

# RELEASE NOTES FOR CPRS GUI V16 (OR\*3\*109)

## INSTALLATION REQUIREMENTS

The following patches must be installed before installing this patch:

- OR\*3.0\*85
- TIU\*1.0\*119

Internet Explorer 4 or later is also required. IE5 is recommended, and the note template import/export functionality requires it.

## INSTALLATION INSTRUCTIONS

This patch should be loaded during non-peak hours in order to minimize disruptions to users. Installation should take less than 5 minutes on the VistA server. To install the patch follow these steps:

1. Use the INSTALL/CHECK MESSAGE option on the PackMan menu.
2. Review your mapped set. If any of the routines listed in the ROUTINE SUMMARY section are mapped, they should be removed from the mapped set.
3. On the KIDS menu, under the INSTALLATION menu, use the following options:
  - Print Transport Global: optional
  - Compare Transport Global to Current System: optional
  - Verify Checksums in Transport Global: optional
  - Verify Checksums in Transport Global: optional
  - Backup a Transport Global: optional
4. Select the "Install Package(s)" option.
5. When prompted for INSTALL NAME enter "OR\*3.0\*109".
6. At the "Want KIDS to Rebuild Menu Trees Upon Completion of Install? Yes/" prompt, type "NO".
7. At the "Want KIDS to INHIBIT LOGONS during the install? Yes/" prompt, type "NO".
8. At the "Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES/" prompt, type "YES".
9. When you are prompted to select the options you would like to place out of order, enter the following:
  - OR OE/RR MENU CLINICIAN: CPRS Clinician Menu
  - OR OE/RR MENU NURSE: CPRS Nurse Menu
  - OR OE/RR MENU WARD CLERK: CPRS Ward Clerk Menu
  - OR CPRS GUI CHART: Patient Chart (Windows Version)

10. If routines were unmapped as part of step 2, they should be returned to the mapped set once the installation is complete.
11. Retrieve and open the file "OR\_30\_109.ZIP".
12. Move the CPRSCHART.EXE, .HLP files, .CNT files, and .PDF files to a directory that all CPRS Workstations can access.

## NEW FUNCTIONALITY

### ALLERGIES

The Look up Allergy / ADR dialog box (causative agent lookup screen) now searches and displays synonyms from the GMR ALERGIES file (120.82).

### CLINICAL PROCEDURES

Significant changes have been included to support the release of Clinical Procedures 1.0 in FY 2002. However, these changes will not become visible until other supporting patches are released and installed.

### NOTES/DISCHARGE SUMMARY/CONSULTS

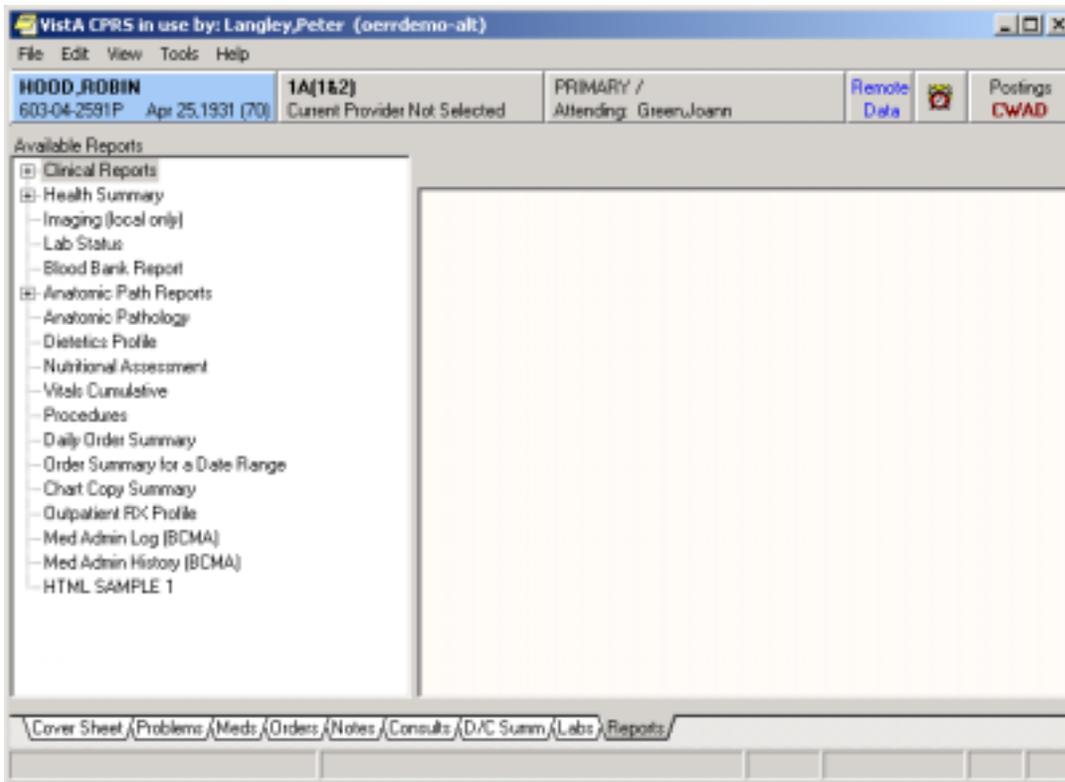
An interdisciplinary child entry may now be added to an existing parent note using the **Action | Attach to Interdisciplinary Note** menu option.

The text label above the notes tree view has been enhanced to more accurately describe the currently selected view.

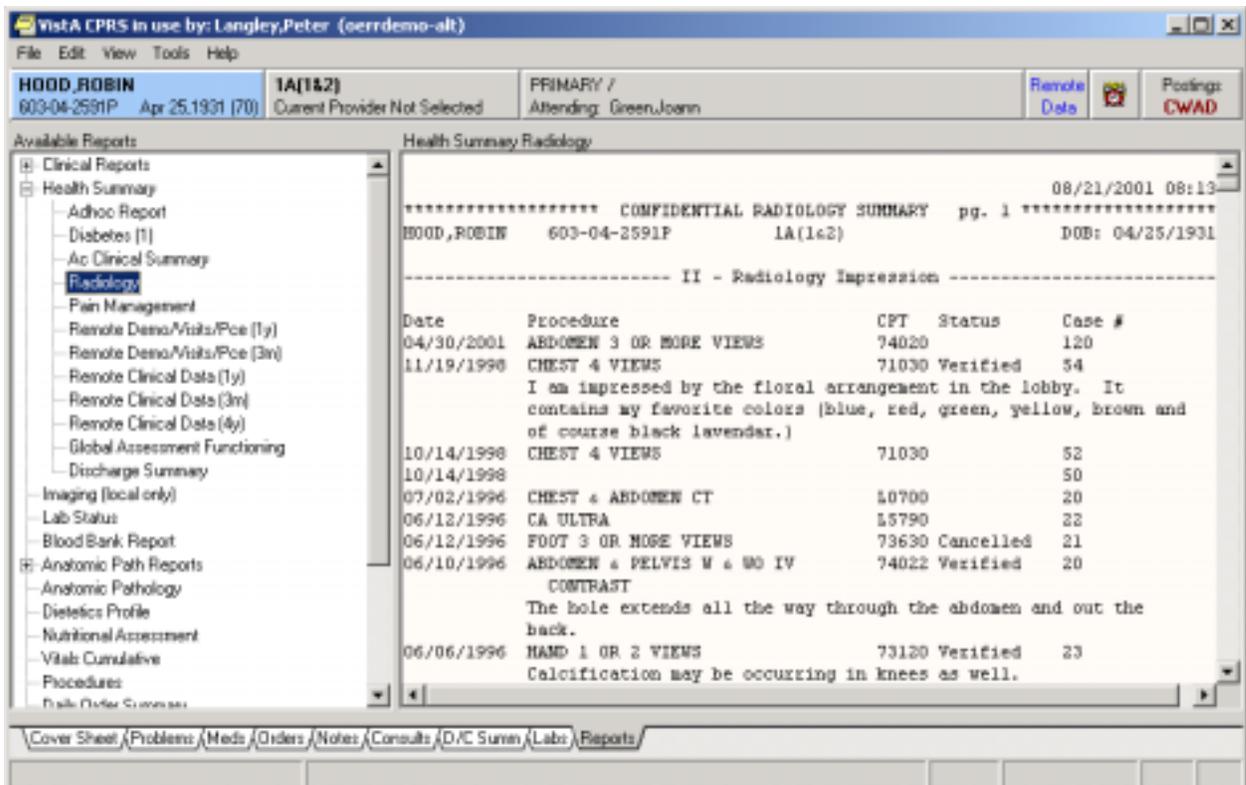
When the supporting Clinical Procedures patches (see below) are installed, medicine package results that are linked to the selected consult will be displayed in the "Related Documents" tree view.

### REPORTS TAB

**The reports listed under the Available Reports heading of the Reports tab now appear in a tree view format.** A "+" sign to the left of a report heading indicates that there are additional reports listed under the heading. Click the "+" sign to expand the heading and reveal the additional reports. **Please note that all of the reports available in CPRS version 15 are available in CPRS version 16 in the new tree view format.** The AVAILABLE REPORTS ON THE REPORTS TAB section (below) lists of all the available reports.



A "+" sign indicates that there are additional reports under a heading.



Once the Health Summary heading is expanded, a number of reports are revealed

The new report group, Clinical Reports (which includes the components from WebTop) can be added using the parameter ORWRP REPORT LIST. Also, some report segments (such as the Electron Microscopy, Surgical Pathology, Cytopathology, and the Autopsy segments of the Anatomic Pathology report) which were previously selected from the lower left panel, will now be a part of the tree view under anatomic pathology.

The clinical reports that are exported with this version are displayed in either a text format (similar to a Health Summary) or a table format. Data that appears in a table format can be sorted by clicking on the appropriate column heading. Details about a particular item can be viewed by clicking on that item. In addition, remote data is integrated into the table format. The name of the remote facility is displayed in the first column of the table. Remote views of clinical reports are only available in version 16.

## AVAILABLE REPORTS ON THE REPORTS TAB

The table below lists the reports available from the Reports tab. A “+” sign indicates that the topic is a heading that can be expanded. The letters “DOD” next to a report indicate that the report can display remote data from Department of Defense medical facilities. Please note that the location of the reports may be different depending on the configuration of your site.

- + **Clinical Reports**
  - Allergies
- + Patient Information
  - Demographics
  - Insurance
  - Disabilities
- + Visits / Admissions
  - Adm./Discharge
  - Expanded ADT
  - Discharge Diagnosis
  - Discharges
  - Future Clinic Visits
  - Past Clinic Visits
  - ICD Procedures
  - ICD Surgeries
  - Transfers
  - Treating Specialty
- + Comp & Pen Exams
- + Dietetics
  - Generic
  - Diet
  - Nutritional Status
  - Supp. Feedings
  - Tube Feeding
  - Dietetics Profile
  - Nutritional Assessment

- Discharge Summary
- + Laboratory
  - Blood Availability
  - Blood Transfusion
  - Blood Bank Report
  - Surgical Pathology - **DOD**
  - Cytology - **DOD**
  - Electron Microscopy
  - Lab Orders - **DOD**
  - Chem & Hematology - **DOD**
  - Microbiology - **DOD**
- + Medicine
  - Abnormal
  - Brief Report
  - Full Captioned
  - Full Report
  - Procedures
- + Orders
  - Orders Current
  - Daily Order Summary
  - Order Summary for a Date Range
  - Chart Copy Summary
- + Outpatient Encounters / GAF Scores
  - Education
  - Education Latest
  - Exam Latest
  - GAF Scores
  - Health Factors
  - Immunizations
  - Outpatient Diagnosis
  - Outpatient Encounter
  - Skin Tests
  - Treatment Provided
- + Pharmacy
  - Active Outpatient - **DOD**
  - All Outpatient - **DOD**
  - Outpatient RX Profile
  - Active IV
  - All IV
  - Unit Dose
  - Med Admin History (BCMA)
  - Med Admin Log (BCMA)
- + Problem List
  - Active Problems
  - All Problems
  - Inactive Problems

- + Progress Notes
  - Progress Notes
  - Advance Directive
  - Clinical Warnings
  - Crisis Notes
- + Radiology
  - Report - **DOD**
  - Status - **DOD**
  - Imaging (local only)
  - Imaging
  - Surgery Reports
  - Vital Signs
- + **Health Summary**
  - Adhoc Report
  - Diabetes
  - Ac Clinical Summary
  - Radiology
  - Pain Management
  - Remote Demo/Visits/Pce (1y)
  - Remote Demo/Vists/Pce (3m)
  - Remote Clinical Data (1y)
  - Remote Clinical Data (3m)
  - Remote Clinical Data (4y)
  - Global Assessment Functioning
  - Discharge Summary
  - Imaging (local only)
  - Lab Status
  - Blood Bank Report
- + **Anatomic Path Reports**
  - Electron Microscopy
  - Surgical Pathology
  - Cytopathology
  - Autopsy
  - Anatomic Pathology**
  - Dietetics Profile**
  - Nutritional Assessment**
  - Vitals Cumulative**
  - Procedure**
  - Daily Order Summary**
  - Order Summary for a Date Range**
  - Chart Copy Summary**
  - Outpatient RX Profile**
  - Med Admin Log (BCMA)**
  - Med Admin History (BCMA)**

## **SURGERY TAB**

Significant changes have been included to support the release of Surgery Electronic Signature for Operative Reports. However, these changes will not become visible until other supporting patches are released and installed.

## **CPRS EXTENSIONS / COM OBJECTS**

You can now link external applications to CPRS without changing the CPRS GUI source code. These applications are known as COM objects (COM is a Microsoft acronym for Component Object Model). This allows vendors and sites to create GUI tools that execute when specific events occur within CPRS. These events are: selecting a patient, accepting an order, and using a template. The specific rules for creating external applications are available in Appendix F of the *CPRS Technical Manual*.

COM objects must be installed on a workstation before they can be used. Further, details about COM objects must be entered in the OE/RR COM OBJECTS file (#101.15) before CPRS can use them.

### Linking COM Objects to Templates

In order to assign COM objects to events in CPRS, changes have been made to the template file. Users who are allowed to edit shared templates can link COM objects to templates. These templates will appear with a special icon indicating that they are linked to an external application (the icon legend has been updated accordingly). When a template linked to a COM object is used, the associated COM object will be called, and the text returned from the COM object will be scanned for template fields. If a regular template is used, text from the COM object will be inserted into the template. This functionality can be used to link commercial note writing tools to CPRS.

### Linking COM Objects to Patient Selection

In order to link COM objects to patient selection, the ORWCOM PATIENT SELECTED parameter has been added. The ORWCOM PATIENT SELECTED parameter allows entries in the OE/RR COM OBJECTS file to be defined at the system, division, service, and user levels.

### Linking COM Object to Accepting Orders

COM objects are linked to accepting orders through the ORWCOM ORDER ACCEPTED parameter. This parameter links OE/RR COM OBJECTS file entries with order display groups. The OE/RR COM Objects parameter can be defined at the system, division, service, and user levels.

## **TEMPLATES / TITLES / REASONS FOR REQUEST**

Three special template root folders, Document Titles, Consult Reasons for Request, and Procedure Reasons for Request have been added in this release. These new root folders appear at the same level as the Shared Templates root folder. These folders are only visible to users who can edit shared templates and who are also members of the user class

specified in the EDITOR CLASS field (#.07) (TIU TEMPLATE file #8927) of each of these special folders (initially set to the CLINICAL COORDINATOR user class).

Templates contained in these folders can be linked to document titles, consult reasons for request (by service), or procedure reasons for request (by procedure). This allows CPRS to automatically use a template (boilerplates, dialogs, reminder dialogs, and COM Objects) when a document title is selected or a consult or procedure order is placed (including quick orders). However, reminder dialogs that are linked to templates can only be associated with document titles that are used on the Notes or Consuls tabs.

## **NOTES/DISCHARGE SUMMARY**

In previous versions of CPRS, if the user's current "Maximum documents to display" value in the ORCH CONTEXT parameter was "0" or null, the value stored in the user's TIU PERSONAL PREFERENCES was supposed to be used instead. This was not working correctly and has been fixed.

If the user's/system's/package's current "Type of documents to display" (signed, unsigned, uncanceled, etc.) value in the ORCH CONTEXT parameter (third ";" piece) was null or zero, it was possible to experience a "Range Check" error on opening that tab. This has now been fixed.

## **ENCOUNTER FORM**

The check boxes in the encounter form will now be checked when the text of an item is clicked. Previously, you had to click on the actual check box.

## **MISCELLANEOUS**

The Print and Close buttons on the report box have been moved to the bottom of the dialog. Report boxes without a print button will now have a Close button.

## **FORCING TYPE OF VISIT SELECTION - ORWPCE DISABLE AUTO VISIT TYPE PARAMETER**

In order to clear up some confusion about the ORWPCE DISABLE AUTO VISIT TYPE parameter, please note that normally, when first entering the Visit Type tab of the encounter form, the first Type of Visit defined for that encounter location is automatically selected. For some clinics that see a wide variety of different patient types, this behavior leads to user error where the wrong type of visit is selected. The ORWPCE DISABLE AUTO VISIT TYPE parameter can be set to force the selection of a Type of Visit before allowing selection of an E&M code.

## NEW PARAMETERS

### ORWCH COLUMNS REPORTS

DISPLAY TEXT: Report Column Widths

MULTIPLE VALUED: Yes

INSTANCE TERM: Report

VALUE TERM: Column Widths

VALUE DATA TYPE: free text

VALUE HELP: Enter the widths of the columns in the control (separate by commas).

INSTANCE DATA TYPE: pointer

INSTANCE DOMAIN: 101.24

DESCRIPTION: This records the widths of each column on Reports Tab grids. The column widths are entered from left to right and delimited by commas. For example, "50,260,25,78,129".

PRECEDENCE: 1      ENTITY FILE: USER

PRECEDENCE: 5      ENTITY FILE: PACKAGE

### ORWCOM ORDER ACCEPTED

DISPLAY TEXT: COM Object on Order Acceptance

MULTIPLE VALUED: Yes

INSTANCE TERM: Order Display Group

VALUE TERM: COM Object

VALUE DATA TYPE: Pointer

VALUE DOMAIN: 101.15

VALUE HELP: COM Object to activate on order acceptance

INSTANCE DATA TYPE: Pointer

INSTANCE DOMAIN: 100.98

INSTANCE HELP: Order Display Group

DESCRIPTION: COM Objects to activate on order acceptance

PRECEDENCE: 6      ENTITY FILE: SYSTEM

PRECEDENCE: 5      ENTITY FILE: DIVISION

PRECEDENCE: 3      ENTITY FILE: SERVICE

PRECEDENCE: 1      ENTITY FILE: USER

### ORWCOM PATIENT SELECTED

DISPLAY TEXT: COM Object on Patient Selection

MULTIPLE VALUED: No

VALUE TERM: COM Object

VALUE DATA TYPE: Pointer

VALUE DOMAIN: 101.15

PRECEDENCE: 6      ENTITY FILE: SYSTEM

PRECEDENCE: 5      ENTITY FILE: DIVISION

PRECEDENCE: 3      ENTITY FILE: SERVICE

PRECEDENCE: 1      ENTITY FILE: SERVICE

ORWRP ADHOC LOOKUP

DISPLAY TEXT: Adhoc Health Summary Lookup

MULTIPLE VALUED: No

VALUE TERM: Lookup By

VALUE DATA TYPE: set of codes

VALUE DOMAIN: 0:Name;1:Abbreviation;2:Display Header

VALUE HELP: Enter the type of lookup desired

DESCRIPTION: This parameter determines the lookup used to populate the Adhoc Health Summary types in CPRS Report Tab, when an Adhoc report is requested.

PRECEDENCE: 1 ENTITY FILE: USER

PRECEDENCE: 2 ENTITY FILE: DIVISION

PRECEDENCE: 3 ENTITY FILE: SYSTEM

PRECEDENCE: 5 ENTITY FILE: PACKAGE

ORWOR SHOW SURGERY TAB

DISPLAY TEXT: Show Surgery Tab in GUI

MULTIPLE VALUED: No

VALUE TERM: SHOW SURGERY TAB

VALUE DATA TYPE: set of codes VALUE DOMAIN: 0:NO;1:YES

VALUE HELP: Should the Surgery tab be shown in the GUI? ((0=No, 1=Yes)

DESCRIPTION: Should the Surgery tab be shown in the GUI? ((0=No, 1=Yes)

PRECEDENCE: 1 ENTITY FILE: USER

PRECEDENCE: 3 ENTITY FILE: DIVISION

PRECEDENCE: 5 ENTITY FILE: SYSTEM

PRECEDENCE: 7 ENTITY FILE: PACKAGEORCH CONTEXT SURGERY

DISPLAY TEXT: Surgery Tab Context

VALUE DATA TYPE: free text

PRECEDENCE: 1 ENTITY FILE: USER

PRECEDENCE: 5 ENTITY FILE: SYSTEM

PRECEDENCE: 9 ENTITY FILE: PACKAGE

ORWRP TIME/OCC LIMITS ALL

DISPLAY TEXT: Default time/occ for all reports

MULTIPLE VALUED: No

INSTANCE TERM: ALL REPORTS

VALUE TERM: Time & Occurance limits for all

VALUE DATA TYPE: free text

VALUE HELP: Format: Start Date;End Date;Occurance limit (T-100;T;200)

VALUE VALIDATION CODE: K:\$L(Y,";")=3!(\$E(Y)="T")!(\$E(\$P(Y,";",2))="T")!(\$P(Y,";",3)) X

INSTANCE DATA TYPE: free text

INSTANCE HELP: Enter time & occurrence limit for all reports

DESCRIPTION: This parameter sets a default for all reports found on the Reports tab in CPRS. Individual values of this parameter, for each report can be set by editing the parameter ORWRP TIME/OCC LIMITS ALL.

PRECEDENCE: 1 ENTITY FILE: USER

PRECEDENCE: 6 ENTITY FILE: SYSTEM

PRECEDENCE: 9 ENTITY FILE: PACKAGE

PRECEDENCE: 4 ENTITY FILE: DIVISION

ORWRP TIME/OCC LIMITS INDV  
 DISPLAY TEXT: Report time & occurrence limits  
 MULTIPLE VALUED: Yes  
 INSTANCE TERM: Report  
 VALUE TERM: Time & Occurance Limits  
 VALUE DATA TYPE: free text  
 VALUE HELP: Format: Start date;End date;Occurance limit (T-100;T;100)  
 VALUE VALIDATION CODE: K:  
 \$L(Y,";")=3!(\$E(Y)="T")!(\$E(\$P(Y,";",2))="T")!(\$P(Y,";",3)) X  
 INSTANCE DATA TYPE: pointer  
 INSTANCE DOMAIN: 101.24  
 INSTANCE HELP: Enter report to specify time & occurrence  
 INSTANCE SCREEN CODE:  
 ISP(\$G(^ORD(101.24,+Y,0)), "^",12)="M", \$P(\$G(^ORD(101.24,+Y,0)), "^",8)="R"  
 DESCRIPTION: This parameter sets the default time and occurrence limits for reports found on the Reports tab in CPRS.  
 PRECEDENCE: 1 ENTITY FILE: USER  
 PRECEDENCE: 6 ENTITY FILE: SYSTEM  
 PRECEDENCE: 9 ENTITY FILE: PACKAGE  
 PRECEDENCE: 4 ENTITY FILE: DIVISION

## ROUTINES

The routines listed below are exported with OR\*3\*109 (GUI v16).

|          |   |
|----------|---|
| ORDV01   | OE/RR Report Extracts                               |
| ORDV02   | OE/RR Report Extracts                               |
| ORDV03   | OE/RR Report Extracts                               |
| ORDV04   | OE/RR   |
| ORDV04A  | OE/RR   |
| ORDV05   | OE/RR Report Extracts                               |
| ORDV05E  | Microbiology Extract Routine                        |
| ORDV05T  | Interim report rpc memo micro                       |
| ORDV05X  | Microbiology Extended Extracts                      |
| ORDV06   | OE/RR Report Extracts                               |
| ORDV07   | OE/RR Report extracts                               |
| ORDVU    | OE/RR Report Extracts                               |
| ORQPTQ11 | Functs which return patient lists and sources pt 1B |

|          |                                   |
|----------|-----------------------------------|
| ORQQCN1  | Functions for GUI consult actions |
| ORWCH    | GUI calls specific to CPRS Chart  |
| ORWCOM   | Wraps RPCs for COM Objects Hooks  |
| ORWDAL32 | Allergy calls to support windows  |
| ORWDXM2  | Quick Orders                      |
| ORWMC    | Medicine Calls                    |
| ORWPCE2  | wrap calls to PCE                 |
| ORWPT1   | Patient Lookup Functions          |
| ORWRA    | Imaging Calls                     |
| ORWRP    | Report Calls                      |
| ORWRP1   | Report Calls                      |
| ORWRP16  | Report Calls                      |
| ORWRP1A  | Report Calls Cont.                |
| ORWRP2   | Health Summary adhoc RPC's        |
| ORWRP3   | OE/RR Report Extract RPC's        |
| ORWRPL   | Background GUI Lab Print Driver   |
| ORWRPP   | Background Report Print Driver    |
| ORWRPP1  | Background Report Prints (cont.)  |
| ORWSR    | Surgery RPCs                      |
| ORWTIU   | Functions for GUI PARAMETER       |
| ORWTPD   | Personal Reference Tool           |
| ORY109   | Patch 109 Post/Pre                |

## RPCs

New OR RPCs included with OR\*3\*109

| RPC                   | TAG      | ROUTINE | DESCRIPTION   |
|-----------------------|----------|---------|---|
| ORWRP3 EXPAND COLUMNS | LIST     | ORWRP3  | loads and expands nested reports defined in the OE/RR Reports file (#101.24) for use on the Reports tab   |
| ORWCH SAVECOL         | SAVECOL  | ORWCH   | saves the column width sizes for reports  |
| ORWRP2 COMPABV        | COMPABV  | ORWRP2  | returns an array of the Adhoc Health Summary components (by abbreviation)   |
| ORWRP2 SAVLKUP        | SAVLKUP  | ORWRP2  | saves the last Adhoc Health Summary lookup (by user)  |
| ORWRP2 GETLKUP        | GETLKUP  | ORWRP2  | gets the last Adhoc Health Summary lookup used by a CPRS user   |
| ORWRP2 COMPDISP       | COMPDISP | ORWRP2  | returns an array of the Adhoc Health Summary components (by display name)   |
| ORWPCE ISCLINIC       | ISCLINIC | ORWPCE2 | used for secondary inpatient encounters to determine if an encounter should be an In Hospital or Daily Hospitalization Data, based on if the location is a clinic or a ward |
| ORWCOM PTOBJ          | PTOBJ    | ORWCOM  | retrieves the COM object associated with patient selection (if any)   |
| ORWCOM ORDEROBJ       | ORDEROBJ | ORWCOM  | retrieves the COM object associated with accepting a specific order (if any)  |

|                               |          |         |   |
|-------------------------------|----------|---------|---|
| ORWCOM GETOBS                 | GETOBS   | ORWCOM  | retrieves a list of all active COM objects - used for linking a template to a COM object  |
| ORWCOM DETAILS                | DETAILS  | ORWCOM  | retrieves detailed information about a specific COM object - used for invoking the COM object   |
| ORQQCN GET PROC IEN           | PROCIEN  | ORQQCN1 | given orderable item IEN, return pointer to file 123.3  |
| ORWSR CASELIST                | CASELIST | ORWSR   | returns a list of all surgery cases for a patient, without documents as returned by ORWSR LIST  |
| ORWSR GET SURG CONTEXT        | GTSURCTX | ORWSR   | get a user's current Surgery tab default view   |
| ORWSR IS NON-OR PROC          | ISNONOR  | ORWSR   | is the selected surgery case for a non-OR procedure   |
| ORWSR LIST                    | LIST     | ORWSR   | return list of surgery cases for a patient  |
| ORWSR ONECASE                 | ONECASE  | ORWSR   | given a TIU document IEN, return the surgical case record and all other documents related to the case, for display in the GUI tree view |
| ORWSR OPTOP NON-OR            | OPTOPNOR | ORWSR   | get OpTop for non-OR surgical procedure case  |
| ORWSR SAVE SURG CONTEXT       | SVSURCTX | ORWSR   | save user's current Surgery tab default view  |
| ORWSR SHOW OPTOP WHEN SIGNING | SHOWOPTP | ORWSR   | should the surgery case OpTop be displayed to the signer before signature of the attached report?                                       |

|                     |          |       |   |
|---------------------|----------|-------|---|
| ORWSR SHOW SURG TAB | SHOWSURG | ORWSR | check for presence of SR*3.0*100 (Surgery Electronic Signature) patch, and also for parameter value. If both are TRUE, surgery tab will be displayed in CPRS. |
| ORWSR OPTOP         | OPTOP    | ORWSR | get OpTop for OR surgical procedure case.   |