December 2

DSIO RPC Documentation

2013

Menu Context: DSIO GUI CONTEXT

RPC: DSIO PATIENT SEARCH
Return a list of patients for maternity care, thus only female patients will be returned.

TAG: PATIENT   ROUTINE: DSIO1
RETURN VALUE TYPE: ARRAY

The input parameter can be:
   ; LIST ALL PATIENTS
 - #$^LASTNAME,FIRSTNAME^DIRECTION("",-1) - FOR LISTING ALL PATIENTS
   ; FLG = DIRECTION -1 IS BACKWARDS
   ; KEY = "#$^LASTNAME,FIRSTNAME^DIRECTION("",-1)^COUNT
 - LAST NAME
 - PARTIAL LAST NAME
 - FULL NAME
 - FULL SSN
 - FIRST LETTER OF LAST NAME + LAST 4 OF SSN

INPUT PARAMETER: KEY   PARAMETER TYPE: LITERAL
REQUIRED: YES   SEQUENCE NUMBER: 1
DESCRIPTION:
KEY CAN BE:
   ; LIST ALL PATIENTS
 - #$^LASTNAME,FIRSTNAME^DIRECTION("",-1) - FOR LISTING ALL PATIENTS
   ; FLG = DIRECTION -1 IS BACKWARDS
   ; KEY = "#$^LASTNAME,FIRSTNAME^DIRECTION("",-1)^COUNT
 - LAST NAME
 - PARTIAL LAST NAME
 - FULL NAME
 - FULL SSN
 - FIRST LETTER OF LAST NAME + LAST 4 OF SSN

RETURN PARAMETER DESCRIPTION:
DFN^LASTNAME,FIRSTNAME^SSN(LAST 4)^DATE OF BIRTH^VETERAN
STATUS^LOCATION(WARD)^ROOM/BED^SERVICE CONNECTED^CURRENTLY TRACKING

CURRENTLY TRACKING:
1 for Yes, 0 for No or no tracking history for this patient.

If nothing is found:
RET(0)="-1^Patient not found."

Current Issues:

RPC: DSIO GET TRACKING

This RPC will return a list of all Tracking History Logs, all flagged logs for flagged patients or a patient, or all logs for a single patient.

TAG: TRCLIST   ROUTINE: DSIO1

RETURN VALUE TYPE: GLOBAL ARRAY   WORD WRAP ON: TRUE

INPUT PARAMETER: FLG   PARAMETER TYPE: LITERAL

REQUIRED: NO   SEQUENCE NUMBER: 1

DESCRIPTION:

T: TRACKED, P: PENDING

INPUT PARAMETER: TYP   SEQUENCE NUMBER: 1

DESCRIPTION:

ALL (literal)^Last Entry (if multiple lists) or null^Count or null (the value is 100 if null is passed)

F   : For Currently Flagged Patients and their flagged logs

F#   : For Currently Flagged logs for a Patient

DFN   : For all Log Entries of a single Patient

RETURN PARAMETER DESCRIPTION:

-1^ERROR MESSAGE

ID^DT OF TRACKING^DFN^LASTNAME,FIRSTNAME^USER^TRACKING TYPE^SOURCE^REASON|REASON|IDC^COMMENT

Flagged:

FID(FOR THE PATIENT LIST = FDFN)^DFN^LASTNAME,FIRSTNAME^LAST 4^DOB - Single Line

FIDP^LAST PROGRESS NOTE* - Multi line possible

FID^ID(FOR A LOG FOR THIS PATIENT)^LOG ENTRY - Single Line

FID^IDC^COMMENT FOR THE LOG ENTRY - Multi line possible

Current Issues:
- Progress Note not yet included

RPC: DSIO CREATE TRACKING LOG

This RPC will change the tracking status of a patient if that status is different from the current status. Changing the status will create a tracking log and the log's source will be set to DASHBOARD. If a reason list and comment array is provided then they will be applied to the log.

TAG: REC   ROUTINE: DSIO1
RETURN VALUE TYPE: SINGLE VALUE

INPUT PARAMETER: DFN   PARAMETER TYPE: LITERAL
REQUIRED: YES   SEQUENCE NUMBER: 1
DESCRIPTION:
PATIENT NUMBER

INPUT PARAMETER: ACT   PARAMETER TYPE: LITERAL
REQUIRED: YES   SEQUENCE NUMBER: 2
DESCRIPTION:
EVENT TYPE (ACTION) as (0:STOP,1:START,2:FLAG,3:REJECT,4:ACCEPT)

INPUT PARAMETER: RES   PARAMETER TYPE: LITERAL
SEQUENCE NUMBER: 3
DESCRIPTION:
REASON in a caret delimited list - #^#^#

INPUT PARAMETER: COM   PARAMETER TYPE: LIST
SEQUENCE NUMBER: 4
DESCRIPTION:
COMMENT ARRAY/LIST (lines of free text)

RETURN PARAMETER DESCRIPTION:
 -1^Error Message
  1^Success

Current Issues:

RPC: DSIO SELECT LIST

This RPC will return user drop down lists, add or delete an entry.

INPUT PARAMETERS:

TYP : 'S' for Tracking Sources
TYP : 'R' or null for Tracking Reasons

LETTER^ENTRY^A : ADD AN ENTRY TO ONE OF THE ABOVE FILES
LETTER^ENTRY^D : DELETE AN ENTRY FROM ONE OF THE ABOVE FILES

Return Array:
===========
Lines of free text
-1^Message (for a critical failure)

External RPCs

DG SENSITIVE RECORD ACCESS

Verify user is not accessing his/her own Patient file record if the Restrict Patient Record Access (#1201) field in the MAS parameters (#43) file is set to yes and the user does not hold the DG RECORD ACCESS security key. If parameter set to yes and user is not a key holder , a social security number must be defined in the New Person file for the user to access any Patient file record.

Determine if user accessing a sensitive record or an employee's record.

TAG: PTSEC   ROUTINE: DGSEC4
RETURN VALUE TYPE: ARRAY   AVAILABILITY: PUBLIC

INPUT PARAMETER: DFN   PARAMETER TYPE: LITERAL
REQUIRED: YES   SEQUENCE NUMBER: 1
DESCRIPTION:
DFN = Patient (#2) file DFN.

INPUT PARAMETER: DGMSG   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 1   REQUIRED: NO
SEQUENCE NUMBER: 2
DESCRIPTION:
DGMSG =   1 - if message should be generated when a user's SSN is undefined
               0 - message will not be generated
               If not defined, defaults to 1.

INPUT PARAMETER: DGOPT   PARAMETER TYPE: LITERAL
REQUIRED: NO   SEQUENCE NUMBER: 3
DESCRIPTION:
Contains Option name^Menu text for DG Security Log update.

RETURN PARAMETER DESCRIPTION:

RESULT(1) =
- -1-RPC/API failed
    - Required variable not defined
- 0-No display/action required
    - Not an employee, not sensitive or not accessing own Patient record
- 1-Display warning message
    - Sensitive - inpatient or a DG SENSITIVITY key holder or Employee and DG SECURITY OFFICER key holder
- 2-Display warning message, require OK to continue and call
    - DG SENSITIVE RECORD BULLETIN RPC to update DG Security Log file and generate Sensitive Record Access mail message.
    - Sensitive - not an inpatient and not a key holder or Employee/not a DG SECURITY OFFICER key holder

- 3-Access to record denied
  - o Accessing own Patient file record
- 4-Access to Patient file (#2) records denied
  - o SSN not defined

RESULT(2-n) = error message or warning/Privacy Act message. Error and warning messages will begin in RESULT(2) array. The Privacy Act message is the longest message and will utilize RESULT(2)- RESULT(8).

If RESULT(1)=1, the DG Security Log file is updated.

If RESULT(1)=2, the user must acknowledge they want to access the restricted record and the application must call the DG SENSITIVE RECORD BULLETIN RPC to update the DG Security Log file and generate the Sensitive Record Access mail message.

DG SENSITIVE RECORD BULLETIN

This Remote Procedure Call (RPC) will add an entry to the DG SECURITY LOG (#38.1) file and/or generate the sensitive record access bulletin depending on the value in ACTION input parameter. If ACTION parameter not defined, defaults to update DG Security Log file and generate Sensitive Record Access mail message.

TAG: NOTICE   ROUTINE: DGSEC4
RETURN VALUE TYPE: SINGLE VALUE   AVAILABILITY: PUBLIC

INPUT PARAMETER: ACTION   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 1   REQUIRED: NO
SEQUENCE NUMBER: 3
DESCRIPTION:
ACTION =   1 - Set DG Security Log entry
                2 - Generate Sensitive Record Access bulletin
                3 - Both

INPUT PARAMETER: DFN   PARAMETER TYPE: LITERAL
REQUIRED: YES   SEQUENCE NUMBER: 1
DESCRIPTION:
DFN = Patient (#2) file DFN

INPUT PARAMETER: DGOPT   PARAMETER TYPE: LITERAL
REQUIRED: NO   SEQUENCE NUMBER: 2
DESCRIPTION:
DGOPT =   Option Name^Menu test
               If not defined, OP^XQCHK identifies option or defaults to UNKNOWN.

RETURN PARAMETER DESCRIPTION:
RESULT=   1 - successfully added entry and/or generated sensitive record access bulletin
               0 - unsuccessful

CPRS and DG SENSITIVE RECORD…

It's also working with Notifications (Alerts) but this is just how CPRS is doing it and should just be used as a reference. The main point is that the Patient Search is going to return values of Sensitive*, if these patients are selected then the user needs to be checked to see if they are allowed to access the record and if required, have the event logged.

DGSR_FAIL = -1; DGSR_NONE = 0; DGSR_SHOW = 1; DGSR_ASK = 2; DGSR_DENY = 3;	TX_DGSR_ERR = 'Unable to perform sensitive record checks'; TC_DGSR_ERR = 'Error'; TC_DGSR_SHOW = 'Restricted Record'; TC_DGSR_DENY = 'Access Denied'; TX_DGSR_YESNO = CRLF + 'Do you want to continue processing this patient record?'; TC_NEXT_NOTIF = 'NEXT NOTIFICATION: ';

```
CheckSensitiveRecordAccess
 CallV('DG SENSITIVE RECORD ACCESS', [DFN]);
 AccessStatus := -1;
 MessageText := '';
 with RPCBrokerV do
 begin
  if Results.Count > 0 then
  begin
   AccessStatus := StrToIntDef(Results[0], -1);
   Results.Delete(0);
   if Results.Count > 0 then MessageText := Results.Text;
  end;
 end;
```

```
 CheckSensitiveRecordAccess(NewDFN, AccessStatus, AMsg);
 case AccessStatus of
 DGSR_FAIL: begin
        InfoBox(PrefixT + TX_DGSR_ERR, PrefixC + TC_DGSR_ERR, MB_OK);
        Result := FALSE;
       end;
 DGSR_NONE: { Nothing - allow access to the patient. };
 DGSR_SHOW: InfoBox(PrefixT + AMsg, PrefixC + TC_DGSR_SHOW, MB_OK);
 DGSR_ASK:  if InfoBox(PrefixT + AMsg + TX_DGSR_YESNO, PrefixC + TC_DGSR_SHOW, MB_YESNO or
MB_ICONWARNING or
        MB_DEFBUTTON2) = IDYES then LogSensitiveRecordAccess(NewDFN)
       else Result := FALSE;
 else     begin
        InfoBox(PrefixT + AMsg, PrefixC + TC_DGSR_DENY, MB_OK);
        if Notifications.Active then Notifications.DeleteForCurrentUser;
        Result := FALSE;
       end;
 end;
```

Notifications (Alerts)

ORWORB FASTUSER
Function returns notifications for current user.

TAG: FASTUSER   ROUTINE: ORWORB
RETURN VALUE TYPE: GLOBAL ARRAY   AVAILABILITY: RESTRICTED
WORD WRAP ON: TRUE
DESCRIPTION:

*Pieces are the same as the columns in CPRS
Info^Patient^Location^Urgency^Alert Date/Time^Message Text^Forwarded By/When^XQAID^Remove w/o process^Forwarding Comments

**XQAID is the identifier used to interact with this Alert with other RPC's.

Pieces not displayed
XQAID
Remove w/o process
Forwarding comments

FOR CPRS while LOOPing on the RPC Return List there is a difference for forwarded alerts:

```
    if Piece(List[I], U, 1) <> 'Forwarded by: ' then
      begin
        NewItem := lstvAlerts.Items.Add;
        NewItem.Caption := Piece(List[I], U, 1);
        for J := 2 to DelimCount(List[I], U) + 1 do
          NewItem.SubItems.Add(Piece(List[I], U, J));
      end
    else   //this list item is forwarding information
      begin
       NewItem.SubItems[5] := Piece(List[I], U, 2);
       Comment := Piece(List[I], U, 3);
       if Length(Comment) > 0 then NewItem.SubItems[8] := 'Fwd Comment: ' + Comment;
      end;
```

ORWORB GETSORT
Returns the method for sorting GUI alert display.

TAG: GETSORT   ROUTINE: ORWORB
RETURN VALUE TYPE: SINGLE VALUE

This is just a return with the first piece as the sort method either as upper or lower case:
I, P, L, U, D, M, F (refers to column headers)

ORWORB SETSORT
Sets the GUI alert sort method for the user. This is set when a user clicks on the GUI alert columns to change the display sorting.

TAG: SETSORT   ROUTINE: ORWORB RETURN VALUE TYPE: SINGLE VALUE Two input parameters: The sort column as letter (see above) and the direction as either "F" or "R" (forward or reverse) Returns a single value 1 OR 0
ORWORB GETDATA Given an XQAID, return XQADATA for an alert. TAG: GETDATA   ROUTINE: ORWORB RETURN VALUE TYPE: SINGLE VALUE INPUT PARAMETER: XQAID   PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 60   REQUIRED: YES SEQUENCE NUMBER: 1
ORB FORWARD ALERT The rpc forwards an alert. TAG: FWD   ROUTINE: ORB31 RETURN VALUE TYPE: SINGLE VALUE   AVAILABILITY: RESTRICTED INPUT PARAMETER: XQAID   PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 255   REQUIRED: YES SEQUENCE NUMBER: 1 DESCRIPTION: The alert identifier used by the Kernel Alert utility to uniquely identify an alert/notification. For OE/RR alerts, the format is: "OR,<dfn>,<notif ien>;<notif date.time>" INPUT PARAMETER: RECIPIENT   PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 64   REQUIRED: YES SEQUENCE NUMBER: 2 DESCRIPTION: DUZ (file 200 ien) of the person to receive the forwarded alert. INPUT PARAMETER: TYPE   PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 16   REQUIRED: YES SEQUENCE NUMBER: 3 DESCRIPTION: The type of message to be forwarded. "A" indicates an alert is to be forwarded. INPUT PARAMETER: COMMENT   PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 255   SEQUENCE NUMBER: 4 DESCRIPTION: The comment (optional) to be forwarded with the alert.
ORB RENEW ALERT This rpc renews an alert. TAG: RENEW   ROUTINE: ORB31

RETURN VALUE TYPE: SINGLE VALUE   AVAILABILITY: RESTRICTED

INPUT PARAMETER: XQAID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 255   REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
XQAID is the unique identifier used by Kernel Alerts to process and take actions on alerts.

ORB DELETE ALERT
This function deletes an alert.

TAG: DEL   ROUTINE: ORB3FUP1
RETURN VALUE TYPE: SINGLE VALUE   AVAILABILITY: RESTRICTED

INPUT PARAMETER: XQAID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 32   REQUIRED: YES
DESCRIPTION:
The alert identifier used by the Kernel Alert utility to uniquely identify an alert/notification. For OE/RR
alerts, the format is: "OR,<dfn>,<notif ien>;<notif date.time>"

RETURN PARAMETER DESCRIPTION:
True or False for successful deletion or failure.

For CPRS it is used twice:

procedure DeleteAlert(XQAID: string);
//deletes an alert
begin
  CallV('ORB DELETE ALERT',[XQAID]);
end;

procedure DeleteAlertForUser(XQAID: string);
//deletes an alert
begin
  CallV('ORB DELETE ALERT',[XQAID, True]);
end;

TIU GET ALERT INFO
Given a TIU XQAID, return the patient and document type for the item being alerted.

TAG: GETALRT   ROUTINE: TIUSRVR
RETURN VALUE TYPE: SINGLE VALUE

INPUT PARAMETER: XQAID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 60   REQUIRED: YES
DESCRIPTION:
The XQAID of the alert.

RETURN PARAMETER DESCRIPTION:
TIUDA^DFN^gui tab indicator

where

TIUDA is the document IEN in ^TIU(8925
DFN is the patient IEN
gui tab indicator is an arbitrarily set constant based on the document type.

Progress Notes

TIU DOCUMENTS BY CONTEXT
Returns lists of TIU Documents that satisfy the following search criteria:
 1 - signed documents (all)
 2 - unsigned documents
 3 - uncosigned documents
 4 - signed documents/author
 5 - signed documents/date range

TAG: CONTEXT   ROUTINE: TIUSRVLO
RETURN VALUE TYPE: GLOBAL ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: CLASS   PARAMETER TYPE: LITERAL
REQUIRED: YES   SEQUENCE NUMBER: 1
DESCRIPTION:
This is a pointer to the Class of TIU DOCUMENTS which the user is interested in (e.g., 3 for PROGRESS NOTES, 244 for DISCHARGE SUMMARIES, etc.).

INPUT PARAMETER: CONTEXT   PARAMETER TYPE: LITERAL
REQUIRED: YES   SEQUENCE NUMBER: 2
DESCRIPTION:
This is an integer number which maps the context in which the user wishes the notes to be returned. The mapping is as follows:
 1 - signed documents (all)
 2 - unsigned documents
 3 - uncosigned documents
 4 - signed documents/author
 5 - signed documents/date range

INPUT PARAMETER: DFN   PARAMETER TYPE: LITERAL
REQUIRED: YES
DESCRIPTION:
Pointer to Patient File (#2).

INPUT PARAMETER: EARLY   PARAMETER TYPE: LITERAL
REQUIRED: NO
DESCRIPTION:
EARLY DATE/TIME in regular FileMan format for the inclusive lower bound on the search.

INPUT PARAMETER: LATE   PARAMETER TYPE: LITERAL
REQUIRED: NO   SEQUENCE NUMBER: 5
DESCRIPTION:
LATE DATE/TIME in regular FileMan format for the inclusive upper bound on the search.

INPUT PARAMETER: PERSON   PARAMETER TYPE: LITERAL
REQUIRED: NO   SEQUENCE NUMBER: 6

DESCRIPTION:
This is a pointer to the NEW PERSON FILE (#200) for the author of the documents to be retrieved.

INPUT PARAMETER: OCCLIM   PARAMETER TYPE: LITERAL
REQUIRED: NO   SEQUENCE NUMBER: 7
DESCRIPTION:
This is the maximum number of documents to be retrieved in the current query.

INPUT PARAMETER: SEQUENCE   PARAMETER TYPE: LITERAL
REQUIRED: NO   SEQUENCE NUMBER: 8
DESCRIPTION:
This is the sequence by reference date/time (A=ascending (OLDEST FIRST), D=descending (NEWEST FIRST)) in which the user would like the list returned.

INPUT PARAMETER: SHOWADD   PARAMETER TYPE: LITERAL
REQUIRED: NO   SEQUENCE NUMBER: 10
DESCRIPTION:
This BOOLEAN parameter determines whether addenda will be included in the return array, when their parent documents are identified by the search criteria, and vice versa. Also if SHOWADD is TRUE (1), the "+" at the beginning of the return text will be omitted (since it offers only redundant information).

INPUT PARAMETER: INCUND   PARAMETER TYPE: LITERAL
REQUIRED: NO
DESCRIPTION:
Optional Boolean parameter determines whether Undictated and Untranscribed documents should be returned along with Unsigned documents, when the CONTEXT is passed as 2.

RETURN PARAMETER DESCRIPTION:
The return array has elements with the following positional values:

IEN^TITLE^REFERENCE DATE/TIME (INT)^PATIENT NAME (LAST I/LAST 4)^AUTHOR (INT;EXT)^HOSPITAL LOCATION^SIGNATURE STATUS^Visit Date/Time^Discharge Date/time^Variable Pointer to Request (e.g., Consult)^# of Associated Images^Subject^Has Children^IEN of Parent Document

Example:

```
Params -----------------------------------------------------------
literal   3       CLASS
literal   1       CONTEXT
literal   441     DFN
literal   -1      EARLY
literal   -1      LATE
literal   0       DUZ
literal   122     MAX ENTRIES TO RETRIEVE (OCCLIM)
literal   D       DIRECTION (SEQUENCE)
literal   1       SHOWADD
```

TIU GET RECORD TEXT
This RPC will get the textual portion of a TIU Document Record.

TAG: TGET   ROUTINE: TIUSRVR1
RETURN VALUE TYPE: GLOBAL ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: TIUDA   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 10   REQUIRED: YES
(The first piece of the list item for TIU DOCUMENTS BY CONTEXT (IEN).)

Clinical Reminders

ORQQPXRM REMINDERS APPLICABLE
Returns a list of clinical reminders due/applicable or not applicable to the patient.

ROUTINE: ORQQPXRM	TAG: APPL
RETURN VALUE TYPE: ARRAY	AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE	

INPUT PARAMETER: PATIENT ID	PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16	REQUIRED: YES
SEQUENCE NUMBER: 1	

DESCRIPTION:
Patient identifier from the patient file [#2]

INPUT PARAMETER: HOSPITAL LOCATION	PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16	SEQUENCE NUMBER: 2

DESCRIPTION:
Patients location from HOSPITAL LOCATION [#44]. May be null.

RETURN PARAMETER DESCRIPTION:
List of reminders in format:
IEN^PRINT NAME^DUE DATE/TIME^LAST OCCURRENCE DATE/TIME^PRIORITY^DUE

DUE=0 - Applicable
DUE=1 - Due

ORQQPX REMINDERS LIST
Returns a list of clinical reminders.

ROUTINE: ORQQPX	TAG: REMIND
RETURN VALUE TYPE: ARRAY	AVAILABILITY: SUBSCRIPTION

INPUT PARAMETER: PATIENT ID	PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16	REQUIRED: YES

DESCRIPTION:
Patient identifier (DFN) from patient file [#2].

RETURN PARAMETER DESCRIPTION:
List of patient clinical reminders in format:
IEN^PRINT NAME^DUE DATE/TIME^LAST OCCURRENCE DATE/TIME

ORQQPXRM REMINDER CATEGORIES
Returns list of all CPRS lookup categories and associated reminders

ROUTINE: ORQQPXRM   TAG: CATEGORY
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: PATIENT ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
Patient Identifier from Patient file [#2]

INPUT PARAMETER: HOSPITAL LOCATION   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: NO
SEQUENCE NUMBER: 2
DESCRIPTION:
Patient's HOSPITAL LOCATION [#44]. May be null.

RETURN PARAMETER DESCRIPTION:
Returns array of categories and reminders based on CPRS lookup categories for this patient
service/location.

FORMAT OF OUTPUT

ARRAY(1)=identifier^type^name^parent identifier^reminder ien
ARRAY(2)=identifier^type^name^parent identifier^reminder ien

ORQQPXRM REMINDER DETAIL
Returns the details of a clinical reminder

ROUTINE: ORQQPXRM   TAG: REMDET
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: PATIENT ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
Patient identifier from Patient file [#2]

INPUT PARAMETER: CLINICAL REMINDER ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
SEQUENCE NUMBER: 2
DESCRIPTION:
Clinical reminder (ien) from CLINICAL REMINDER DEFINITION file [#811.9]

RETURN PARAMETER DESCRIPTION:
Formatted details of the clinical reminder

ORQQPXRM REMINDER INQUIRY
Detailed description of reminder

ROUTINE: ORQQPXRM   TAG: RES
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: CLINICAL REMINDER ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Clinical reminder (ien) from CLINICAL REMINDER DEFINITION file [#811.9]

RETURN PARAMETER DESCRIPTION:
Detailed description of clinical reminder as formatted text

FORMAT OF OUTPUT
        ARRAY(1) = Display text line 1
        ARRAY(2) = Display text line 2
        ARRAY(3) = etc

ORQQPX REMINDER DETAIL
Returns the details of a clinical reminder.

ROUTINE: ORQQPX   TAG: REMDET
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: PATIENT ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Patient identifier from Patient file [#2].

INPUT PARAMETER: CLINICAL REMINDER ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Clinical reminder identifier (ien) from PCE REMINDER/MAINTENANCE ITEM file [#811.9].

RETURN PARAMETER DESCRIPTION:
Formatted details of the clinical reminder.

ORQQPXRM EDUCATION TOPIC
Detailed description of education topic

ROUTINE: ORQQPXRM   TAG: EDU
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: EDUCATION TOPIC ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Education topic (ien) from EDUCATION TOPIC file [#9999999.09]

RETURN PARAMETER DESCRIPTION:
Detailed description of education topic as formatted text

FORMAT OF OUTPUT
        ARRAY(1) = Display text line 1
        ARRAY(2) = Display text line 2
        ARRAY(3) = etc

ORQQPXRM REMINDER EVALUATION
Allows evaluation of a list of reminders. Returns a list of clinical reminders due/applicable or not
applicable to the patient.

ROUTINE: ORQQPXRM   TAG: ALIST
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: PATIENT ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
Patient identifier from the patient file [#2]

INPUT PARAMETER: REMINDER ARRAY   PARAMETER TYPE: LIST
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
SEQUENCE NUMBER: 2
DESCRIPTION:
List of reminders in format :
        array(1) = reminder ien1 (from #811.9)
        array(2) = reminder ien2
        etc

RETURN PARAMETER DESCRIPTION:
List of reminders in format:
IEN^PRINT NAME^DUE DATE/TIME^LAST OCCURRENCE DATE/TIME^PRIORITY^DUE

DUE=0 - Applicable
DUE=1 - Due
DUE=2 - Not Applicable

ORQQPXRM EDUCATION SUMMARY
Returns list of education topics for a reminder

ROUTINE: ORQQPXRM   TAG: EDL
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: CLINICAL REMINDER ID PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Clinical reminder (ien) from CLINICAL REMINDER DEFINITION file [#811.9]

RETURN PARAMETER DESCRIPTION:
List of education topics for this reminder in format

ORQQPXRM EDUCATION SUBTOPICS
Returns array of subtopics for any given education topic

ROUTINE: ORQQPXRM   TAG: EDS
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: EDUCATION TOPIC ID   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Education topic (ien) from EDUCATION TOPIC file [#9999999.09]

RETURN PARAMETER DESCRIPTION:

FORMAT OF OUTPUT
        ARRAY(1) = ien^name^print name^sequence number
        ARRAY(2) = ien^name^print name^sequence number

ORQQPXRM REMINDER WEB
Web addresses for selected reminder

ROUTINE: ORQQPXRM   TAG: WEB
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: CLINICAL REMINDER ID PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Clinical reminder (ien) from CLINICAL REMINDER DEFINITION file [#811.9]

RETURN PARAMETER DESCRIPTION:
Formatted list of web addresses
description^address

E.G.

ARRAY(0)=4
ARRAY(1)=Influenza Directive^http://www.va.gov/publ/direct/194026.htm
ARRAY(2)=Medical Home Pages^http://www.va.gov/bookmark/Medhome.htm
ARRAY(3)=National Guideline Clearinghouse^http://www.guideline.com
ARRAY(4)=VISN01 Web Page^http://vaww.visn1.med.va.gov

ORQQPXRM REMINDER DIALOG
Dialog for a given reminder

ROUTINE: ORQQPXRM   TAG: DIALOG
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: CLINICAL REMINDER ID PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Clinical reminder (ien) from CLINICAL REMINDER DEFINITION file [#811.9]

RETURN PARAMETER DESCRIPTION:
For each dialog item in the reminder dialog for the reminder :

  1) Initial states
  1^dialog item ien[#801.41]^dialog ien [#801.412]^^^^

  2) Question text
  2^dialog item ien[#801.41]^dialog ien [#801.412]^text

ORQQPXRM DIALOG PROMPTS
Additional prompts for a given dialog element

ROUTINE: ORQQPXRM   TAG: PROMPT
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: DIALOG ELEMENT IEN   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
Reminder dialog element identifier (ien) from REMINDER DIALOG file [#801.41]

INPUT PARAMETER: CURRENT/HISTORICAL   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   SEQUENCE NUMBER: 2
DESCRIPTION:
Used only for taxonomy dialogs.

  0 - Current Diagnosis/Procedure
  1 - Historical Diagnosis/Procedure

INPUT PARAMETER: DIALOG LINE CPT/POV   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 3   SEQUENCE NUMBER: 3
DESCRIPTION:
For taxonomy dialog the type of finding (POV/CPT) for this dialog line

RETURN PARAMETER DESCRIPTION:
For a selected dialog element

  3) Resolutions
  3^dialog item ien[#801.41]^line id^resolution type code^ien[#various]
  4) Additional prompts
  4^dialog item ien[#801.41]^line id^prompt text
  5) Listbox items (cpt/pov)
  5^dialog item ien[#801.41]^line id^cpt/pov ien^code/desc

ORQQPXRM DIALOG ACTIVE
For a list of reminders [#811.9] returns same list with status to indicate if an active dialog exists for the reminder.

ROUTINE: ORQQPXRM   TAG: ACTIVE RETURN VALUE TYPE: ARRAY
AVAILABILITY: SUBSCRIPTION   WORD WRAP ON: TRUE

INPUT PARAMETER: CLINICAL REMINDER IEN   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
DESCRIPTION:
Array of clinical reminder iens [#811.9] to be checked.

RETURN PARAMETER DESCRIPTION:
Array of clinical reminders in format

ORY(1)=Reminder_U_Status
ORY(2)=Reminder_U_Status

Where status:

0 - No active dialog
1 - Active dialog

ORQQPXRM PROGRESS NOTE HEADER
Returns header text to be inserted in each progress note.

ROUTINE: ORQQPXRM   TAG: HDR
RETURN VALUE TYPE: SINGLE VALUE   AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

INPUT PARAMETER: HOSPITAL LOCATION   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16
DESCRIPTION:
Patients location from HOSPITAL LOCATION [#44]. May be null.

RETURN PARAMETER DESCRIPTION:
Returns text for progress note header

ARRAY(1)=text

ORQQPX NEW REMINDERS ACTIVE
Return 1 if Interactive Reminders are active, otherwise return 0.

ROUTINE: ORQQPX   TAG: NEWACTIV
RETURN VALUE TYPE: SINGLE VALUE   AVAILABILITY: RESTRICTED
WORD WRAP ON: TRUE

PXRM REMINDER DIALOG (TIU)
Dialog for a given dialog ien.

ROUTINE: ORQQPXRM   TAG: TDIALOG
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION

INPUT PARAMETER: DIALOG IEN   PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 16   REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
Reminder Dialog ien from #801.41

RETURN PARAMETER DESCRIPTION:
For each dialog element/group in the reminder dialog:

   1) Initial states
   1^dialog item ien[#801.41]^dialog ien [#801.412]^^^^
   2) Question text
   2^dialog item ien[#801.41]^dialog ien [#801.412]^text

PXRM REMINDERS AND CATEGORIES
Returns list of reminders and categories.

ROUTINE: PXRMRPCD   TAG: SEL
RETURN VALUE TYPE: ARRAY   AVAILABILITY: SUBSCRIPTION