



**PXRM\*2\*12  
GMTS\*2.7\*89  
OR\*3.0\*295  
TIU\*1.0\*249**

## **Release Notes**

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Office of Enterprise Development  
Department of Veterans Affairs

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# Introduction

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The Clinical Reminders patch PXR\*2\*12 and bundled patches (GMTS\*2.7\*89, OR\*3\*295, TIU\*1\*249) contain modifications to improve reminder exchange tools, reminder due reports, and National Drug Class standardization. They also include changes to support pharmacy encapsulation so the reminder package will no longer have direct access to Pharmacy data. Initial changes to support standardization of reminder findings are incorporated.

The PXR\*2.0\*12 build is bundled with the following builds:

- OR\*3.0\*295 – Contains OR bug fixes and changes to an API used by reminders.
- GMTS\*2.7\*89 – Supports new Reminder Exchange functionality, new Reminders components, and an enhancement to the TIU/HS Functionality
- TIU\*1.0\*249 – Supports new Reminder Exchange functionality, changes to reminder dialogs, and improves the TIU ListManager Health Summary Object display.

## Clinical Reminders PXR\*2\*12 Documentation

Documentation	Documentation File name
Installation Guide	PXR_2_12_IG.PDF
Manager Manual	PXR_2_12_MM.PDF
Release Notes	PXR_2_12_RN.PDF

## Web Sites

Site	URL	Description
National Clinical Reminders site	<a href="http://vista.med.va.gov/reminders">http://vista.med.va.gov/reminders</a>	Contains manuals, PowerPoint presentations, and other information about Clinical Reminders
National Clinical Reminders Committee	<a href="http://vaww.portal.va.gov/sites/ncrcpublic/default.aspx">http://vaww.portal.va.gov/sites/ncrcpublic/default.aspx</a>	This new committee will direct the development of new and revised national reminders
VistA Document Library	<a href="http://www.va.gov/vdl/">http://www.va.gov/vdl/</a>	Contains manuals for Clinical Reminders and

## 1. Clinical Reminders Enhancements in PXR\*2\*12

### Drug Class Updates

Similarly to what was done for code set versioning, a new mechanism was created that will be triggered whenever a national drug class update takes place. All reminder definitions, dialogs, and terms will be searched to determine if any of them can potentially be affected by the drug class changes in the update. A MailMan message that describes what was found will be delivered to the Reminders mail group.

### New options

- Reminder Computed Finding Inquiry
- Check Reminder Dialog for invalid items
- Expand all Taxonomies
- Verify all taxonomy Expansions
- Finding Usage Report

### Reminder Component Inquiry

The formatting for the various reminder component inquiries was made as consistent as possible and a computed finding inquiry was added.

### Reminder Component Updates

The following national Clinical Reminders components are new or updated and redistributed:

Component	Name	Change
RD	VA-ALCOHOL AUDIT-C POSITIVE F/U EVAL	Added SUD; added text dialog element for local health summary object for prior AUDIT-C display; reversed order of feedback and advice; made nothing required
RD	VA-EMBEDDED FRAGMENTS RISK EVALUATION	New*
RD	VA-IRAQ & AFGHAN POST-DEPLOY SCREEN	Added a FF to the cohort logic
RD	VA-TBI SCREENING	Changed dialog to have documentation of discussion of positive screen
RL	VA-OEF/OIF EXCLUSION STOPS	Added ultrasound stop code
RM	VA-ALCOHOL AUDIT-C POSITIVE F/U EVAL	Added SUD clinic visit exclusions
RM	VA-DEPRESSION SCREEN	Updated URLs and description.
RM	VA-EMBEDDED FRAGMENTS RISK EVALUATION	New *
RM	VA-IRAQ/AFGHAN POST DEPLOYMENT SCREEN	Uses OEF/OIF in dialog and logic; updated logic, fixed active duty problem
RM	VA-MHV BMI	Removed >, added text changes from NCP
RM	VA-MHV COLORECTAL CANCER SCREEN	Added upper age limit

RM	VA-OEF/OIF MONITOR REPORTING	Removed dialog from this reporting reminder.
RM	VA-TBI SCREENING	Changes to OEF/OIF in dialog and logic, fixed active duty issue
RT	VA-ACTIVE DUTY	Updated active duty term description
RT	VA-ALCOHOL NONE PAST 1YR	Removed MH test from term VA-ALCOHOL NONE PAST 1YR
RT	VA-IRAQ/AFGHAN SERVICE	Updated to include CFs for OEF/OIF service that point to the patient file
RT	VA-MHV HIGH RISK FOR FLU	Updated to use new taxonomy
RT	VA-MHV HIGH RISK FOR PNEUMONIA	Updated to use new taxonomy
RX	VA-OEF/OIF MONITOR	New extract
TX	VA-BREAST TUMOR	Changed description to include mass, pain, abnormality
TX	VA-DEPRESSION	Updated to FY09 definition
TX	VA-DEPRESSION OUTPT	Updated to FY09 definition
TX	VA-DIABETES	Added 250.91-250.93
TX	VA-HIGH RISK FOR FLU	New
TX	VA-HIGH RISK FOR FLU/PNEUMONIA	Inactivated
TX	VA-HIGH RISK FOR PNEUMONIA	New

\* Please provide the Embedded Fragment Surveillance Center (TEFSC) with contact information for the veteran's primary healthcare provider, or enter contact information for the VA medical center staff member deemed appropriate by your VA facility. The point of contact is the person that TEFSC will contact to help arrange for follow-up activities such as biomonitoring.

## General

- The right margin for Clinical Maintenance output was increased from 70 to 72. This prevents unnecessary wrapping that was sometimes occurring.

## Reminder Computed Findings

- New option: CFI - Reminder Computed Finding Inquiry
  - This new option allows a user to display the information about a computed finding in an easy-to-read format.
- A new version of VA-BMI is included. The new version is a multi-occurrence computing finding, in contrast with the old version which was a single occurrence computed finding. It provides for more efficient date range searching and the ability to get more than one occurrence. The new multiple occurrence version of the computed finding VA-BMI was applying the date range criteria to both height and weight, in contrast to the single occurrence version which only applied it to weight. A change was made to only apply the date range criteria to the weight. The description was updated to include this information. Display of the date of the height date used in the calculation was added to the output.
- Note that the changes to VA-BMI (only applying the date range criteria to the weight) also apply to the VA-BSA computed finding, because it uses the same routine to obtain matched weight and height measurements.

- Note: Sites using the Bar Code Expansion handheld devices from Care Fusion will need to install Vitals patch GMRV\*5\*25 and the fix from Care Fusion to remove bad dates from the GMRV VITAL MEASUREMENT file before using these computed findings. Because these bad dates can cause problems with the VA-BMI and VA-BSA computed findings, GMRV\*5.0\*25 is a required build.
- The description for the VA-COMBAT VET ELIGIBILITY computed finding was incorrect and has been corrected.
- The VA-PROGRESS NOTE computed finding was changed so it can use either the TIU DOCUMENT DEFINITION title or IEN in the computed finding parameter.
- VA-DATE FOR AGE is a new computed finding that uses the COMPUTED FINDING PARAMETER to pass an age in years and returns the date the patient will be that age as the date of the computed finding.
- VA-EMPLOYEE is a new computed finding that returns true if the patient is an employee.
- VA-ADMISSIONS FOR A DATE RANGE is a list type computed finding that can be used to build a list of patients who have been admitted in the specified date range.
- VA-DISCHARGES FOR A DATE RANGE is a list type computed finding that can be used to build a list of patients who have been discharged in the specified date range.
- VA-CURRENT INPATIENTS is a list type computed finding that can be used to build a list of all current inpatients.
- CF VA-IS INPATIENT- This new computed finding will be true if the patient was/is an inpatient on the evaluation date. The following "CSUB" values will be available:
  - ADMISSION DATE/TIME (FileMan format)
  - ADMISSION TYPE
  - ATTENDING PHYSICIAN
  - DATE (FileMan format)
  - PRIMARY PROVIDER
  - TREATING SPECIALTY
  - WARD LOCATION

## Reminder Definitions and Terms

- A hint was added on how to add a second occurrence of a finding. The hint will be displayed when a double question mark is typed when editing the findings in a definition or a term.
- Because of questions about checking for valid usage of TIU Objects, additional checking was added for anyplace a TIU Object can be used in a reminder definition. If an odd number of -|| characters is found, a warning will be issued. Note: an odd number of -|| characters in the text will cause TIU Object expansion to fail.

## Reminder Dialogs

- A new option "Check Reminder Dialog for invalid items" has been added to the Dialog Report Menu. This option scans the selected reminder dialog and all of its sub-components for possible problems that could affect the use of the reminder dialog in CPRS. The user can select every dialog type except Additional Prompts and Forced Values. The dialog checker report will check for the following items.

- Disabled dialog items in the selected dialog.
- Incomplete sequences in the selected dialog.
- All sub-items in the selected dialog are pointing to a valid entry on the system.
- All finding items, additional finding items, and orderable items are pointing to a valid entry on the system.
- Result groups are pointing to a valid MH Test and an MH scale has been defined for the result group.
- An odd number of –|| characters in a dialog text field. If this is the case it would not be possible to determine which part is a TIU Object.
- Progress Note Text and the Alternate Progress Note text fields have valid TIU Objects and TIU Template Fields.

### Example of output

```
Select Dialog Reports Option: CH Check Reminder Dialog for invalid items
Select Dialog Definition:      EXCHANGE DIALOG      reminder dialog      LOCAL
      ...OK? Yes//      (Yes)

EXCHANGE DIALOG contains the following errors.
The dialog element INACTIVE OBJECT contains a reference to a TIU
Object NP TIUHS OBJECT TEST in the Dialog Text field. This TIU Object is
inactive.
```

- A new cross-reference was added to file #801.41: ^PXRMD(801.41,||RG||,X,DA(1),DA).
- A problem was found with the dialog orphan report incorrectly displaying a dialog element only used as a replacement item. Result Groups were also showing in the dialog orphan report when the result group was assigned to a parent element.
- It was possible for a user to delete a dialog element if it was only used as a replacement item. The user was also able to delete a result group even when it was being used. This has been fixed and the user should not be able to delete an element or a result group if it is assigned to another dialog element/group.
- The dialog inquiry will now display the value for the patient specific field.
- Changes were made to reminder dialog functionality to support data standardization of findings, the first of which will be Immunizations and Skin Tests:
  - The DISABLE field has been changed from a free-text field to a set of codes:
    - 0 for NO
    - 1 for DISABLE AND SEND MESSAGE
    - 2 for DISABLE AND DO NOT SEND MESSAGE
 These codes will be used when loading a reminder dialog in CPRS. If an item is marked as DISABLE AND SEND MESSAGE, a MailMan message will be sent to the Clinical Reminder mail group.

### Reminder Evaluation

- Pharmacy reengineering requires that direct reads of the various pharmacy files be replaced by APIs.
- Radiology patch RA\*5.0\*56 was released. This patch adds report status to the data returned by the radiology API Clinical Reminders uses, so the Clinical Maintenance output was changed so it now displays the report status. RA\*5.0\*56 was added as a required build.

- Finding date was added as a CSUB data for all reminder finding types.
- SYSTOLIC AND DIASTOLIC were added as CSUB data for the blood pressure finding.
- RANK\_DATE was added as a new function that can be used in a Custom Date Due.

## Reminder Exchange

- Major enhancements were made to Reminder Exchange. The main change visible to users is the ability to select individual reminder file entries for packing. Now when the Create Exchange File Entry (CFE) action is selected, the user will be presented with the following selection list:

Select from the following reminder files:

REMINDER COMPUTED FINDINGS  
 REMINDER COUNTING GROUP  
 REMINDER DEFINITION  
 REMINDER DIALOG  
 REMINDER EXTRACT COUNTING RULE  
 REMINDER EXTRACT DEFINITION  
 REMINDER LIST RULE  
 REMINDER LOCATION LIST  
 REMINDER SPONSOR  
 REMINDER TAXONOMY  
 REMINDER TERM

- Multiple items of different types can be selected for packing into a single Exchange File entry. In previous versions of Reminder Exchange, only reminder definitions could be selected; the packing included everything the definition needed to function, such as sponsor, findings, and dialog. In this new version of Reminder Exchange, this functionality has been extended. When a reminder file entry is selected from the above list, everything it needs to function will be included in the packed entry. For example, an extract definition could include reminder definitions and rule sets, which in turn have their own dependencies. Because of this, an Exchange file entry may contain components that were not expected. To help the user know what is being included as it is packing up an entry, Reminder Exchange will list every single component that is being included.
- For reminder dialogs, selection of individual dialog items is now allowed; the user is no longer limited to packing up the entire dialog.
- TIU/Health Summary Objects will be packed up if they are used in a reminder dialog that is being packed. The Health Summary Type will also be packed up if it does not contain local components and it does not contain the PROGRESS NOTES SELECTED component. A normal TIU Object will not be packed. If a TIU Object or Health Summary Type is not packed up, these items will appear in the list of components in the reminder exchange entries, but they will not be installable. Because of the packing order these items will be installed on the system after the dialog is installed on the system.
- For TIU Objects, Health Summary Objects, Health Summary Types, and/or entries from the Order Dialog file (#101.41) that are not packed up, descriptive text has been added to the reminder exchange entry summary field, describing what is in the items that were not packed up. This should help the receiving sites re-create these items as needed.

- Automated dialog error checking has been added. All dialogs that are on the list to be packed will be checked. Two levels of severity will be reported: WARNING and FATAL ERROR. Each error will give a detailed description of the problems that are found. A FATAL ERROR prevents the dialog from being packed; therefore the packing will abort. A WARNING will allow the packing to proceed.

FATAL errors mean the dialog will not work and are caused by things such as a pointer to an item that does not exist.

WARNING means the dialog will function, but possibly not as expected. For example, if the dialog contains a disabled item, a warning will be generated.

The dialog checker will also check to make sure that dialog components contain items and will generate a fatal packing error if none exist.

*See Examples in Appendix B.*

- For dialogs that are auto-generated from a reminder definition, a check was added that will disable a dialog element/group if the finding item is inactive as a result of DataStandardization.
- The formatting of the Exchange file entry installation display during a KIDS install was improved. It now shows the number, and if the text is too long to fit on one line, it will be broken into multiple lines instead of just wrapping.
- Because hospital locations are not standardized, they are not transportable. A list of hospital locations that will not be transported is included in the Exchange file entry description.

## Reminder List Rules

- There are four possible views in list rule management: finding rule, patient list rule, reminder rule, and rule set. When switching between the views, the screen position was being carried over. For example, if you were in the rule set view and line 10 was at the top of the display and you switched into the reminder rule view, it would start at line 10. If there were less than 10 reminder rules, then the display would be blank. The code was changed to save the current position for each view, so that when a particular view is selected, the display will start at the last screen position of that view.

## Reminder Reports

- A generalized finding usage report was created. The user inputs a list of findings to search for, and definitions, terms, and dialogs are searched to report where the findings are used. For findings that are from a standardized file, status and mapping information are included. A new option PXRMR FINDING USAGE REPORT was created. It was added as an item to the PXRMR REMINDER REPORTS menu.
- A new prompt called "Clinic Stops output" was added to reminder due reports. This prompt allows the user to select what type of output to display when running a reminder due report against selected clinic stops. For a detailed report, the user will have the option to display output either by Clinic Stops only (current output) or by Individual Clinics belonging to the clinic stops. For a summary report with the report totals set to either to "Individual Locations" or by Individual locations plus Totals by Facility," the user will have the same options as the detailed report and a third option of reporting the output by Clinic Stops and Individual Clinic(s).

- Another new option "Print percentages with the report output" has been added. If the user replies —Y, the following percentages will be displayed:  
 $\% \text{Applicable} = \text{Number Applicable} / \text{Total patient} * 100$   
 $\% \text{Due} = \text{Number of Due} / \text{Number Applicable} * 100$   
 $\% \text{Done} = 100 - \% \text{Due}$   
 This field has also been added to the Reminder Report template functionality.
- A new field named Creator was added to report templates. This field is automatically populated when someone creates a reminder report template. It will be used to control edit accesses to the template. In order to edit a template a user must either be the creator or hold the PXRMMANAGER security key. If the user is not the creator or does not hold the PXRMMANAGER security key, they will not see the prompt to edit the template.
- When running a reminder report against multiple patient lists, the results of the report were printed out without the patient list name. Reminder reports were changed to display the patient list name with the patient list results.

## Reminder Taxonomies

- **Two new options**
  - Verify all taxonomy Expansions (PXRMMANAGER TAXONOMY EXPANSION VERIFY)  
Option for verifying the correctness of all taxonomy expansions
  - Expand all Taxonomies (PXRMMANAGER TAXONOMY EXPANSION ALL)  
This option can be used to rebuild all taxonomy expansions (Note the user must hold the PXRMMANAGER security key to use this option.)
- As a result of problems reported with taxonomy expansion, listing of UPDATE^DIE error messages in taxonomy expansion was changed to use MES^XPDUTL so errors will be included in the Install file if taxonomy expansion is done as part of a KIDS install. Also the name and IEN of the taxonomy will be listed.
- An error in taxonomy expansion was found and corrected. For CPT codes associated with a radiology procedure the expansion assumed there could only be one radiology procedure per CPT code. This is not the case; the same CPT code can be used with multiple radiology procedures. The expansion was changed to allow for multiple procedures per CPT code.

## 2. Bug fixes in PXRMMANAGER\*2\*12

### Remedy tickets addressed:

- 231908 - PXRMMANAGER\*2\*6 question
- 239704 - Display Inconsistent for VA-IRAQ&AFGHANISTAN POST DEPLOYMENT
- 239705- Documentation Conflict
- 240564 - Incorrect headers appearing in reports... pulling from incorrect field info from PCMM Associated Clinics
- 254537 - EDUC TOPIC with LINKED SUBTOPICS fails to take MAIN ed topic with IMPORT
- 270130 - TYPO in health factor name (Nat'l GEC IADL section)
- 287087 - TBI - OEF/OIF Reminders not resolving
- 288411 - OEF/OIF and TBI reminder not satisfying
- 291337 - OEF/OIF Report erroring
- 294762 - TBI won't turn off when NO IRAQ/AFGHAN svc entered
- 310801 - TBI Dialog slow.

312303 - BMI CF is not evaluating correctly when date range is entered and another BMI is calculated outside the Date Range  
319821- Pt is "due" on OEF/OIF report but reminder does not show due for providers on cover sheet.  
324324 - Branching logic problem in Iraq Reminder  
335776 - When running a reminder report against multiple patient lists, the results of the report are printed out without the patient list name

- If Installation History was selected for an entry that had never been installed and then Installation Details was selected, it generated an undefined error. This was fixed and now the user will see a —no dates to select message.
- The main Reminder Exchange display was truncating seconds on date packed, so the right margin of the list template was increased from 80 to 84.
- There was a bug in Reminder Exchange where occasionally the checksum of a packed component did not match the checksum of the file entry, even though the packed component came from that exact file entry. This was corrected.
- If a Location List had a value in the field CREDIT STOPS TO EXCLUDE (LIST), the Location List referenced by this field was not automatically being packed-up. The packing routine was changed so it will be automatically be included.
- Under certain conditions deletion of a Clinic Stop from a Location List was generating an extraneous node. The cross-references on CLINIC STOP and CREDIT STOP TO EXCLUDE were modified to eliminate this problem. Code was added to the post-init to clean up any bad nodes that may already exist.
- The misspelling —overwitell was corrected to —overwritel.
- A prompt in the patient demographic report was incorrect:

Select from the following inpatient items:

1 - WARD LOCATION  
2 - ROOM-BED  
3 - ADMISSION DATE/TIME  
4 - ATTENDING PHYSICIAN  
Enter your selection(s): (1-5):

It was corrected to the following:

Select from the following inpatient items:

1 - WARD LOCATION  
2 - ROOM-BED  
3 - ADMISSION DATE/TIME  
4 - ATTENDING PHYSICIAN  
Enter your selection(s): (1-4):

- It was reported with PXRMM\*2\*6 that when running a detailed PCMM Provider report, the output was no longer reporting by provider, but by associated clinic. This has been changed to report by Provider instead of reporting by associated clinic.
- A problem was found when running a reminder summary report against multiple locations and multiple facilities. If the report was set to report the output by each facility and if there was a location with the same name as each facility and the patient was seen at the different location, the patient would not be included in the count for the location after the first location was counted.

- The display of the final frequency and age range in reminder test was modified to include what set the final frequency. It could be either from the baseline or a finding. Example:  
`^TMP(PXRMID,$J,660004,"zFREQARNG")=0Y^^^Finding 1`
- When routine PXRMETCO was distributed in patch PXR\*2\*6, it mistakenly had patch 4 on the second line; this was corrected.
- The second line of PXRMEMLM was erroneously marked with patch 4 when it was released in patch 6. The 4 has been removed.
- Remedy Ticket 247577 highlighted some confusion with the meaning of a phrase in the code set expansion message. The phrase:  
 The following are **new CPT codes** in the expansion for this taxonomy:  
 was changed to:  
 The following **CPT codes** were not in the previous expansion for this taxonomy:
- There was a typo in the name of a GEC health factor GEC RECENT CHANGE IN IADL RX-NO. It was changed to GEC RECENT CHANGE IN IADL FX-NO. Remedy ticket #HD000000270130.
- The variable pointer setup for reminder definitions and reminder terms incorrectly used the name EDUCATION TOPIC; it was changed to the correct name EDUCATION TOPICS.
- For a number of years there have been reports that the output from Reminder Due Reports occasionally didn't show up. This problem was not reproducible and a number of things were done to try to find the cause. It appears that a possible cause might be that some sites have created aggressive cleanup routines to delete tasks that are not scheduled. This discovery led to a restructuring of reminder due reports. Previously, two tasks were created: the first assembled the data and the second produced the output. In order to not tie up the output device while the data was being assembled, the print job was not scheduled to run until the assembly job finished. In the new structure, the assembly and print job are combined, but the output device is not opened until the output is ready to print.
- A problem with incorrect date ordering for multiple occurrences of a location list finding was corrected.
- In the patient demographics report when only the phone number was selected and the patient had a confidential address in effect, the following error occurred: \$ZE=  
`<UNDEFINED>GETPDATA+53^PXRMPDR *DDATA("ADD",22,"LEN")`. The problem was corrected.
- A hard error was generated in reminder term inquiry if a health factor finding did not have a category. A change was made so that instead of the hard error, the category will be listed as UNDEFINED. The print template was updated so there is a space after —No.||
- A problem was reported where if an active dialog element/group branched to a disabled dialog element, the original active dialog element/group was still showing in CPRS. To fix this, a national element named VA-DISABLE BRANCHING LOGIC REPLACEMENT ELEMENT will be distributed with patch 12. This element will be used as the replacement element if the branched-to element/group is marked disabled. This new element will display the following text in CPRS:  
 "You have branched to a disabled element/group. Please contact the reminder manager to fix this dialog."

### 3. GMTS\*2.7\*89 Description

- This patch contains an enhancement to Health Summary Objects. Sites will now be able to overwrite the "No Data Available" message in the TIU/HS Object if the Health Summary Type does not return any data. This was done by adding a new field, OVERWRITE NO DATA, to the Health Summary Object file, file 142.5.
  - To override the no data available message, the SUPPRESS COMPONENTS WITHOUT DATA field must be set to "YES" and text must be defined in the OVERWRITE NO DATA AVAILABLE field. This text will replace the default message.
  - A new API (EN^GMTSDESC) has been created to display the definition of a Health Summary Type, Health Summary Object, and a Health Summary Component in a readable output. This API was created to support Clinical Reminders in posting a description of a Health Summary Type and Health Summary Objects when packing up a reminder dialog that contains a TIU/HS Object.
  - Two new national Health Summary Components are being released with this patch:
    - Clinical Reminders Findings
    - Clinical Reminders Last Done

The Clinical Reminders Findings component works like the Clinical Maintenance components. However, it only lists the name of the reminder and the findings evaluation for the reminder. It does not display the status line and it does not list the frequency line.

Clinical Reminders Last Done components display the reminder name and the last done date if the last done date is defined. If the last done date is unknown, the last done date will be blank.

Neither of these components will list the header line  
---STATUS-- --DUE DATE    LAST DONE---

- Remedy ticket #332249  
It was reported that a Health Summary Object or a Health Summary Type could not be modified if the user was not the owner and was trying to edit these files in the TIU/HS Object editor. Resolution: The TIU/HS Object editor was changed so that a user who holds the GMTSMGR security key can edit a Health Summary Object or a Health Summary Type, regardless of the owner.

### 4. OR\*3\*295 Description

- This patch fixes a problem with encounter data not being deleted when the user deletes an unsigned note. This problem was caused when the user wrote a note and entered encounter data for this note. If the user did not sign the note, then worked on other patient records in CPRS, and then went back to the patient with the unsigned note and deleted the note, the note would be deleted from the system. However, the encounter data would still show in PCE.
- Remedy 276466: Custom Order View Not Working as Expected. After installation of CPRS 27, one site reported that the Custom Order View "Unverified by Clerk-All Services" was not working properly. The Outpatient Med Orders were not showing up even though they were within the specified date range. This patch fixes this issue so that the Outpatient Med Orders will show up properly.

## 5. TIU\*1\*249 Description

- Several new APIs have been created to display the definition of TIU Object and TIU Template fields. These APIs will be used by the Clinical Reminder Exchange functionality.
- A change was made to the TIU/HS List Manager Interface to display a Health Summary Object field OVERWRITE NO DATA MESSAGE. See the GMTS\*2.7\*89 patch description for more information on this field.
- The parameter TIU TEMPLATE REMINDER DIALOGS was updated to work with the changes made to Reminder Dialogs in patch PXR\*2\*12.
- Remedy ticket #332249

It was reported that a Health Summary Object or a Health Summary Type could not be modified if the user was not the owner and was trying to edit these files in the TIU/HS Object editor.

Resolution: The TIU/HS Object editor was changed so that a user who holds the GMTSMGR security key can edit a Health Summary Object or a Health Summary Type, regardless of the owner.

## **Appendix A: Example of Drug Class Update Messages**

Since the reminders package can use drug classes in reminder definitions and terms, a change to a national drug class could impact the accuracy of reminder evaluation and potentially patient care. The Clinical Reminder Manager needs to be informed of potential impacts on existing reminders files that use drug classes whenever changes to drug classes are made. The National Drug File package has a new mechanism, similar to what was done for code set versioning, to update national drug classes. As part of this, the National Drug file package has created a protocol event point that will be triggered whenever a national drug class update takes place. The Reminders package has built a new protocol, which is distributed in PXR\*2\*12, that will be attached to the National Drug file drug class update protocol event. Therefore, whenever a drug class update is made, Clinical Reminders will search for all definitions and terms that use the affected drug classes and send a MailMan message listing them to the Reminders mail group.

Setup before testing: In order to receive the Mailman message, the user must be a member of the Clinical Reminders Mail Group established in the Clinical Reminders parameters.

Example of the Pharmacy Package and Reminders Package Mailman messages triggered:

```
Subj: Products with changed classes [#5726] 03/19/09@13:45 4 lines
From: NDF MANAGER In 'IN' basket. Page 1 *New*
```

```
-----
Product: LEVALBUTEROL 45MCG/SPRAY INHL,ORAL,15GM
Old Class: GA900
New Class: RE102
```

```
Subj: Clinical Reminder Drug Class Update from National Drug File [#5727]
03/19/09@13:45 27 lines
```

```
From: POSTMASTER In 'IN' basket. Page 1 *New*
```

```
-----
NDF Drug Class update
```

```
Review each of the entries to determine if you need to:
* Add the new drug class to the reminder definition/term
* Change the finding to use the new drug class instead
* In some cases, no change will be clinically necessary
```

```
-----
VA PRODUCT: LEVALBUTEROL 45MCG/SPRAY INHL,ORAL,15GM (IEN=121)
Has moved from drug class GA900, GASTRIC MEDICATIONS,OTHER, (IEN=121)
to drug class RE102, BRONCHODILATORS,SYMPATHOMIMETIC,INHALATION, (IEN=187)
```

```
VA GENERIC LEVALBUTEROL (IEN=3567) is represented by its
original drug class GA900, GASTRIC MEDICATIONS,OTHER
```

```
in the following reminder definitions:
```

```
None
```

```
and the following reminder terms:
```

```
None
```

```
VA GENERIC LEVALBUTEROL is used directly
```

```
in the following reminder definitions:
```

```
None
```

```
and the following reminder terms:
```

## **Appendix B: Example of Dialog Exchange Errors**

As described earlier in the Release Notes, automated dialog error checking has been added as part of Reminder Exchange. All dialogs that are on the list to be packed will be checked. Two levels of severity will be reported: WARNING and FATAL ERROR. Each error will give a detailed description of the problems that are found. A FATAL ERROR prevents the dialog from being packed; therefore the packing will abort. A WARNING will allow the packing to proceed.

FATAL errors mean the dialog will not work; they are caused by things such as a pointer to an item that does not exist.

WARNING means the dialog will function, but possibly not as expected. For example, if the dialog contains a disabled item, a warning will be generated.

### **Example 1**

In this example a single reminder dialog is selected for packing. This dialog contains branching logic with the VA-REMINDER DEFINITION computed finding and it includes a TIU/HS OBJECT with the Clinical Reminder Due Health Summary Component.

```
Select from the following reminder files:
 1 REMINDER COMPUTED FINDINGS
 2 REMINDER COUNTING GROUP
 3 REMINDER DEFINITION
 4 REMINDER DIALOG
 5 REMINDER EXTRACT COUNTING RULE
 6 REMINDER EXTRACT DEFINITION
 7 REMINDER LIST RULE
 8 REMINDER LOCATION LIST
 9 REMINDER SPONSOR
10 REMINDER TAXONOMY
11 REMINDER TERM
Select a file: (1-11): 4
Select REMINDER DIALOG NAME: EXCHANGE1 DIALOG      reminder dialog      LOCAL
      ...OK? Yes//      (Yes)
Enter another one or just press enter to go back to file selection.
Select REMINDER DIALOG NAME:
Select from the following reminder files:
 1 REMINDER COMPUTED FINDINGS
 2 REMINDER COUNTING GROUP
 3 REMINDER DEFINITION
 4 REMINDER DIALOG
 5 REMINDER EXTRACT COUNTING RULE
 6 REMINDER EXTRACT DEFINITION
 7 REMINDER LIST RULE
 8 REMINDER LOCATION LIST
 9 REMINDER SPONSOR
10 REMINDER TAXONOMY
11 REMINDER TERM
Select a file: (1-11):
Packing components ...
Adding routine PXRMCDEF
Adding VA GENERIC COLESEVELAM, IEN=3662
Adding VA GENERIC CERIVASTATIN, IEN=3505
```

Adding VA GENERIC FENOFIBRATE, IEN=3489  
Adding VA GENERIC ATORVASTATIN, IEN=3382  
Adding VA GENERIC FLUVASTATIN, IEN=3184  
Adding VA GENERIC SIMVASTATIN, IEN=2708  
Adding VA GENERIC PRAVASTATIN, IEN=2689  
Adding VA GENERIC LOVASTATIN, IEN=2116  
Adding VA GENERIC CHOLESTYRAMINE, IEN=1160  
Adding VA GENERIC NIACIN, IEN=1080  
Adding VA GENERIC GEMFIBROZIL, IEN=968  
Adding VA GENERIC CLOFIBRATE, IEN=795  
Adding VA GENERIC COLESTIPOL, IEN=406  
Adding ORDER DIALOG ZZJM LIPID PROFILE, IEN=1348  
Adding GMRV VITAL TYPE BLOOD PRESSURE, IEN=1  
Adding MH TESTS AND SURVEYS AUDC, IEN=5  
Adding TIU TEMPLATE FIELD A A PAIN HX CAUSE, IEN=765  
Adding EDUCATION TOPICS VA-EXERCISE, IEN=363  
Adding EDUCATION TOPICS VA-EXERCISE SCREENING, IEN=11  
Adding EDUCATION TOPICS VA-DIABETES FOLLOW-UP, IEN=358  
Adding EDUCATION TOPICS VA-DIABETES FOOT CARE, IEN=359  
Adding EDUCATION TOPICS VA-DIABETES MEDICATIONS, IEN=357  
Adding EDUCATION TOPICS VA-DIABETES EXERCISE, IEN=356  
Adding EDUCATION TOPICS VA-DIABETES DIET, IEN=362  
Adding EDUCATION TOPICS VA-DIABETES LIFESTYLE ADAPTATIONS, IEN=361  
Adding EDUCATION TOPICS VA-DIABETES COMPLICATIONS, IEN=355  
Adding EDUCATION TOPICS VA-DIABETES DISEASE PROCESS, IEN=354  
Adding EDUCATION TOPICS VA-DIABETES, IEN=360  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE FOLLOW-UP, IEN=8  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE MEDICATIONS, IEN=7  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE EXERCISE, IEN=6  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE DIET, IEN=5  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE COMPLICATIONS, IEN=4  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE DISEASE PROCESS, IEN=3  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE LIFESTYLE ADAPTATIONS, IEN=2  
Adding EDUCATION TOPICS VA-SUBSTANCE ABUSE, IEN=1  
Adding EDUCATION TOPICS VA-NUTRITION/WEIGHT SCREENING, IEN=12  
Adding EDUCATION TOPICS VA-ADVANCE DIRECTIVES SCREENING, IEN=9  
Adding EDUCATION TOPICS VA-ADVANCE DIRECTIVES, IEN=338  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE SCREENING, IEN=10  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE FOLLOW-UP, IEN=352  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE MEDICATIONS, IEN=351  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE EXERCISE, IEN=350  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE DIET, IEN=349  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE COMPLICATIONS, IEN=348  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE DISEASE PROCESS, IEN=347  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE LIFESTYLE ADAPTATIONS, IEN=340  
Adding EDUCATION TOPICS VA-ALCOHOL ABUSE, IEN=339  
Adding EXAM FOBT(CLINIC), IEN=660001  
Adding HEALTH FACTORS ALCOHOL USE, IEN=12  
Adding HEALTH FACTORS BINGE DRINKING, IEN=19  
Adding HEALTH FACTORS PT EDUCATION NEEDS/BARRIERS, IEN=612096  
Adding HEALTH FACTORS BARRIERS LACK OF SUPPORT SYSTEM, IEN=612108  
Adding HEALTH FACTORS REMINDER FACTORS, IEN=41  
Adding HEALTH FACTORS ACTIVATE SIGMOIDOSCOPY, IEN=52  
Adding HEALTH FACTORS INACTIVATE SIGMOIDOSCOPY, IEN=51  
Adding HEALTH FACTORS ACTIVATE BREAST CANCER SCREEN, IEN=43  
Adding HEALTH FACTORS INACTIVATE BREAST CANCER SCREEN, IEN=42  
Adding HEALTH FACTORS BRADEN SCALE, IEN=612715  
Adding HEALTH FACTORS BRADEN SCALE 9 OR LOWER, IEN=612903  
Adding HEALTH FACTORS BRADEN SCALE 10-12, IEN=612902  
Adding HEALTH FACTORS BRADEN SCALE 13-14, IEN=612901  
Adding HEALTH FACTORS BRADEN SCALE 19 OR HIGHER, IEN=612716  
Adding HEALTH FACTORS BRADEN SCALE 15-18, IEN=612714  
Adding HEALTH FACTORS LIPID MED INTERVENTIONS, IEN=660077

Adding HEALTH FACTORS ORDER LIPID PROFILE, IEN=660070  
 Adding HEALTH FACTORS OUTSIDE LDL, IEN=660069  
 Adding HEALTH FACTORS OUTSIDE LDL 120-129, IEN=80  
 Adding HEALTH FACTORS UNCONFIRMED DIAGNOSIS, IEN=660084  
 Adding HEALTH FACTORS UNCONFIRMED IHD DIAGNOSIS, IEN=660085  
 Adding HEALTH FACTORS LIPID PROFILE INTERVENTIONS, IEN=660074  
 Adding HEALTH FACTORS OTHER DEFER LIPID PROFILE, IEN=83  
 Adding HEALTH FACTORS REFUSED LIPID PROFILE, IEN=85  
 Adding HEALTH FACTORS OUTSIDE LDL >129, IEN=82  
 Adding HEALTH FACTORS OUTSIDE LDL <100, IEN=81  
 Adding HEALTH FACTORS OUTSIDE LDL 100-119, IEN=79  
 Adding HEALTH FACTORS A A PAIN HX OUTSIDE, IEN=660013  
 Adding HEALTH FACTORS A A PAIN AM OUTSIDE ASSESSMENT, IEN=660017  
 Adding REMINDER SPONSOR NONE, IEN=19  
 Adding REMINDER SPONSOR Office of Quality & Performance, IEN=15  
 Adding REMINDER COMPUTED FINDINGS VA-REMINDER DEFINITION, IEN=35  
 Adding REMINDER TAXONOMY VA-COLORECTAL CANCER SCREEN, IEN=31  
 Adding REMINDER TAXONOMY VA-FOBT, IEN=27  
 Adding REMINDER TAXONOMY VA-FLEXISIGMOIDOSCOPY, IEN=15  
 Adding REMINDER TAXONOMY VA-MAMMOGRAM/SCREEN, IEN=16  
 Adding REMINDER TAXONOMY VA-ISCHEMIC HEART DISEASE, IEN=14  
 Adding REMINDER TERM EDUTEST, IEN=660006  
 Adding REMINDER TERM VA-ORDER LIPID PROFILE HEALTH FACTOR, IEN=61  
 Adding REMINDER TERM VA-LIPID LOWERING MEDS, IEN=54  
 Adding REMINDER TERM VA-OUTSIDE LDL 120-129, IEN=52  
 Adding REMINDER TERM VA-UNCONFIRMED IHD DIAGNOSIS, IEN=42  
 Adding REMINDER TERM VA-OTHER DEFER LIPID PROFILE, IEN=41  
 Adding REMINDER TERM VA-REFUSED LIPID PROFILE, IEN=40  
 Adding REMINDER TERM VA-LIPID PROFILE ORDERABLE, IEN=39  
 Adding REMINDER TERM VA-OUTSIDE LDL >129, IEN=36  
 Adding REMINDER TERM VA-OUTSIDE LDL <100, IEN=35  
 Adding REMINDER TERM VA-OUTSIDE LDL 100-119, IEN=34  
 Adding REMINDER TERM VA-LDL, IEN=32  
 Adding REMINDER TERM VA-IHD DIAGNOSIS, IEN=27  
 Adding REMINDER TERM BRANCHING LOGIC TERM, IEN=527  
 Adding REMINDER DEFINITION EDUTEST, IEN=660020  
 Adding REMINDER DEFINITION EDUTEST, IEN=223  
 Adding REMINDER DEFINITION DVF REMINDER, IEN=365  
 Adding REMINDER DEFINITION AUDC, IEN=318  
 Adding REMINDER DEFINITION VA-\*COLORECTAL CANCER SCREEN (SIG.), IEN=15  
 Adding REMINDER DEFINITION VA-\*BREAST CANCER SCREEN, IEN=4  
 Adding REMINDER DEFINITION VA-IHD LIPID PROFILE, IEN=70  
 Adding REMINDER DIALOG PXR COMMENT, IEN=1  
 Adding REMINDER DIALOG PXR REFUSED, IEN=86  
 Adding REMINDER DIALOG ED EXERCISE REFUSED, IEN=660006  
 Adding REMINDER DIALOG PXR OUTSIDE LOCATION, IEN=41  
 Adding REMINDER DIALOG PXR VISIT DATE, IEN=40  
 Adding REMINDER DIALOG ED EXERCISE DONE ELSEWHERE, IEN=660043  
 Adding REMINDER DIALOG PXR LEVEL OF UNDERSTANDING, IEN=2  
 Adding REMINDER DIALOG ED EXERCISE DONE, IEN=660005  
 Adding REMINDER DIALOG ED EXERCISE SCREENING REFUSED, IEN=660004  
 Adding REMINDER DIALOG ED EXERCISE SCREENING DONE ELSEWHERE, IEN=660042  
 Adding REMINDER DIALOG HF BARRIER TO LEARNING, IEN=660169  
 Adding REMINDER DIALOG ED EXERCISE SCREENING DONE, IEN=660003  
 Adding REMINDER DIALOG ED SUBSTANCE ABUSE REFUSED, IEN=660002  
 Adding REMINDER DIALOG ED DIABETES FOOT CARE REFUSED, IEN=660118  
 Adding REMINDER DIALOG ED DIABETES FOOT CARE DONE ELSEWHERE, IEN=660117  
 Adding REMINDER DIALOG ED DIABETES FOOT CARE DONE, IEN=660084  
 Adding REMINDER DIALOG ED NUTRITION/WEIGHT SCREENING REFUSED, IEN=660053  
 Adding REMINDER DIALOG ED NUTRITION/WEIGHT SCREENING DONE ELSEWHERE, IEN=660286  
 Adding REMINDER DIALOG ED SUBSTANCE ABUSE DONE ELSEWHERE, IEN=660041  
 Adding REMINDER DIALOG ED NUTRITION/WEIGHT SCREENING DONE, IEN=660051  
 Adding REMINDER DIALOG ED SUBSTANCE ABUSE FOLLOW-UP REFUSED, IEN=660282

Adding REMINDER DIALOG ED SUBSTANCE ABUSE FOLLOW-UP DONE ELSEWHERE, IEN=660278  
 Adding REMINDER DIALOG ED SUBSTANCE ABUSE FOLLOW-UP DONE, IEN=660205  
 Adding REMINDER DIALOG ED DIABETES REFUSED, IEN=660008  
 Adding REMINDER DIALOG ED DIABETES DONE ELSEWHERE, IEN=660044  
 Adding REMINDER DIALOG ED DIABETES DONE, IEN=660007  
 Adding REMINDER DIALOG ED SUBSTANCE ABUSE DONE, IEN=660001  
 Adding REMINDER DIALOG EXCHANGE 4, IEN=660000158  
 Adding REMINDER DIALOG MH AUDC, IEN=1509  
 Adding REMINDER DIALOG AUTO AUDC, IEN=1510  
 Adding REMINDER DIALOG INACTIVE OBJECT, IEN=1710  
 Adding REMINDER DIALOG OBJECT TEST, IEN=1516  
 Adding REMINDER DIALOG ORDER ELEMENT, IEN=1049  
 Adding REMINDER DIALOG RGP4 ELEMENT 2, IEN=1536  
 Adding REMINDER DIALOG RGP4 ELEMENT 1, IEN=1535  
 Adding REMINDER DIALOG RESULT GROUP 4, IEN=1534  
 Adding REMINDER DIALOG RGP1 ELEMENT 2, IEN=1520  
 Adding REMINDER DIALOG RGP1 ELEMENT 1, IEN=1519  
 Adding REMINDER DIALOG RESULT GROUP 1, IEN=1529  
 Adding REMINDER DIALOG GP1 ELEMENT 2, IEN=1515  
 Adding REMINDER DIALOG RGP2 ELEMENT 2, IEN=1522  
 Adding REMINDER DIALOG RESULT ELEMENT 1, IEN=1537  
 Adding REMINDER DIALOG RGP3 ELEMENT 2, IEN=1526  
 Adding REMINDER DIALOG RGP3 ELEMENT 1, IEN=1525  
 Adding REMINDER DIALOG RESULT GROUP 3, IEN=1533  
 Adding REMINDER DIALOG RGP2 ELEMENT 1, IEN=1521  
 Adding REMINDER DIALOG RESULT GROUP 2, IEN=1530  
 Adding REMINDER DIALOG VA-IHD LIPID OTHER DEFER, IEN=390  
 Adding REMINDER DIALOG VA-IHD SPACER, IEN=397  
 Adding REMINDER DIALOG VA-IHD LIPID 120-129 DONE ELSE, IEN=392  
 Adding REMINDER DIALOG VA-IHD LIPID >129 DONE ELSE, IEN=281  
 Adding REMINDER DIALOG VA-IHD LIPID 100-119 DONE ELSE, IEN=280  
 Adding REMINDER DIALOG VA-IHD LIPID <100 DONE ELSE, IEN=279  
 Adding REMINDER DIALOG VA-IHD LIPID DONE ELSEWHERE GROUP, IEN=404  
 Adding REMINDER DIALOG VA-IHD UNCONFIRMED DIAGNOSIS, IEN=276  
 Adding REMINDER DIALOG VA-IHD LIPID REFUSED, IEN=270  
 Adding REMINDER DIALOG VA-IHD DIRECT LDL ORDERED, IEN=278  
 Adding REMINDER DIALOG VA-IHD FASTING LIPID ORDERED, IEN=277  
 Adding REMINDER DIALOG VA-IHD LIPID ORDER GROUP, IEN=272  
 Adding REMINDER DIALOG VA-IHD LIPID PROFILE HEADER, IEN=209  
 Adding REMINDER DIALOG VA-IHD LIPID PROFILE, IEN=269  
 Adding REMINDER DIALOG GP1 ELEMENT 1, IEN=1514  
 Adding REMINDER DIALOG GROUP 1, IEN=1527  
 Adding REMINDER DIALOG EXCHANGE DIALOG, IEN=1709  
 Adding HEALTH SUMMARY COMPONENT PCE HEALTH FACTORS ALL, IEN=204  
 Adding HEALTH SUMMARY COMPONENT CLINICAL REMINDERS DUE, IEN=202  
 Adding HEALTH SUMMARY COMPONENT TEST, IEN=5000147  
 Adding HEALTH SUMMARY COMPONENT PCE HEALTH FACTORS SELECTED, IEN=203  
 Adding HEALTH SUMMARY TYPE NP NEW HS TYPE, IEN=223  
 Adding HEALTH SUMMARY TYPE TEST PROGRESS, IEN=208  
 Adding HEALTH SUMMARY TYPE VA-BRADEN SCALE 30D, IEN=104  
 Adding HEALTH SUMMARY OBJECTS NP TIUHS OBJECT TEST (TIU), IEN=6600090  
 Adding HEALTH SUMMARY OBJECTS LAB TEST (TIU), IEN=6600003  
 Adding HEALTH SUMMARY OBJECTS VA-BRADEN SCALE 30D (TIU), IEN=6600082  
 Adding TIU DOCUMENT DEFINITION PATIENT SEX, IEN=74  
 Adding TIU DOCUMENT DEFINITION PATIENT RACE, IEN=75  
 Adding TIU DOCUMENT DEFINITION NP TIUHS OBJECT TEST, IEN=1647  
 Adding TIU DOCUMENT DEFINITION TIU TEST, IEN=1337  
 Adding TIU DOCUMENT DEFINITION BRADEN SCALE 30D, IEN=1332

Packing is complete. Notice the above list contains an extensive set of items even though only a single reminder dialog was selected for packing. Everything in the dialog was checked for dependencies and each dependency was automatically included. In turn, each of these was checked for dependencies and so on. This recursive dependency inclusion may generate a list of items that is far larger than originally

expected, but it insures that everything required by the items selected for packing is included in the packed entry.

### Example 2

In this example a reminder dialog is selected and the dialog checking generates a warning.

```
Select from the following reminder files:
 1 REMINDER COMPUTED FINDINGS
 2 REMINDER COUNTING GROUP
 3 REMINDER DEFINITION
 4 REMINDER DIALOG
 5 REMINDER EXTRACT COUNTING RULE
 6 REMINDER EXTRACT DEFINITION
 7 REMINDER LIST RULE
 8 REMINDER LOCATION LIST
 9 REMINDER SPONSOR
10 REMINDER TAXONOMY
11 REMINDER TERM
Select a file: (1-11): 4
Select REMINDER DIALOG NAME: EXCHANGE2 DIALOG      reminder dialog      LOCAL
      ..OK? Yes//      (Yes)
Enter another one or just press enter to go back to file selection.
Select REMINDER DIALOG NAME:
Select from the following reminder files:
 1 REMINDER COMPUTED FINDINGS
 2 REMINDER COUNTING GROUP
 3 REMINDER DEFINITION
 4 REMINDER DIALOG
 5 REMINDER EXTRACT COUNTING RULE
 6 REMINDER EXTRACT DEFINITION
 7 REMINDER LIST RULE
 8 REMINDER LOCATION LIST
 9 REMINDER SPONSOR
10 REMINDER TAXONOMY
11 REMINDER TERM
Select a file: (1-11):
**WARNING**
EXCHANGE2 DIALOG contains the following errors.
The dialog element INACTIVE OBJECT contains a reference to a TIU
Object NP TIUHS OBJECT TEST in the Dialog Text field. This TIU Object is
inactive.
Packing is complete.
```

Because only a warning is generated, packing is allowed to proceed.

### Example 3

In this example, a reminder dialog is selected and the dialog checking generates a fatal error.

```
Select from the following reminder files:
 1 REMINDER COMPUTED FINDINGS
 2 REMINDER COUNTING GROUP
 3 REMINDER DEFINITION
 4 REMINDER DIALOG
 5 REMINDER EXTRACT COUNTING RULE
 6 REMINDER EXTRACT DEFINITION
 7 REMINDER LIST RULE
 8 REMINDER LOCATION LIST
 9 REMINDER SPONSOR
10 REMINDER TAXONOMY
11 REMINDER TERM
Select a file: (1-11): 4
```

```

Select REMINDER DIALOG NAME: EXCHANGE3 DIALOG      reminder dialog      LOCAL
      ...OK? Yes//      (Yes)
Enter another one or just press enter to go back to file selection.
Select REMINDER DIALOG NAME:
Select from the following reminder files:
  1 REMINDER COMPUTED FINDINGS
  2 REMINDER COUNTING GROUP
  3 REMINDER DEFINITION
  4 REMINDER DIALOG
  5 REMINDER EXTRACT COUNTING RULE
  6 REMINDER EXTRACT DEFINITION
  7 REMINDER LIST RULE
  8 REMINDER LOCATION LIST
  9 REMINDER SPONSOR
 10 REMINDER TAXONOMY
 11 REMINDER TERM
Select a file: (1-11):
Checking reminder dialog(s) for errors....
**FATAL ERROR**
EXCHANGE3 DIALOG contains the following errors.
The dialog element BAD OBJECT contains a reference to a TIU Object
OBJECT NOT EXIST in the Dialog Text field. This TIU Object does not exist
on the system.
The dialog element INACTIVE OBJECT contains a reference to a TIU
Object NP TIUHS OBJECT TEST in the Dialog Text field. This TIU Object is
inactive.
Cannot create the packed file. Please correct the above fatal error(s).

```

In this example, two errors were found. The first error is considered a Fatal Error, because there is a TIU Object "OBJECT NOT EXIST" in the dialog that does not exist on the system. The second error is the same error as in Example 2. The Fatal Error prevents the dialog from being packed up.