms	

PP	**Personal Preferences**	
OC	**Order Checking Mgmt Menu ...**	**Parameter**
1	Enable/Disable My Order Checks	ORK PROCESSING FLAG
2	Show Me the Order Checks I Can Receive	

CPRS Order Checks: How They Work

Introduction

In CPRS, Order Checks occur by evaluating a requested order against existing patient data. Most order checks are processed via the CPRS Expert System. A few are processed within the Pharmacy, Allergy Tracking System and Order Entry packages. Order Checks are a real-time process that occurs during the ordering session and is driven by responses entered by the ordering provider. Order Check messages are displayed interactively in the ordering session.

Order Checks review existing data and current events to produce a relevant message, which is presented to patient caregivers. Order Checks use the CPRS Expert System (OCX namespace), to define logical expressions for this evaluation and message creation. In addition to the expert system Order Checks have some hard-coded algorithms. For example, the drug-drug interaction order check is made via an entry point in the pharmacy package whereas renal functions for patients over 65 is defined as a rule in the CPRS Expert System.

Order Check Data Caching

Data caching was recently added to improve the speed of order checks. Before data caching, order checks could be slow because each order check retrieved data from the other VISTA packages—even if the order checks used the same data. With data caching, the first order check in an ordering session retrieves data from other VISTA packages, uses the data to evaluate whether it should display a warning, and then stores the retrieved data in the `^XTMP("OCXCACHE"` global for five minutes. The order checks that occur in the next five minutes can use the cached data, if it is the appropriate data, instead of retrieving data from the other packages. After five minutes, the cached data expires, and order checks must retrieve new data from the VISTA packages.

For example, before data caching was implemented, if an order check took 3 seconds to retrieve data from other VISTA packages, and there were 12 order checks, clinicians might wait 36 seconds to sign orders. With data caching, the first order check might take 3 seconds to retrieve the data, but subsequent order checks could use the cache and might take only .03 seconds each. That would be 3.33 seconds compared to 36 seconds. The numbers in this example are for illustration only and do not reflect real system speed. However, data caching should speed up order checks.

To avoid using all available disk space for storing data from order checks, there are several ways to clear the `^XTMP("OCXCACHE"` global. `ORMTIME` removes data from the global when it runs. The suggested frequency for running `ORMTIME` is every 30 minutes, but not every site runs it that frequently. Kernel clean up utilities also remove data from the cache when they run, which is usually every 24 hours. If needed, users that have access to the programmer's prompt can manually clear the cache from that prompt by using `PURGE^OCXCACHE`.

Below is an example of what the ^XTMP("OCXCACHE" global looks like:

```
^XTMP("OCXCACHE",0) = 3020815.111506^3020814.111506
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,173,70)","DATA") = 173^CREAT^19^mg/dL^^.
9-20^3020411.135803
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,173,70)","TIME") = 5099625091
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,173,72)","DATA") = 173^CREAT^10^mg/dL^H^
.9-NEGATIVE^3020411.134653
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,173,72)","TIME") = 5099625091
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,173,73)","DATA") = 173^CREAT^13^mg/dL^^.
9-400^3020411.140823
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,173,73)","TIME") = 5099625091
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,174,70)","DATA") =
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,174,70)","TIME") = 5099625092
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,174,72)","DATA") = 174^BUN^3^mg/dL^L^11-
24^3010927.101804
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,174,72)","TIME") = 5099625092
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,174,73)","DATA") =
^XTMP("OCXCACHE",16,"$$LOCLC^ORQQLR1(16,174,73)","TIME") = 5099625092
```

Order Check Name	^ORD(100.8 ien
ALLERGY-CONTRAST MEDIA INTERACTION	4
ALLERGY-DRUG INTERACTION	3
AMINOGLYCOSIDE ORDERED	20
BIOCHEM ABNORMALITY FOR CONTRAST MEDIA	9
CLOZAPINE APPROPRIATENESS	19
CRITICAL DRUG INTERACTION	18
CT & MRI PHYSICAL LIMITATIONS	8
DANGEROUS MEDS FOR PT > 64	30
DISPENSE DRUG NOT SELECTED	27
DUPLICATE DRUG CLASS ORDER	17
DUPLICATE DRUG ORDER	16
DUPLICATE OPIOID MEDICATIONS	33
DUPLICATE ORDER	11
ERROR MESSAGE	25
ESTIMATED CREATININE CLEARANCE	1
GLUCOPHAGE-CONTRAST MEDIA	23
GLUCOPHAGE-LAB RESULTS	28
LAB ORDER FREQ RESTRICTIONS	24
MISSING LAB TESTS FOR ANGIOGRAM PROCEDURE	22
NO ALLERGY ASSESSMENT	32
ORDER CHECKING NOT AVAILABLE	2
POLYPHARMACY	26
RECENT BARIUM STUDY	14

RECENT ORAL CHOLECYSTOGRAM 15
RENAL FUNCTIONS OVER AGE 65 21
SIGNIFICANT DRUG INTERACTION 31

Trigger Methods

Order checks are triggered via four main ordering events:

1) Ordering dialog/display
2) Orderable item selection
3) Order acceptance
4) Ordering session completion

In addition, order checking is triggered by three special events:

1) Delayed/time-release orders initiated
2) Orders Renewed or Edited
3) Orders signed in a later session (delayed signature)

Order checks categorized by event:

Ordering dialog/display

- Estimated creatinine clearance if < 50
- Order checking not available/supported
- Renal functions for patients over 65
- Polypharmacy

Orderable item selection

- Duplicate drug orders (against existing meds)
- Duplicate drug class orders (against existing meds)
- Drug-drug interactions (against existing meds)
- Clozapine appropriateness
- Allergy-contrast media interactions
- Physical limitations for CT and MRI scanners
- Biochem abnormality for contrast media
- Glucophage-contrast media interaction
- Glucophage-lab results interaction
- Dispense drug not selected
- Recent barium study
- Duplicate Opioid Medications
- No Allergy Assessment

Order acceptance (includes checks where time is a factor in reducing false positives)

- Duplicate orders (non-medication)
- Allergy-drug interactions
- Recent oral cholecystogram
- Lab order frequency restrictions
- Dangerous Meds for Pt > 64

Ordering session completion

- Aminoglycosides
- Missing lab tests for angiogram procedure
- Duplicate drug orders (against meds placed in same session)

- Duplicate drug class orders (against meds placed in same session)
- Drug-drug interactions (against meds placed in same session)

Recipient Determination

In general, order check processing is determined via the ORK SYSTEM ENABLE/DISABLE and ORK PROCESSING FLAG parameters. Specific order checks can also be affected by other parameters in the ORK namespace. These are discussed with the individual order checks later in this document. Order check determination occurs in the following order:

1. Check the value of the parameter ORK SYSTEM ENABLE/DISABLE. If it is 'D'isabled, do not process or send any order checks (other than indicating the order checking system is disabled.) If it is 'E'nabled, process order checks as outlined below.
2. Processing is evaluated according to values set for entities identified in the parameter ORK PROCESSING FLAG. These entity values are accessed via the Option ORK PROCESSING FLAG also called Enable/Disable an Order Check. These entity values are processed in the following order to determine if that order check should be processed or not.

   highest entity — lowest entity

   user -> inpatient location -> user service/specialty -> division -> system -> OERR

Dialog with User

The order check user dialog occurs in the following steps:

1) List of order check messages are presented to user sorted by clinical danger level.
2) Based on the order check's clinical danger level and user's OE/RR 2.5 elec signature key:
   - User hold's OREMAS key:
     Process without prompting for justification but allow them to 'Cancel' or 'OK' the order
   - User does not hold OREMAS key and clinical danger level is '2' (Moderate) or '3' (Low):
     Process without prompting for justification but allow them to 'Cancel' or 'OK' the order
   - User does not hold OREMAS key and clinical danger level is '1' (High):
     Prompt for justification by prompting to 'Cancel' or 'Override'. If select 'Override', prompt for justification (enter free text). If a justification is entered, allow them to 'Cancel' or 'OK'
3) Order check messages and any accompanying over-ride justifications are sent with the order to the filling package and are displayed in the order's detailed display. If the clinical danger level for an order check message is "High" (value of '1'), the order check message and justification are stored in the Order file [#100] under the '9' node.

Order Check Specifics

Each order check and how it works is described below.

Allergy-Contrast media interactions

Trigger: Selection of a Radiology orderable item.

Mechanism: The CPRS Expert System checks the radiology orderable item against the orderable item file to determine if it uses a contrast media. If it does, the Allergy Tracking System (ATS) is requested to determine if the patient has a known allergy to contrast medias. If both of these conditions are true, OERR is notified and the warning message is displayed.

Message: Patient allergic to contrast medias: <list of contrast media allergens (barium or unspecified)>.

Danger Lvl: This order check is exported with a High clinical danger level.

Allergy-Drug interactions

Trigger: Acceptance of a pharmacy order.

Mechanism: The Allergy Tracking System (ATS) is requested to determine if the patient has a known allergy to an ingredient in the medication ordered and/or a VA Drug Class to which the medication ordered belongs. If ATS finds an allergy/adverse reaction, OERR is notified and the warning message is displayed.

In addition, the VA Drug Class of the medication ordered is compared against the VA Drug Class of existing drug allergens. The comparison is made of the first four characters of the drug classes. The exception is the Analgesics class where the first five characters are compared. For example, CN101 will NOT match CN103 and the order check will NOT occur.

Message: Previous adverse reaction to: <list of med allergens>.

Danger Lvl: This order check is exported with a High clinical danger level.

Aminoglycoside ordered

Trigger: Ordering session completion.

Mechanism: For each medication order placed during this ordering session, the CPRS Expert System requests the pharmacy package to determine if the medication belongs to the VA Drug Class 'Aminoglycosides'. If so, the patient's most recent BUN results are used to calculate the creatinine clearance then OERR is notified and the warning message is displayed.

[Note: The creatinine clearance value displayed in some order check messages is an estimate based on an algorithm in the Clinician's Pocket Reference, 7th edition, by Leonard G Gomella, MD.]

Message: Aminoglycoside - est. CrCl: <value calculated from most recent serum creatinine>. (CREAT: <result> BUN: <result>).

Danger Lvl: This order check is exported with a High clinical danger level.

Biochem (BUN, creatinine) abnormality for contrast media

Trigger: Selection of Radiology orderable item.

Mechanism: The CPRS Expert System checks the radiology orderable item against the orderable item file to determine if it uses a contrast media. If so:
a) the patient's BUN and creatinine results are checked for abnormal or critical values. If abnormal or critical values exist, OERR is notified and warning message "a)" is displayed.
b) the patient's creatinine results are checked to determine if they occurred within x days. ("X" is obtained from the ORK CONTRAST MEDIA CREATININE parameter.) If no results within x days exist, OERR is notified and warning message "b)" is displayed.

Message: a) Procedure uses contrast media - abnormal biochem result: <BUN and/or creatinine results with D/T>.
b) Procedure uses non-barium contrast media - no creatinine results within X days

Danger Lvl: This order check is exported with a High clinical danger level.

Clozapine appropriateness

Trigger: Selection of Clozapine orderable item.

Mechanism: The CPRS Expert System asks Pharmacy api (EN^PSODRG) if the medication is clozapine. If so, it checks for WBC and/or AND results within past x days then notifies OERR and the warning message is displayed.

Message: Clozapine – Most recent WBC result: <WBC result & collection d/t> else:
No WBC past fourteen days - pharmacy cannot fill clozapine order. Most recent WBC result: <WBC result & collection d/t>

Danger Lvl: This order check is exported with a High clinical danger level.

Critical Drug interaction

Trigger: Selection of Pharmacy orderable item for existing medications and at the conclusion of an ordering session against meds placed in that session.

Mechanism: The Pharmacy package is requested to determine if the patient is currently receiving a medication which will interact in a critical manner with the drug selected for ordering. If Pharmacy finds a drug-drug interaction, OERR is notified and the warning message is displayed.

Message: Critical drug-drug interaction: <drug1> & <drug2> (text and status of offending medication order)

Danger Lvl: This order check is exported with a High clinical danger level.

CT and MRI physical limitations

Trigger: Selection of Radiology orderable item.

Mechanism: The CPRS Expert System checks the radiology orderable item's imaging type. If it is "CT" or "MRI", patient height and weight are retrieved from the Vitals package and compared against parameter values related to the maximum height and weight tolerances of CT and/or MRI devices at the site or division. If the patient height is greater than the value for parameter ORK CT LIMIT HT the message "Patient may be too tall for the CT scanner", is sent to OERR and displayed. If the patient height is greater than the value for parameter ORK MRI LIMIT HT the message "Patient may be too tall for the MRI scanner", is sent to OERR and displayed. If the patient weight is greater than the value for parameter ORK CT LIMIT WT the message "Patient may be too heavy for the CT scanner", is sent to OERR and displayed. If the patient weight is greater than the value for parameter ORK MRI LIMIT WT the message "Patient may be too heavy for the MRI scanner", is sent to OERR and displayed. These parameter values are not exported with CPRS so they must be set at the site for this

order check to function. Values are set via options under the menu option ORK ORDER CHK MGMT MENU. They should be set at the System level for single division sites and multi-division sites with one device (CT and/or MRI). Values should be set at the Division level for multi-division sites with more than one CT and/or MRI device. For example, a three division site with three CT devices and one MRI device would set the values for the CT-related parameters at the Division level and the values for the MRI-related parameters at the System level.

Message: Patient may be too <tall/heavy> for the <CT/MRI>.

Danger Lvl: This order check is exported with a High clinical danger level.

Dangerous Meds for Pt > 64

Trigger: Acceptance of pharmacy orderable items amitriptyline, chlorpropamide or dipyridamole.

Mechanism: The CPRS Expert System determines if the patient is greater than 64 years old. It then checks the orderable item of the medication ordered to determine if it is mapped as a local term to the national term DANGEROUS MEDS FOR PTS > 64.

Message: If the orderable item text contains AMITRIPTYLINE this message is displayed:
Patient is <age>. Amitriptyline can cause cognitive impairment and loss of balance in older patients. Consider other antidepressant medications on formulary.
If the orderable item text contains CHLORPROPAMIDE this message is displayed:
Patient is <age>. Older patients may experience hypoglycemia with Chlorpropamide due do its long duration and variable renal secretion. They may also be at increased risk for Chlorpropamide-induced SIADH.
If the orderable item text contains DIPYRIDAMOLE this message is displayed:
Patient is <age>. Older patients can experience adverse reactions at high doses of Dipyridamole (e.g., headache, dizziness, syncope, GI intolerance.) There is also questionable efficacy at lower doses.

Danger Lvl: This order check is exported with a High clinical danger level.

Dispense Drug Not Selected

Trigger: Selection of Pharmacy orderable item.

Mechanism: The person entering the order does not select a entry from the Dispense Drug file [#50], OERR is notified and the warning message is displayed.

Message: The order checks: drug interaction, duplicate drug, duplicate drug class and drug allergy were not processed because the medication order was not based on dispense drug.

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Duplicate drug class order

Trigger: Selection of Pharmacy orderable item for existing medications and at the conclusion of an ordering session against meds placed in that session.

Mechanism: The Pharmacy package is requested to determine if the patient is currently receiving a medication which will belongs to a VA Drug Class to which the drug selected for ordering belongs. If so, OERR is notified and the warning message is displayed.

Message: Duplicate drug class order: <class> (text and status of offending medication order)

Danger Lvl: This order check is exported with a High clinical danger level.

Duplicate drug order

Trigger: Selection of Pharmacy orderable item for existing medications and at the conclusion of an ordering session against meds placed in that session.

Mechanism: The Pharmacy package is requested to determine if the patient is currently receiving a medication which matches the drug selected for ordering. Inpatient med orders only check against the patient's inpatient meds. Outpatient med orders only consider outpatient orders. The comparison is done at the local, dispense drug level so an order for Aminophylline 100mg will trigger this order check if the patient is already receiving Aminophylline 100mg but not if the patient is already receiving Aminophylline 200mg. (However, a duplicate drug class order message will be displayed because Aminophylline 100mg and Aminophylline 200mg are in the same VA Drug Class.) If a duplicate is returned by Pharmacy, OERR is notified and the warning message is displayed.

Message: Duplicate order: <text and status of offending medication order>

Danger Lvl: This order check is exported with a High clinical danger level.

Duplicate opioid medications

Trigger: Selection of Pharmacy orderable item.

Mechanism: The medication ordered is evaluated to determine if it is an opioid medication based upon VA Drug Classes "Opioid Analgesics" and "Opioid Antagonist Analgesics". If the medication belongs in either drug class (is an opioid), the patient's active pharmacy orders are evaluated for other orders belonging to an opioid drug class. If the patient already has an existing opioid order, OERR is notified and the warning message is displayed.

Message: Duplicate opioid medications: <text and status of duplicate opioid orders>

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Duplicate orders (non-medication)

Trigger: Acceptance of non-pharmacy orderable item.

Mechanism: If its a Lab order, the parameter ORK DUP ORDER RANGE OI is checked for a value for this orderable item. If so this value is used to determine how many hours back in time to search for duplicate orders. Values for this parameter are not exported with CPRS. They can be set at the site at the Service, Division and System levels. Values are set via an option under the menu option ORK ORDER CHK MGMT MENU. If a value for the orderable item cannot be found in the ORK DUP ORDER RANGE OI parameter, the value for parameter ORK DUP ORDER RANGE LAB is used. The exported value for this parameter is 48 [hours]. ORK DUP ORDER RANGE LAB can be set at the Service, Division and System levels. Values are set via an option under the menu option ORK ORDER CHK MGMT MENU. After the search range hours are determined, the lab orderable item is equated with the equivalent local lab procedures, split into atomic lab procedures (if appropriate) then appended to the order's specimen. Order Entry is then requested to provide a list of all lab orders placed for the patient from the current order's date/time to the current order's date/time minus the number of hours provided by the duplicate order range parameters. Orders with a status of Canceled, Discontinued, Expired, Lapsed, Replaced, or Delayed are ignored. The lab orders returned from Order Entry are equated with equivalent local lab procedures and if necessary, split into atomic lab procedures. The lab order being placed (and atomic procedures) are compared with previous orders (and atomic procedures) for duplicates. If found, OERR is notified and a warning message is displayed.

If its a Radiology order, the parameter ORK DUP ORDER RANGE OI is checked for a value for this orderable item. If so this value is used to determine how many hours back in time to search for duplicate orders. Values for this parameter are not exported with CPRS. They can be set at the site at the Service, Division and System levels. Values are set via an option under the menu option ORK ORDER CHK MGMT MENU. If a value for the orderable item cannot be found in the ORK DUP ORDER RANGE OI parameter, the value for parameter ORK

DUP ORDER RANGE RADIOLOGY is used. The exported value for this parameter is 48 [hours]. ORK DUP ORDER RANGE RADIOLOGY can be set at the Service, Division and System levels. Values are set via an option under the menu option ORK ORDER CHK MGMT MENU. After the search range hours are determined, the Order file is searched for the same orderable item ordered for the patient from the current order's date/time to the current order's date/time minus the number of hours provided by the duplicate order range parameters. Orders with a status of Canceled, Discontinued, Expired, Lapsed, Replaced, or Delayed are ignored. If a duplicate is found, OERR is notified and a warning message is displayed.

If its not a Pharmacy, Lab or Radiology order, the parameter ORK DUP ORDER RANGE OI is checked for a value for this orderable item. If none exists, 48 [hours] is the value used to determine the duplicate search range. The Order file is searched for the same orderable item ordered for the patient from the current order's date/time to the current order's date/time minus 48 hours. Orders with a status of Canceled, Discontinued, Expired, Lapsed, Replaced, or Delayed are ignored. If a duplicate is found, OERR is notified and a warning message is displayed.

Message: Duplicate order: <order text truncated to 60 characters> <last ordered date/time> [<order status>] (if lab order: *Most recent result: <most recent result>*)

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Error Message

Trigger: Entry of ordering dialog, selection of orderable item, acceptance or order, completion of ordering session.

Mechanism: The CPRS Expert System is recompiling rules and is momentarily disabled, OERR is notified and a warning message is displayed.

Message: Order checking is recompiling and momentarily disabled.

Danger Lvl: This order check is exported with a Low clinical danger level.

Estimated creatinine clearance if < 50

Trigger: Entry of pharmacy ordering dialog

Mechanism: The CPRS Expert System calculates the creatinine clearance based on the most recent serum creatinine results. If the value is less than 50 or it cannot be calculated, OERR is notified and a warning message is displayed.

Message: Est. CrCl: <value calculated from most recent serum creatinine>. (CREAT: <result> BUN: <result>)

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Glucophage-Contrast media interactions

Trigger: Selection of a Radiology orderable item.

Mechanism: The CPRS Expert System checks the radiology orderable item against the orderable item file to determine if it uses a non-barium contrast media. If it does, the Pharmacy package is requested to return a list of all medications the patient is currently receiving. If one of these is glucophage/metformin OERR is notified and the warning message is displayed.

Message: Procedure uses non-barium contrast media and patient is taking glucophage.

Danger Lvl: This order check is exported with a High clinical danger level.

Glucophage-Lab results interactions

Trigger: Selection of a Pharmacy orderable item.

Mechanism: The CPRS Expert System checks the pharmacy orderable item's local text (from the Dispense Drug file [#50]) to determine if it contains "glucophage" or "metformin". The expert system next searches for a serum creatinine result within the past x number of days as determined by parameter ORK GLUCOPHAGE CREATININE. It the patient's creatinine result was greater than 1.5 or does not exist, OE/RR is notified and the warning message is displayed.

Message: Glucophage – no serum creatinine within past <x> days. else:
Glucophage – Creatinine results: <creatinine greater than 1.5 w/in past <x> days>

Danger Lvl: This order check is exported with a High clinical danger level.

Lab order frequency restrictions

Trigger: Acceptance of a Lab orderable item.

Mechanism: The lab order is equated with equivalent local lab procedures and split into atomic lab procedures (if appropriate). Lab file fields Max Order Freq and Single Day Max Order Freq are checked for values and equated with the lab procedure/specimen.
If a procedure/specimen contains a value for Max Order Freq, Order Entry is requested to provide a list of all lab orders placed for the patient from the current order's date/time to the current order's date/time minus the number of days indicated in field Max Order Freq. Orders with a status of Canceled, Discontinued, Expired, Lapsed, Replaced, Changed, or Delayed are ignored. The lab orders returned by Order Entry are equated with equivalent local lab procedures and split into atomic lab procedures (if appropriate). If the equivalent local lab procedure of a lab order returned by Order Entry equals an equivalent local lab procedure of the current order and the lab order returned by Order Entry was placed within the past *X* number of days (where *X* is the value of Max Order Freq), OERR is notified and a warning message is displayed. If Max Order Freq exists for a lab procedure/specimen, Single Day Max Order Freq is not processed. If a procedure/specimen does not contain a value for Max Order Freq but does have a Single Day Max Order Freq value, Order Entry is requested to provide a list of all lab orders placed on the same date as the current order's date/time. Orders with a status of Canceled, Discontinued, Expired, Lapsed, Replaced, Changed, or Delayed are ignored. The lab orders are equated with equivalent local lab procedures and split into atomic lab procedures (if appropriate). If more duplicates than the value of Single Day Max Order Freq are found, OERR is notified and a warning message is displayed.

Message: Max lab test order freq exceeded for: <lab test> or:
Lab test daily order max exceeded for: <lab test>.

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Missing lab tests for angiogram procedure

Trigger: At the conclusion of an ordering session.

Mechanism: The CPRS Expert System checks the radiology orderable item to determine if it is linked to OCX nat'l term ANGIOGRAM (PERIPHERAL) then determines if the required concurrent lab tests PROTHROMBIN TIME and THROMBOPLASTIN have been ordered in the same ordering session.

Message: Missing labs for angiogram <missing lab tests>.

Danger Lvl: This order check is exported with a High clinical danger level.

No allergy assessment

Trigger: Selection of a Radiology, Pharmacy or Dietetics orderable item.

Mechanism: The CPRS Expert System calls into the Allergy Tracking System (ATS). If the patient has no allergy data on file, OERR is notified and the warning message is displayed.

Message: Patient has no allergy assessment.

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Order Checking not available/supported

Trigger: Entry of any ordering dialog [Note: this order check is currently not triggered.]

Mechanism: OERR checks the value of parameter ORK SYSTEM ENABLE/DISABLE. If it is 'Disabled', the message is displayed and no further order check processing occurs. The exported value for this parameter is 'Disabled'. This prevents order checking from processing HL7 messages exchanged during conversions. It can be set at the Division and System levels. Values are set via an option under the menu option ORK ORDER CHK MGMT MENU.

Message: Order checking currently not available/supported.

Danger Lvl: This order check is exported with a Low clinical danger level.

Polypharmacy

Trigger: Entry of pharmacy ordering dialog

Mechanism: The CPRS Expert System calculates the number of active medications the patient is receiving. For inpatients, only inpatient meds are counted. If the patient is an outpatient, only outpatient meds are counted. Medications with a status of Expired, Discontinue, Deleted, or Renewed are not counted. Supplies are not counted. If the number is greater than number x, as determined by parameter ORK POLYPHARMACY, OERR is notified and a warning message is displayed.

Message: Potential polypharmacy – patient is currently receiving <number of meds> medications.

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Recent barium study (w/in 2 days)

Trigger: Selection of Radiology orderable item.

Mechanism: The CPRS Expert System checks the radiology orderable item against the orderable item file to determine if it uses a barium contrast media. If so, Order Entry is requested to provide a list of all radiology orders placed for the patient within the past 48 hours. Each radiology order is checked to determine if its related orderable item uses barium contrast media. If it does, OERR is notified and the warning message is displayed.

Message: Recent barium study: <order text truncated to 60 characters> <last ordered date/time> [<order status>].

Danger Lvl: This order check is exported with a High clinical danger level.

Recent Cholecystogram (w/in 7 days)

Trigger: Acceptance of Radiology orderable item.

Mechanism: The CPRS Expert System checks the radiology orderable item against the orderable item file to determine if it is a cholecystogram. If so, Order Entry is requested to provide a list of all radiology orders placed for the patient within the past 7 days. Each radiology order is checked to determine if its related orderable item is a cholecystogram. If it does, OERR is notified and the warning message is displayed.

Message: Recent cholecystogram: <order text truncated to 60 characters> <last ordered date/time> [<order status>].

Danger Lvl: This order check is exported with a High clinical danger level.

Renal function (BUN, creatinine) for patients over 65

Trigger: Entry of pharmacy ordering dialog

Mechanism: The CPRS Expert System checks the patient age. If it is greater than 65, OERR is notified and a warning message is displayed.

Message: Patient > 65. Renal results: <BUN and/or creatinine results with D/T>

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Significant Drug interaction

Trigger: Selection of Pharmacy orderable item for existing medications and at the conclusion of an ordering session against meds placed in that session.

Mechanism: The Pharmacy package is requested to determine if the patient is currently receiving a medication which will interact in a significant manner with the drug selected for ordering. If Pharmacy finds a drug-drug interaction, OERR is notified and the warning message is displayed.

Message: Significant drug-drug interaction: <drug1> & <drug2> (text and status of offending medication order)

Danger Lvl: This order check is exported with a Moderate clinical danger level.

Appendix F: Creating, Editing, and Viewing Release Events

This appendix describes how to create, edit, and view a release event. Creating a release event allows CPRS users to write event-delayed orders that are not executed until the release event occurs. For example, you could create a release event called "Transfer to Medicine Treating Specialty" that includes three different, but related treating specialties. A clinician could then write an order that would be delayed until the "Transfer to Medicine Treating Specialty" release event occurred (i.e., the patient is transferred to one of the treating specialties). After the "Transfer to Medicine Treating Specialty" event occurred, the order would be released.

Creating a Release Event

☞**NOTE: Release events are stored in the OE/RR RELEASE EVENTS file (#100.5)**

To create a release event, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
   The following menu will appear:

```
Select one of the following:

1.  Auto-DC Rules
2.  Release Events
Enter response:
```

4. Select Release Events by typing **2**.
   The existing release events will appear in a numbered list.
5. Select Add/Edit by typing **AE**.
6. Press **Return** at the Select item(s) prompt.
7. Type a name for the release event at the Select *OE/RR RELEASE EVENTS NAME* prompt and press **Return**.
8. Type **Y** or **Yes** at the *Are you adding [event name] as a new OE/RR RELEASE EVENTS? Prompt.*
9. Enter one of these letters at the OE/RR RELEASE EVENTS TYPE OF EVENT prompt:
   - **A** for an admission event.
   - **T** for a transfer event.
   - **D** for a discharge event.
   - **O** for an O.R. event.
   - **M** for a manual release event.
10. Enter a division at the *OE/RR RELEASE EVENTS DIVISION* prompt.
    - For admission events, enter the location where the patient will be admitted.
    - For transfer events, enter the location where the patient will be transferred.
    - For discharge events, enter the location the patient will be leaving.
    - For O.R. events, enter the location where the patient will have the procedure.
    - For manual release events, enter the location where the patient will be located.
11. Enter Y or N at the *Do you want to copy from an existing entry*? prompt.
12. You will now be prompted to enter additional required information. For an explanation of additional prompts and fields you may encounter, see the Explanation of Release Event Prompts (Fields in the OE/RR RELEASE EVENTS file #100.5) topic.

13. Once you have entered all of the required information, the *You have now entered the required fields and may ^ to exit* prompt will appear. If you do not wish to further define this event, type ^ to exit.

☞**NOTE: You can also create a new release event from the detailed display screen.**

☞**NOTE**: **New release events are inactive by default and must be activated (by following the steps in the** Activating / Inactivating a Release Event **topic) before they are used.**

Creating a Child Release Event

A child release event is a variation of a main or parent release event. A child release event shares the same trigger event as its parent; however, a child release event can be assigned to a different order menu than its parent release event.

For example, suppose your facility has a release event named “transfer to surgery ICU” that releases orders when a patient is transferred to the surgery ICU. This release event is appropriate for most of your needs; however, when a clinician writes delayed orders for a transfer to the orthopedic surgery ICU, you would like the clinician to be presented with a slightly different order menu. In this example, you could create a child release event called “transfer to orthopedic surgery ICU”. This child event would share the same trigger event as its parent; however, clinicians who selected the “transfer to orthopedic surgery ICU” child release event would be presented with a different order menu.

To create a child release event, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
   The following menu will appear

```
Select one of the following:

1. Auto-DC Rules
```

```
2. Release Events
Enter response:
```

4. Select Release Events by typing **2**.
   The existing release events will appear in a numbered list.
5. Select Create Child Event by typing **CC**.
6. At the *Select item(s)* prompt, enter the number of the parent event that you want to associate with the new child release event.
7. At the *Select OE/RR CHILD RELEASE EVENTS NAME* prompt, type a name for the new child release event.
8. The name that you entered in step 6 will appear. Verify that you entered the name correctly and press Return.
9. Enter the name that you would like displayed to CPRS users at the *DISPLAY TEXT* prompt.
10. Once you have entered all of the required information, the *You have now entered the required fields and may ^ to exit* prompt will appear. If you do not wish to further define this child event, type ^ to exit. If you would like to enter additional information, please refer to the Explanation of Release Event Prompts (Fields in the OE/RR RELEASE EVENTS file #100.5) topic.

☞ **NOTE: New child release events are inactive by default and must be activated (by following the steps in the Activating / Inactivating a Release Event topic) before they are used.**

☞ **NOTE: Child release events are indented and displayed under the associated parent event.**

```
DEV CUR - KEAV 420
File  Edit  View  Tools  Options  Help

Release events                    Sep 11, 2002@14:07:19          Page:    1 of    3
Event set up and maintenance - All entries/Truncated view
    Event Name                                  Display Text          Active?  Event
1   ADMIT TO MEDICAL OBSERVATION (5000)         ADMIT TO MEDICAL OBS   Y        O
2   ADMIT TO MEDICINE (5000)                    ADMIT TO MEDICINE (5   Y        A
3     ADMIT TO MEDICINE CHILD1                  ADMIT TO MEDICINE CH   Y        A
4     ADMIT TO MEDICINE CHILD2                  ADMIT TO MEDICINE CH   Y        A
5     CHILD3                                    CHILD3                 N        A
6   ADMIT TO NEUROLOGY OBSERVATION (5000)       ADMIT TO NEUROLOGY O   Y        A
7   ADMIT TO PSYCHIATRIC OBSERVATION (5000)     ADMIT TO PSYCHIATRIC   Y        A
8   ADMIT TO REHAB MEDICINE OBSERVATION (500    ADMIT TO REHAB MEDIC   N        A
9   ADMIT TO SURGERY (5000)                     ADMIT TO SURGERY (50   Y        A
10  ADMIT TO SURGICAL OBSERVATION (5000)        ADMIT TO SURGICAL OB   N        A
11  AMIT TO BLIND REHAB OBSERVATION (5000)      ADMIT TO BLIND REHAB   Y        A

+          Select number or enter action desired                              >>>
AE  Add/Edit              CC  Create Child Event     DD  Detailed Display
AI  Activate/Inactivate   CD  Change display         EP  Edit Event Delay Params
Select action: Next Screen//
   1(024,030)
```

Items 3, 4, and 5 are child release events of the Admit to Medicine parent release event.

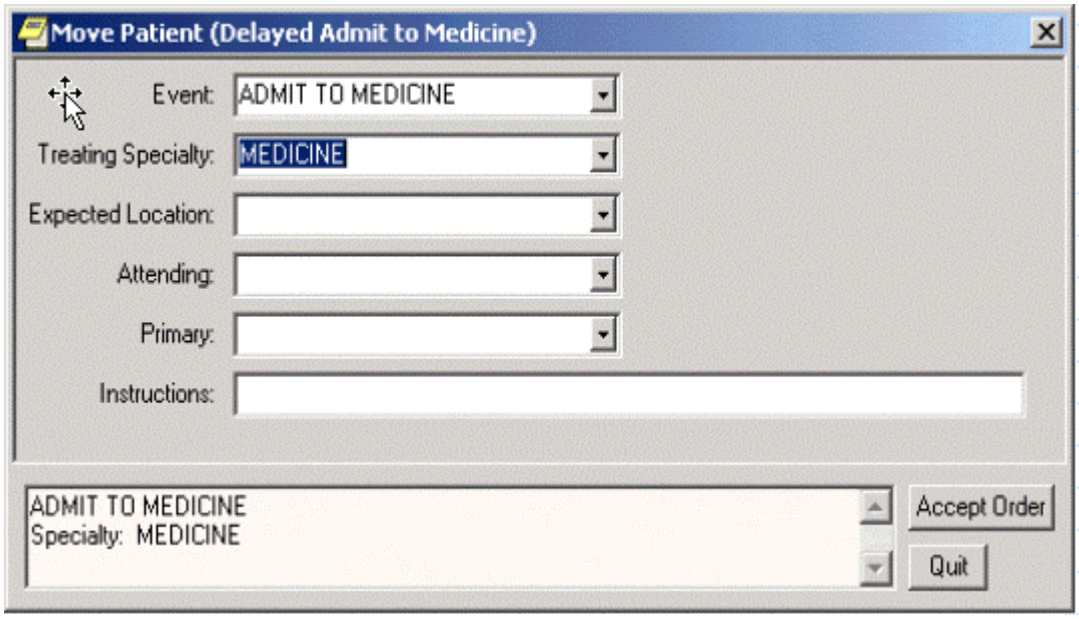
Explanation of Release Event Prompts (Fields in the OE/RR RELEASE EVENTS file #100.5)

The list below explains the additional prompts (fields) that you may encounter when entering a new release event:

- *Display Text* – the name of the release event as it appears to CPRS users.
- *Type of Event* – the type of release event. The value of this field can be A (admission event), T (transfer event), D (discharge event), O (O.R. event), or M (manual release event).
- *Division* – the division to which the release event will apply.
    - For admission events the division is the admitting location.
    - For discharge events the division is the location the patient is leaving.
    - For transfer events the division is the receiving location where the patient will be transferred.
    - For O.R. events the division is the location where the patient will have the procedure.

- For manual release events the division is where the patient will be located.

- *MAS Movement Type* – the MAS movement type that will trigger this release event.
  - For admission and discharge events it is recommended that this field be left blank unless you have a need for a very specific admission/discharge event. This way, any admission/discharge type will release delayed orders.
  - For O.R. events a MAS Movement type is not required.
- *Select Included Locations* – the locations included in the release event.
- *Select Included Treating Specialties* – the treating specialties included in the release event.
  - For O.R events a treating specialty is not required.
- *Short Name* – a short name for the release event (used when space is limited on the Orders tab).
- *Event Order Dialog* – the name of the dialog that appears when a user writes an event-delayed order assigned to the release event.
  - For admission events use OR(Z) GXMOVE EVENT or ADMIT PATIENT.
  - For discharge events use OR(Z) GXMOVE EVENT or DISCHARGE.
  - For transfer events use OR(Z) GXMOVE EVENT or TRANSFER.



The OR GXMOVE EVENT dialog.

- *Order Set Menu* – the order set/menu that will appear when a user writes an event-delayed order assigned to the release event.

☞ **NOTE: Order sets listed in this field should be part of an order menu.**

- *Lapse in # Days* – the number of days that an event-delayed order assigned to the release event will remain active. Once the number of days specified is exceeded, you can no longer release orders assigned to this release event.
- *Ordering Parameters Location* – the location that the release event will use to retrieve its ordering parameters.
    - For admission, transfer, O.R., and manual release events, be sure to specify a representative location so that the appropriate parameter values for dialogs (such as dietetics and lab) are used.
    - For discharge events it is recommended that you specify a representative location so that the appropriate parameter values for dialogs are used. However, this is not required because the patient will be leaving the facility.
- *Copy Active Orders* – indicates whether a user should be permitted to copy existing active orders to new event-delayed orders.
    - For admission and discharge events this field is usually set to no.
    - For transfer events this field is usually set to yes.

☞ **NOTE: You can configure the OREVNT EXCLUDE DGRP parameter to prevent orders belonging to specific display groups from being copied. For more information, refer to Excluding Display Groups from the Copy Active Orders Dialog Box**

Sample Release Events

Sample Admission Event

```
Cache TRM:1124
File  Edit  Help
 Detailed Display                May 20, 2002@21:32:24          Page:     1 of     2
Name:                            ADMIT TO MEDICINE
Short name:                      ADMIT TO MED
Inactivated:
Type of event:                   ADMISSION
Division:                        REGION 5
Event order dialog:              OR GXMOVE EVENT
Order set/menu:                  ZZMEL MENU
Lapse in #days:                  14
Mas movement type:
Display text:                    ADMIT TO MEDICINE
Ordering parameters location:    2B MED
Copy active orders:              YES

Included Locations:
2B MED

Included Treating Specialties:
MEDICINE
MEDICAL OBSERVATION

+          Enter ?? for more actions
AE    Add/Edit                                AI    Activate/Inactivate
Select Item(s): Next Screen//
```

This sample release event uses the OR GXMOVE EVENT dialog and does not specify a MAS movement type.

Sample Discharge Event

```
Cache TRM:1284
File  Edit  Help
 Detailed Display                Sep 12, 2002@13:55:12          Page:     1 of     1
Name:                            DISCHARGE
Short name:                      DISCH
Inactivated:                     SEP 12, 2002@13:53:13
Type of event:                   DISCHARGE
Division:                        REGION 5
Event order dialog:              OR GXMOVE DISCHARGE
Order set/menu:                  ZZMEL DISCHARGE SET
Lapse in #days:                  7
Mas movement type:
Display text:                    Discharge
Ordering parameters location:
Copy active orders:

          Enter ?? for more actions                                          >>>
AE    Add/Edit              AI    Activate/Inactivate   HIS   Add/Remove Histories
Select Item(s): Quit//
```

A sample discharge event

Sample Transfer Event: Ward or Division Change

```
Cache TRM:1124
File  Edit  Help
 Detailed Display                May 20, 2002@21:35:23          Page:     1 of     2
Name:                            TRANSFER TO 1A
Short name:                      1A
Inactivated:
Type of event:                   TRANSFER
Division:                        REGION 5
Event order dialog:              OR GXMOVE TRANSFER
Order set/menu:
Lapse in #days:                  30
Mas movement type:               INTERWARD TRANSFER
Display text:                    TRANSFER TO 1A
Ordering parameters location:    1A
Copy active orders:              YES

Included Locations:
1A

Activation History:
Activated: May 13, 2002@07:45:01  Inactivated:

Add/Edit History:
+          Enter ?? for more actions
AE    Add/Edit                              AI    Activate/Inactivate
Select Item(s): Next Screen//
```

A sample transfer event for a ward or division change

Sample Transfer Event: From PASS

```
Cache TRM:1124
File  Edit  Help
 Detailed Display                May 20, 2002@21:38:18          Page:     1 of     1
Name:                            RETURN FROM PASS
Short name:                      FROM PASS
Inactivated:
Type of event:                   TRANSFER
Division:                        REGION 5
Event order dialog:
Order set/menu:
Lapse in #days:                  7
Mas movement type:               FROM AUTH. ABSENCE OF 96 HOURS OR LESS
Display text:                    RETURN FROM PASS
Ordering parameters location:
Copy active orders:              YES

Activation History:
Activated: May 20, 2002@21:38:16  Inactivated:

Add/Edit History:
Added on May 20, 2002@21:38 by BUECHLER,MELANIE


           Enter ?? for more actions
AE    Add/Edit                              AI    Activate/Inactivate
Select Item(s): Quit//
```

The MAS movement type specified in this event distinguishes the type of transfer.

Sample Transfer Event: to ASIH

```
Cache TRM:1124
File  Edit  Help
 Detailed Display                 May 20, 2002@21:41:49          Page:    1 of    1
Name:                             TO ASIH
Short name:                       TO ASIH
Inactivated:                      MAY 20, 2002@21:39:51
Type of event:                    TRANSFER
Division:                         REGION 5
Event order dialog:               OR GXMOVE EVENT
Order set/menu:                   ZZMEL MENU
Lapse in #days:                   3
Mas movement type:                TO ASIH (VAH)
Display text:                     TO ASIH
Ordering parameters location:     2B MED
Copy active orders:

Included Treating Specialties:
MEDICINE
SURGERY

Add/Edit History:
Added on May 20, 2002@21:41:45 by BUECHLER,MELANIE

          Enter ?? for more actions
AE   Add/Edit                          AI   Activate/Inactivate
Select Item(s): Quit//
```

Sample transfer event: to ASIH

Sample Transfer Event: to NHCU

```
Cache TRM:1284
File  Edit  Help
 Detailed Display                 Sep 12, 2002@14:17:07          Page:    1 of    1
Name:                             ADMIT TO NHCU
Short name:                       NHCU
Inactivated:                      SEP 12, 2002@14:15:06
Type of event:                    ADMISSION
Division:                         REGION 5
Event order dialog:               ORZ GXMOVE ADMIT PATIENT
Order set/menu:                   ZZMEL MENU
Lapse in #days:                   7
Mas movement type:
Display text:                     Transfer to NHCU
Ordering parameters location:
Copy active orders:               YES

Included Treating Specialties:
DOMICILIARY CHV

          Enter ?? for more actions                                          >>>
AE   Add/Edit            AI   Activate/Inactivate   HIS   Add/Remove Histories
Select Item(s): Quit//
```

Sample transfer event: to NHCU

Sample O.R. Event

```
Cache TRM:1264
File  Edit  Help
 Detailed Display                 May 19, 2002@14:23:25          Page:    1 of    1
Name:                             SURGERY
Inactivated:                      MAY 06, 2002@11:40
Type of event:                    O.R.
Division:                         REGION 5
Dc reason:                        Surgery
Display text:                     SURGERY

Included Packages:
ORDER ENTRY/RESULTS REPORTING
INPATIENT MEDICATIONS
IV MEDICATIONS
LAB SERVICE

Add/Edit History:
Added on May 06, 2002@11:40:01 by BUECHLER,MELANIE
Edited on May 19, 2002@14:20:40 by BUECHLER,MELANIE

          Enter ?? for more actions
AE    Add/Edit                          AI    Activate/Inactivate
Select Item(s): Quit//
```

A sample O.R. event

Sample Manual Release Event

```
Cache TRM:1124
File  Edit  Help
 Detailed Display                 May 20, 2002@21:46:26          Page:    1 of    1
Name:                             POST-OP
Short name:                       POST-OP
Inactivated:
Type of event:                    MANUAL RELEASE
Division:                         REGION 5
Event order dialog:
Order set/menu:                   ZZMEL MENU
Lapse in #days:                   14
Display text:                     POST-OP
Ordering parameters location:     1A
Copy active orders:

Activation History:
Activated: May 13, 2002@07:45:49  Inactivated:

Add/Edit History:
Added on May 13, 2002@07:45:44 by BUECHLER,MELANIE
Edited on May 13, 2002@08:57:44 by BUECHLER,MELANIE
Edited on May 13, 2002@11:36:49 by BUECHLER,MELANIE
Edited on May 20, 2002@21:46:17 by BUECHLER,MELANIE
          Enter ?? for more actions
AE    Add/Edit                          AI    Activate/Inactivate
Select Item(s): Quit//
```

A sample manual release event

Activating/Inactivating a Release Event

☞ **NOTE: If a parent release event is inactive, all child release events will also be inactive. However, a child release event can be inactive while the parent release event is active.**

To activate/inactivate a release event, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
   The following menu will appear

```
Select one of the following:

1. Auto-DC Rules
2. Release Events
Enter response:
```

4. Select Release Events by typing **2**.
   The existing release events will appear in a numbered list.
5. Select Activate/Inactivate by typing **AI**.
6. Type the number of the release event you would like to activate/inactivate at the *Select items* prompt.

7. The computer will display a message asking if you are sure you want to activate/inactivate this release event. Type the appropriate response.

   ☞ **NOTE**: **You can also activate/inactivate a release event from the detailed display screen.**

   ☞ **NOTE**: **Once you have activated a release event, the event will appear on the Event Delayed Orders dialog in the CPRS GUI. Users can now write orders that are delayed until the release event occurs.**

Detailed Display of a Release Event

To view a detailed display of a release event, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

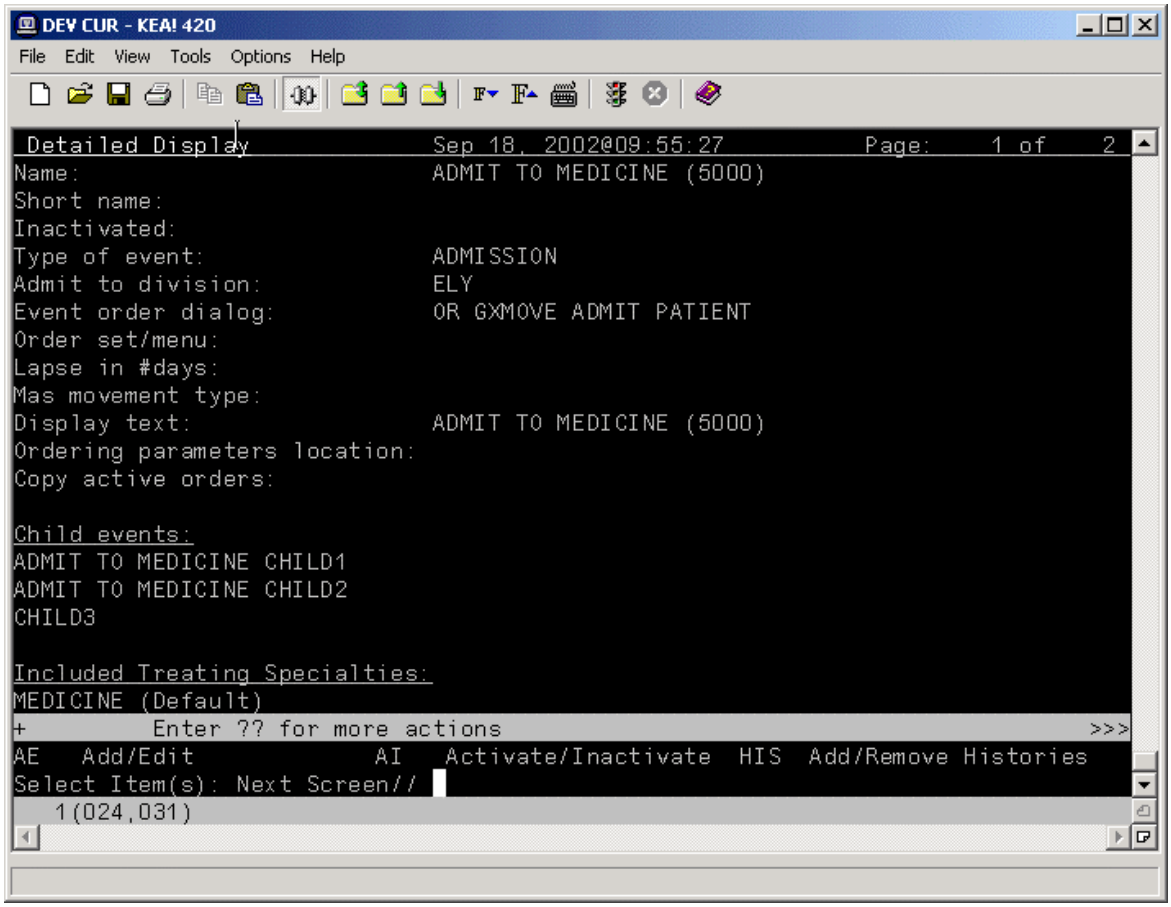
```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
   The following menu will appear:

```
Select one of the following:

1. Auto-DC Rules
2. Release Events
Enter response:
```

4. Choose Release Events by typing **2**.
5. Select Detailed Display by typing **DD**.
6. At the *Select item(s)* prompt, type the number of the release event that you would like to display.

   A detailed display of the release event will appear.



The release event detailed display

Audit and Activation History

The audit and activation histories on the detailed display can be toggled on or off depending on your preferences.

To toggle the audit and activation histories on or off, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
```

```
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

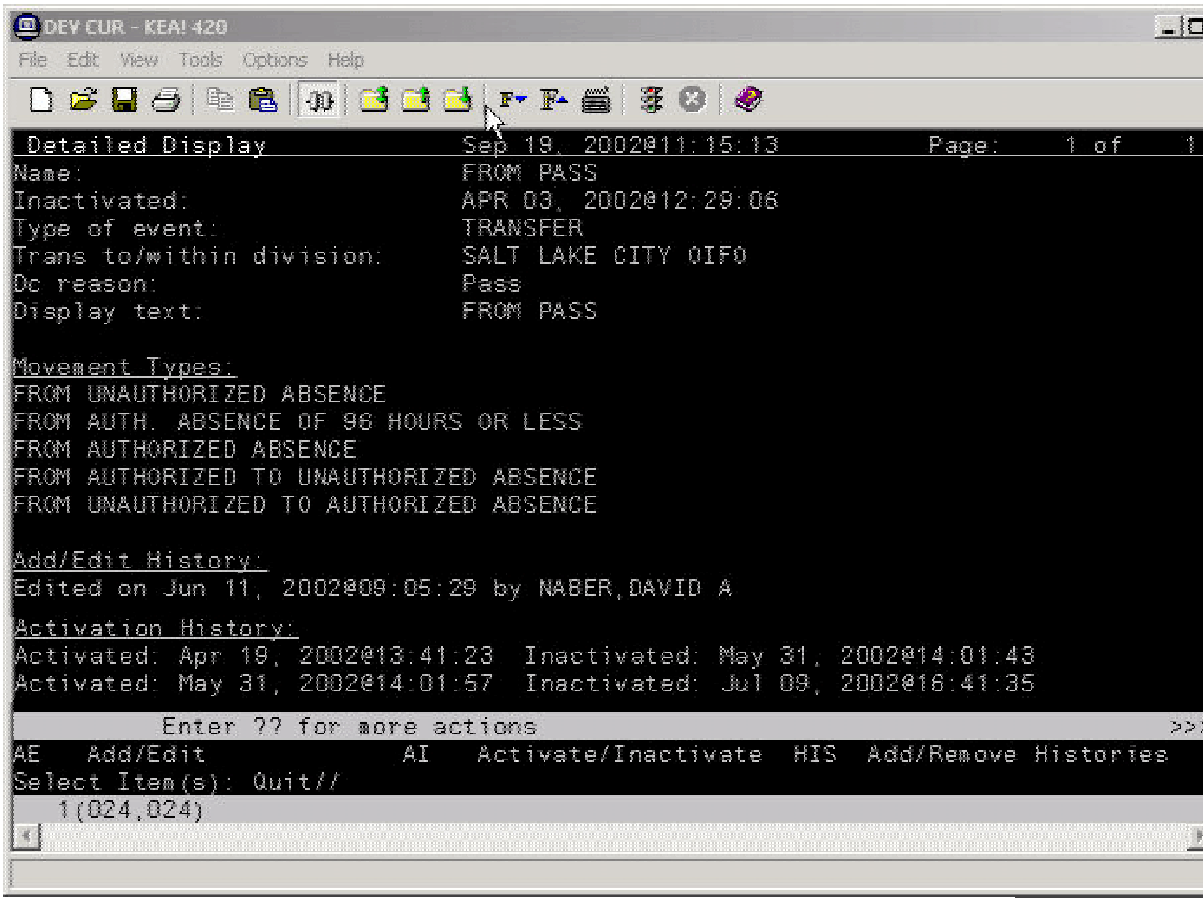
```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
   The following menu will appear:

```
Select one of the following:

1. Auto-DC Rules
2. Release Events
Enter response:
```

4. Type **1** to select Auto-DC Rules or **2** to select Release Events.
5. Type **DD** to select Detailed Display.
6. At the *Select item(s)* prompt, type the number of the release event or auto-DC rule that you would like to display.

   A detailed display of the release event or auto-DC rule will appear.
7. Type **H** to select Add/Remove Histories
8. At the *Do you want to include them on the detailed display?* prompt, type **Y** to include the audit and activation histories on the detailed display. Type N if you do not wish to display the audit and activation histories.



The audit and activation history can be toggled on or off on the detailed display screen.

Tracking Event-Delayed Orders (OE/RR PATIENT EVENTS file #100.2)

You can use the information stored in the OE/RR PATIENT EVENTS file (#100.2) to determine which orders were released as the result of a release event.

To retrieve information from the OE/RR PATIENT EVENTS file (#100.2), follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Inquire to OE/RR Patient Event File by typing **IN**.
4. Enter either the name of the release event, the name of the patient, or the patient's social security number at the *Select OE/RR PATIENT EVENT* prompt.

   The records that match the criteria you specified will appear in a numbered list.
5. If necessary, type the number of the record you would like to view.
6. Choose the output device at the *DEVICE* prompt.
   The details of the record will be sent to the appropriate device.

Creating a List of Commonly Used Release Events

The OREVNT COMMON LIST parameter allows a CAC to create a list of commonly used release events that will be displayed at the top of a users release event list.

To define a list of commonly used release events, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Parameters for event delayed orders by typing **EP**.
4. Type **3** to choose Common release event list.
5. Choose how you would like to set the OREVNT COMMON LIST parameter by typing one of the following at the *Enter Selection* prompt:
   - **1** – for user level
   - **2** – for class level
   - **3** – for team level
   - **4** – for location level
   - **5** – for service level
   - **6** – for division level

6. If you selected 1, the *Select NEW PERSON NAME* prompt will appear. If you selected 2, the *Select USR CLASS* prompt will appear. If you selected 3, the *OE/RR LIST NAME* prompt will appear. If you selected 4, the *Select HOSPITAL LOCATION NAME* prompt will appear. If you selected 5, the *Select SERVICE/SECTION NAME* prompt will appear. If you selected 6, the *Select INSTITUTION NAME* prompt will appear. Type the appropriate response.
7. At the *Select Entry Number* prompt, type a number for the entry. The number you enter is simply a placeholder and does **not** represent the position the release event will occupy in the common list. Rather, the list of commonly used release events will be displayed in alphabetical order.
8. The number you entered in step 6 will be displayed. Verify that the number is correct and press **Return**.
9. Type the name of the release event you would like to add to the common list at the *RELEASE EVEN*T prompt.
10. Repeat steps 6-8 if you would like to add additional release events to the list.
11. When you have finished adding release events to the list, press **Return** at the *RELEASE EVENT* prompt.
12. If you have not yet defined a default release event (set the OREVNT DEFAULT parameter), you will be prompted to do so.

```
Setting OREVNT COMMON LIST  for User: LANGLEY,PETER ------------
Select Entry number: 1

Entry number: 1//    1
Release Event: TRANSFER TO MEDICINE (5000)//   TRANSFER TO MEDICINE (5000)     T
RANSFER     SALT LAKE CITY HCS
Select Entry number: 2

Entry number: 2//    2
Release Event: POST OP//   POST OP     O.R.     ELY
Select Entry number: 3

Entry number: 3//    3
Release Event: TRANSFER TO ICU//   TRANSFER TO ICU     TRANSFER     SALT LAKE CI
TY OIFO
```

In the example above, the Transfer to Medicine (5000), Post OP, and Transfer to ICU release events have been assigned to the list of commonly used release events for Langley, Peter.

☞ **NOTE**: **A release event will only appear on the common list if it is context appropriate. For example, the release event "Transfer to Medicine" will not appear on the list if the current patient is an outpatient.**

Defining a Default Release Event

The OREVNT DEFAULT parameter allows a CAC to control which event is presented as the default release event when a user writes a new event-delayed order (in both the CPRS GUI and List Manager).

☞ **NOTE**: **Before a default release event can be defined for a class, team, location, service, or division, you must define a list of commonly used release events for that level. (In other words, you must set the OREVNT DEFAULT LIST parameter.)**

To define a default release event, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Parameters for event delayed orders by typing **EP**.
4. Select **2** to choose Default release event.
5. Choose how you would like to set the OREVNT DEFAULT parameter by typing one of the following at the *Enter Selection* prompt:
   - **1** – for user level
   - **2** – for class level
   - **3** – for team level
   - **4** – for location level
   - **5** – for service level
   - **6** – for division level

6. If you selected 1, the *Select NEW PERSON NAME* prompt will appear. If you selected 2, the *Select USR CLASS NAME* prompt will appear. If you selected 3, the *Select OE/RR LIST NAME* prompt will appear. If you selected 4, the *Select HOSPITAL LOCATION NAME* prompt will appear. If you selected 5, the *Select SERVICE/SECTION* prompt will appear. If you selected 6, the *Select INSTITUTION NAME* prompt will appear. Type the appropriate response.

   A list of available release events will appear.

```
OREVNT DEFAULT may be set for the following:
     1   User          USR    [choose from NEW PERSON]
     2   Class         CLS    [choose from USR CLASS]
     3   Team (OE/RR)  OTL    [choose from OE/RR LIST]
     4   Location      LOC    [choose from HOSPITAL LOCATION]
     5   Service       SRV    [choose from SERVICE/SECTION]
     6   Division      DIV    [choose from INSTITUTION]
```

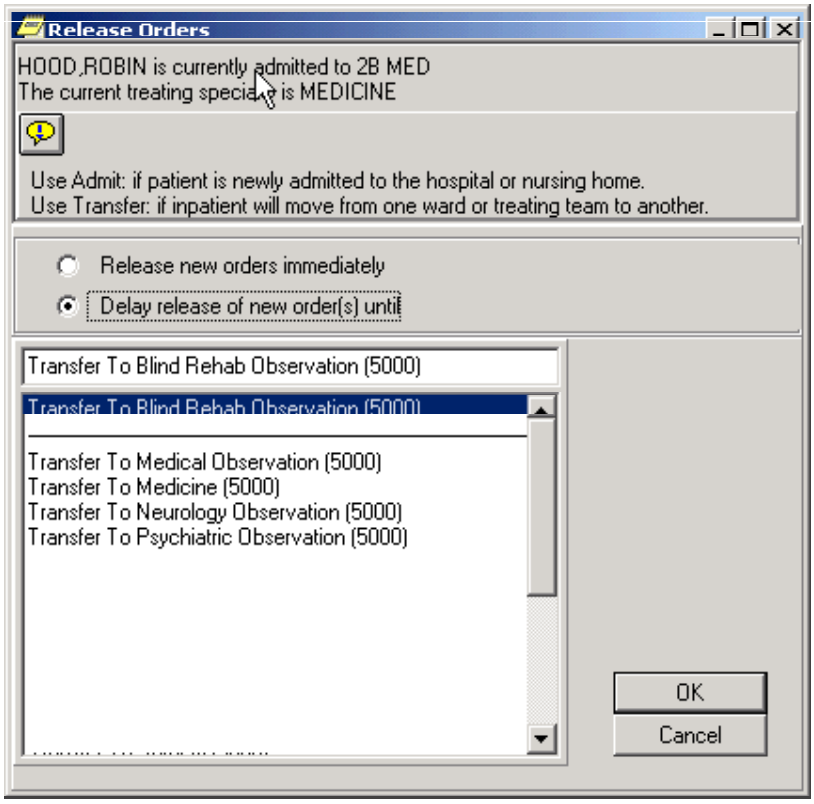
The OREVNT DEFAULT parameter may be set at the user, class, team, location, service, or division level.

7. Type the number of the release event that you would like to set as the default.

```
Enter selection: 2  Class   USR CLASS
Select USR CLASS NAME: INTERN PHYSICIAN

No DEFAULT has been set yet.

1) TRANSFER TO BLIND REHAB OBSERVATION (5000)
2) ADMIT TO SURGERY (5000)
3) POST OP (*INACTIVE*)

Select default release event:  (1-3): 1
```

In this example, the Transfer to Blind Rehab Observation (5000) release event is set as the default event for the Intern Physician user class.

☞ **NOTE**: **When a user is writing an event-delayed order, the default release event will appear only if it is context appropriate. For example, the default release event "Transfer to Medicine" will not appear if the current patient is an outpatient.**



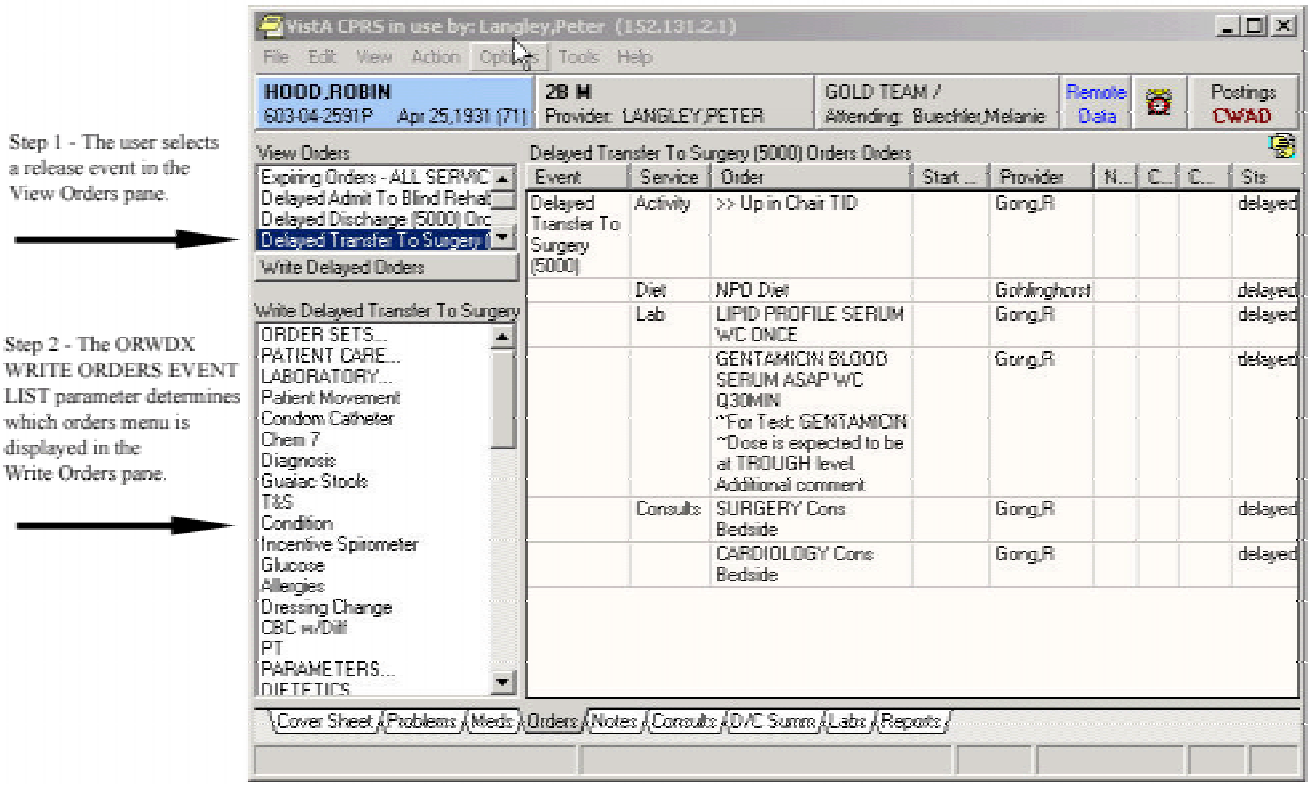
The default release event, Transfer to Blind Rehab Observation (5000) is highlighted on the Release Orders dialog box in the CPRS GUI.

```
HOOD,ROBIN is currently admitted to MEDICINE.
Delayed orders exist for HOOD,ROBIN for the following events:
    1  ADMIT TO BLIND REHAB OBSERVATION (5000)
    2  DISCHARGE (5000)
    3  TRANSFER TO SURGERY (5000)
To review or add delayed orders, select from (1-5) or enter a new event.
Select RELEASE EVENT: TRANSFER TO BLIND REHAB OBSERVATION (5000)//
```

The default release event, Transfer to Blind Rehab Observation (5000) is automatically selected in the List Manager version of CPRS.

Defining the Orders Menu for a Release Event

You can define which orders menu appears in the Write Orders pane (in the GUI) for a particular release event. You can do this by setting the ORWDX WRITE ORDERS EVENT LIST parameter.



The ORWDX WRITE ORDERS EVENT LIST parameter determines which orders menu appears in the Write Orders pane.

To set the ORWDX WRITE ORDERS EVENT LIST parameter, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Parameters for event delayed orders by typing **EP**.
4. Select Write orders list by event by typing **1**.
5. Choose how you would like to edit the ORWDX WRITE ORDERS EVENT LIST parameter by typing one of the following at the *Enter Selection* prompt:
   - **2** – for user level
   - **4** – for location level
   - **5** – for service level
   - **7** – for division level
   - **8** – for system level
6. If you selected 2, the *Select NEW PERSON NAME* prompt will appear. If you selected 4, the *Select HOSPITAL LOCATION NAME* prompt will appear. If you selected 5, the *Select SERVICE/SECTION NAME* prompt will appear. If you selected 7, the *Select INSTITUTION NAME* prompt will appear Type the appropriate response. If you selected 8, skip to step 6.
7. At the *Select Release Event* prompt, type the name of the release event.

8. Enter **Y** or **Yes** at the *Are you adding [RELEASE EVENT NAME] as a new Release Event?* prompt.
9. The release event you entered in step 6 will appear. Verify that this is the correct release event and hit **Return**.
10. Type the name of the order dialog or the display text at the *Value* prompt.
11. Repeat steps 6-9 for additional release events. When you are finished, press **Return** at the *Select Release Event* prompt.

Controlling who can Manually Release Orders

The OREVNT MANUAL RELEASE CONTROL and OREVNT MANUAL RELEASE parameters determine who can manually release an event-delayed order.

The OREVNT MANUAL RELEASE CONTROL parameter determines if the permission to manually release an event-delayed order is granted by:

- the ORES and ORELSE keys (keys only).
- the OREVNT MANUAL RELEASE parameter (manual release parameter only).
  -or-
- the ORES and ORELSE keys and the OREVNT MANUAL RELEASE parameter (both keys and parameter).

The OREVNT MANUAL RELEASE parameter must also be set if the OREVNT MANUAL RELEASE CONTROL parameter is set to "manual release parameter only" or to "both keys and parameter."

To set the OREVENT MANUAL RELEASE CONTROL parameter, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Parameters for event delayed orders by typing **EP**.
   The following menu will appear:

```
Select one of the following:
1         Write orders list by event
2         Default release event
3         Default release event list
4         Manual release controlled by
5         Set manual release parameter
```

4. Type **4** to select Manual release controlled by.
5. Choose how you would like to set the OREVNT MANUAL RELEASE CONTROL parameter by typing one of the following at the *Enter Selection* prompt:
   - **1** – for division level
   - **2** – for system level
6. If you selected 1, the *Select INSTITUTION NAME* prompt will appear. Type the appropriate response. If you selected 2, skip to step 6.
7. At the *Manual release controlled by* prompt, type one of the following responses:
   - **K (for Keys Only)**
     Use this setting if you would like only users who are assigned the ORES and ORELSE key to manually release event-delayed orders. This is the default setting and the setting that CPRS used prior to the release of patch OR*3.0*141.
   - **P (Manual Release Parameter Only)**
     Use this setting if you want the OREVNT MANUAL RELEASE parameter (discussed below) to control who can manually release an event-delayed order.
   - **B (Both Keys and Parameter)**
     If you choose this option, CPRS will first check to see if the user has the ORES or ORELSE key. If they do, they will be allowed to manually release an event-delayed order. If the user does not have the ORES or ORELSE key, CPRS will then check the OREVNT MANUAL RELEASE parameter to see if they should be allowed to manually release the order.

☞ **NOTE: If you select P or B, you will also need to set the OREVNT MANUAL RELEASE parameter by following the instructions below in the Setting the Manual Release Parameter (OREVNT MANUAL RELEASE) section.**

Setting the Manual Release Parameter (OREVNT MANUAL RELEASE)

☞ **NOTE: If the OREVNT MANUAL RELEASE CONTROL parameter is set to either P or B, users will be unable to manually release event-**

delayed orders until the OREVNT MANUAL RELEASE parameter is set. (It is distributed with the system level set to NO).

To set the OREVNT MANUAL RELEASE parameter, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Parameters for event delayed orders by typing **EP**.
   The following menu will appear:

```
Select one of the following:
1         Write orders list by event
2         Default release event
3         Default release event list
4         Manual release controlled by
5         Set manual release parameter
```

4. Type **5** to select Set manual release parameter.
5. Choose how you would like to edit the manual release parameter (OREVNT MANUAL RELEASE) by typing one of the following at the *Enter Selection* prompt:
   - 1 – for user level
   - 2 – for class level
   - 3 – for team level
   - 4 – for location level

- 5 – for service level
- 6 – for division level
- 7 – for system level

6. If you selected 1, the *Select NEW PERSON NAME* prompt will appear. If you selected 2, the *Select USR CLASS NAME* prompt will appear. If you selected 3, the *Select OE/RR LIST NAME* prompt will appear. If you selected 4, the *Select HOSPITAL LOCATION NAME* prompt will appear. If you selected 5, the *Select SERVICE/SECTION NAME* prompt will appear. If you selected 6, the *Select INSTITUTION NAME* prompt will appear. If you selected 7, skip to step 6.
7. At the *Allow manual release prompt*, type **Y** (yes) to allow users to manually release event-delayed orders or type **N** (no) to prevent users from manually releasing event-delayed orders.

Excluding Display Groups from the *Copy Active Orders* Dialog Box

The OREVNT EXCLUDE DGRP parameter allows you to prevent orders that belong to certain display groups from appearing on the *Copy Active Orders* dialog box.

To set the OREVNT EXCLUDE DGRP parameter, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Parameters for event delayed orders by typing **EP**.

   The following menu will appear:

```
Select one of the following:
1         Write orders list by event
2         Default release event
3         Default release event list
4         Manual release controlled by
5         Set manual release parameter
6         Exclude display groups from copy
```

4. Type **6** to select Exclude display groups from copy.
5. Choose how you would like to edit the OREVNT EXCLUDE RELEASE parameter by typing one of the following at the *Enter Selection* prompt:
   - 1 **– for division level**
   - 2 **– for system level**
6. If you selected 1, the *Select INSTITUTION NAME* prompt will appear. Enter the name for the institution. If you selected 2, continue to step 6.
7. At the *Select Entry Number* prompt, type a number for the entry. The number you enter is simply a placeholder.
8. If necessary, type **Y** or **Yes** at the *Are you adding [number] as a new Entry Number?*
9. The number you entered in step 6 will appear. Press **Return**.
10. Select the display group that you wish to exclude from the *Copy Active Orders* dialog.

Changing the Display

The change display function allows you to adjust the size of the Delayed Orders / Auto-DC Set-up editor and configure the display to show active entries, inactive entries, or all entries.

To change the size or content of the display, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
```

```
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
4. Select either Auto-DC rules or Release Events by typing either **1** or **2**.
5. Select Change display by typing **CD**.
6. Type **Y** or **N** at the *Do you want to truncate/expand this display?* Prompt.
7. Type **Y** or **N** at the *Terminal emulator in 80-column mode?* prompt.
8. At the *Select which entries should appear on the list* prompt type one of the following numbers:
   - **1** for active entries only
   - **2** for inactive entries only
   - **3** for all entries

   The orders that you specified will be displayed.

Files Associated with Release Events

OE/RR RELEASE EVENTS (#100.5)

This file contains the locally-defined events that can release delayed orders within each division. It is strongly recommended that this file not be edited with File Manager. Instead, CACs should use the event-delayed orders menu [OR DELAYED ORDERS]

Fields in OE/RR RELEASE EVENTS (#100.5)		
Field Number	**Field Name**	**Description**
.1	SHORT NAME	This field contains a shorter version of the Display Text field. The Short Name is used to display and group delayed orders on the Orders tab when space is limited.
1	INACTIVATED	This field contains the date and time that this release event will become inactive. Once this date/time has passed, you will no longer be able to delay new orders

		to this release event. However, any event-delayed orders that are already associated with this release event will still be released when the event occurs.
,1.5	ACTIVATION HISTORY	
100.52, .01	ACTIVATION DATE/TIME	The date/time that this event was activated.
100.52 ,1	INACTIVATION DATE/TIME	The date/time that this event was inactivated.
2	TYPE OF EVENT	This is the event that should cause delayed orders to be released to the service(s) for action. for OR events, the orders will be released when the TIME PAT OUT OF OR field is entered in the Surgery package. Orders delayed for Manual Release will not be automatically released by CPRS at all and can only be released via the "Release to Service" action by a user holding the ORES or ORELSE key.
3	DIVISION	This is the division that this event will apply to. For transfers across divisions, this field should be the new division that the patient is going to.
4	EVENT ORDER DIALOG	This field contains the name of the dialog that will appear when you are writing a generic event-delayed order that requests this release event. If such an order is not necessary for this event, leave this field empty. Unlike other delayed orders, the order created by this dialog will become active right away when signed and be visible on the Active Orders view as well as with the delayed orders on the Orders tab.
5	ORDER SET/MENU	This is a menu or order set containing items that are either necessary or commonly ordered when this event occurs. The menu or order specified in this field will be invoked when first placing delayed orders for this event. If an EVENT ORDER DIALOG was defined for this event, this order set/menu will be presented to the user immediately following that dialog. This field may be any type of order dialog except prompt types. **Note**: Order sets listed in this field should be part of an order menu.

6	LAPSE IN #DAYS	Patient events are evaluated whenever delayed orders are acted upon or viewed. If the number of days specified in this field have passed since delayed orders were entered for this event and for this patient, then the status of all orders delayed for this event will be changed to "lapsed" and the patient event itself will be terminated. The orders can no longer be released to the service.
7	MAS MOVEMENT TYPE	This is an MAS Movement Type that can further define this event. This field is optional, but if it is defined then it must match the patient's movement data to satisfy the event and cause any delayed orders to be released. For example, to have delayed orders released when a patient returns from passenter the movement type of AUTH ABSENCE 96 HOURS OR LESS, or leave this field empty to have the transfer event defined by other criteria such as treating specialty or ward location.
8	DISPLAY TEXT	This field is the name of the event as it will appear to the user in CPRS.
9	ORDERING PARAMETERS LOCATION	Many order dialogs use parameters that depend on location. The location specified in the Ordering Parameters Location field is used as the default location for retrieving those parameter values when delaying orders to this event. The patient's actual location will be saved with the order at the time of its release.
10	INCLUDED TREATING SPECIALTIES	The treating specialties in this field are the treating specialties that can satisfy this event. If the patient's new specialty matches a specialty in this field, then orders delayed for this event may be released.
100.51,.01	INCLUDED TREATING SPECIALTIES	This is a treating specialty that can satisfy this event. If the treating specialty isdefined, then the patient's new specialty must match one in this list in order for any delayed orders to be released. A specialty may only be included in one active release event at a time. If locations are also defined for this event then both the treating specialty and the location must match for orders to be released.
11	INCLUDED LOCATIONS	These are ward locations that can satisfy this event. If the patient's new location matches a location in this list, then orders delayed for this event may be

		released.
100.511,.01	INCLUDED LOCATIONS	This is a ward location that can satisfy this event. If defined, then the patient's new location must match a location in this list for any delayed orders to be released. A location may only be included in one active release event at a time. If this event also has treating specialties defined, then both the location and the treating specialty must match for orders to be released.
12	EDIT HISTORY	
100.512,.01	EDIT HISTORY	This field tracks when an event was added. It also tracks when the edit options were used on this event.
100.512,1	WHO ENTERED/EDITED	This field identifies the person who entered or edited the release event.
13	COPY ACTIVE ORDERS	This field determines whether or not the user is presented with a list of patient's active orders, which may be copied to the new release event. If this field is set to **no** then the user will not see the patient's active orders and will not be allowed to copy any current orders. If this field is set to **yes** then the user will see the patient's active orders and may select orders to copy to the to the release event. The list of active orders will be presented to the user after the ORDER DIALOG for the release event is processed (if it exists) and before the ORDER SET/MENU for the release event is processed (if it exists).

Appendix G: Automatically Discontinuing Orders (Auto-DC Rules)

A CAC can set up rules that will automatically discontinue an order when a specific event occurs. These rules are known as auto-DC rules. For example, a CAC can set up an auto-DC rule named "Transfer to Medicine Treating Specialty" that automatically discontinues all lab, pharmacy, and diet orders when a patient is transferred to a medicine treating specialty. Although the auto-DC rule will discontinue lab, pharmacy, and diet orders, all other orders will remain active. A number of variables can be used in auto-DC rules, including specific divisions, orderable items, locations, and MAS movement types.

Prior to the release of OR*3*142 and OR*3*141, you could not specify which orders would be automatically discontinued when the specified event occurred. Instead, all of the orders would be discontinued.

☞ **NOTE: OR*3.0*142 changes the way auto-DC rules are created and processed. After OR*3.0*142 is installed, existing auto-DC parameters will be converted into entries in the OE/RR Auto-DC Rules file (#100.6). The entries in the OE/RR Auto-DC Rules are for your division. Multidivisional sites will need to make copies of these rues for the other divisions in the system.**

Creating a New Auto-DC Rule

☞ **NOTE: Auto-DC rules are stored in the OE/RR AUTO-DC RULES file (#100.6)**

To create a new auto-DC rule, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters … [ORW PARAM GUI]
GA GUI Access – Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu … [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu … [ORK ORDER CHK MGMT MENU]
MM Order Menu Management … [ORCM MGMT]
LI Patient List Mgmt Menu … [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters … [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
```

```
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu … [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
4. Type **1**.
   The existing auto-DC rules will appear.
5. Select Add/Edit by typing **AE**.
6. Press **Return** at the *Select item(s)* prompt.
7. Type a name for the new rule at the *Select OE/RR AUTO-DC RULES NAME* prompt.

   ☞ **NOTE: The name should uniquely identify the rule. This is especially important at multidivisional sites.**

8. Type **Y** or **Yes** at the *Are you adding [rule name] as a new OE/RR AUTO-DC RULES?* prompt.
9. Enter one of the following letters at the *OE/RR AUTO-DC RULES TYPE OF EVENT* prompt:
   - **A** for an admission event.
   - **T** for a transfer event.
   - **D** for a discharge event.
   - **S** for a specialty transfer event.
   - **O** for an O.R. event.

   ☞ **NOTE: Patch SR*3.0*110 is required to create O.R. rules.**

10. Enter the division that this auto-dc rule will apply to at the *OE/RR AUTO-DC RULES DIVISION* prompt.
    - For admission rules, enter the admitting location.
    - For discharge rules, enter the location the patient will be discharged from.
    - For O.R. rules, enter the location where the patient will have the procedure.
11. For transfer and specialty transfer events the division reflects the receiving location.
12. Enter Y or N at the *Do you want to copy from an existing entry?* prompt.

13. You will be prompted to enter additional required information. Once you have entered all the required information, the *You have now entered the required fields and may ^ to exit* prompt will appear. If you do not wish to further define this auto-DC rule, type ^ to exit. If you would like to enter additional information, please refer to the Explanation of Auto-DC Rules Prompts (fields in the OE/RR AUTO-DC RULES file #100.6) topic.

☞ **NOTE: You can also create a new auto-DC rule from the detailed display screen.**

☞ **NOTE: New auto-DC rules are inactive by default and must be activated by following the steps in Activating/Inactivating an Auto-DC rule before they are used.**

Explanation of Auto-DC Rules Prompts (fields in the OE/RR AUTO-DC RULES FILE #100.6)

The list below explains the additional prompts (fields) that you may encounter when entering a new auto-DC rule:

- *Display Text* – The name of the auto-DC rule as it will appear to CPRS users.
- *Division* – The division that the auto-DC rule will apply to.
  - For admission rules, the division reflects the admitting location.
  - For discharge rules, the division reflects the location the patient is discharged from.
  - For O.R. rules, the division reflects the location where the patient is having the procedure.
  - For transfer and specialty transfer events, the division reflects the receiving location.
- *DC Reason* – The reason that this auto-DC rule will discontinue an order.
- *Excluded Display Groups* – The groups of orders (often subsets of the included packages) that are exceptions to this rule (should not cause the order to be discontinued).
- *Excluded Treating Specialties* – The specific sending and receiving specialties that are exceptions to the rule (should not cause an order to be discontinued). This prompt (field) is specific to specialty transfer events.
- *Except for Orderable Item* – An orderable item that is an exception to the rule (should not cause an order to be discontinued).

- *Except from Observation* –The field indicates whether a patient leaving an observation treating specialty should be an exception to this rule. This field is only used in discharge rules.

  This field can be set in the following ways:

  - Yes – if you set the field to **yes**, a discharge from an observation treating specialty will always be an exception to this rule (should not cause an order to be discontinued).
  - No – if you set this field to **no,** this rule will be applied regardless of whether the patient is discharged from an observation treating specialty.
  - If Readmitting – If you set this field to **If Readmitting**, the user will be prompted to enter whether the patient will be immediately readmitted. If the user answers yes, the order will not be automatically discontinued. If the user answers no, the rule will be applied.
- *Inactivated* – After the date/time listed in this field, the rule will no longer be applied.
- *Included Divisions* – For multidivisional sites, the specific sending divisions that are included in this rule.
- *Included Locations* – The specific sending and receiving wards that the auto-DC rule will apply to. This prompt (field) is only used with transfer events (no specialty change).
- *MAS Movement Type* – The MAS movement type that will trigger the auto-DC rule.
  - For a specialty transfer rule, the only movement type allowed is "Provider Specialty Change". However, any transfer that includes a specialty change will trigger this rule, even if another movement type is entered.
- *Type of Event* – The type of event that will trigger the auto-DC rule. The value of this field can be A (admission event), T (transfer event), D (discharge event), S (specialty transfer event), or O (O.R event).
- *Type of Orders to DC* – Orders generated by the VistA package specified in this field will be discontinued.

Sample Rules

Sample Admission Rule

```
Cache TRM:1264
File  Edit  Help
 Detailed Display              May 19, 2002@13:59:13          Page:    1 of    2
Name:                          ADMISSION
Inactivated:                   MAY 06, 2002@11:40
Type of event:                 ADMISSION
Division:                      REGION 5
Dc reason:                     Admit
Display text:                  ADMISSION

Movement Types:
AMBULATORY CARE (OPT-AC)
TRANSFER IN
DIRECT
READMISSION TO NHCU/DOMICILIARY
NON-SERVICE CONNECTED (OPT-NSC)
PRE-BED CARE (OPT-PBC)
NON-VETERAN (OPT-NVE)
WAITING LIST
OPT-SC

Included Packages:
ORDER ENTRY/RESULTS REPORTING
+          Enter ?? for more actions
AE   Add/Edit                          AI   Activate/Inactivate
Select Item(s): Next Screen//
```

A sample admission rule

Sample Discharge Rule

```
Cache TRM:1264
File  Edit  Help
 Detailed Display                May 19, 2002@14:03:44          Page:    1 of    2
Name:                            DISCHARGE
Inactivated:
Type of event:                   DISCHARGE
Division:                        REGION 5
Dc reason:                       Discharge
Display text:                    DISCHARGE
Except from observation:         IF READMITTING

Movement Types:
TRANSFER OUT
NON-SERVICE CONNECTED (OPT-NSC)
REGULAR
IRREGULAR
OPT-SC
NON-BED CARE
TO NHCU FROM HOSP
TO DOM FROM HOSP
TO NHCU FROM DOM
DISCHARGE TO CNH
VA NHCU TO CNH
+          Enter ?? for more actions
AE    Add/Edit                          AI    Activate/Inactivate
Select Item(s): Next Screen//
```

The *Except from observation* field is specific to discharge auto-DC rules.

Sample Discharge/Death Rule

```
Cache TRM:1264
File  Edit  Help
 Detailed Display                May 19, 2002@14:04:47          Page:    1 of    2
Name:                            DEATH
Inactivated:
Type of event:                   DISCHARGE
Division:                        REGION 5
Dc reason:                       Death
Display text:                    DEATH
Except from observation:

Movement Types:
DEATH
DEATH WITH AUTOPSY

Included Packages:
ORDER ENTRY/RESULTS REPORTING
DIETETICS
CONSULT/REQUEST TRACKING
RADIOLOGY/NUCLEAR MEDICINE

Activation History:
Activated: May 06, 2002@11:40  Inactivated:
+          Enter ?? for more actions
AE    Add/Edit                          AI    Activate/Inactivate
Select Item(s): Next Screen//
```

You can enter death and death with autopsy movement types for discharge/death rules.

Sample Specialty Change Rule

```
Cache TRM:1264
File  Edit  Help
 Detailed Display                May 19, 2002@14:10:23          Page:    1 of    2
Name:                            SPECIALTY CHANGE
Inactivated:
Type of event:                   SPECIALTY TRANSFER
Division:                        REGION 5
Dc reason:                       Treating Specialty Change
Display text:                    SPECIALTY CHANGE

Movement Types:
PROVIDER/SPECIALTY CHANGE

Included Packages:
LAB SERVICE
ORDER ENTRY/RESULTS REPORTING
INPATIENT MEDICATIONS

Excluding From Treating Specialties:     To Treating Specialties:
MEDICAL OBSERVATION                      MEDICINE

Activation History:
Activated: May 06, 2002@11:40  Inactivated:
+          Enter ?? for more actions
AE    Add/Edit                           AI    Activate/Inactivate
Select Item(s): Next Screen//
```

A Specialty change rule

Sample Transfer Rule: On PASS

```
Cache TRM:1264
File  Edit  Help
 Detailed Display                May 19, 2002@14:17:10          Page:    1 of    1
Name:                            ON PASS
Inactivated:
Type of event:                   TRANSFER
Division:                        REGION 5
Dc reason:                       Pass
Display text:                    ON PASS

Movement Types:
AUTH ABSENCE 96 HOURS OR LESS
AUTHORIZED ABSENCE
UNAUTHORIZED ABSENCE

Activation History:
Activated: May 19, 2002@14:16:08  Inactivated:

Add/Edit History:
Added on May 06, 2002@11:40:01 by BUECHLER,MELANIE

           Enter ?? for more actions
AE    Add/Edit                           AI    Activate/Inactivate
Select Item(s): Quit//
```

Note the movement types and the lack of included locations or divisions. Also notice the activation and add/edit histories

Sample Transfer Rule: ASIH

```
Cache TRM:1264
File  Edit  Help
 Detailed Display                May 19, 2002@14:18:49          Page:    1 of    1
Name:                            FROM ASIH
Inactivated:                     MAY 06, 2002@11:40
Type of event:                   TRANSFER
Division:                        REGION 5
Dc reason:                       ASIH
Display text:                    FROM ASIH

Movement Types:
FROM ASIH (VAH)

Add/Edit History:
Added on May 06, 2002@11:40:01 by BUECHLER,MELANIE

          Enter ?? for more actions
AE    Add/Edit                                AI    Activate/Inactivate
Select Item(s): Quit//
```

A sample ASIH transfer rule

Sample O.R. Rule

```
Cache TRM:1264
File  Edit  Help
 Detailed Display                May 19, 2002@14:23:25          Page:    1 of    1
Name:                            SURGERY
Inactivated:                     MAY 06, 2002@11:40
Type of event:                   O.R.
Division:                        REGION 5
Dc reason:                       Surgery
Display text:                    SURGERY

Included Packages:
ORDER ENTRY/RESULTS REPORTING
INPATIENT MEDICATIONS
IV MEDICATIONS
LAB SERVICE

Add/Edit History:
Added on May 06, 2002@11:40:01 by BUECHLER,MELANIE
Edited on May 19, 2002@14:20:40 by BUECHLER,MELANIE

          Enter ?? for more actions
AE    Add/Edit                                AI    Activate/Inactivate
Select Item(s): Quit//
```

A sample O.R. rule

Activating/Inactivating an Auto-DC Rule

To activate/inactivate an auto-DC rule, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
4. Type **1** to select Auto-DC Rules
   The available auto-DC rules will appear in a numbered list.
5. Select Activate/Inactivate by typing **AI**.
6. Type the number of the rule you would like to activate/inactivate at the *Select item(s) prompt*.
7. The computer will display a message asking you if you are sure you want to activate/inactivate this auto-DC rule. Type the appropriate response.

   ☞ **NOTE: You can also activate/inactivate an auto-DC rule from the detailed display screen.**

Editing an Auto-DC Rule

To edit an auto-DC rule, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
4. Type **1** to select Auto-DC Rules
   The available auto-DC rules will appear in a numbered list.
5. Select Add/Edit by typing **AE**.
6. Type the number of the rule that you wish to edit at the *Select item(s)* prompt.
7. The content of each of the rule's fields will be displayed. You can either change the contents of the field, or press Return to advance to the next field. Press ^ to exit.

   ☞ **NOTE: You can also add or release an existing auto-DC rule from the detailed display screen.**

Viewing Details of an Auto-DC Rule

To view details of an auto-DC rule, follow these steps:

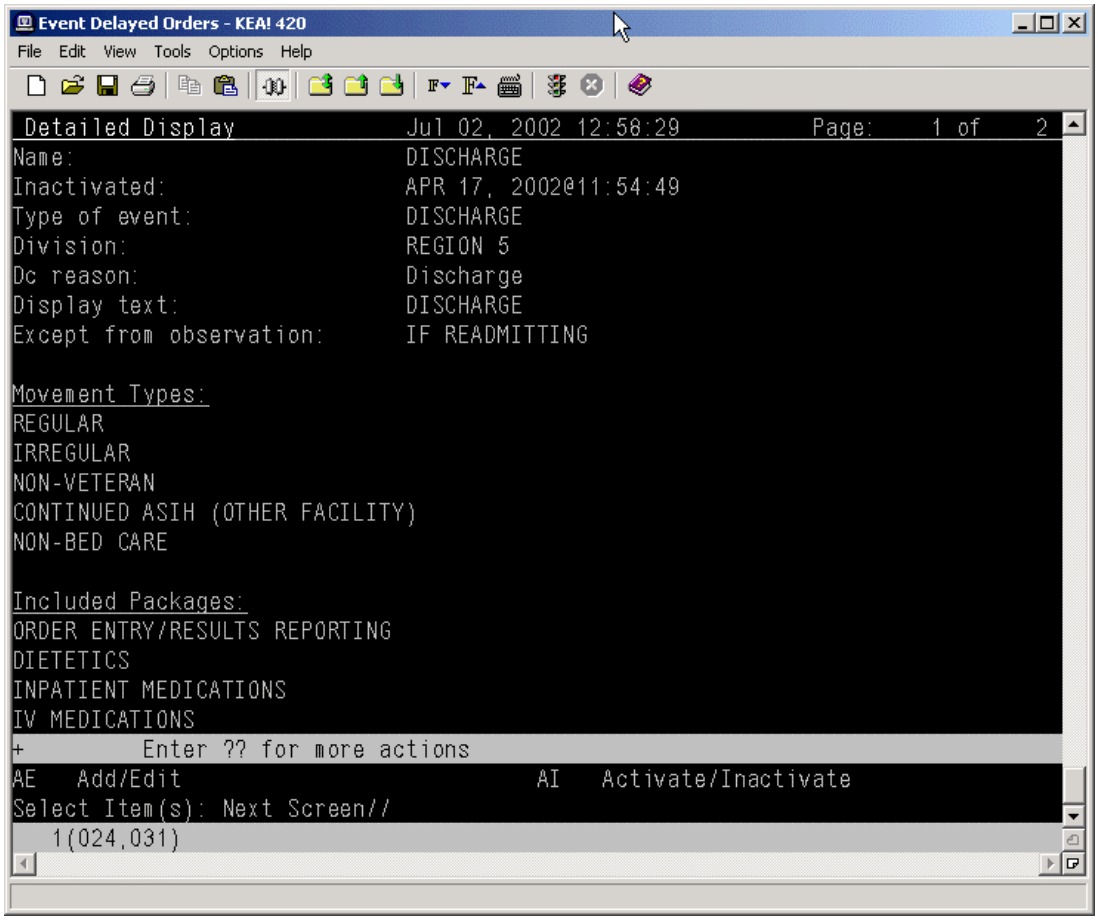
1. From the CPRS Configuration (Clin Coord) menu, select the Event Delayed Orders Menu by typing **DO**

   The following menu will appear:

```
DO    Delayed Orders/Auto-DC Set-up
EP    Parameters for event delayed orders
```

```
IN    Inquire to OE/RR Patient Event File
```

2. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
3. Select Auto-DC Rules by typing **1**.
   A numbered list of the current auto-DC rules will appear.
4. Choose Detailed Display by typing **DD**.
5. Enter the number of the rule you wish to view at the *Select item(s)* prompt.
   A detailed display of the event or rule will appear.



The detailed display screen

Audit and Activation History

The audit and activation histories on the detailed display can be toggled on or off depending on your preferences.

To toggle the audit and activation histories on or off, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
```

```
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

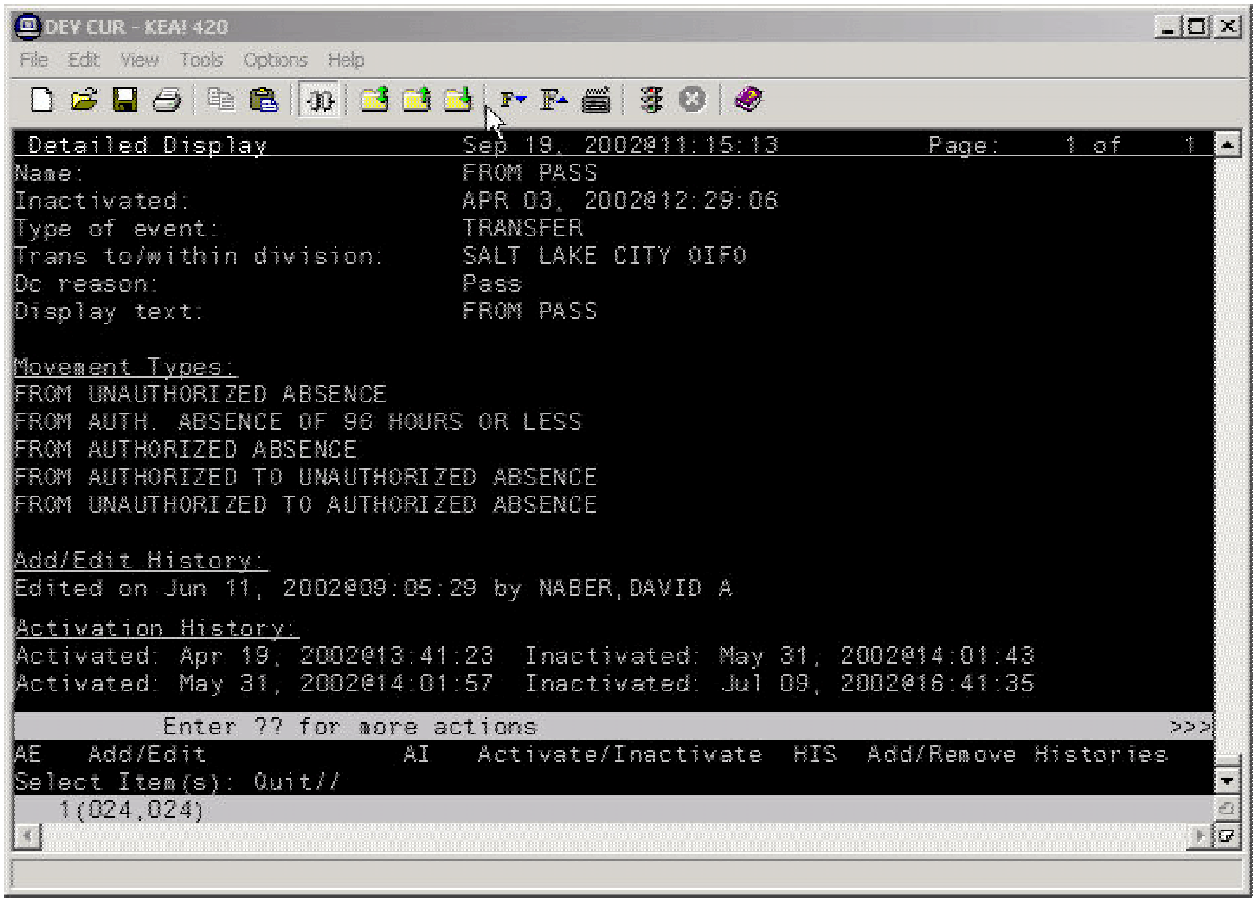
```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
   The following menu will appear:

```
Select one of the following:

1. Auto-DC Rules
2. Release Events
Enter response:
```

4. Type **1** to select Auto-DC Rules or **2** to select Release Events.
5. Type **DD** to select Detailed Display.
6. At the *Select item(s)* prompt, type the number of the release event or auto-DC rule that you would like to display.

   A detailed display of the release event or auto-DC rule will appear.
7. Type **H** to select Add/Remove Histories
8. At the *Do you want to include them on the detailed display?* prompt, type **Y** to include the audit and activation histories on the detailed display. Type **N** if you do not wish to display the audit and activation histories.



The audit and activation history can be toggled on or off on the detailed display screen.

Changing the Display

The change display function allows you to adjust the size of the Delayed Orders / Auto-DC Set-up editor and configure the display to show active entries, inactive entries, or all entries.

To change the size or content of the display, follow these steps:

1. Open the CPRS Configuration (Clin Coord) menu [OR PARAM COORDINATOR MENU].

```
AL Allocate OE/RR Security Keys [ORCL KEY ALLOCATION]
KK Check for Multiple Keys [ORE KEY CHECK]
DC Edit DC Reasons [ORCL ORDER REASON]
GP GUI Parameters ... [ORW PARAM GUI]
GA GUI Access - Tabs, RPL [ORCL CPRS ACCESS]
MI Miscellaneous Parameters [OR PARAM ORDER MISC]
NO Notification Mgmt Menu ... [ORB NOT COORD MENU]
OC Order Checking Mgmt Menu ... [ORK ORDER CHK MGMT MENU]
MM Order Menu Management ... [ORCM MGMT]
LI Patient List Mgmt Menu ... [ORLP PATIENT LIST MGMT]
FP Print Formats [ORCL PRINT FORMAT]
PR Print/Report Parameters ... [OR PARAM PRINTS]
RE Release/Cancel Delayed Orders [ORC DELAYED ORDERS]
US Unsigned orders search [OR UNSIGNED ORDERS]
```

```
EX Set Unsigned Orders View on Exit [OR PARAM UNSIGNED ORDERS VIEW]
NA Search orders by Nature or Status [OR NATURE/STATUS ORDER SEARCH]
DO Event Delayed Orders Menu ... [OR DELAYED ORDERS]
PM Performance Monitor Report [OR PERFORMANCE MONITOR]
```

2. Select the Event Delayed Orders Menu by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

3. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
   The following menu will appear:

```
DO Delayed Orders/Auto-DC Set-up [OR DELAYED ORDERS EDITOR]
EP Parameters for event delayed orders [OR EVENT PARAMETERS]
IN Inquire to OE/RR Patient Event File [OR PATINET EVENT INQUIRY]
```

4. Select Delayed Orders/Auto-DC Set-up by typing **DO**.
5. Select either Auto-DC Rules or Release Events by typing either **1** or **2**.
6. Select Change display by typing **CD**.
7. Type **Y** or **N** at the *Do you want to truncate/expand this display?* prompt.
8. Type **Y** or **N** at the *Terminal emulator in 80-column mode?* prompt.
9. At the *Select which entries should appear on the list* prompt, type one of the following numbers:
   - **1** - for active entries only
   - **2** - for inactive entries only
   - **3** - for all entries

   The orders that you specified will be displayed.

Files Associated with Auto-DC Rules

OE/RR AUTO-DC RULES (#100.6)

This file contains the locally-defined rules that control if and when active orders are automatically discontinued within each division. It is strongly recommended that CACs use the event-delayed orders menu [OR DELAYED ORDERS] to edit this file rather than using File Manager.

Fields in OE/RR AUTO-DC RULES (#100.6)

Field Number	Field Name	Description
.01	NAME	This is the name of the auto-DC rule. It is visible in the Rule Editor only.
.1	INACTIVATED	This rule will no longer apply after the date listed in this field.
1.5	ACTIVATION HISTORY	
100.61,.01	ACTIVATION DATE/TIME	The date/time that this event was activated.
100.61,1	INACTIVATION DATE/TIME	This date/time that this event was inactivated.
.2	TYPE OF EVENT	This is the event that should cause orders to be automatically discontinued. For OR events, the orders will be discontinued when the TIME PAT OUT OF OR field is entered in the Surgery package.
.3	DIVISION	This is the division that this auto-dc rule should be applied to. For a transfer across divisions, this field should contain the division that the patient is going to.
.4	DC REASON	This field contains the reason the order was automatically discontinued.
.5	DISPLAY TEXT	This field contains the name of the rule as it will appear to CPRS users.
.6	EXCEPT FROM OBSERVATION	This field indicates if an observation treating specialty should prevent this rule from being applied when the patient is discharged from the observation treating specialty. • If the field is set to **YES** then any discharge from an observation treating specialty will **not** auto-dc orders • If the field is set to **NO** then any discharge from an observation treating specialty will auto-dc orders • If this field is set to **if readmitting** then the person entering the discharge movement will be asked whether or not the patient will be readmitted immediately following this discharge (if the CPRS protocol is the no-task one). The appropriate action will be taken based on his or her answer.
.30	MAS MOVEMENT TYPES	When the MAS movement types defined in this field occur, this rule will be processed (if it is active).
100.63, .01	MAS MOVEMENT TYPE	The MAS Movement Type field further defines the trigger event for this rule. This allows for different rules

		for various types of MAS events. For example, to define a rule for canceling orders when a patient dies, enter the movement types DEATH and DEATH WITH AUTOPSY. A MAS movement type may only be used in one active rule.
40	EXCLUDED TREATING SPECIALTIES	These are treating specialties that will cause this rule to not be processed if the EXCEPT FROM and TO specialties match the patient's transfer.
100.64, .01	EXCEPT FROM SPECIALTY	This is a treating specialty that will prevent this rule from being applied. Specialty transfer rules will discontinue active orders unless the patient is being transferred from this specialty to one listed in the TO SPECIALTY multiple.
100.64,1	TO SPECIALTY	These are treating specialties that will cause this rule to not be processed, if the EXCEPT FROM and TO specialties match the patient's transfer.
100.641, .01	TO SPECIALTY	This is a treating specialty that will prevent this rule from being applied; specialty transfer rules will discontinue active orders unless the patient is being transferred to this specialty from the EXCEPT FROM SPECIALTY.
50	INCLUDED LOCATIONS	
100.62,.01	INCLUDED LOCATIONS ID	Enter an ID (free text) that will represent an entry in the FROM - TO location matrix. The value of the ID field is insignificant as it simply represents a placeholder. You can use any naming or numbering convention that you want. Orders will not auto-dc for location (ward) type transfers unless the transfer from and transfer to locations are identified within the INCLUDED LOCATIONS from - to entries. If the transfer from and to locations are found in this multiple then orders will auto-dc.
100.62,2	FROM LOCATION	If you did not select **YES** for the FROM ALL LOCATIONS field then you must select an individual field for the patient to be coming from.
100.62,3	TO ALL LOCATIONS	If this field is set to yes, it identifies all locations as possible “to” locations for the from-to pair.
100.62,4	TO LOCATION	If you did not select **YES** for the *TO ALL LOCATIONS* field then you must select an individual field for the patient to be going to.
60	INCLUDED	If the division the patient was transferred from matches

	DIVISIONS	a value in this field, and the division has changed, the rule will be processed.
100.66, 01	FROM DIVISION	This is a division that will cause this rule to be applied. If a specialty change did not occur with the transfer, and the division has changed, then the patient must be moving from the division specified in this field in order for active orders to be discontinued.
70	INCLUDED PACKAGES	Orders associated with the packages specified in this field will be automatically discontinued when this rule is processed.
100.67,.01	TYPE OF ORDERS TO DC	This is a package whose active orders are to be automatically discontinued when the conditions of this rule are satisfied.
80	EXCLUDED ORDERABLE ITEMS	These are the orderable items that will **not** be automatically discontinued when this rule is processed.
100.68,.01	EXCEPT FOR ORDERABLE ITEM	The orderable items specified in this field are the orderable items that will **not** be automatically discontinued when this rule is processed
81	EDIT HISTORY	
100.681,.01	EDIT HISTORY	This field tracks the entering and editing of rules.
100.681,1	WHO ENTERED/EDITED	Name of person who added or edited this rule
100.681,2	ACTION	This field contains what action was taken on the rule
100	EXCLUDED DISPLAY GROUP	Any order related to the display group entered in the EXCLUDED DISPLAY GROUP multiple will be exempt from any auto-discontinuing normally triggered by this rule. You can use the excluded display group to protect a group of orders from being auto-discontinued. If an order belonging to this display group is found while processing this rule, it will be skipped and will not be auto-discontinued.
100.65,.01	EXCEPT ORDERS IN DISPLAY GROUP	Orders related to this display group will not be auto-discontinued

OE/RR PATIENT EVENTS (#100.2)

This file is used by CPRS to track what happened to a patient's orders as a result of an event, such as an MAS movement or returning from the OR.

Fields in OE/RR PATIENT EVENTS FILE (#100.2)

Field Number	Field Name	Description
.01	Patient	This is a pointer to the patient file
.1	Activity	This multiple contains a log of actions taken on this event that are relevant to the release or discontinuance of orders.
100.25.01	Date/Time of Activity	This is the actual date and time that activity occurred.
100.25.2	Type of Event Activity	This field is a code indicating the type of activity that occurred. This may be new, edited, re-entered, manually released, deleted, or cancelled An event may also be "lapsed" if it stays unprocessed beyond the time frame defined by the "Lapse in #Days" field of the OE/RR RELEASE EVENTS file #100.5 for this event.
100.25.3	User	This field is the user who entered or modified the activity.
100.25.4	Event Type	This field is the type of event that was processed. This could be an admission, discharge, transfer, out of O.R., or specialty change event.
100.25.5	MAS Movement Type	This field is the MAS Movement Type of the activity that was processed, if it was a MAS patient movement.
100.25.6	Treating Specialty	This field is the treating specialty associated with this activity, if it is a MAS patient movement.
100.25.7	Ward Location	This field is the ward location associated with this activity, if it is a MAS patient movement.
.2	Event	This field is a pointer to the OE/RR RELEASE EVENTS file, which defines the conditions under which delayed orders are to be released for this patient event, if delayed orders are related to this event.
.3	Admission	This field is a pointer to the Admission movement for which this event is valid. If the patient is an inpatient when delayed orders are written, this field will be the current admission. Otherwise, the admission movement will be recorded when the patient is admitted and the orders are released. If the patient is discharged without this event occurring, it will be retired and any orders still delayed will be lapsed.
.4	Order	This field is a pointer to the doctor's order requesting that this event occur for this patient when delayed orders are written.
.5	Created On	This field is the timestamp of when this event was entered into the file for this patient.
.6	Created By	This field is a pointer to the user who entered this event into the file for this patient.
.11	Event Date/Time	This field is the date and time that this event occurred

		for this patient; if the event is a MAS movement, this time will be the DATE/TIME from the MAS movement file.
.12	Patient Movement	This field is a pointer to the MAS Patient Movement that satisfied this event for this patient; any changes to this movement that alter the conditions of the event will be tracked in the activity log.
.13	Auto-DC Rule	This field is the Auto-DC Rule from file #100.6 that was used to automatically discontinue active orders when this event occurred. Those orders that were dc'd are listed in the Discontinued Orders multiple of this file.
.14	Surgery	This field is a pointer to the Surgery case that satisfied this event for this patient when the TIME PAT OUT OR field was entered; any changes to this field will be tracked in the Activity log.
.20	Released Orders	This multiple field contains the orders that were released based on the release event defined in the OE/RR RELEASE EVENTS file #100.5 when this event occurred.
100.26.01	Released Orders	This field is a pointer to the Orders file #100 of an order that was released as a result of the event occurring.
.30	Discontinued Orders	This multiple contains the orders that were automatically discontinued based on the rules defined in the OE/RR AUTO-DC RULES file #100.6 when this event occurred.
100.27.01	Discontinued Orders	This field is the number of the order in the Orders file #100.
100.62, 3	To all Locations	This is a hospital location that will cause this rule to be applied; if no specialty change occurs with the transfer, then the patient must be moving to this location from the FROM LOCATION for active orders to be discontinued.
100.62, 4	To Location	If you did not set the TO ALL LOCATIONS field to YES then you must specify the location the patient is moving TO that will match with the selection made for the FROM location (either all or individual). This is a hospital location that will cause this rule to be applied; if no specialty change occurs with the transfer, then the patient must be moving to this location from
60	Included Divisions	These are the divisions that will cause this rule to be processed, if the FROM division matches the patient's transfer.
100.66,.01	From Division	This is a division that will cause this rule to be applied;

		if no specialty change occurs with the transfer, then the patient must be moving from this division for active orders to be discontinued.
70	Included Packages	These are the packages whose orders are to be automatically discontinued when this rule is processed.
100.67,.01	Type of Orders to DC	This is a package whose active orders are to be automatically discontinued when the conditions of this rule are satisfied.
80	EXCLUDED ORDERABLE ITEMS	These are the orderable items that are NOT to be automatically discontinued when this rule is processed, even if an order for it belongs to a package in the INCLUDED PACKAGES multiple.
100.68, .01	EXCEPT FOR ORDERABLE ITEM	This is an orderable item that will be exempt from any automatic discontinuing of orders normally triggered by this rule; if an active order for this item is encountered while processing this rule, it will be skipped and not discontinued.
81	Edit History	
100.681,.01	Edit History	Tracks the entering and editing of rules.
100.681,1	WHO ENTERED/EDITED	Name of person who added or edited this rule
100.681,2	Action	What action was taken on the rule?
100	Excluded Display Group	
100.65, .01	Except Orders in Display Group	Any order related to the display group entered in the excluded display group multiple will be exempt from any auto-discontinuing normally triggered by this rule.

Appendix H: Frequently Asked Questions about Event-Delayed Orders and Automatically Discontinuing Orders (Auto-DC Rules)

1. **Can you disable the ability to write delayed orders?**

   Yes. If a user does not have any active release events he or she will not be able to write delayed orders.

2. **Other packages (such as the Pharmacy package) have parameters that are related to events. Which parameters take precedence CPRS parameters or package parameters?**

   The package parameters are evaluated first and take precedence. If you want CPRS parameters to take precedence, turn off package parameters.

3. **Can release events be created for non-MAS events?**

   Release events can be created for outpatient and other non-MAS events. However, because these types of events do not have a MAS trigger, you will have to release them manually

4. **Some sites have created service-display groups to sort generic text orders (for example, PCA and respiratory). Are auto-DC rules related to the service or the display group?**

   To identify orders, CPRS looks at the package (OE/RR for all generic orders regardless of display group). If you define the OE/RR package as an included package for auto-DC, all generic orders will be discontinued regardless of the display group. However, if the *excluded display group* field is populated, the generic orders that are associated with the display group will not be auto-discontinued.

5. **What happens if there is an excluded orderable item identified in the auto-DC file and the orderable item is changed in the host package?**

   The excluded orderable items field should not be used to specify pharmacy items that may change frequently. If the orderable item is changed, the exception will not have any effect.

6. **Should we remove our generic "transfer to" order dialog from the add orders menus?**

   Yes, remove it from your add orders menus. However, you can use the "transfer to" order dialog as the order dialog for your transfer release events. You may also use the new OR GXMOVE EVENT dialog which prompts for the release event rather than the treating specialty.

7. **Our Chief of Surgery does not feel that "Admit to Intensive Care Surgical" is an appropriate name for a release event. She would prefer that the release event be named "Admit to Vascular Surgery Intensive Care" What do you suggest?**

   You can create an "Admit to Intensive Care Surgical" release event and an "Admit to Vascular Surgery Intensive Care" child release event (or vice versa). Both of these release events would be tied to the same trigger event. When the trigger event occurred, orders tied to either of these release events would be released

8. **Treating specialty choices are controlled by MAS. Which parameters should I look at or change to add a treating specialty?**

   Facility treating specialties are usually edited by the HIMS staff. Please consult with your site staff.

9. **A patient is transferred from a ward to O.R. to PACU to a ward. The patient is still on ward location when orders are written (e.g., patient is not transferred in the computer). How do we write orders to start in PACU?**

   Create a release event called OR to PACU (of type "Surgery"). Set up a print location for each OR room and define the printer in PACU. When the OR nurse enters time out of OR, the post-op orders will release and print to PACU.

   If you have other orders that need to be released when the patient goes to ward, use the manual release function.

10. **Do surgery events auto-DC in real-time? What happens if the system is down, the surgery information is entered later, and the patient has already returned to the ward?**

    Yes, surgery events auto-DC in real-time. When the system is back online, coordinate recovery efforts between surgery staff members who are backloading data and clinicians who are processing orders. If necessary, inactivate the rule while time out of OR is backloaded and then reactivate.

11. **Can you set lapse days differently for each ward or specialty?**

    Yes.

12. **Is there a field or other identifier on the Orders tab that indicates an active order was originally entered as a delayed order?**

    No; however, this information is included in the detailed order display.

13. **Can you make an auto-DC rule that does not automatically discontinue specific generic text orders (e.g., DNR orders) and remains active throughout the patient's hospitalizations?**

    Yes, define it as an excluded orderable item in the appropriate auto-DC rule. You could also create a special display group for this type of order and then add that display group to the "excluded display group" field so that orders belonging to this display group would not be auto-discontinued.

14. **Can MAS discontinue orders when a patient goes to surgery without a treating specialty or ward location change?**

    Yes. You can define an auto-DC rule for a surgery type that will discontinue orders based on the time-out of OR.

15. **What is the status of a delayed order that has lapsed**?
    The status will be “Lapsed”.

Appendix I: CPRS Parameters vs. OE/RR Parameters: File Locations

Old Location	Old Name	New Location	New Name	Edit Thru Option
200/100.11	Primary OE/RR Menu	No longer used		
200/100.12	Primary Order Menu	8989.51	OR ADD ORDERS MENU	[OR PARAM ADD MENU] Adding Primary Order Menu
		8989.51	OR ORDER REVIEW DT	No user interaction
		8989.51	OR PRINT NO ORDERS ON SUM	[OR PARAM SUMMARY REPORTS] Summary Report Parameters
		8989.51	OR SIGNED ON CHART	[OR PARAM ORDER MISC] Miscellaneous Parameters
200/100.13	Primary Order Display Format	No longer used		
200/100.14	Ward List	8989.51	ORLP DEFAULT WARD	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.15	Patient List	No longer used		
200/100.16	Select Patient From	8989.51	ORLP DEFAULT LIST SOURCE	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.17	Clinic List	8989.51	ORLP DEFAULT CLINIC MONDAY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
		8989.51	ORLP DEFAULT CLINIC TUESDAY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
		8989.51	ORLP DEFAULT CLINIC WEDNESDAY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
		8989.51	ORLP DEFAULT CLINIC THURSDAY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
		8989.51	ORLP DEFAULT CLINIC FRIDAY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
		8989.51	ORLP DEFAULT CLINIC SATURDAY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
		8989.51	ORLP DEFAULT CLINIC SUNDAY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.18	Clinic Appointment Start Date	8989.51	ORLP DEFAULT CLINIC START DATE	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.19	Clinic Appointment Stop Date	8989.51	ORLP DEFAULT CLINIC STOP DATE	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
		8989.51	ORLP DEFAULT TEAM	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.21	Summary Default	No longer used		
200/100.22	Patient List Order	8989.51	ORLP DEFAULT LIST ORDER	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.23	Default Result Reporting Menu	No longer used		
200/100.24	Primary Profile Menu	No longer used		
200/100.25	Provider List	8989.51	ORLP DEFAULT PROVIDER	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.26	Specialty List	8989.51	ORLP DEFAULT SPECIALTY	[ORLPSU DEFAULT USER MENU] Patient Selection Preference Menu
200/100.27	New Orders Default	No longer used		
79/.121	Ask Imaging Location	8989.51	RA SUBMIT PROMPT	[RA SYSDIV] Division Parameter Set-up/Division-wide Order Entry par
79/.17	Detailed Procedure Required	8989.51	RA REQUIRE DETAILED	[RA SYSDIV] Division Parameter Set-up/Exam Entry/Edit Parameters
69.9/9 Hospital Site/1	Max Days for continuous orders	8989.51	LR MAX DAY CONTINUOUS	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS
69.9/9 Hospital Site/2	Cancel on Ward transfer	No longer used		
69.9/9 Hospital Site/3	Cancel on Service transfer	69.9/150.5	CANCEL ON SPECIALTY TRANSFER	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS

Old Location	Old Name	New Location	New Name	Edit Thru Option
		69.9/150.1	DEFAULT NATURE OF ORDER	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS
		69.9/150.2	DEFAULT DC REASON	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS
		69.9/150.3	CANCEL ON ADMIT	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS
		69.9/150.4	CANCEL ON DISCHARGE	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS
69.9/9 Hospital Site/4	Ask Urgency	8989.51	LR ASK URGENCY	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS
69.9/9 Hospital Site/5	Default for Quick Orders	8989.51	LR DEFAULT TYPE QUICK	[LRXOSX1] Edit HOSPITAL SITE PARAMETERS
69.9/400	Phlebotomy Order Cut-off Time	8989.51	LR PHLEBOTOMY COLLECTION	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/500	Collect Thursday orders in	8989.51	LR COLLECT THURSDAY	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/501	Collect Fridays orders in	8989.51	LR COLLECT FRIDAY	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/506	Collect Wednesdays orders in	8989.51	LR COLLECT WEDNESDAY	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/505	Collect Tuesdays orders in	8989.51	LR COLLECT TUESDAY	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/504	Collect Mondays orders in	8989.51	LR COLLECT MONDAY	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/503	Collect Sundays orders in	8989.51	LR COLLECT SUNDY	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/502	Collect Saturdays orders in	8989.51	LR COLLECT SATURDAY	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/509	Excepted Locations	8989.51	LR EXCEPTED LOCATIONS	Fileman Edit of file 69.9 then use Lab/OERR Update option
69.9/507	Ignore Holidays	8989.51	LR IGNORE HOLIDAYS	Fileman Edit of file 69.9 then use Lab/OERR Update option
		8989.51	ORB ARCHIVE PERIOD	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB DELETE MECHANISM	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB FORWARD SUPERVISOR	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB FORWARD SURROGATES	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB ORDERABLE ITEM ORDERED	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB ORDERABLE ITEM RESULTS	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB PROCESSING FLAG	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB PROVIDER RECIPIENTS	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB URGENCY	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB SORT METHOD	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB FLAGGED ORDERS BULLETIN	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB DEFAULT RECIPIENTS	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB DEFAULT RECIPIENT DEVICES	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB STSTEM ENABLE/DISABLE	[ORB NOT COORD MENU] Notification Mgmt Menu
		8989.51	ORB LAST QUEUE DATE	No user interaction / [OR PARAM IRM MENU]

Old Location	Old Name	New Location	New Name	Edit Thru Option
		8989.51	ORBC CONVERSION	No user interaction / [OR PARAM IRM MENU]
		8989.51	ORCH CONTEXT CONSULTS	Consults Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT INPT LABS	Lab Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT INPT MEDS	Meds Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT NOTES	Notes Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT ORDERS	Orders Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT OUTPT LABS	Lab Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT OUTPT MEDS	Meds Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT PROBLEMS	Problem Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT REPORTS	Reports Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT SUMMRIES	D/C Summaries Tab - CV - Select Sort - Save
		8989.51	ORCH CONTEXT XRAYS	Imaging Tab - CV - Select Sort - Save
		8989.51	ORLPC CONVERSION	No user interaction / [OR PARAM IRM MENU]
		8989.51	ORQQLR DATE RANGE INPT	GUI Cover Sheet User Display Parameters
		8989.51	ORQQLR DATE RANGE OUTPT	GUI Cover Sheet User Display Parameters
		8989.51	ORQQRA SEARCH RANGE	
		8989.51	ORQQPX SEARCH ITEMS	GUI Cover Sheet User Display Parameters
		8989.51	ORQQAP SEARCH RANGE START	GUI Cover Sheet User Display Parameters
		8989.51	ORQQAP SEARCH RANGE STOP	GUI Cover Sheet User Display Parameters
		8989.51	ORQQVS SEARCH RANGE START	GUI Cover Sheet User Display Parameters
		8989.51	ORQQVS SEARCH RANGE STOP	GUI Cover Sheet User Display Parameters
		8989.51	ORQQCN DATE RANGE	GUI Cover Sheet User Display Parameters
		8989.51	ORK CLINICAL DANGER LEVEL	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK PROCESSING FLAG	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK DUP ORDER RANGE OI	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK SYSTEM ENABLE/DISABLE	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK CT LIMIT WT	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK CT LIMIT HT	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK MRI LIMIT WT	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK MRI LIMIT HT	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK DUP ORDER RANGE LAB	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK DUP ORDER RANGE RADIOLOGY	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu
		8989.51	ORK DEBUG ENABLE/DISABLE	[ORK ORDER CHECK MGMT MENU] Order Checking Mgmt Menu

Old Location	Old Name	New Location	New Name	Edit Thru Option
100.99/5/3	Setup Action	No longer used		
		8989.51	ORPF LAST PURGE DATE	No user interaction / [OR PARAM IRM MENU]
		8989.51	ORPF LAST ORDER PURGED	No user interaction / [OR PARAM IRM MENU]
		8989.51	ORPF ERROR DAYS	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF SHOW STATUS DESCRIPTION	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF REVIEW ON PATIENT MVMT	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF ACTIVE ORDERS CONTEXT HRS	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF DEFAULT PROVIDER	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF SHOW LAB #	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF CONFIRM PROVIDER	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF RESTRICT REQUESTOR	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF GRACE DAYS BEFORE PURGE	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF AUTO UNFLAG	[OR PARAM ORDER MISC] Miscellaneous Parameters
		8989.51	ORPF INITIALS ON SUMMARY	[OR PARAM PRINTS (HOSP)] Print Parameters for Hospital
		8989.51	ORPF SUMMARY SORT FORWARD	[OR PARAM SUMMARY REPORTS] Summary Report Parameters
		8989.51	ORPF WORK SUMMARY SORT	[OR PARAM SUMMARY REPORTS] Summary Report Parameters
		8989.51	ORPF DAILY ORDER SUMMARY DEVC	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF PRINT CHART COPY SUMMARY	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF PRINT DAILY ORDER SUMMARY	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF SETUP ACTION	Not used / marked for deletion
		8989.51	ORPF EXPAND CONTINUOUS ORDERS	[OR PARAM CHART COPY] Chart Copy Parameters
		8989.51	ORPF CHART COPY HEADER	[OR PARAM CHART COPY] Chart Copy Parameters
		8989.51	ORPF CHART COPY FORMAT	[OR PARAM CHART COPY] Chart Copy Parameters
		8989.51	ORPF CHART COPY FOOTER	[OR PARAM CHART COPY] Chart Copy Parameters
		8989.51	ORPF CHART COPY PRINT DEVICE	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF PRINT CHART COPY WHEN	[OR PARAM CHART COPY] Chart Copy Parameters
		8989.51	ORPF PROMPT FOR CHART COPY	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF CHART SUMMARY SORT	
		8989.51	ORPF SERVICE COPY HEADER	[OR PARAM SERVICE COPY] Service Copy Parameters
		8989.51	ORPF SERVICE COPY FORMAT	[OR PARAM SERVICE COPY] Service Copy Parameters
		8989.51	ORPF SERVICE COPY FOOTER	[OR PARAM SERVICE COPY] Service Copy Parameters

Old Location	Old Name	New Location	New Name	Edit Thru Option
		8989.51	ORPF SERVICE COPY DEFLT DEVICE	[OR PARAM SERVICE COPY] Service Copy Parameters
		8989.51	ORPF SERVICE COPY PRINT DEVICE	Not used / marked for deletion
		8989.51	ORPF PROMPT FOR LABELS	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF WARD LABEL FORMAT	[OR PARAM REQ/LABEL] Requisition/Label Parameters
		8989.51	ORPF LABEL PRINT DEVICE	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF LABEL SORT FIELD	
		8989.51	ORPF PROMPT FOR REQUISITIONS	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF WARD REQUISITION HEADER	[OR PARAM REQ/LABEL] Requisition/Label Parameters
		8989.51	ORPF WARD REQUISITION FORMAT	[OR PARAM REQ/LABEL] Requisition/Label Parameters
		8989.51	ORPF WARD REQUISITION FOOTER	[OR PARAM REQ/LABEL] Requisition/Label Parameters
		8989.51	ORPF REQUISITION PRINT DEVICE	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF REQUISITION SORT FIELD	
		8989.51	ORPF PROMPT FOR WORK COPY	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORPF WORK COPY HEADER	[OR PARAM WORK COPY] Work Copy Parameters
		8989.51	ORPF WORK COPY FORMAT	[OR PARAM WORK COPY] Work Copy Parameters
		8989.51	ORPF WORK COPY FOOTER	[OR PARAM WORK COPY] Work Copy Parameters
		8989.51	ORPF WORK COPY PRINT DEVICE	[OR PARAM PRINTS (LOC)] Print Parameters for Wards/Clinics
		8989.51	ORM TASKMAN QUEUE FREQUENCY	
		8989.51	ORCDLR URGENCIES	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORCD COMMON LAB MENU INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORW ADDORD INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD PTCARE RESP INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD ACTIVITY INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD PTCARE GENERAL INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD PTCARE NURSING INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD PTCARE SKIN INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD PTCARE HEMODYNAMICS INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD PTCARE TUBES INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD PTCARE OXYGEN INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use

Old Location	Old Name	New Location	New Name	Edit Thru Option
		8989.51	ORWD COMMON LAB INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD COMMON MED INPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD COMMON MED OUTPT	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD CONSULT SERVICES	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWD COMMON CLINIC	for original GUI(16 bit) will be deleted when Tuscaloosa stops use
		8989.51	ORWRP HEALTH SUMMARY TYPE LIST	GUI Health Summary Types
		8989.51	ORWT TOOLS MENU	GUI Tool Menu Items
		8989.51	ORWCH BOUNDS	No user interaction
		8989.51	ORWCH WIDTH	No user interaction
		8989.51	ORWCH COLUMNS	No user interaction
		8989.51	ORWOR CATEGORY SEQUENCE	No user interaction
		8989.51	ORWUH WHATSTHIS	Not used / marked for deletion
		8989.51	ORWDQ ANI	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ CARD	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ CSLT	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ CT	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ DISPLAY NAME	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ IV RX	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ LAB	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ MAM	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ MRI	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ NM	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ O RX	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ PROC	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ RAD	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ UD RX	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ US	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ VAS	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ XRAY	Gui quick order params/no user access/[OR PARAM IRM MENU
		8989.51	ORWDQ CATEGORY SEQUENCE	No user interaction / [OR PARAM IRM MENU]
		8989.51	ORWOR WRITE ORDERS LIST	No user interaction / [OR PARAM IRM MENU]
		8989.51	ORWOR COVER FRTRIEVAL	No user interaction / [OR PARAM IRM MENU]

Old Location	Old Name	New Location	New Name	Edit Thru Option
		8989.51	ORWOR DISABLE ORDERING	No user interaction / [OR PARAM IRM MENU]
200/125.1	PROBLEM SELECTION LIST	200/125.1	PROBLEM SELECTION LIST	[GMPL USER LIST] Preferred Problem Selection List
Namespace key:				
ORLP=	TEAM LISTS	ORPF=	FROM 100.99	
ORB*	NOTIFICATIONS	ORK*	ORDER CHECKS	
LR =	LABORATORY	RA=	IMAGING	
OR =	ORDER ENTRY	ORQQ=	GUI & LISTMANAGER	
ORM =	MESSAGING SYSTEM	ORW=	GUI	
ORCH=	LISTMANAGER TABS			

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