### June 2009

#### This distribution contains change pages for patch MD\*1.0\*11 of the Clinical Procedures 1.0 Technical Manual and Package Security Guide.

The change pages for CP Patch 2, CP Patch 14, and CP Patch 6 should be inserted before the change pages for CP Patch 11:

File Name: Patch:

MD\_1\_P2\_TM. PDF MD\*1.0\*2

MD\_1\_P14\_ TM.PDF MD\*1.0\*14

MD\_1\_P6\_TM.PDF MD\*1.0\*6

MD\_1\_P11\_TM.PDF MD\*1.0\*11

Patch MD\*1.0\*11 pages:

Replace Pages: With Pages:

Title page Title page

Revision History Revision History

Table of Contents Table of Contents

4-1 to 4-4 4-1 to 4-4

5-5 to 5-6 5-5 to 5-6

6-3 to 6-28 6-3 to 6-26



**CLINICAL PROCEDURES**

**TECHNICAL MANUAL AND PACKAGE SECURITY GUIDE**

Version 1.0

April 2004

# Revised June 2009

#### Department of Veterans Affairs Office of Information & Technology Office of Enterprise Development

Revision History

|  |  |  |
| --- | --- | --- |
| **Description** | **Date** |  |
| Originally released. | April 2004 |  |
| 1Patch MD\*1.0\*1 released. | July 2004 |  |
| Patch MD\*1.0\*2 released. | August 2006 |  |
| 2Patch MD\*1.0\*5 released August 2006.  Updated File List, Package Default Definition, Parameter Definitions, and menu options. | Documented February 2008 | REDACTED |
| 3Patch MD\*1.0\*14 released. Updated  Routine Descriptions, File List, Parameter Definitions, Protocols, menu options, and Cross References. Deleted bad references to  Sample Reports in Ch. 15. | March 2008 | REDACTED |
| 4Patch MD\*1.0\*6 released. Added  description of Hemodialysis module and 508 Compliance to Introduction; updated Routine Descriptions, File List, Package Default Definition, Remote Procedure Calls, Parameter Definitions, menu options, Cross References, Callable Routines, External Relations, Internal Relations, and Glossary. Removed individual vendor contact  information from Ch.15. | May 2008 | REDACTED |
| 5Patch MD\*1.0\*11 released. Updated  product line on title page, Routine Description, File and Field Description, Parameter Definition, and Menu Options By Name. | June 2009 | REDACTED |

1 Patch MD\*1.0\*1 and MD\*1.0\*2 July 2004 Patch 2 release added.

2 Patch MD\*1.0\*5 August 2006 Patch 5 release added.

3 Patch MD\*1.0\*14 March 2008 Patch 14 release added.

4 Patch MD\*1.0\*6 May 2008 Patch 6 release added.

5 Patch MD\*1.0\*11 June 2009 Patch 11 release added.

# Table of Contents

1. Introduction 1-1

Benefits 1-1

508 Compliance 1-2

1. Implementation and Maintenance 2-1
2. Clinical Instrument Interface Specifications 3-1
3. [Routine Descriptions 4-1](#_TOC_250006)
4. File List and Related Information 5-1

File and Field Descriptions 5-1

Package Default Definition 5-18

1. Exported Options 6-1

Delphi Components 6-1

[Remote Procedure Calls (RPC) 6-3](#_TOC_250005)

[Parameter Definitions 6-14](#_TOC_250004)

[Protocols 6-20](#_TOC_250003)

[HL7 Application Parameters 6-21](#_TOC_250002)

[HL Logical Links 6-22](#_TOC_250001)

[Menu Options by Name 6-22](#_TOC_250000)

1. Cross-References 7-1
2. Archiving and Purging 8-1
3. Callable Routines 9-1
4. External Relations 10-1
5. Internal Relations 11-1
6. Package-wide Variables 12-1
7. SAC Exemptions 13-1
8. Software Product Security 14-1

Security Management 14-1

Security Features 14-1

1. Vendor Interfaces 15-1

List of Vendor Interfaces 15-1

Device Setup Instructions 15-2

Clinivision 15-2

Endoworks 15-6

Muse 15-8

Sensormedics V-MAX 15-9

B. Braun 15-12

Fresenius Medical Care 15-13

Table of Contents

Gambro 15-14

1. Glossary 16-1

# Routine Descriptions

1MDAPI ; HOIFO/DP/NCA - CP API Calls ; [05-05-2003 10:28]

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDAPI1 ; HOIFO/NCA - Electrocardiogram Data Extraction ;12/4/02 12:32

;;1.0;CLINICAL PROCEDURES;\*\*1\*\*;Apr 01, 2004;Build 2

MDARP3 ; HOIFO/NCA - Get Procedures for Medicine ;1/13/04 14:35

;;1.0;CLINICAL PROCEDURES;\*\*10,13\*\*;Apr 01, 2004;Build 20

MDCVT ; HOIFO/DP/NCA - Medicine Package Conversion ;10/20/04 12:49

;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 2

MDCVT1 ; HOIFO/NCA - Medicine Package Conversion (Cont.) ;1/6/05 15:12

;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 2

MDCVTU ; HOIFO/NCA - Medicine Conversion Verification Utility ; [08-28-2003 11:34]

;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 2 MDESPRT ;HOIFO/NCA - ELECTRONIC SIGNATURE PRINT ;12/21/04 09:24

;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 2

MDHL7A ; HOIFO/WAA - Routine to Decode HL7 for CP ;9/17/07 08:17

;;1.0;CLINICAL PROCEDURES;\*\*6,11\*\*;Apr 01, 2004;Build 67

MDHL7B ; HOIFO/WAA -Bi-directional interface routine ;7/23/01 11:41

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7BH ; HOIFO/WAA -Bi-directional interface (HL7) routine ;7/23/01 11:41

;;1.0;CLINICAL PROCEDURES;\*\*11\*\*;Apr 01, 2004;Build 67

MDHL7D ; HOIFO/WAA -B-Braun, Fresenius Dialysis ; 06/08/00

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDHL7E ; HOIFO/WAA -Olympus/CMore/Pentax Endoscopy ; 06/08/00

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7K2 ; HOIFO/WAA -HP EnConcert Echo ; 06/08/00

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2 MDHL7M1 ; HOIFO/WAA - Muse EKG ; [02-06-2002 16:13]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7MCA ; HOIFO/REL-Routine to Decode HL7 for MEDICINE ; [05-07-2001 10:38]

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDHL7MCX ; HIRMFO/WAA - Generate HL7 Error Message for MEDICINE ; [05-07-2001 10:38]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7P1 ; HOIFO/WAA-Sensormedics,Jaeger Pulmonary ; 06/08/00

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7R1 ; HOIFO/WAA -Clinivision Resporatory ; 06/13/02

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7U ; HOIFO/WAA -Routine utilities for CP ;7/23/01 11:41

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7U1 ; HOIFO/WAA -Routine utilities for CP PROCESSING OBX ; 7/26/00

;;1.0;CLINICAL PROCEDURES;\*\*11\*\*;Apr 01, 2004;Build 67

MDHL7U2 ; HOIFO/WAA -Utilities for CP PROCESSING OBX text ; 7/26/00

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDHL7U3 ; HOIFO/WAA -Utilities for CP to process HL7 messages ; 7/26/00

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDHL7X ; HOIFO/WAA -Generate HL7 Error Message ; 06/08/00

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102 MDHL7XXX ; HOIFO/DP - Loopback device for CP ; 22-MAY-2003 13:37:41

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDKRPC1 ;HIOFO/FT-RPC to return patient data ;2/19/08 13:13

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102 MDKRPC2 ; HOIFO/DP - RPC Calls (Cont.) ;11/27/07 09:42

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDKUTL ; HOIFO/DP - Renal Utilities ;11/29/07 14:45

;;1.0;CLINICAL PROCEDURES;\*\*14\*\*;Apr 01, 2004;Build 19

MDKUTLR ; HOIFO/DP - Renal Utilities RPC;11/29/07 14:45

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDNCHK ; HOIFO/NCA - CP Multiple Result Check ;4/26/05 15:17

;;1.0;CLINICAL PROCEDURES;\*\*11\*\*;Apr 01, 2004;Build 67

MDOUTOR ; HOIFO/NCA - Post Conversion Routine ; [04-14-2003 10:51]

1 Patch MD\*1.0\*11 June 2009 New routine listing, several routines added or deleted

Routine Descriptions

;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 2

MDPCE ; HIRMFO/NCA - Routine For Data Extract ; [05-28-2002 12:55]

;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 2

MDPCE1 ; HOIFO/NCA - Updated Routine For Data Extract ; [05-28-2002 12:55]

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDPCE2 ; HOIFO/NCA - Routine For Data Extract For Hemo Dialysis;9/10/04 11

:23

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102 MDPFTP1 ;HOIFO/NCA - PFT REPORT-DEMO INFO ;3/15/04 11:55

;;1.0;CLINICAL PROCEDURES;\*\*2\*\*;Apr 01, 2004;Build 2 MDPFTP2 ; HOIFO/NCA - PFT REPORT-VOLUMES ;3/15/04 10:00

;;1.0;CLINICAL PROCEDURES;\*\*2\*\*;Apr 01, 2004;Build 2 MDPFTP2A ; HOIFO/NCA - PFT REPORT-FLOWS ;3/17/04 08:22

;;1.0;CLINICAL PROCEDURES;\*\*2\*\*;Apr 01, 2004;Build 2

MDPFTP3 ; HOIFO/NCA - PFT REPORT-SPECIAL STUDIES (PT 2) ;3/17/04 12:48

;;1.0;CLINICAL PROCEDURES;\*\*2\*\*;Apr 01, 2004;Build 2 MDPOST ; HOIFO/DP - Post Init ;2/18/04 11:39

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2 MDPOST04 ; HOIFO/DP - Post Init ; 2/18/04 11:39

;;1.0;CLINICAL PROCEDURES;\*\*4\*\*;Apr 01, 2004;Build 4 MDPOST06 ; HOIFO/DP - Post Init ;2/7/07 16:15

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDPOST1 ; HOIFO/NCA/DP - Build CP DEFINITION file (#702.01) - Optional Post Init ; [12-04-2002 13:06]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDPOST6A ;HOIFO/NCA-Convert Existing Notes to New File ;11/28/07 14:31

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDPS1 ; HOIFO/NCA - CP/Medicine Report Generator ;5/18/04 09:48

;;1.0;CLINICAL PROCEDURES;\*\*2,10,13\*\*;Apr 01, 2004;Build 20

MDPS2 ; HOIFO/NCA - CP/Medicine Report Generator (Cont.) ;5/18/04 09:41

;;1.0;CLINICAL PROCEDURES;\*\*2\*\*;Apr 01, 2004;Build 2

MDPS3 ; HOIFO/NCA - Remote Data View Data Retriever for CP ;8/26/05 14:37

;;1.0;CLINICAL PROCEDURES;\*\*2,5,13\*\*;Apr 01, 2004;Build 20

MDPS4 ; HOIFO/NCA - Retrieve List of Consult Procedures ;1/26/06 12:45

;;1.0;CLINICAL PROCEDURES;\*\*13\*\*;Apr 01, 2004;Build 20

MDPS5 ; HOIFO/NCA - Retrieve List of Consult Procedures for RDV ;3/4/05 1 3:29

;;1.0;CLINICAL PROCEDURES;\*\*13\*\*;Apr 01, 2004;Build 20

MDPURGE ;HOIFO/NCA - Study Clean-Up process ;6/18/08 10:15

;;1.0;CLINICAL PROCEDURES;\*\*11\*\*;Apr 01, 2004;Build 67

MDRPCNT ; HOIFO/NCA - Document Handler Object (TMDNOTE) ;5/23/05 15:50

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDRPCNT1 ; HOIFO/NCA - Object RPCs (TMDNOTE) Continued 2;10/29/04 12:20 ;6/7

/05 15:52

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDRPCOD ; HOIFO/DP - Object RPCs (TMDProcedureDef) ; [01-09-2003 15:20]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2 MDRPCOG ; HOIFO/DP - CP Gateway ; [01-09-2003 15:20]

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102 MDRPCOL ; HOIFO/DP - Object RPCs (Logfile) ; [02-11-2002 13:41]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDRPCOO ; HOIFO/DP - Object RPCs (TMDOutput) ; [03-24-2003 15:44]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDRPCOP ; HOIFO/DP - Object RPCs (TMDPatient) ; [01-09-2003 15:21]

;;1.0;CLINICAL PROCEDURES;\*\*4,6,11\*\*;Apr 01, 2004;Build 67 MDRPCOP1 ; HOIFO/DP - Object RPCs (TMDPatient) - Cont. ; 01-09-2003 15:21

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102 MDRPCOR ; HOIFO/DP - Object RPCs (TMDRecordId) ; [01-10-2003 09:14]

;;1.0;CLINICAL PROCEDURES;\*\*17\*\*;Apr 01, 2004;Build 3

MDRPCOT ; HOIFO/DP/NCA - Object RPCs (TMDTransaction) ;10/27/05 09:15

;;1.0;CLINICAL PROCEDURES;\*\*5,6,11\*\*;Apr 01, 2004;Build 67

MDRPCOT1 ; HOIFO/NCA/DP - Object RPCs (TMDTransaction) - Continued ; [08-02-2 002 12:55]

;;1.0;CLINICAL PROCEDURES;\*\*5,11\*\*;Apr 01, 2004;Build 67

MDRPCOT2 ; HOIFO/NCA - Object RPCs (TMDTransaction) Continued 2;10/29/04 12: 20 ;12/20/04 14:26

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

Routine Descriptions

MDRPCOU ; HOIFO/DP - Object RPCs (TMDUser) ; [01-09-2003 15:21]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDRPCOV ; HOIFO/DP - Object RPCs (TMDParameter) ; [04-15-2003 12:42]

;;1.0;CLINICAL PROCEDURES;;Apr 01, 2004;Build 2

MDRPCOW ; HOIFO/DP/NCA - Billing Widget ;10/3/05 12:17

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102 MDRPCU ; HOIFO/DP - Object RPC Utilities ; [05-23-2003 10:16]

;;1.0;CLINICAL PROCEDURES;\*\*4\*\*;Apr 01, 2004;Build 4 MDRPCW ; HOIFO/NCA - Calls to AICS;04/01/2003 ;11/22/06 08:30

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDRPCW1 ; HOIFO/NCA - MD TMDENCOUNTER Object; [05-28-2002 12:55] ;4/4/06 08

:45

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDSTATU ; HOIFO/NCA - Print List of Document Titles Needed ;10/21/04 13:44

;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 2

MDSTUDL ; HOIFO/NCA - Clinical Procedures Studies List ;10/26/05 11:46

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDUXML ; HOIFO/WAA -Utilities for XML text ; 7/26/00

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDUXMLM ; HOIFO/WAA -Utilities for XML text ; 7/26/00

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDUXMLOX ; HOIFO/WAA -OBX converter XML text ; 7/26/00

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDUXMLU1 ; HOIFO/WAA -Utilities for XML text ; 7/26/00

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

MDWCAN ;HOIFO/NCA - Process No-Shows and Cancels ;6/19/08 13:42

;;1.0;CLINICAL PROCEDURES;\*\*11\*\*;Apr 01, 2004;Build 67

MDWCHK ; HOIFO/NCA - Create CP Studies for Existing Procedures ;12/13/07 1 5:52

;;1.0;CLINICAL PROCEDURES;\*\*14\*\*;Apr 01,2004;Build 19

MDWOR ; HOIFO/NCA - Main Routine to Decode HL7 ;5/23/07 10:49

;;1.0;CLINICAL PROCEDURES;\*\*14,11\*\*;Apr 01,2004;Build 67

MDWORC ; HOIFO/NCA - Main Routine to Decode HL7 from Consult ;1/8/08 15:00

;;1.0;CLINICAL PROCEDURES;\*\*14\*\*;Apr 01,2004;Build 19

MDWORSR ; HOIFO/NCA - Daily Schedule Studies;7/2/04 12:39 ;5/17/07 16:09

;;1.0;CLINICAL PROCEDURES;\*\*14,11\*\*;Apr 01,2004;Build 67

MDWSETUP ; HOIFO/NCA - Auto Study Check-In Setup ;12/13/07 22:39

;;1.0;CLINICAL PROCEDURES;\*\*14,11\*\*;Apr 01, 2004;Build 67 MDXMLFM ; HOIFO/DP - Fileman -> XML Utilities ; [01-10-2003 09:14]

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102 MDXMLFM1 ; HOIFO/DP/NCA - Data -> XML Utilities ; [01-10-2003 09:14]

;;1.0;CLINICAL PROCEDURES;\*\*6\*\*;Apr 01, 2004;Build 102

Routine Descriptions

File List and Related Information

### CP Definition File - #702.01

#### This file defines all the procedures used by the Clinical Procedures package. All elements that define a procedure are in this file. This file is exported with data, but entries may be added by the site.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Name | 702.01,.01 | Free Text 3-30 characters in length | This field contains the name of the procedure. It should be descriptive of the procedure and contain 3-30 alphanumeric characters. The first character MUST be a letter. To maintain consistency it is recommended that all procedures be entered in  UPPERCASE letters as well. |
| Treating Specialty | 702.01,.02 | Pointer to Facility Treating Specialty  (#45.7) file | This field defines the specialty that this procedure falls under. |
| Require External Data | 702.01,.03 | Set:   1. - No 2. - Yes | Setting this field to Yes will force a consult for this procedure to be processed via the CP User executable for matching whether or not there are instruments  associated with it. |
| Default TIU Note | 702.01,.04 | Pointer to TIU Document Definition  (#8925.1) file | This field contains a TIU Note Title to use as the default when CP creates a note for  interpretation for this procedure. |
| Hospital Location | 702.01,.05 | Pointer to Hospital Location (#44) file | This is the location that will be  used when creating the TIU Note for interpretation. |
| 1Processing  Application | 702.01,.06 | Set:   1. - Default 2. – Hemodialysis | This field is used to indicate if this is a Hemodialysis procedure or not. The field is a set of codes, 1=DEFAULT so it will be processed by Clinical Procedures or 2=HEMODIALYSIS and the procedure will be processed by  the Hemodialysis application. |
| Auto Submit | 702.01,.07 | Set: | This field only applies to bi- |

File List and Related Information

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | 1. - No 2. - Yes | directional instruments. It is used to indicate whether or not the image attachment should be automatically submitted to VistA Imaging once the procedure is performed and the result is passed  to CP. |
| External Data Directory | 702.01,.08 | Free Text 3-150 characters in length | This field contains a reference to a network share where user supplied attachments are located  for this procedure. |
| Active | 702.01,.09 | Set:   1. - No 2. - Yes | Yes/No to indicate active procedures that can be linked to  Consults. |
| Instrument (multiple) | 702.011,.01 | Pointer to CP Instrument  (#702.09) file | Contains a pointer to an instrument that generates results  for this procedure. |
| 1Processed Result | 702.01,.12 | Set:   1. - Final Result 2. - Multiple Results 2 – Cumulative Result | This field is a flag which indicates whether a final result, multiple results, or cumulative result is associated with this  procedure. |

Exported Options

## Remote Procedure Calls (RPC)

NAME: **MD GATEWAY** TAG: RPC

ROUTINE: MDRPCOG RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE VERSION: 1

NAME: **MD TMDOUTPUT** TAG: RPC

ROUTINE: MDRPCOO RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE DESCRIPTION:

Manages the output of VistA data to the client via the default HFS device. INPUT PARAMETER: OPTION PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 30 REQUIRED: YES SEQUENCE NUMBER: 1

DESCRIPTION:

Currently set to EXECUTE as the only option.

INPUT PARAMETER: RTN PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 30 REQUIRED: YES

SEQUENCE NUMBER: 2 DESCRIPTION:

Contains the routine to produce the output. Currently to client produces this parameter in the form of TAG^ROUTINE(needed parameters) to simplify the calling process.

RETURN PARAMETER DESCRIPTION:

Text of the requested report.

NAME: **MD TMDPARAMETER** TAG: RPC

ROUTINE: MDRPCOV RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE DESCRIPTION:

Used to set/retrieve/modify parameters in the Kernel ToolKit PARAMETERS (XPAR) files.

RPC is called as follows:

Param[0] := OPTION

Param[1] := Entity Param[2] := Parameter name Param[3] := Instance Param[4] := Value

INPUT PARAMETER: OPTION PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 10 REQUIRED: YES

SEQUENCE NUMBER: 1 DESCRIPTION:

Contains the option for the RPC. RPC is called as shown: Options and other required parameters include:

ENTVAL ENT

GETPAR ENT,PAR,INST GETLST ENT,PAR

GETWP ENT,PAR,INST SETPAR ENT,PAR,INST,VAL

SETLST ENT,PAR,,.VAL (Uses instance 0-n) SETWP ENT,PAR,INST,.VAL

Exported Options

DELPAR ENT,PAR,INST DELLST ENT,PAR

INPUT PARAMETER: ENTITY PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 20 REQUIRED: NO

SEQUENCE NUMBER: 2 DESCRIPTION:

An entity is a level at which you can define a parameter. The entities allowed are stored in the Parameter Entity file (#8989.518). The list of allowable entities at the time this utility was released were:

|  |  |  |
| --- | --- | --- |
| Prefix | Message | Points to File |
| PKG | Package | Package (9.4) |
| SYS | System | Domain (4.2) |
| DIV | Division | Institution (4) |
| SRV | Service | Service/Section (49) |
| LOC | Location | Hospital Location (44) |
| TEA | Team | Team (404.51) |
| CLS | Class | Usr Class (8930) |
| USR | User | New Person (200) |
| BED | Room-Bed | Room-Bed (405.4) |
| OTL | Team (OE/RR) | OE/RR List (101.21) |

The entity may be referenced as follows:

* 1. The internal variable pointer (nnn;GLO(123,)
  2. The external format of the variable pointer using the 3 character prefix (prefix.entryname)
  3. The prefix alone to set the parameter based on current entity selected. (prefix)

Method 3 uses the following values for the following entities: USR Current value of DUZ

DIV Current value of DUZ(2) SYS System (domain)

PKG Package to which the parameter belongs

INPUT PARAMETER: PAR PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 30 REQUIRED: NO

SEQUENCE NUMBER: 3 DESCRIPTION:

A parameter is the actual name which values are stored under. The name of the parameter must be namespaced and it must be unique. Parameters can be defined to store the typical package parameter data (e.g. the default add order screen), but they can also be used to store GUI application screen settings a user has selected (e.g. font or window width). When a parameter is defined, the entities, which may set that parameter, are also defined. The definition of parameters is stored in the PARAMETER DEFINITION file (#8989.51).

NOTE: This utility restricts the parameter name to those in the Clinical Procedures namespace (MD\*).

INPUT PARAMETER: INST PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 30 REQUIRED: NO

SEQUENCE NUMBER: 4 DESCRIPTION:

Most parameters will set instance to 1. Instances are used when more than one value may be assigned to a given entity/parameter combination. An example of this would be lab collection times at a division. A single division may have multiple collection times. Each collection time would be assigned a unique instance.

INPUT PARAMETER: VAL PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 80 REQUIRED: NO

Exported Options

SEQUENCE NUMBER: 5 DESCRIPTION:

A value may be assigned to every parameter for the entities allowed in the parameter definition. Values are stored in the PARAMETERS file (#8989.5). VAL may be passed in external or internal format. If using internal format for a pointer type parameter, VAL must be preceded with the grave (`) character. If VAL is being assigned to a word processing parameter, the text is passed in the subordinate nodes of VAL (e.g. VAL(0-n)=Text).

RETURN PARAMETER DESCRIPTION:

Returns requested data from the specified option.

NAME: **MD TMDPATIENT** TAG: RPC

ROUTINE: MDRPCOP RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE

NAME: **MD TMDPROCEDURE** TAG: RPC

ROUTINE: MDRPCOD RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE

NAME: **MD TMDRECORDID** TAG: RPC

ROUTINE: MDRPCOR RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE DESCRIPTION:

General RPC for VA Fileman functions.

Param 1 is passed in as the function to perform and includes the following:

LOOKUP: Performs very generic file lookup functionality VALIDATE: Validates input to a fileman field and saves to FDA DELREC: Validates ability to delete and if able deletes a record SETFDA: Validates input and stores in FDA

SAVEFDA: Saves any data stored in FDA

CLEARFDA: Clears any data in the FDA without saving GETDATA: Retrieves a single field value

GETCODES: Retrieves the set of codes for a field GETLABEL: Retrieves a fields TITLE or LABEL if no Title GETIDS: Returns required identifiers for a DD Number GETHELP: Returns Fileman help for a field

RENAME: Validates and renames .01 field if valid NEWREC: Creates a new record

CHANGES: Returns 0/1 if changes exist in FDA CHKVER: Version check Client <-> Server LOCK: Locks a record by DD and IENS UNLOCK: Unlocks record locked by LOCK option

INPUT PARAMETER: OPTION PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 30 REQUIRED: YES

SEQUENCE NUMBER: 1 DESCRIPTION:

See description of RPC.

INPUT PARAMETER: DDNUM PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 10 REQUIRED: NO

SEQUENCE NUMBER: 2 DESCRIPTION:

Contains the Data Dictionary number of the item being manipulated. INPUT PARAMETER: IENS PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 20 REQUIRED: NO

Exported Options

SEQUENCE NUMBER: 3 DESCRIPTION:

Contains the IENS of the record being manipulated.

INPUT PARAMETER: FLD PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 10 REQUIRED: NO

SEQUENCE NUMBER: 4 DESCRIPTION:

Contains field specifications for the record.

INPUT PARAMETER: DATA PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 30 REQUIRED: NO

SEQUENCE NUMBER: 5 DESCRIPTION:

Contains any other needed information for the call. RETURN PARAMETER DESCRIPTION:

Returns global array of requested data or status.

NAME: **MD TMDTRANSACTION** TAG: RPC

ROUTINE: MDRPCOT RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE

NAME: **MD TMDUSER** TAG: RPC

ROUTINE: MDRPCOU RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE DESCRIPTION:

Manages the VistA interface to the TMDUser object.

Available options:

SIGNON Connects session to the server and attempts signon. ESIG Verifies passed e-sig.

CHKVER Verifies client version is compatible with server. INPUT PARAMETER: OPTION PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 30 REQUIRED: YES SEQUENCE NUMBER: 1

DESCRIPTION:

See RPC description.

INPUT PARAMETER: DATA PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 250 REQUIRED: NO

SEQUENCE NUMBER: 2 DESCRIPTION:

Required data for selected option. RETURN PARAMETER DESCRIPTION:

Returns global array of status or requested data.

NAME: **MD UTILITIES** TAG: RPC

ROUTINE: MDRPCU RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE VERSION: 1

1NAME: **MD TMDCIDC** TAG: RPC

ROUTINE: MDRPCW RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED INACTIVE: ACTIVE

WORD WRAP ON: TRUE VERSION: 1 DESCRIPTION:

This RPC will do the following:

1 Patch MD\*1.0\*6 May 2008 RPCs added.

Exported Options

Input Parameter: RESULTS - (Both Input/Output) Passed in as the array to

return the results.

OPTION - (Input) PROC - obtain a list of Procedures

defined for a clinic.

DIAG - obtain a list of diagnosis defined for a clinic.

SCDISP - Obtain the patient's service connection and rated

disability.

DFN - (Input) Patient internal entry number MDSTUD - (Input) CP Study internal entry number

RETURN PARAMETER DESCRIPTION:

* D RPC^MDRPCW(.RESULTS,"PROC",162,212)
* ZW RESULTS RESULTS=^TMP("MDRPCW",539023945)

@RESULTS@(0)=count of array element (0 if nothing found) @RESULTS@(1)=^group header

@RESULTS@(2) = P1 := cpt or icd code / ien of other items P2 := user defined text

P6 := user defined expanded text to send to PCE P7 := second code or item defined for line item P8 := third code or item defined for line item P9 := associated clinical lexicon term

* D ^%G

Global ^TMP("MDRPCW",$J

TMP("MDRPCW",$J

^TMP("MDRPCW",539023945,0) = 7

^TMP("MDRPCW",539023945,1) = ^PFT PROCEDURES

^TMP("MDRPCW",539023945,2) = G0125^Lung image (PET) ^^^^^^^

^TMP("MDRPCW",539023945,3) = S9473^Pulmonary rehabilitation pro^^^^^^^

^TMP("MDRPCW",539023945,4) = S2060^Lobar lung transplantation ^^^^^^^

^TMP("MDRPCW",539023945,5) = S2060^Lobar lung transplantation ^^^^^^^

^TMP("MDRPCW",539023945,6) = A4480^Vabra aspirator ^^^^^^^

^TMP("MDRPCW",539023945,7) = 43450^DILAT ESOPH-SOUND/BOUGIE-1/M^^^^^^^

Global ^

* D RPC^MDRPCW(.RESULTS,"DIAG",162,212)
* D ^%G

Global ^TMP("MDRPCW",$J

TMP("MDRPCW",$J

^TMP("MDRPCW",539023945,0) = 31

^TMP("MDRPCW",539023945,1) = ^PFT

^TMP("MDRPCW",539023945,2) = 397.1^RHEUM PULMON VALVE DIS^^^^^^^269587

^TMP("MDRPCW",539023945,3) = 417.1^PULMON ARTERY ANEURYSM^^^^^^^269688

^TMP("MDRPCW",539023945,4) = 417.8^PULMON CIRCULAT DIS NEC^^^^^^^269690

^TMP("MDRPCW",539023945,5) = 417.9^PULMON CIRCULAT DIS NOS^^^^^^^269691

^TMP("MDRPCW",539023945,6) = 424.3^PULMONARY VALVE DISORDER^^^^^^^101164

^TMP("MDRPCW",539023945,7) = 516.1^IDIO PULM HEMOSIDEROSIS^^^^^^^61083

^TMP("MDRPCW",539023945,8) = 746.01^CONG PULMON VALV ATRESIA^^^^^^^265805

^TMP("MDRPCW",539023945,9) = 673.82^PULM EMBOL NEC-DEL W P/P^^^^^^^271756

^TMP("MDRPCW",539023945,10) = 747.3^PULMONARY ARTERY ANOM^^^^^^^27406

^TMP("MDRPCW",539023945,11) = 770.3^NB PULMONARY HEMORRHAGE^^^^^^^273240

^TMP("MDRPCW",539023945,12) = 794.2^ABN PULMONARY FUNC STUDY^^^^^^^273442

Exported Options

^TMP("MDRPCW",539023945,13) = 901.41^INJURY PULMONARY ARTERY^^^^^901.42^^275136

^TMP("MDRPCW",539023945,14) = 162.3^MAL NEO UPPER LOBE LUNG^^^^^162.4^162.5^73534

^TMP("MDRPCW",539023945,15) = 235.7^UNC BEHAV NEO LUNG^^^^^^^267754

^TMP("MDRPCW",539023945,16) = 875.0^OPEN WOUND OF CHEST^^^^^^^274991

^TMP("MDRPCW",539023945,17) = 162.9^MAL NEO BRONCH/LUNG NOS^^^^^^^73521

^TMP("MDRPCW",539023945,18) = 786.6^CHEST SWELLING/MASS/LUMP^^^^^^^273380

^TMP("MDRPCW",539023945,19) = 518.89^OTHER DISEASE OF LUNG, NEC^^^^^^^87486

^TMP("MDRPCW",539023945,20) = ^BRONCHOSCOPY

^TMP("MDRPCW",539023945,21) = 012.20^ISOL TRACHEAL TB- UNSPEC^^^^^012.21^^266107

^TMP("MDRPCW",539023945,22) = 012.22^ISOL TRACH TB-EXAM UNKN^^^^^^^266109

^TMP("MDRPCW",539023945,23) = 012.23^ISOLAT TRACH TB-MICRO DX^^^^^^^266110

^TMP("MDRPCW",539023945,24) = 012.24^ISOL TRACHEAL TB-CULT DX^^^^^^^266111

^TMP("MDRPCW",539023945,25) = 748.61^CONGEN BRONCHIECTASIS^^^^^^^265478

^TMP("MDRPCW",539023945,26) = 011.50^TB BRONCHIECTASIS- UNSPEC^^^^^011.51^^266056

^TMP("MDRPCW",539023945,27) = 784.1^THROAT PAIN^^^^^^^276881

^TMP("MDRPCW",539023945,28) = 784.8^HEMORRHAGE FROM THROAT^^^^^^^273371

^TMP("MDRPCW",539023945,29) = 034.0^STREP SORE THROAT^^^^^^^114610

^TMP("MDRPCW",539023945,30) = 466.11^AC. BRONCH/RESP SYNCYT V

(RSV)^^^^^466.19^

^304309

^TMP("MDRPCW",539023945,31) = 530.10^ESOPHAGITIS, UNSP.^^^^^^^295809

Global ^

* D RPC^MDRPCW(.RESULTS,"SCDISP",17,212)

@RESULTS@(n)="Lines of text"

* D ^%G

Global ^TMP("MDRPCW",$J

TMP("MDRPCW",$J

^TMP("MDRPCW",539023945,1) = Service Connected: 50%

^TMP("MDRPCW",539023945,2) = Rated Disabilities: NONE STATED

Global ^

NAME: **MD TMDENCOUNTER** TAG: GETENC

ROUTINE: MDRPCW1 RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE VERSION: 1

DESCRIPTION:

This remote procedure will return the existing data in an encounter. INPUT PARAMETER: STUDY PARAMETER TYPE: REFERENCE

REQUIRED: YES SEQUENCE NUMBER: 1 DESCRIPTION:

This is the CP Study internal entry number. RETURN PARAMETER DESCRIPTION:

The result is returned in ^TMP("MDENC",$J) global.

^TMP("MDENC",$J,1)="SC";0/1^0/1;"AO";0/1^0/1;"IR";0/1^0/1;"EC";0/1^0/ 1;"MST";0/1^0/1;"HNC";0/1^0/1;"CV";0/1^0/1

P1 = "SC" - Service Connected

P2 = first "^" piece 1 if the condition can be answered

0 if the condition should be null not asked

second "^" piece - If Scheduling has the answer, 1 = yes 0 = no P3 = "AO" - Agent Orange Exposure

Exported Options

P4 = first "^" piece 1 if the condition can be answered

0 if the condition should be null not asked

second "^" piece - If Scheduling has the answer, 1 = yes 0 = no P5 = "IR" - Ionizing Radiation Exposure

P6 = first "^" piece 1 if the condition can be answered

0 if the condition should be null not asked

second "^" piece - If Scheduling has the answer, 1 = yes 0 = no P7 = "EC" - Environmental Contaminants

P8 = first "^" piece 1 if the condition can be answered

0 if the condition should be null not asked

second "^" piece - If Scheduling has the answer, 1 = yes 0 = no P9 = "HNC" - Head and/or Neck Cancer

P10 = first "^" piece 1 if the condition can be answered

0 if the condition should be null not asked

second "^" piece - If Scheduling has the answer, 1 = yes 0 = no P11 = "MST" - Military Sexual Trauma

P12 = first "^" piece 1 if the condition can be answered

0 if the condition should be null not asked

second "^" piece - If Scheduling has the answer, 1 = yes 0 = no P13 = "CV" - Combat Veteran

P14 = first "^" piece 1 if the condition can be answered

0 if the condition should be null not asked second "^" piece - If Scheduling has the answer, 1 = yes 0 = no

^TMP("MDENC",$J,n)="PRV"^CODE^^NARR^^Primary (1=Yes,0=No) P1 = "PRV"- Provider segment

P2 = CODE - New Person internal Entry Number P3 = Null

P4 = NARR - Provider name P5 = Null

P6 = Primary - 1/0/null (1=Yes,0/Null=No)

="POV"^ICD9 IEN^ICD9 CODE^provider narrative category^ provider narrative (Short Description)^Primary (1=Yes,0/Null=No)

P1 = "POV" - ICD segment

P2 = ICD internal entry number P3 = ICD9 Code

P4 = Provider Narrative Category P5 = Short Description

P6 = Primary - 1/0/null (1=Yes,0/Null=No)

="CPT"^CPT IEN^CPT CODE^provider narrative category^ provider narrative (Short Description)^^Quantity

P1 = "CPT" - CPT segment

P2 = CPT internal entry number P3 = CPT Code

P4 = Provider Narrative Category (CPT Category Grouping) P5 = Short Description

P6 = null

P7 = Quantity

NAME: **MD TMDLEX** TAG: LEX

ROUTINE: MDRPCW1 RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE VERSION: 1

DESCRIPTION:

This RPC will return a list of CPT or ICD for a search typed in. INPUT PARAMETER: MDSRCH PARAMETER TYPE: REFERENCE

Exported Options

REQUIRED: YES SEQUENCE NUMBER: 1 DESCRIPTION:

This is the text typed in for the look-up.

INPUT PARAMETER: MDAPP PARAMETER TYPE: REFERENCE REQUIRED: YES SEQUENCE NUMBER: 2

DESCRIPTION:

This is the application indicator. It is either "CPT" or "ICD". RETURN PARAMETER DESCRIPTION:

^TMP("MDLEX",$J,#)=P1 - CPT/ICD Code

P2 - Internal Entry Number P3 - Lexicon text

>D LEX^MDRPCW1(.RESULTS,"BORE","CPT")

>ZW RESULTS RESULTS="^TMP("MDLEX",539152953)"

>D ^%G

Global ^TMP("MDLEX",$J -- NOTE: translation in effect

^TMP("MDLEX",539152953,1)=86618^302213^Borella Burgdorferi (Lyme Disease) Antibody (CP T-4 86618)

NAME: **MD TMDNOTE** TAG: RPC

ROUTINE: MDRPCNT RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED INACTIVE: ACTIVE

WORD WRAP ON: TRUE VERSION: 1 DESCRIPTION:

This remote procedure call does the following:

Accepts the following Inputs:

RESULTS - Both (Input and Output) - Passed in as the array to return results in.

OPTION - NEWDOC = Add additional new document to the Hemodialysis study.

NOTELIST = Returns a list of documents associated with the study. The pieces returned are: Note IEN, Note title, Date/Time Creation, Author, and Hospital Location.

VIEWTIU = Return the text lines of a document from NOTELST. MDSID - Study internal Entry Number.

MDTIU - TIU Document Internal Entry Number. MDDTE - Date/Time of Document Creation.

MDAUTH - Author of document.

MDESIG - Encrypted Electronic Signature. MDTXT - Text of the new document in an array.

Return Results are the following:

Exported Options

OPTION = NEWDOC

* D RPC^MDRPCNT(.RESULTS,"NEWDOC",904,"",3050524.0915,679,74RHLld;flk,MDTXT)
* D ^%G

Global ^TMP("MDKUTL",$J

TMP("MDKUTL",$J

^TMP("MDKUTL",538992716,0) = Note internal entry number or -1^Error Message OPTION = NOTELIST

* D RPC^MDRPCNT(.RESULTS,"NOTELST",476)
* D ^%G

Global ^TMP("MDKUTL",$J

TMP("MDKUTL",$J

^TMP("MDKUTL",538992716,1) = 968^PROCEDURE NOTE^OCT 10, 2001@17:08:36

^MDPROVIDER,ONE ^PROSTHETICS

^TMP("MDKUTL",538992716,2) = 969^PROCEDURE NOTE^OCT 10, 2001@17:10:44^^PROSTHET

I

CS

^TMP("MDKUTL",538992716,3) = 970^PROCEDURE NOTE^OCT 10, 2001@17:11:50^^PROSTHET

I

CS

^TMP("MDKUTL",538992716,4) = 971^PROCEDURE NOTE^OCT 10, 2001@17:15:45^^PROSTHET

I

CS

^TMP("MDKUTL",538992716,5) = 972^PROCEDURE NOTE^OCT 10, 2001@17:16:34^^PROSTHET

I

CS

^TMP("MDKUTL",538992716,6) = 974^PROCEDURE NOTE^OCT 11, 2001@10:56:03^^PROSTHET

I

CS

^TMP("MDKUTL",538992716,7) = 975^PROCEDURE NOTE^OCT 11, 2001@12:50:29^^PROSTHET

I

CS

Global ^

OPTION = VIEWTIU

* D RPC^MDRPCNT(.RESULTS,"VIEWTIU",476,968)
* D ^%G

Global ^TMP("TIUVIEW",$J

TMP("TIUVIEW",$J

^TMP("TIUVIEW",538992716,1) = TITLE: PROCEDURE NOTE

^TMP("TIUVIEW",538992716,2) = DATE OF NOTE: OCT 10, 2001@17:08:36 ENTRY DATE:

O

Exported Options

CT 10, 2001@17:08:36

^TMP("TIUVIEW",538992716,3) = AUTHOR: MDPROVIDER,ONE EXP COSIGNER:

^TMP("TIUVIEW",538992716,4) = URGENCY: STATUS:

C

OMPLETED

^TMP("TIUVIEW",538992716,5) =

^TMP("TIUVIEW",538992716,6) = PROCEDURE SUMMARY CODE: Abnormal

^TMP("TIUVIEW",538992716,7) = DATE/TIME PERFORMED: OCT 15, 2001

^TMP("TIUVIEW",538992716,8) =

^TMP("TIUVIEW",538992716,9) = \*\*\* PROCEDURE NOTE Has ADDENDA \*\*\*

^TMP("TIUVIEW",538992716,10) =

^TMP("TIUVIEW",538992716,11) = Complete consult 1104. 6 attached images.

^TMP("TIUVIEW",538992716,12) =

^TMP("TIUVIEW",538992716,13) = /es/ MDPROVIDER,ONE

^TMP("TIUVIEW",538992716,14) =

^TMP("TIUVIEW",538992716,15) = Signed: 10/15/2001 13:02

^TMP("TIUVIEW",538992716,16) =

^TMP("TIUVIEW",538992716,17) = 10/15/2001 ADDENDUM STATUS:

COMPLETED

^TMP("TIUVIEW",538992716,18) = aDDENDUM LA LA LA

^TMP("TIUVIEW",538992716,19) = LA LA LA

^TMP("TIUVIEW",538992716,20) =

^TMP("TIUVIEW",538992716,21) = /es/ MDPROVIDER,ONE

^TMP("TIUVIEW",538992716,22) =

^TMP("TIUVIEW",538992716,23) = Signed: 10/15/2001 13:04

NAME: **MD TMDSUBMITU** TAG: RPC

ROUTINE: MDRPCOWU RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE VERSION: 1

NAME: **MD TMDWIDGET** TAG: RPC

ROUTINE: MDRPCOW RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE VERSION: 1

NAME: **MDK GET VISTA DATA** TAG: RPC

ROUTINE: MDKRPC1 RETURN VALUE TYPE: ARRAY

AVAILABILITY: RESTRICTED INACTIVE: ACTIVE

INPUT PARAMETER: OPTION PARAMETER TYPE: LITERAL MAXIMUM DATA LENGTH: 8 REQUIRED: YES

SEQUENCE NUMBER: 1 DESCRIPTION:

This is the routine tag that will be called to retrieve the data. INPUT PARAMETER: DATA PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 50 REQUIRED: YES SEQUENCE NUMBER: 2

DESCRIPTION:

This is whatever data is needed by the subroutine to process the request for data. In many cases it will be a single value (e.g., patient id - DFN).

Exported Options

RETURN PARAMETER DESCRIPTION:

Returns an array.

RESULT(0)=number or RESULT(0)=-1^error message RESULT(1)=data

RESULT(n)=data

If data is not found, RESULT(0) will be contain a "-1" in the first piece and an error message in the second piece.

If data is found, RESULT(0) will contain a number that indicates how many entries are returned.

RESULT(1) through RESULT(n) will contain the data that is found.

NAME: **MDK GET/SET RENAL DATA** TAG: RPC

ROUTINE: MDKRPC2 RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE

NAME: **MDK UTILITY** TAG: RPC

ROUTINE: MDKUTLR RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED WORD WRAP ON: TRUE

Exported Options

## Parameter Definitions

##### NAME: MD ALLOW EXTERNAL ATTACHMENTS

DISPLAY TEXT: Allow non-instrument attachments

MULTIPLE VALUED: No VALUE TERM: Allowed VALUE DATA TYPE: yes/no

DESCRIPTION:

Set this value to Yes to allow users of CPUser.exe to attach documents to the transaction that are not created by an instrument.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

1NAME: **MD APPOINT END DATE**

DISPLAY TEXT: End Date for Encounter Appointments MULTIPLE VALUED: No VALUE TERM: Days

VALUE DATA TYPE: numeric VALUE DOMAIN: 0:365

VALUE HELP: Enter a number from 0 to 365. DESCRIPTION:

Enter a number from 0 to 365 for the number of days that will be used to add to today as the end date range of the Encounter Appointments. If no value is entered, the default value used will be 0.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD APPOINT START DATE**

DISPLAY TEXT: Start Date for Encounter Appointments MULTIPLE VALUED: No VALUE TERM: Days

VALUE DATA TYPE: numeric VALUE DOMAIN: 0:365

VALUE HELP: Enter a number from 0 to 365. DESCRIPTION:

Enter a number from 0 to 365 for the number of days that will be used to subtract from today as the start date range of the Encounter

Appointments. If no value is entered, the default value used will be 200.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

##### NAME: MD COMPL PROC DISPLAY DAYS

DISPLAY TEXT: Completed Proc Display Days

MULTIPLE VALUED: No VALUE TERM: Days

VALUE DATA TYPE: numeric VALUE DOMAIN: 1:365

VALUE HELP: Enter the number of days from 1 to 365 DESCRIPTION:

The number of days the completed procedure requests will be displayed in the CP Check-in screen.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

2NAME: **MD CHECK-IN PROCEDURE LIST** DISPLAY TEXT: Check-in Procedure List MULTIPLE VALUED: Yes INSTANCE TERM: Procedure

VALUE TERM: Schedule Appointment? VALUE DATA TYPE: set of codes VALUE DOMAIN: 0:None;1:Outpatient;2:Inpatient;3:Both

1 Patch MD\*1.0\*6 May 2008 Parameter Definitions added.

2 Patch MD\*1.0\*14 March 2008 Parameter Definitions added.

Exported Options

VALUE HELP: Enter 0 for None, 1 for Outpatient, 2 for Inpatient, or 3 for both.

INSTANCE DATA TYPE: pointer INSTANCE DOMAIN: 702.01

INSTANCE HELP: Enter procedures that needs the study to be auto checked-in. INSTANCE SCREEN CODE: I +$P(^MDS(702.01,+Y,0),"^",9)>0

DESCRIPTION:

This parameter contains a list of procedures that will be used

to auto check-in the CP studies during the procedures request in CPRS and whether appointments are scheduled for the procedure.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD CLINIC QUICK LIST** DISPLAY TEXT: Clinic Quick List For CP MULTIPLE VALUED: Yes INSTANCE TERM: Clinic

VALUE TERM: Procedure VALUE DATA TYPE: pointer VALUE DOMAIN: 702.01

VALUE HELP: Select a procedure for the clinic.

INSTANCE DATA TYPE: pointer INSTANCE DOMAIN: 44

INSTANCE HELP: Enter clinics that need CP studies to be checked-in. DESCRIPTION:

List of clinics used as a source to get a list of patients that need to have CP studies checked-in. This only applies to studies with procedures that have multiple results such as Hemodialysis, Respiratory Therapy, and sleep studies.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

##### NAME: MD CLINICS WITH MULT PROC

DISPLAY TEXT: Clinics With Multiple Procedures

MULTIPLE VALUED: Yes INSTANCE TERM: Procedure

VALUE TERM: Clinic VALUE DATA TYPE: pointer VALUE DOMAIN: 44

VALUE HELP: Enter a clinic for the procedure.

INSTANCE DATA TYPE: pointer INSTANCE DOMAIN: 702.01

INSTANCE HELP: Enter a procedure.

INSTANCE SCREEN CODE: I +$P(^MDS(702.01,+Y,0),"^",9)>0 DESCRIPTION:

If you have a clinic for multiple procedures, populate this parameter with the procedure and associate it to a clinic.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

1NAME: **MD CLINIC ASSOCIATION** DISPLAY TEXT: MD Clinic Association MULTIPLE VALUED: Yes INSTANCE TERM: Sequence

VALUE TERM: Clinic;Procedure Association Value

PROHIBIT EDITING: No VALUE DATA TYPE: free text INSTANCE DATA TYPE: numeric INSTANCE DOMAIN: 1:9999

INSTANCE HELP: Enter the sequence to associate a clinic and procedure. DESCRIPTION:

This parameter is used to identify the clinic and procedure association. Each item should be entered with the following format

Clinic internal entry number\_";"\_Procedure internal entry number PRECEDENCE: 1 ENTITY FILE: SYSTEM

Exported Options

NAME: **MD CRC BYPASS** DISPLAY TEXT: Bypass CRC Checking MULTIPLE VALUED: No VALUE TERM: Bypass CRC Checking VALUE DATA TYPE: yes/no

DESCRIPTION:

Set this value to 'Yes' to prevent the client application from verifying its CRC Value at startup.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD CRC VALUES**

DISPLAY TEXT: Clinical Procedures CRC Values MULTIPLE VALUED: Yes

INSTANCE TERM: Executable or Library Name

VALUE TERM: CRC Value PROHIBIT EDITING: No

VALUE DATA TYPE: free text VALUE DOMAIN: 1:15 INSTANCE DATA TYPE: free text INSTANCE DOMAIN: 1:30

DESCRIPTION:

This parameter is used to store the CRC values for the most recent versions of executable and libraries. Use the Tools menu on the CPManager program to calculate the needed CRC Values of the current versions.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

##### NAME: MD DAYS FOR INSTRUMENT DATA

DISPLAY TEXT: Temporary instrument data life (Days) MULTIPLE VALUED: No VALUE TERM: Days

PROHIBIT EDITING: No VALUE DATA TYPE: numeric VALUE DOMAIN: 0:365

DESCRIPTION:

The number of days to keep data from the auto-instruments after the data has been associated with a Clinical Procedures report.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

1NAME: **MD DAYS TO RETAIN COM STUDY**

DISPLAY TEXT: Days to Retain Completed Study

MULTIPLE VALUED: No VALUE TERM: Days

PROHIBIT EDITING: No VALUE DATA TYPE: numeric VALUE DOMAIN: 1:365

VALUE HELP: Enter the number of days from 1 to 365 DESCRIPTION:

The number of days after check-in date/time to display the study that has been complete in the CPUser application. Studies that have procedures with multiple or cumulative results are NOT included.

Cumulative and multiple results studies will have a default value of 365.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD FILE EXTENSIONS** DISPLAY TEXT: Imaging File Types MULTIPLE VALUED: Yes INSTANCE TERM: Extension

VALUE TERM: File type PROHIBIT EDITING: No

VALUE DATA TYPE: free text VALUE DOMAIN: 1:80

VALUE HELP: Enter a description of this file type

INSTANCE DATA TYPE: free text INSTANCE DOMAIN: 2:10

INSTANCE HELP: Enter the extension of the file type with a '.' INSTANCE VALIDATION CODE: K:X'?1".".9ULN X

Exported Options

DESCRIPTION:

This parameter stores a list of valid file types and the associated extensions of these files.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD GATEWAY** DISPLAY TEXT: CP Gateway Parameters MULTIPLE VALUED: Yes INSTANCE TERM: Parameter Name

VALUE TERM: Parameter Value VALUE DATA TYPE: free text VALUE DOMAIN: 1:255 INSTANCE DATA TYPE: free text INSTANCE DOMAIN: 1:255

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD HFS SCRATCH**

DISPLAY TEXT: VistA Scratch HFS Directory

MULTIPLE VALUED: No VALUE TERM: Directory name

VALUE DATA TYPE: free text VALUE DOMAIN: 1:250

VALUE HELP: Enter in an OS level directory DESCRIPTION:

Contains the directory specification for the Kernel OPEN^%ZISH call. This directory should be accessible for read/write operations by all CP users.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD IMAGING XFER** DISPLAY TEXT: Imaging Network Share MULTIPLE VALUED: No VALUE TERM: Imaging Network Share

VALUE DATA TYPE: free text VALUE DOMAIN: 1:250 DESCRIPTION:

This parameter contains the name of a network server, share, and path (UNC) to a location where Clinical Procedures can put files for pick-up by the Imaging background processor for archiving.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

1 NAME: **MDK APPLICATION INSTALL** DISPLAY TEXT: MDK Application Install

MULTIPLE VALUED: Yes

INSTANCE TERM: Installation Distribution Info

VALUE TERM: Distribution Info Value PROHIBIT EDITING: No VALUE DATA TYPE: free text VALUE DOMAIN: 1:250 INSTANCE DATA TYPE: free text INSTANCE DOMAIN: 1:250

DESCRIPTION:

This parameter is used to store the Hemodialysis application distribution information. The information includes the following:

1. Date/Time when application first launched.
2. User Name
3. System Option Loaded (Y/N)
4. Workstation of where the application was launched. PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MDK GUI VERSION**

DISPLAY TEXT: Hemodialysis Version Compatibility

MULTIPLE VALUED: Yes INSTANCE TERM: Application:Version VALUE TERM: Compatible with current server version

PROHIBIT EDITING: No VALUE DATA TYPE: yes/no INSTANCE DATA TYPE: free text INSTANCE DOMAIN: 1:40

Exported Options

DESCRIPTION:

This parameter is used to store the application:versions that are compatible with the current server version of Hemodialysis. Instance format

of APPLICATION:VERSION (example: HEMODIALYSIS.EXE:0.0.0.0). PRECEDENCE: 1 ENTITY FILE: SYSTEM

1NAME: **MD MEDICINE CONVERTED** DISPLAY TEXT: Medicine Package

Converted

MULTIPLE VALUED: No VALUE TERM: Yes/No

PROHIBIT EDITING: No VALUE DATA TYPE: yes/no DESCRIPTION:

Used to determine if the Medicine Package has been converted. PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD OFFLINE MESSAGE** DISPLAY TEXT: Offline message

MULTIPLE VALUED: No VALUE TERM: Offline Message VALUE DATA TYPE: word processing

DESCRIPTION:

This parameter contains a message to display to the users when the Clinical Procedures application is offline.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

2NAME: **MD OLYMPUS 7** DISPLAY TEXT: MD OLYMPUS 7 MULTIPLE VALUED: No VALUE TERM: Yes/No

PROHIBIT EDITING: No VALUE DATA TYPE: yes/no

VALUE HELP: Enter Yes/No whether you have Olympus version 7.3.7. DESCRIPTION:

This parameter definition indicates whether the Olympus device is version 7.3.7. The value is Yes/No. The default value

is "No".

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD ONLINE**

DISPLAY TEXT: Clinical Procedure Online/Offline MULTIPLE VALUED: No

VALUE TERM: Is Clinical Procedures Online

PROHIBIT EDITING: No VALUE DATA TYPE: yes/no

VALUE HELP: Enter 'Yes' to allow access to CP DESCRIPTION:

This parameter controls access to the Clinical Procedures package. PRECEDENCE: 1 ENTITY FILE: SYSTEM

3NAME: **MD USE APPOINTMENT** DISPLAY TEXT: Use Appointment

Location

MULTIPLE VALUED: No VALUE TERM: Use Appointment location VALUE DATA TYPE: yes/no

DESCRIPTION:

Set this value to Yes to allow CPUser to use the location of the appointment selected during CP study check-in for the workload. Otherwise, the hospital location of the CP Definition will be used.

1 Patch MD\*1.0\*5 August 2006 Parameter Definition added.

2 Patch MD\*1.0\*11 June 2009 Parameter Definition added.

Exported Options

Enter RETURN to continue or '^' to exit:

If no value is entered, the default value is No. PRECEDENCE: 1 ENTITY FILE: SYSTEM

1NAME: **MD USE APPT WITH PROCEDURE**

DISPLAY TEXT: Use Appointment With Procedure MULTIPLE VALUED: No

VALUE TERM: Use appointment with procedure

PROHIBIT EDITING: No VALUE DATA TYPE: yes/no DESCRIPTION:

Enter "Y" or "N" for Yes/No on whether your site selects the appointment scheduled for outpatients during the procedure request in CPRS.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD USER DEFAULTS** DISPLAY TEXT: CP User Defaults

MULTIPLE VALUED: Yes INSTANCE TERM: Parameter setting VALUE TERM: Parameter value PROHIBIT EDITING: No

VALUE DATA TYPE: free text VALUE DOMAIN: 1:250 INSTANCE DATA TYPE: free text INSTANCE DOMAIN: 1:250

DESCRIPTION:

This parameter is used to store a users default parameter settings. Each setting is defined on the client.

PRECEDENCE: 1 ENTITY FILE: USER

NAME: **MD VERSION CHK** DISPLAY TEXT: Version Compatibility MULTIPLE VALUED: Yes INSTANCE TERM: Application:Version VALUE TERM: Compatible with current server version

PROHIBIT EDITING: No VALUE DATA TYPE: yes/no INSTANCE DATA TYPE: free text INSTANCE DOMAIN: 1:30

DESCRIPTION:

This parameter is used to store the application:versions that are compatible with the current server version of Clinical Procedures. Instance format

of APPLICATION:VERSION (example: CPMANAGER.EXE:0.0.0.0). PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD WEBLINK**

DISPLAY TEXT: Clinical Procedures Home Page

MULTIPLE VALUED: No VALUE TERM: Web Address

VALUE DATA TYPE: free text VALUE DOMAIN: 1:250 DESCRIPTION:

This parameter contains the web address for the Clinical Procedures home page. This can be modified to a local address in the event that the pages are downloaded to be displayed from a local server location.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

Exported Options

## Protocols

NAME: **MCAR Device Client** ITEM TEXT: Instrument Device Client TYPE: subscriber CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: MEDICINE

DESCRIPTION: Subscriber protocol for sending data to Vista from clinical instruments.

TIMESTAMP: 59276,54156 RECEIVING APPLICATION: MCAR-INST TRANSACTION MESSAGE TYPE: ORU EVENT TYPE: R01

PROCESSING ID: P LOGICAL LINK: MCAR INST

VERSION ID: 2.3 RESPONSE MESSAGE TYPE: ACK PROCESSING ROUTINE: D ^MDHL7A SENDING FACILITY REQUIRED?: NO RECEIVING FACILITY REQUIRED?: NO

NAME: **MCAR Device Server** ITEM TEXT: Instrument HL7 Event Driver TYPE: event driver CREATOR: ACKERMAN,NIEN-CHIN

PACKAGE: MEDICINE

DESCRIPTION: This protocol is used by the HL7 package to send results to Vista from various clinical instrumentation.

TIMESTAMP: 59276,54156 SENDING APPLICATION: INST-MCAR TRANSACTION MESSAGE TYPE: ORU EVENT TYPE: R01

PROCESSING ID: P VERSION ID: 2.3

SENDING FACILITY REQUIRED?: NO RECEIVING FACILITY REQUIRED?: NO

SUBSCRIBERS: MCAR Device Client

NAME: **MCAR ORM CLIENT** TYPE: subscriber

CREATOR: ACKERMAN,NIEN-CHIN RECEIVING APPLICATION: INST-MCAR EVENT TYPE: O02 RESPONSE MESSAGE TYPE: ORR SENDING FACILITY REQUIRED?: NO RECEIVING FACILITY REQUIRED?: NO SECURITY REQUIRED?: NO ROUTING LOGIC: Q

NAME: **MCAR ORM SERVER**

ITEM TEXT: Clinical Procedures ORM Protocol Server

TYPE: event driver CREATOR: ACKERMAN,NIEN-CHIN

TIMESTAMP: 59276,54156 SENDING APPLICATION: MCAR-INST TRANSACTION MESSAGE TYPE: ORM EVENT TYPE: O01

VERSION ID: 2.3 SUBSCRIBERS: MCAR ORM CLIENT

1NAME: **MD RECEIVE GMRC**

ITEM TEXT: Clinical Procedures receives messages from Consult TYPE: action CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This protocol receives messages from Consult. (IA 3140) ENTRY ACTION: D EN^MDWORC(.XQORMSG) TIMESTAMP: 60934,38793

NAME: **MD RECEIVE OR**

ITEM TEXT: Clinical Procedures receives order msgs from CPRS TYPE: action CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This protocol receives order messages from CPRS. (IA 3135) ENTRY ACTION: D EN^MDWOR(.XQORMSG) TIMESTAMP: 60934,38793

Exported Options

## HL7 Application Parameters

NAME: **INST-MCAR** ACTIVE/INACTIVE: ACTIVE COUNTRY CODE: USA HL7 ENCODING CHARACTERS: ^~\& HL7 FIELD SEPARATOR: |

NAME: **MCAR-INST** ACTIVE/INACTIVE: ACTIVE FACILITY NAME: VISTA MAIL GROUP: POSTMASTER

COUNTRY CODE: USA HL7 ENCODING CHARACTERS: ^~\& HL7 FIELD SEPARATOR: |

Exported Options

## HL Logical Links

NODE: **MCAR INST** LLP TYPE: TCP

DEVICE TYPE: Single-threaded Server STATE: Reading

AUTOSTART: Enabled TIME STARTED: MAR 04, 2004@06:46:17

TASK NUMBER: 526320 SHUTDOWN LLP ?: NO QUEUE SIZE: 100

RE-TRANSMISSION ATTEMPTS: 3 READ TIMEOUT: 60

ACK TIMEOUT: 60 EXCEED RE-TRANSMIT ACTION: ignore

TCP/IP PORT: 9026 TCP/IP SERVICE TYPE: SINGLE LISTENER

PERSISTENT: NO STARTUP NODE: DEV:ISC4A1

IN QUEUE BACK POINTER: 331 IN QUEUE FRONT POINTER: 331 OUT QUEUE BACK POINTER: 220 OUT QUEUE FRONT POINTER: 210

NODE: **MCAR OUT** LLP TYPE: TCP

DEVICE TYPE: Non-Persistent Client STATE: Openfail

AUTOSTART: Enabled TIME STARTED: MAR 04, 2004@06:45:47

TASK NUMBER: 529066 SHUTDOWN LLP ?: NO

QUEUE SIZE: 100 RE-TRANSMISSION ATTEMPTS: 3

READ TIMEOUT: 60 ACK TIMEOUT: 60

EXCEED RE-TRANSMIT ACTION: ignore TCP/IP ADDRESS: 10.3.17.157

TCP/IP PORT: 9028 TCP/IP SERVICE TYPE: CLIENT (SENDER)

PERSISTENT: NO STARTUP NODE: DEV:ISC4A1 IN QUEUE BACK POINTER: 202 IN QUEUE FRONT POINTER: 202

OUT QUEUE BACK POINTER: 206 OUT QUEUE FRONT POINTER: 202

## Menu Options by Name

NAME: **MD GUI USER** MENU TEXT: MD GUI USER

TYPE: Broker (Client/Server) CREATOR: ACKERMAN,NIEN-CHIN TIMESTAMP OF PRIMARY MENU: 59331,44145

RPC: MD TMDOUTPUT RPC: MD TMDPARAMETER RPC: MD TMDPATIENT RPC: MD TMDPROCEDURE RPC: MD TMDRECORDID

RPC: MD TMDTRANSACTION RPC: MD TMDUSER

RPC: MD UTILITIES

UPPERCASE MENU TEXT: MD GUI USER

NAME: **MD GUI MANAGER** MENU TEXT: MD GUI MANAGER

TYPE: Broker (Client/Server) CREATOR: ACKERMAN,NIEN-CHIN TIMESTAMP OF PRIMARY MENU: 59385,45622

RPC: MD TMDOUTPUT RPC: MD TMDPARAMETER RPC: MD TMDPATIENT RPC: MD TMDPROCEDURE RPC: MD TMDRECORDID

RPC: MD TMDTRANSACTION RPC: MD TMDUSER

RPC: MD UTILITIES RPC: MD GATEWAY

UPPERCASE MENU TEXT: MD GUI MANAGER

Exported Options

1NAME: **MD AUTO CHECK-IN SETUP** MENU TEXT: Auto Study Check-In Setup TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN

PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option is used to populate the XPAR parameters MD USE APPT WITH PROCEDURE, MD CHECK-IN PROCEDURE LIST, MD CLINIC QUICK LIST, and MD

CLINICS WITH MULT PROC. The four XPAR parameters are used for the auto study check-in. Users can use the option to indicate whether their site use and schedule appointments. They can populate a list of procedures and associated clinics that need a CP study checked-in.

ROUTINE: EN1^MDWSETUP

UPPERCASE MENU TEXT: AUTO STUDY CHECK-IN SETUP

NAME: **MD SCHEDULED STUDIES** MENU TEXT: Scheduled Studies TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option is tasked to run daily. It will process the HL7 messages that need to be sent to the device on a daily basis for CP studies.

ROUTINE: EN1^MDWORSR SCHEDULING RECOMMENDED: YES UPPERCASE MENU TEXT: SCHEDULED STUDIES

NAME: **MD STUDY CHECK-IN** MENU TEXT: Study Check-in TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option is tasked to run daily. It checks-in CP studies for procedures that require multiple encounters such as Hemodialysis, Respiratory Therapy, and Sleep Studies.

ROUTINE: CLINICPT^MDWORSR SCHEDULING RECOMMENDED: YES UPPERCASE MENU TEXT: STUDY CHECK-IN

2NAME: **MD HEMODIALYSIS USER** MENU TEXT: HEMODIALYSIS USER

TYPE: Broker (Client/Server) CREATOR: ACKERMAN,NIEN-CHIN TIMESTAMP OF PRIMARY MENU: 60387,39853

RPC: MDK GET VISTA DATA RPC: MDK GET/SET RENAL DATA RPC: MDK UTILITY

RPC: VAFCTFU CONVERT DFN TO ICN RPC: VAFCTFU CONVERT ICN TO DFN RPC: MD TMDWIDGET

RPC: MD TMDNOTE RPC: MD TMDCIDC RPC: MD TMDLEX

RPC: MD TMDENCOUNTER RPC: GMV MANAGER RPC: MD GATEWAY

RPC: MD TMDSUBMITU RPC: ORWPT PTINQ RPC: GMV PTSELECT

RPC: DG SENSITIVE RECORD ACCESS RPC: DG SENSITIVE RECORD BULLETIN RPC: MD TMDRECORDID

UPPERCASE MENU TEXT: HEMODIALYSIS USER

1 Patch MD\*1.0\*14 March 2008 Options added to support the auto study check-in.

2 Patch MD\*1.0\*6 May 2008 Hemodialysis User menu option added.

Exported Options

NAME: **MD STUDIES LIST**

MENU TEXT: Clinical Procedures Studies List

TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option will generate a list of Clinical Procedures studies.

ROUTINE: EN2^MDSTUDL

UPPERCASE MENU TEXT: CLINICAL PROCEDURES STUDIES LI

1NAME: **MDCVT MANAGER**

MENU TEXT: Medicine to CP Conversion Manager

TYPE: menu CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This is the Medicine to CP Manager menu option. This menu option consists of options to assist the site in converting the Medicine reports to Clinical Procedures text reports.

ITEM: MDCVT SETUP SYNONYM: 1 DISPLAY ORDER: 1

ITEM: MDCVT RUN SYNONYM: 3

DISPLAY ORDER: 3

ITEM: MDCVT SUMMARY SYNONYM: 4 DISPLAY ORDER: 4

ITEM: MDCVT DISK SPACE SYNONYM: 5 DISPLAY ORDER: 5

ITEM: MDCVT LIST OF TIU TITLES SYNONYM: 6 DISPLAY ORDER: 6

ITEM: MDCVT TOTALS SYNONYM: 7 DISPLAY ORDER: 7

ITEM: MDCVT ERROR LOG SYNONYM: 8 DISPLAY ORDER: 8

ITEM: MDCVT CONVERSION LOCKOUT SYNONYM: 9 DISPLAY ORDER: 9

ITEM: MDCVT BUILD CONVERSION LIST SYNONYM: 2 DISPLAY ORDER: 2

TIMESTAMP: 60459,53192 TIMESTAMP OF PRIMARY MENU: 59904,24363 UPPERCASE MENU TEXT: MEDICINE TO CP CONVERSION MANA

NAME: **MDCVT SETUP** MENU TEXT: Conversion Setup TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES X ACTION PRESENT: YES

DESCRIPTION: This option will bring up a setup screen for the site to setup the Medicine Report Conversion parameter setup. This parameter setup allows the site to control which Medicine reports will be converted and which CP Definition and TIU title to link to.

EXIT ACTION: K DDSFILE,DR,DA ROUTINE: SETUP^MDCVT UPPERCASE MENU TEXT: CONVERSION SETUP

NAME: **MDCVT RUN** MENU TEXT: Run the Conversion Process TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN

PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option will start the Medicine Report conversion to Clinical Procedures. This option will only convert reports for procedures that have the "CONVERT Y/N" field set to "Yes" under the MEDICINE FILE PARAMETERS in the CP CONVERSION file (#703.9).

ROUTINE: EN^MDCVT

1 Patch MD\*1.0\*5 August 2006 Patch 5 menu options added.

Exported Options

UPPERCASE MENU TEXT: RUN THE CONVERSION PROCESS

NAME: **MDCVT SUMMARY** MENU TEXT: Summary of Conversion Process

TYPE: print CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option will generate a Medicine Report Conversion report. This report consists of a listing of all Medicine records that were processed in the conversion in variable pointer format and the status of the conversion whether the record was converted, skipped, or errored. If the record was converted, the total number of lines and bytes that the record was converted to in a TIU document will be displayed. If the record errored, the reason

why

it errored will be displayed. If the record was skipped, the reason why it was skipped will be displayed.

DIC {DIP}: MDD(703.9, L.: 0

FLDS: [MD CONVERSION SUMMARY] BY: [MD CONVERSION SUMMARY] UPPERCASE MENU TEXT: SUMMARY OF CONVERSION PROCESS

NAME: **MDCVT DISK SPACE** MENU TEXT: Disk Space Requirements TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option will generate a summary of the Medicine report conversion. This summary consists of a list of the files converted to Clinical Procedures, the count of records converted, the total lines and

Bytes

the records were converted in each file. ROUTINE: SUMMARY^MDCVT

UPPERCASE MENU TEXT: DISK SPACE REQUIREMENTS

NAME: **MDCVT LIST OF TIU TITLES** MENU TEXT: List of TIU Titles Needed TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option will allow the user to generate a list of Medicine procedures and the TIU titles needed to be created for the procedures that will be used for the Medicine report conversion. The PRINT NAME of the procedures in the PROCEDURE/SUBSPECIALTY file (#697.2) will be used in the display. This list will list the procedures and titles for a Medicine

Package

Procedure, if the "Convert Y/N" parameter is set to "Yes" and the "Use TIU Note Title" parameter is blank in the Conversion Setup option.

ROUTINE: DISP^MDSTATU

UPPERCASE MENU TEXT: LIST OF TIU TITLES NEEDED

NAME: **MDCVT TOTALS** MENU TEXT: Conversion Totals By Status TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN

PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option will verify that the Medicine reports conversion is

complete and are in appropriate statuses. ROUTINE: TOTALS^MDCVT

UPPERCASE MENU TEXT: CONVERSION TOTALS BY STATUS

NAME: **MDCVT ERROR LOG** MENU TEXT: Error Log

TYPE: print CREATOR: ACKERMAN,NIEN-CHIN

Exported Options

PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option generates a log of all the errors that occurred with each Medicine report during the conversion. The listing consists of the CONVERSION ID and ERROR MESSAGE. The CONVERSION ID consists of the record # concatenated with a ";" and the global location (e.g.,"345;MCAR(699,").

DIC {DIP}: MDD(703.9, L.: 0

FLDS: [MD CONVERSION ERRORS] BY: [MD CONVERSION ERRORS] UPPERCASE MENU TEXT: ERROR LOG

NAME: **MDCVT CONVERSION LOCKOUT** MENU TEXT: Conversion Lockout TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option will let the user place a specialty/procedure or ALL specialty/procedures Enter/Edit and Report options 'OUT OF SERVICE' in

the

Medicine package. It will also set Kernel site parameter MD MEDICINE CONVERTED to "YES" when all specialties/procedures enter/edit and report options are disabled or when the user indicated that all Medicine reports has been converted.

ROUTINE: LOCKOUT^MDCVT UPPERCASE MENU TEXT: CONVERSION LOCKOUT

NAME: **MDCVT BUILD CONVERSION LIST** MENU TEXT: Build Conversion List TYPE: action CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES E ACTION PRESENT: YES

X ACTION PRESENT: YES

DESCRIPTION: The user will need to run this option before using the [MDCVT RUN], Run the Conversion Process, option. This option will let the user

build

the conversion list of the Medicine file records for the CP CONVERSION file (#703.9). It will populate the CONVERSION LOG sub-file (#703.92) with all entries in the "AC" cross reference in the MEDICAL PATIENT file (#690) and

set

the STATUS field as "Ready to Convert" for each entry. This option can be queued. Once the conversion list is built, this option can also be used to add new additional entries in the Medicine file into the conversion list.

This option will not overwrite the existing entries in the CONVERSION LOG but add to the list.

EXIT ACTION: K MDS ENTRY ACTION: S MDS=$$BLD^MDCVT1() UPPERCASE MENU TEXT: BUILD CONVERSION LIST

1NAME: **MD PROCESS NOSHOW/CANCEL**

MENU TEXT: Process No Show/Cancel Studies

TYPE: run routine CREATOR: ACKERMAN,NIEN-CHIN PACKAGE: CLINICAL PROCEDURES

DESCRIPTION: This option is tasked to run daily. It will check for any appointment that is No Show or Cancelled for CP studies in the "Pending Instrument Data" status.

ROUTINE: EN1^MDWCAN

UPPERCASE MENU TEXT: PROCESS NO SHOW/CANCEL STUDIES

1 Patch MD\*1.0\*11 June 2009 Add new exported option.