**Clinical Procedures (CP)**

**Technical Manual and Package Security Guide**

**Version 1.0**

**April 2004**

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**Department of Veterans Affairs**

**Office of Information and Technology (OI&T)**

**Product Development**

##### Revision History

|  |  |  |
| --- | --- | --- |
| **Description** | **Date** | **Author** |
| Patch MD\*1.0\*65High Volume Procedure Edit option update and Consult to CP Conversion utilities | December 2018 | REDACTED |
| Patch MD\*1.0\*60Updated CP Instrument File table and Option list. | July 2018 | REDACTED |
| [[1]](#footnote-1)Patch MD\*1.0\*42:Updated cover page and Revision History.Added new CONSULT KEEP OPEN field to CP Instrument File table on page 5-9. | March 2016 | REDACTED |
| [[2]](#footnote-2)Patch MD\*1.0\*29 – Updated for ICD-10 release. Updated Title pageAdded Revision History, pp. i-iiUpdated Table of Contents, pp. iii-ivUpdated option to read the generic ICD in place of ICD-9, pp. [6-9](#icd10) . | August 2014 | REDACTED |
| [[3]](#footnote-3)Patch MD\*1.0\*20 released. Added new Exported Options and Updated the Routine Descriptions. Added new Parameter Definitions. | November 2010 | REDACTED |
| [[4]](#footnote-4)Patch MD\*1.0\*21 released. Updated Routine Description, Parameter Definition, and Menu Options By Name. | June 2010 | REDACTED |
| [[5]](#footnote-5)Patch MD\*1.0\*11 released. Updated Routine Description, File and Field Description, Parameter Definition, and Menu Options By Name. | June 2009 | REDACTED |
| [[6]](#footnote-6)Patch 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 |
| [[7]](#footnote-7)Patch 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 |
| [[8]](#footnote-8)Patch MD\*1.0\*5 released August 2006. Updated File List, Package Default Definition, Parameter Definitions, and menu options. | Documented February 2008 | REDACTED |
| Patch MD\*1.0\*2 released. | August 2006 |  |
| [[9]](#footnote-9)Patch MD\*1.0\*1 released. | July 2004 |  |
| Originally released. | April 2004 |  |

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# Introduction

CP is a conduit for passing final patient results, using Health Level 7 (HL7) messaging, between vendor clinical information systems (CIS) and Veterans Health Information Systems and Technology Architecture (VistA). The patient’s test result or report is displayed through the Computerized Patient Record System (CPRS). The report data is stored on the Imaging Redundant Array of Inexpensive Disks (RAID) and in some instances, discrete data is stored in the Medicine database.

CP provides features that can be used across clinical departments such as general medicine, cardiology, pulmonary, women’s health, neurology, and rehabilitation medicine.

[[10]](#footnote-10)Hemodialysis is a new module of the Clinical Procedures (CP) package that provides features specific to hemodialysis treatment. The Hemodialysis module allows you to collect hemodialysis treatment information from the medical device, and manually enter treatment data into the application.

Pre-dialysis vitals, information obtained during treatment, and post-dialysis vitals can be entered into the Hemodialysis data entry screens. A Treatment Summary is created and used to fill out Centers for Medicare & Medicaid Services (CMS)/End Stage Renal Disease (ESRD) forms.

## Benefits

**a. Standardized and Common User Interface**

Clinicians can go through the same program, CPRS, to enter, review, interpret, and sign CP orders. CP documents in TIU obey Authorization Subscription Utility (ASU) Business Rules. The update users functionality currently used by Consults determines which users are allowed to access or edit CP documents.

**b. Integration**

The ordering process of a CP procedure is initiated by CPRS and processed through the Consult/Request Tracking Package (Consults). The interpretation of the data is entered and displayed through TIU. The final result of the CP procedure is displayed by VistA Imaging. The ordering, viewing, reviewing, interpreting, and signing of the CP medical record is accessed through one location, the Consults tab in CPRS.

**c. Variety of Accepted File Types**

CP is able to accept data/final result report files from automated instruments in .txt, .rtf, .jpg, .jpeg, .bmp, .tiff, .pdf, and .html file types. CP allows additional automated instruments and file types to be added to interface with CP in the future.

**d. Links to Other Packages**

CP interfaces with packages such as Computerized Patient Record System (CPRS), Consult/Request Tracking Package, Text Integration Utility Package (TIU), and VistA Imaging. New Health Summary components shall be available in the future.

**e. Interface Between CP and Imaging**

Certain images such as consent forms and report objects are acquired, processed, stored, transmitted, and displayed by the VistA Imaging package. This interface will replace existing capture interface between Medicine 2.3 and VistA Imaging.

**f. Inpatient and Outpatient Workloads**

CP Definition file (#702.01) allows for defining the Hospital Location where the procedure is performed. This determines which Encounter Form is presented to the end user.CPRS and TIU parameters allow for the configuration of TIU software to prompt users to enter workload data which is then passed to the Patient Care Encounter software (PCE) for both inpatients and outpatients.

## [[11]](#footnote-11)508 Compliance

**Note:** The following notice applies only to Patch MD\*1.0\*6.

The Clinical Procedures Hemodialysis Software is exempt from coverage under the Section 508 standards. The definition of "electronic and information technology" in the Section 508 standards specifically excludes "medical equipment where information technology is integral to its operation." 36 C.F.R. Section 1194.4. VHA's use of the Clinical Procedures Hemodialysis Software also does not violate Section 508 because it will not affect access to the data or information provided by that software. 29 U.S.C. Section 794d(a). The data or information collected by the software is immediately made available through the CPRS system, which is accessible to people with disabilities.

# Implementation and Maintenance

Refer to Chapter 1 – Introduction of the Clinical Procedures Implementation Guide for implementation and maintenance issues.

# Clinical Instrument Interface Specifications

Refer to Chapter 10 of the Clinical Procedures Implementation Guide for information on Setting up HL7 Parameters.

[[12]](#footnote-12)Refer to the Clinical Instrument Bi-Directional Interface Specifications document for information on Clinical Procedures instrument interface specifications. Directions for locating the document follow:

1. Access the Clinical Procedures website: <http://vista.med.va.gov/clinicalspecialties/clinproc/>
2. On the navigation bar found on the left-hand side of the page, hover your mouse pointer over **Clinical Procedures Project**, then click **Documentation.**
3. Click **Clinical Procedures Documents.**

Click the **Clinical Procedures Bi-Directional Communication Specification** link to view the document or save a copy.

# Routine Descriptions

MDAPI ; 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

MDAR7M ; HOIFO/NCA - Get Text Impression ;2/27/09 12:38

 ;;1.0;Clinical Procedures;\*\*21,24\*\*;Apr 01, 2004;Build 8

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

 ;;1.0;CLINICAL PROCEDURES;\*\*10,13,24\*\*;Apr 01, 2004;Build 8

MDARSET ; HOIFO/NCA - High Volume Check-In Setup ; 7/11/18 1:14pm

 ;;1.0;CLINICAL PROCEDURES;\*\*21,65\*\*;Apr 01, 2004;Build 1

MDCA01 ;HINES OIFO/DP/BJ/TJ - HL7 Build Admit/Visit Message (A01);15-AUG-2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCA02 ;HINES OIFO/DP/BJ/TJ - HL7 Build Transfer a Patient (A02) Message;21-JUN-2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCA03 ;HINES OIFO/DP/BJ/TJ - HL7 Build Discharge/End Visit (A03) Message;21-JUN-2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCA08 ;HINES OIFO/DP/BJ/TJ - HL7 Build Update Patient Info (A08) Message;21-JUN-2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCA11 ;HINES OIFO/DP/BJ/TJ - HL7 Build Cancel Admit/Visit Notice (A11) Message;21-JUN-2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCA12 ;HINES OIFO/DP/BJ/TJ - HL7 Build Cancel Transfer (A12) Message;21-JUN-2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCA13 ;HINES OIFO/DP/BJ/TJ - HL7 Build Cancel Discharge/Visit End (A13) Message;21-JUN-2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCADT ;HINES OIFO/DP/BJ/TJ - HL7 Build ADT Axx Messages;10 Aug 2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12\*\*;Apr 01, 2004;Build 318

MDCEVN ;HINES OIFO/DP/BJ/TJ - Wrapper to create HL7 EVN segment;30 May 2006

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12,23\*\*;Apr 01, 2004;Build 281

MDCLIO ;HINES OIFO/DP - CliO backend driver;02 Feb 2005

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCLIO1 ;HINES OIFO/DP - CliO backend driver (Continuation);02 Sep 2005

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCLIOV ;HINES OIFO/DP - CliO Vitals Link;15 Nov 2010

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCLN ;HIOFO/NCA - Cleanup Disabled Studies ;4/19/01 11:52

 ;;1.0;Clinical Procedures;\*\*21\*\*;Apr 01, 2004;Build 30

MDCONUTL ; WOIFO/KLM - CP Conversion Utility ; 7/11/18 1:08pm

 ;;1.0;CLINICAL PROCEDURES;\*\*65\*\*;Apr 01, 2004;Build 2

MDCPHL7A ;HINES OIFO/BJ - CliO HL7 Handler/validator;09 Aug 2006

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCPHL7B ;HINES OIFO/BJ - CliO HL7 Handler/validator;09 Aug 2006

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCPHL7C ; HINES OIFO/BJ - CP Outbound message record maintenance routine.;26OCT 2011

 ;;1.0;CLINICAL PROCEDURES;\*\*23\*\*;OCT 26, 2011;Build 281

MDCPID ;HINES OIFO/DP/BJ - Wrapper for PID Segment Builder;23 Nov 2005

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCPMESQ ;HINES OIFO/TJ - CP Outbound message queue routine.;30 Jul 2007 ;10/5/11 15:39

 ;;1.0;CLINICAL PROCEDURES;\*\*12,23\*\*;Apr 01, 2004;Build 281

MDCPROTD ;ASMR/BLJ,SRG - CliO backend driver;02 Feb 2005 ; 12/10/15 10:58am

 ;;1.0;CLINICAL PROCEDURES;\*\*38\*\*;Sep 25, 2015;Build 290

MDCPSIGN ;HINES OIFO/BJ - CliO HL7 Handler/validator;23 Aug 2006

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCPURG ;HINES OIFO/DP - CP Nightly Purge Options;27 Jan 2008

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDCPV1 ;HINES OIFO/DP/BJ - PV1 Segment Routine;08 Aug 2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,23\*\*;Apr 01, 2004;Build 281

MDCPVDEF ;HINES OIFO/BJ/TJ - CP Outbound message record maintenance routine.;30 Jul 2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12,23\*\*;Apr 01, 2004;Build 281

MDCSPV1 ;HINES OIFO/DP/BJ - Build Segment PV1 Routine;17 Aug 2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,23\*\*;Apr 01, 2004;Build 281

MDCUTL ;HINES OIFO/DP/BJ/TJ - HL7 Message Utilities;07 June 2007

 ;;1.0;CLINICAL PROCEDURES;\*\*16,12,23\*\*;Apr 01, 2004;Build 281

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

 ;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 1

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

 ;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 1

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

 ;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 1

MDDEVCL ;HOIFO/NCA - Collect Device Data ;8:34 AM 9 Jun 2005

 ;;1.0;CLINICAL PROCEDURES;\*\*20\*\*;Apr 01, 2004;Build 9

MDESPRT ;HOIFO/NCA - ELECTRONIC SIGNATURE PRINT ;12/21/04 09:24

 ;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 1

MDHL7A ; HOIFO/WAA - Routine to Decode HL7 for CP ;05/21/09 15:57

 ;;1.0;CLINICAL PROCEDURES;\*\*6,11,21\*\*;Apr 01, 2004;Build 30

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

 ;;1.0;CLINICAL PROCEDURES;\*\*41\*\*;Apr 01, 2004;Build 3

MDHL7BH ; HOIFO/WAA,WOIFO/PMK -Bi-directional interface (HL7) routine ;15 Jun 2018 12:46 PM

 ;;1.0;CLINICAL PROCEDURES;\*\*11,21,20,60\*\*;Apr 01, 2004;Build 11

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

MDHL7K1 ; HOIFO/WAA-KenitDx Interface ; 06/08/00

 ;;1.0;CLINICAL PROCEDURES;\*\*21\*\*;Apr 01, 2004;Build 30

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

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

MDHL7M1 ; HOIFO/WAA - Muse EKG ; [02-06-2002 16:13]

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

MDHL7M3 ; HOIFO/WAA-GE IMAGE VAULT INTERFACE ; 08/08/07

 ;;1.0;CLINICAL PROCEDURES;\*\*37\*\*;Apr 15, 2003;Build 4

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

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

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

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

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

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

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

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

MDHL7U3 ;HOIFO/WAA - Utilities for CP to process HL7 messages ;02/17/10 15:59

 ;;1.0;CLINICAL PROCEDURES;\*\*6,21,29\*\*;Apr 01, 2004;Build 22

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 ;4/10/09 09:20

 ;;1.0;CLINICAL PROCEDURES;\*\*21,34\*\*;Apr 01, 2004;Build 1

MDIPS60 ;WOIFO/DAC - Install code for MD\*1.0\*60 ;18 Apr 2018 7:38 AM

 ;;3.0;IMAGING;\*\*60\*\*;Mar 19, 2002;Build 2

MDKRPC1 ;HIOFO/FT-RPC to return patient data ;8/12/16 10:45am

 ;;1.0;CLINICAL PROCEDURES;\*\*6,47\*\*;Apr 01, 2004;Build 3

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 20

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 ;7/26/10 14:27

 ;;1.0;CLINICAL PROCEDURES;\*\*11,21,20\*\*;Apr 01, 2004;Build 9

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

 ;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 1

MDPCE ; HIRMFO/NCA - Routine For Data Extract ;6/9/08 13:29

 ;;1.0;CLINICAL PROCEDURES;\*\*5,21\*\*;Apr 01, 2004;Build 30

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 ;1/20/10 10:00

 ;;1.0;CLINICAL PROCEDURES;\*\*6,21,29\*\*;Apr 01, 2004;Build 22

MDPFTP1 ;HOIFO/NCA - PFT REPORT-DEMO INFO ;3/15/04 11:55

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

MDPFTP2 ; HOIFO/NCA - PFT REPORT-VOLUMES ;3/15/04 10:00

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

MDPFTP2A ; HOIFO/NCA - PFT REPORT-FLOWS ;3/17/04 08:22

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

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

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

MDPOST ; HOIFO/DP - Post Init ;2/18/04 11:39

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

MDPOST04 ; HOIFO/DP - Post Init ; 2/18/04 11:39

 ;;1.0;CLINICAL PROCEDURES;\*\*4\*\*;Apr 01, 2004;Build 3

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

MDPOST16 ;HINES OIFO/DP - Post Installation Tasks;02 Mar 2008

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDPOST21 ; HOIFO/NCA - Post Init ;2/7/07 16:15

 ;;1.0;CLINICAL PROCEDURES;\*\*21\*\*;Apr 01, 2004;Build 30

MDPOST23 ;HINES OIFO/DP/BJ - Post Installation Tasks;06 OCTOBER 2011

 ;;1.0;CLINICAL PROCEDURES;\*\*23\*\*;Apr 01, 2004;Build 281

MDPOST38 ;ASMR/MKB - Post Installation Tasks;02 Mar 2008 ; 12/12/13 8:52pm

 ;;1.0;CLINICAL PROCEDURES;\*\*38\*\*;Sep 25, 2015;Build 290

MDPOST49 ;MNTVBB/RRA - Post Installation Tasks;01/07/17

 ;;1.0;CLINICAL PROCEDURES;\*\*49\*\*;Apr 01, 2004;Build 2

MDPOST50 ;MNTVBB/RRA - Post Installation Tasks;01/07/17

 ;;1.0;CLINICAL PROCEDURES;\*\*50\*\*;Apr 01, 2004;Build 2

MDPOST51 ;MNTVBB/RRA - Post Installation Tasks;01/07/17

 ;;1.0;CLINICAL PROCEDURES;\*\*51\*\*;Apr 01, 2004;Build 8

MDPOST52 ;MNTVBB/RRA - Post Installation Tasks;01/07/17

 ;;1.0;CLINICAL PROCEDURES;\*\*52\*\*;Apr 01, 2004;Build 6

MDPOST61 ;Post Installation Tasks ; 4/30/18 8:41am

 ;;1.0;CLINICAL PROCEDURES;\*\*61\*\*;Apr 01, 2004;Build 1

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

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

MDPRE12 ;HINES OIFO/TJ - Pre Installation Tasks;02 Mar 2008

 ;;1.0;CLINICAL PROCEDURES;\*\*12\*\*;Apr 01, 2004;Build 318

MDPRE16 ;HINES OIFO/DP - Installation Tasks;02 Mar 2008

 ;;1.0;CLINICAL PROCEDURES;\*\*16\*\*;Apr 01, 2004;Build 280

MDPRE23 ;HINES OIFO/BJ - Installation Tasks;07 OCTOBER 2011

 ;;1.0;CLINICAL PROCEDURES;\*\*23\*\*;Apr 01, 2004;Build 281

MDPS1 ; HOIFO/NCA - CP/Medicine Report Generator ;5/17/10 08:57

 ;;1.0;CLINICAL PROCEDURES;\*\*2,10,13,21,24\*\*;Apr 01, 2004;Build 8

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

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

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

 ;;1.0;CLINICAL PROCEDURES;\*\*2,5,13,24\*\*;Apr 01, 2004;Build 8

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

 ;;1.0;CLINICAL PROCEDURES;\*\*13,24\*\*;Apr 01, 2004;Build 8

MDPS5 ; HOIFO/NCA - Retrieve List of Consult Procedures for RDV ;3/4/05 13:29

 ;;1.0;CLINICAL PROCEDURES;\*\*13\*\*;Apr 01, 2004;Build 19

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

 ;;1.0;CLINICAL PROCEDURES;\*\*21\*\*;Apr 01, 2004;Build 30

MDPSUL ; HOIFO/NCA - HS Component Utility;5/18/04 09:48 ;10/5/09 09:33

 ;;1.0;CLINICAL PROCEDURES;\*\*21\*\*;Apr 01, 2004;Build 30

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 ;2/25/09 16:08

 ;;1.0;CLINICAL PROCEDURES;\*\*6,21\*\*;Apr 01, 2004;Build 30

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

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

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

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

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

MDRPCOP ; HOIFO/DP - Object RPCs (TMDPatient) ;8/3/09 10:39

 ;;1.0;CLINICAL PROCEDURES;\*\*4,6,11,20,42\*\*;Apr 01, 2004;Build 12

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;\*\*17,20\*\*;Apr 01, 2004;Build 9

MDRPCOT ; HOIFO/DP/NCA - Object RPCs (TMDTransaction) ;10/26/09 10:23

 ;;1.0;CLINICAL PROCEDURES;\*\*5,6,11,21\*\*;Apr 01, 2004;Build 30

MDRPCOT1 ; HOIFO/NCA/DP,WOIFO/PMK - Object RPCs (TMDTransaction) - Continued ;03 Jul 2018 9:09 AM

 ;;1.0;CLINICAL PROCEDURES;\*\*5,11,21,41,60\*\*;Apr 01, 2004;Build 11

MDRPCOT2 ; HOIFO/NCA - Object RPCs (TMDTransaction) Continued 2;10/29/04 12:20 ;3/12/08 09:18

 ;;1.0;CLINICAL PROCEDURES;\*\*6,21,20\*\*;Apr 01, 2004;Build 9

MDRPCOTA ; HOIFO/NCA - Object RPCs (TMDTransaction) Continued 2;10/29/04 12:20 ;3/12/08 09:18

 ;;1.0;CLINICAL PROCEDURES;\*\*20\*\*;Apr 01, 2004;Build 9

MDRPCOTH ; HOIFO/NCA - Process High Volume Procedure Results ;2/1/12 16:39

 ;;1.0;CLINICAL PROCEDURES;\*\*21,24\*\*;Apr 01, 2004;Build 8

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

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

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

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

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

 ;;1.0;CLINICAL PROCEDURES;\*\*6,29\*\*;Apr 01, 2004;Build 22

MDRPCU ; HOIFO/DP - Object RPC Utilities ; [05-23-2003 10:16]

 ;;1.0;CLINICAL PROCEDURES;\*\*4\*\*;Apr 01, 2004;Build 3

MDRPCW ; HOIFO/NCA - Calls to AICS ;01/21/10 11:51

 ;;1.0;CLINICAL PROCEDURES;\*\*6,21,20,29\*\*;Apr 01, 2004;Build 22

MDRPCW1 ; HOIFO/NCA - MD TMDENCOUNTER Object ;2/16/10 16:17

 ;;1.0;CLINICAL PROCEDURES;\*\*6,21,20,29\*\*;Apr 01, 2004;Build 22

MDRPCWU ;HOIFO/NCA - CPT Code Query ;2/16/10 16:17

 ;;1.0;CLINICAL PROCEDURES;\*\*21,29\*\*;Apr 01, 2004;Build 22

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

 ;;1.0;CLINICAL PROCEDURES;\*\*5\*\*;Apr 01, 2004;Build 1

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

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

MDSTUDW ; HOIFO/NCA - Print a List of Procedures With Incomplete Workload ;3/2/09 10:00

 ;;1.0;CLINICAL PROCEDURES;\*\*21\*\*;Apr 01, 2004;Build 30

MDTERM ;HINES OIFO/DP - Terminology Utilities;04 Jan 2006

 ;;1.0;CLINICAL PROCEDURES;\*\*16,23\*\*;Apr 01, 2004;Build 281

MDTERMX ;HINES OIFO/DP - Installation Tasks;02 Mar 2008 ; 8/4/17 6:45am

 ;;1.0;CLINICAL PROCEDURES;\*\*48\*\*;Aug 2, 2012;Build 5

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 ;7/29/08 09:50

 ;;1.0;CLINICAL PROCEDURES;\*\*11,21\*\*;Apr 01, 2004;Build 30

MDWCHK ; HOIFO/NCA - Create CP Studies for Existing Procedures ;12/13/07 15:52

 ;;1.0;CLINICAL PROCEDURES;\*\*14\*\*;Apr 01,2004;Build 20

MDWOR ; HOIFO/NCA - Main Routine to Decode HL7 ;9/8/08 15:20

 ;;1.0;CLINICAL PROCEDURES;\*\*14,11,21,20,37,42\*\*;Apr 01,2004;Build 12

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

 ;;1.0;CLINICAL PROCEDURES;\*\*14\*\*;Apr 01,2004;Build 20

MDWORSR ; HOIFO/NCA - Daily Schedule Studies;7/2/04 12:39 ;26 Sep 2017 2:24 PM

 ;;1.0;CLINICAL PROCEDURES;\*\*14,11,21,20\*\*;Apr 01,2004;Build 9

MDWSETUP ; HOIFO/NCA - Auto Study Check-In Setup ;3/18/08 14:14

 ;;1.0;CLINICAL PROCEDURES;\*\*14,11,37,45\*\*;Apr 01, 2004;Build 1

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

# File List and Related Information

## File and Field Descriptions

**CP Transaction File - #702**

This file contains the studies between the instruments and user generated data as it is matched to a consult order and a TIU document is created for the results. It also manages the interface between the images and the Imaging RAID.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Patient | 702,.01 | Pointer to Patient (#2) file | This field contains a pointer to the Patient (#2) file for this study. |
| SSN | 702,.011 | Computed | This field contains the computed value of the patient’s SSN from the Patient (#2) file. |
| DOB | 702,.012 | Computed | This field contains the computed value of the patient’s date of birth from the Patient (#2) file. |
| Created Date/Time | 702,.02 | Date | This field contains the date/time the study was created within the CP User executable. |
| Created By | 702,.03 | Pointer to New Person (#200) file | This field contains the DUZ of the user that created this study. |
| CP Definition | 702,.04 | Pointer to CP Definition (#702.01) file | This field contains a pointer to the CP Definition (#702.01) file of the procedure definition that this study represents. |
| Consult Number | 702,.05 | Free Text 1-20 characters in length | This field contains an IEN of the Consult (#123) file representing the Consult order that is matched up to this study. |
| TIU Note | 702,.06 | Pointer to TIU Document (#8925) file | This field contains a pointer to the TIU Document (#8925) file representing the note that contains the interpretation of this study as well as the links to the associated images. |
| Vstring | 702,.07 | Free Text 1-50 characters in length | This field contains This field contains the vstring. The vstring is in the following format: Visit Type\_”;”\_Visit Date/Time\_”;”\_Hospital Location (internal entry number of the visit). |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Transaction Message | 702,.08 | Free Text 1-80 characters in length | Contains the message returned from the VistA Imaging API’s for storing the images on the server. |
| Transaction Status | 702,.09 | Set:0 - New1 - Submitted2 - Error3 - Complete | This field contains the status of this study. |
| Error Messages (multiple) | 702.091,.01 | Number between 1-9999, 0 decimal digits | Error message number. |
| Date Received | 702.091,.02 | Date | Date and time this error message was generated. |
| Received From | 702.091,.03 | Free Text 1-30 characters in length | Where the error was generated. |
| Message | 702.091,.09 | Free Text 1-150 characters in length | Text of the error message. |
| Image (multiple) | 702.1,.01 | Number between 1-999, 0 decimal digits | Index of attached image for this study.  |
| Type | 702.1,.02 | Set:I - Instrument dataU - User supplied file | Type of attachment to be processed.  |
| Result Report | 702.1,.03 | Pointer to CP Result Report (#703.1) file | Pointer to the CP Result Report (#703.1) file containing the attachment from the instrument.  |
| Status | 702.1,.09 | Set:0 - Submitted to server1 - Error in submission2 - Error in filing3 - Copied to server | Status of this image.  |
| UNC | 702.1,.1 | Free Text 1-245 characters in length | Contains the Universal naming Convention (UNC) for this attachment.  |
| Submitted to Instrument | 702,.11 | Pointer to CP Instrument (#702.09) file | Points to the instrument definition that this study was submitted to at the time of check-in. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Instrument Order Number | 702,.12 | Free Text 1-22 characters in length | Contains the unique order number for this study that is sent to the bi-directional instrument. |
| [[13]](#footnote-13)Visit | 702,.13 | Pointer to Visit (#9000010) file | This is the Visit number returned from PCE. Reference IA# 1902. |
| [[14]](#footnote-14)Scheduled Date/Time | 702,.14 | Date | This field contains the date/time when the HL7 message should be sent by CP to the device for this CP transaction. |
| [[15]](#footnote-15)Conversion ID Reference | 702,.3 | Free text 1-30 characters in length. | This field is the Reference Conversion ID. It is a variable Pointer to the Medicine files. It indicates which converted Medicine report record is associated with the CP Transaction study. This field helps to keep track which CP Transaction study was created for the Medicine report conversion. |
| Image Count | 702,.991 | Computed | Computed field to return the number of images associated with this study.  |

[[16]](#footnote-16)**CP\_Transaction\_TIU\_History File - #702.001**

This CP Transaction TIU History file stores all TIU notes that is associated

with the CP Transaction study. This will keep track of multiple notes

associated with one CP study.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Study\_ID | 702.001,.01 | Pointer To CP Transaction File (#702) | This field contains a pointer to the CP Transaction file (#702). |
| TIU\_Note\_ID | 702.001,.02 | Pointer To TIU Document File (#8925) | This field contains a pointer to the TIU Document file (#8925) representing the note that contains the interpretation of this CP Transaction. (Reference IA #3376) |
| Date\_Assigned | 702.001,.03 | Date | This field contains the date/time when the TIU note was assigned to this transaction. |

**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:0 - No1 - 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. |
| [[17]](#footnote-17)Processing Application | 702.01,.06 | Set:1 - Default2 – 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:0 - No1 - Yes | This field only applies to bi-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:0 - No1 - 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. |
| [[18]](#footnote-18)Processed Result | 702.01,.12 | Set:0 - Final Result 1 - Multiple Results 2 – Cumulative Result | This field is a flag which indicates whether a final result, multiple results, or cumulativeresult is associated with this procedure. |

**CP Instrument File - #702.09**

This file contains the list of instruments used by the Clinical Procedures package. This file is exported with data.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Name | 702.09,.01 | Free Text 3-30 characters in length | Name or mnemonic of instrument. Used by vendor in HL7 message header. |
| Notification Mailgroup | 702.09,.02 | Pointer to Mail Group (#3.8) file | Mail group that will receive error messages and other notifications dealing with this device from the interface routines. |
| Description | 702.09,.03 | Free Text 1-50 characters in length | This field contains a short informational description for the instrument. |
| Delete when Submitted | 702.09,.05 | Set:0 - No1 - Yes | Select Yes if you want files created by this instrument deleted once they are successfully copied to the VistA Imaging RAID. Deletion will be performed by the VistA Imaging application. |
| Printable Name | 702.09,.06 | Free Text 3-30 characters in length | Name of instrument that is printed on the reports, etc. |
| Default File Ext | 702.09,.07 | Free Text (e.g., .txt) | Default file extension for vendor instrument reports (e.g., .doc, .pdf). |
| Serial Number | 702.09,.08 | Free Text 1-50 characters in length | Vendor serial number of the instrument (for reference only). |
| Active | 702.09,.09 | Set:0 - No1 - Yes | Whether or not the instrument is active on the network. |
| Processing Routine | 702.09,.11 | Free Text 1-8 characters in length | MUMPS routine used to process interface information. |
| Processing Code | 702.09,.12 | Set:M - MedicineC - CP V. 1.0B - Both | Where data is to be processed:M - MedicineC - Clinical ProceduresB - Both |
| Bi-directional | 702.09,.13 | Set:0 - No1 - Yes | This field indicates whether or not this device can accept HL7 messages from VistA. |
| IP Address | 702.09,.14 | Free Text 7-15 characters in length | This field contains the IP address of this instrument. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Port | 702.09,.15 | Number between 1000-99999, 0 decimal digits | This field contains the port number for this instrument. |
| HL7 Instrument ID | 702.09,.16 | Free Text 3-30 characters in length | This is the name of the actual device where the device name can be ‘”SMC St Louis”. |
| HL7 Universal Service ID | 702.09,.17 | Free Text 1-48 characters in length | This field defines what type of procedure the device can perform if the device can perform multiple types of procedures. |
| HL7 Logical Link | 702.09,.18 | Pointer to the HL Logical Link (#870) file | This field contains the HL7 logical link. |
| CP - DICOM Interoperability | 702.09,.19 | Set of Codes | 0:No special action1:Use VistA Imaging accession number sss-GMR-nnnnnnnn2:Use VistA Imaging HL7 instead of CP's HL7 |
| Server Name | 702.09,.21 | Free Text 1-30 characters in length | Network name of instrument server where the report is stored. |
| Server Share | 702.09,.22 | Free Text 1-30 characters in length | Share folder/drive of the instrument server where the report is stored. |
| Server Path | 702.09,.23 | Free Text 1-150 characters in length | Path on the network where the report is stored. |
| Server Executable | 702.09,.24 | Free Text 1-30 characters in length | Name of server program that is run to create the report for the interface. |
| Process UNC | 702.09,.301 | Set:0 - No1 - Yes | Enter Yes if this instrument produces UNC type data. |
| Process Text | 702.09,.302 | Set:0 - No1 - Yes | Enter Yes if this instrument produces text type data. |
| Process URL | 702.09,.303 | Set:0 - No1 - Yes | Enter Yes if this instrument produces URL type data. |
| Process DLL | 702.09,.304 | Set:0 - No1 - Yes | Enter Yes if this instrument produces DLL type data. |
| Process UUEncode | 702.09,.305 | Set:0 - No1 - Yes | Enter Yes if this instrument produces UUEncode type data. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Process XML | 702.09,.306 | Set:0 - No1 - Yes | Enter Yes if this instrument produces XML type data. |
| Process XMS | 702.09,.307 | Set:0 - No1 - Yes | Enter Yes if this instrument produces XMS type data. |
| Consult Keep Open | 702.09,.401 | Set:0 - No1 - Yes | Enter Yes to keep consult note open or No to close consult note. |

**CP Result Report File - #703.1**

This file contains the information for the results uploaded from the medical instruments used by Clinical Procedures. It is distributed without any data. All fields are automatically stuffed by Clinical Procedures. There is no user input.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Upload ID | 703.1,.01 | Free Text 1-30 characters in length | Unique identifier assigned for each upload. |
| Patient | 703.1,.02 | Pointer to Patient (#2) file | Pointer to the Patient (#2) file of the patient uploaded from the result of the instrument. |
| Date/Time Performed | 703.1,.03 | Date | Date/time the procedure was performed on the instrument. |
| Instrument | 703.1,.04 | Pointer to CP Instrument (#702.09) file | Pointer to the CP Instrument (#702.09) file of the instrument that produced these reports. |
| Study Reference Number | 703.1,.05 | Pointer to CP Transaction file (#702) | This field is used as a reference to the transaction. |
| HL7 Reference Number | 703.1,.06 | Free Text 1-30 characters in length | This field is used to keep the IEN of the HL7 message. It serves as a reference to the message that will be purged once the data has been successfully moved to the VistA Imaging server. |
| Status | 703.1,.09 | Set:U - UnmatchedM - Matched | Status of the results:U - UnmatchedM - Matched |
| Upload Item (multiple) | 703.11,.01 | Set:1 - Impression Text2 - Report Text3 - Attachment UNC4 - Attachment URL5 - UUEncoded Data6 - DLL7 - XML Data8 - XML Style Sheet | This field contains the type of data element that was uploaded from the instrument. |
| Attachment UNC | 703.11,.02 | Free Text 1-240 characters in length | This field contains the Universal Naming Convention (UNC) for this attachment. This indicates where the attachment is located. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Item Value | 703.11,.1 | Free Text 1-245 characters in length | If the uploaded item is a single string value, it is stored here. |
| Item Text | 703.11,.2 | Word-Processing | If the uploaded data is multi-lined, it is stored here. |

**[[19]](#footnote-19)CP Conversion File- #703.9**

This file is used for storing the site parameters needed and used to convert Medicine reports to CP Text reports. This file also stores the status of the conversion process for each converted Medicine report.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Name | 703.9,.01 | Free Text (Required) | This field contains the name of the CP conversion.  It is only accessible by the CP conversion routine.  It is exported with one "DEFAULT" entry. |
| Mode | 703.9,.02 | Set:0 - test1 - real | This field indicates if the CP conversion is in test or real mode. |
| Administrative Closure User | 703.9,.03 | Pointer to new person file (#200) | This field points to the New Person file (#200).  It is used to indicate the Administrative Closure person used to close the TIU documents for the CP conversion. |
| Scratch HFS Directory | 703.9,.1 | Free Text | This field stores the scratch HFS directory used for the CP conversion.  CP conversion program will use this directory to convert Medicine reports. |
| Medicine File Parameters | 703.91,.01 | Pointer to File file (#1) | This field points to the File file (#1).  It is used to store the Medicine file number that this parameter is pertaining to. (Reference IA #4507) |
| CP Definition | 703.91,.02 | Point to CP Definition File (#702.01) | This field contains the CP Definition to which the Medicine Report will be mapped. |
| Convert Y/N | 703.91,.03 | Set:0 - No1 - Yes | This field is used as a flag to mark the Medicine Report. Enter 0 for 'to not convert' or 1 for 'to convert'. |
| Convert if No Status | 703.91,.04 | Set:0 - No1 - Yes | This field is used as a flag to indicate whether the Medicine report should be converted or not be converted, if there is no status for the report.  The field is 0 for 'not to convert' or 1 for 'to convert'. |
| Use TIU Note Title | 703.91,.05 | Pointer to TIU Document Definition File (#8925.1) | This field stores the Historical TIU note title used for the conversion of the Medicine reports to CP reports. (Reference IA #3377 and 3568) |
| Conversion ID | 703.92,.01 | Free Text | This field is the Conversion ID. It is a variable pointer to the Medicine files. This field will store an entry for each Medicine file record converted. This field is a variable pointer to the following files:691 ECHO 691.1 CARDIAC CATHETERIZATION 691.5 ELECTROCARDIOGRAM (EKG) 691.6 HOLTER691.7 EXERCISE TOLERANCE TEST691.8 ELECTROPHYSIOLOGY (EP)694 HEMATOLOGY694.5 CARDIAC SURGERY RISK ASSESSMENT 698 GENERATOR IMPLANT 698.1 V LEAD IMPLANT 698.2 A LEAD IMPLANT 698.3 PACEMAKER SURVEILLANCE 699 ENDOSCOPY/CONSULT 699.5 GENERALIZED PROCEDURE/CONSULT 700 PULMONARY FUNCTION TESTS 701 RHEUMATOLOGY |
| Status | 703.92,.02 | Set:CR - Converted Real ModeCT - Converted Test Mode E – ErrorS - Skipped R - Ready to Convert | This is the status field of the conversion log. There are five set of codes: CR - Converted Real ModeCT - Converted Test Mode    E - Error S - Skipped R - Ready to Convert |

|  |  |  |  |
| --- | --- | --- | --- |
| New TIU Document IEN | 703.92,.03 | Free Text | This field contains a pointer to the TIU Document file (#8925). (Reference IA #4796). This will hold the internal entry number of the document of the converted medicine report. |
| Lines | 703.92,.04 | Number | This field contains the line count of the Medicine report that was converted. |
| Bytes | 703.92,.05 | Number | This field contains the number of bytes of the Medicine report that was converted. |
| Error Msg | 703.92,.1 | Free Text | This field stores the error message during the conversion of the Medicine report. |

**[[20]](#footnote-20)Hemodialysis Access Points File - #704.201**

This new file contains information on access points used by the Hemodialysis application.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Patient\_ID | 704.201,.01 | Pointer to patient file (#2) | This field contains the patient DFN. (Required) |
| Access Points | 704.201,.1 | Word Processing | This field holds the XML in UUEncoded format for this patient’s access points for dialysis treatments. |
| Access History | 704.201,.2 | Word Processing | This field holds the XML in UUEncoded format for this patient’s access history for dialysis treatments. |
| Infection History | 704.201,.3 | Word Processing | This field holds the XML in UUEncoded format for this patient’s infection history for dialysis treatments. |

**[[21]](#footnote-21)Hemodialysis Study File - #704.202**

This new file contains information on hemodialysis studies used by the Hemodialysis application.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| ID | 704.202,.01 | Pointer to CP Transaction file (#702) | This field contains the IEN of the CP STUDY (File #702) for this dialysis treatment. (Required) |
| Patient | 704.202,.02 | Pointer to Patient file (#2) | Pointer to the PATIENT (File #2) of the patient for this dialysis treatment. |
| Study\_DateTime | 704.202,.03 | Computed date | Computed field used to allow automated XML creation with appropriate tag/value pairs. |
| Study\_Location | 704.202,.04 | Computed | Computed field used to allow automated XML creation with appropriate tag/value pairs. |
| Status | 704.202,.09 | Set:0 - Closed1 - Active | Contains the status of this procedure. |
| Study Data | 704.202,.1 | Word Processing | Contains the study data XML document in UUEncoded format. |
| Summary | 704.202,.2 | Word Processing | Contains the summary data XML document in UUEncoded format. |
| Flowsheet | 704.202,.3 | Word Processing | Contains the flowsheet data XML document in UUEncoded format. |
| Med Log | 704.202,.4 | Word Processing | Contains the med log data XML document in UUEncoded format. |
| Note List | 704.202,.5 | Word Processing | This field contains the Note List data XML document in UUEncoded format. |
| Event Log | 704.202,.6 | Word Processing | This field contains the Event Log data XML document inUUEncoded format. |

**[[22]](#footnote-22)Hemodialysis Setting File - #704.209**

This new file contains information on hemodialysis settings used by the Hemodialysis application.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Number** | **Format** | **Description** |
| Setting Name | 704.209,.01 | Free Text 3-30 characters in length. Not numeric or starting with punctuation. | Contains the descriptive name of the data contained in this setting. |
| Owner | 704.209,.02 | Pointer to new person file (#200) | If this setting is user specific, this field will contain that user’s DUZ. |
| User | 704.209,.03 | Pointer to new person file (#200) | This field displays the user name that is locking the Hemodialysis setting option. |
| Date/Time of Lock | 704.209,.04 | Input transform: S %DT="ET" D ^%DT S X=Y K:Y<1 X | This field will store the date and time of when the Hemodialysis setting option was locked for use. |
| Process ID | 704.209,.05 | Free text 3-40 characters in length.Input transform: K:$L(X)>40!($L(X)<3) X | This field will store the JOB ID of the process that is locking the Hemodialysis setting option. |
| XML Document | 704.209,.1 | Word Processing | Contains the XML document for this setting in UUEncoded format. |

## Package Default Definition

 UP SEND DATA USER

 DATE SEC. COMES SITE RSLV OVER

FILE # NAME DD CODE W/FILE DATA PTS RIDE

702 CP TRANSACTION YES YES NO

[[23]](#footnote-23)702.001 CP\_TRANSACTION\_TIU\_HISTORY YES YES NO

702.01 CP DEFINITION YES YES NO

702.09 CP INSTRUMENT YES YES YES ADD NO NO

703.1 CP RESULT REPORT YES YES NO

[[24]](#footnote-24)703.9 CP CONVERSION YES YES NO

[[25]](#footnote-25)704.201 HEMODIALYSIS ACCESS POINTS YES YES NO

704.202 HEMODIALYSIS STUDY YES YES NO

704.209 HEMODIALYSIS SETTINGS YES YES NO

# Exported Options

## Delphi Components

Clinical Procedures uses RPC Broker and custom Delphi Components in the display and navigation of screens. Below is a list of the Delphi components this application currently uses along with a short description.

**TMDRecordSource = class(TComponent)**

This is the primary component that all others interact with. This component represents a record within FileMan via the Data Dictionary Number and the IEN. In the event that the record is a sub-file then this component will point to another TMDRecordSource that represents the parent record of the sub-record. There is no limit to the number of sub-records that can be linked together.

**TMDEdit = Class(TEdit)**

This component is designed to manage FileMan Free-Text and Numeric type fields. Other types may be used here with the exception of word-processing but they will require exact data input (i.e. non-ambiguous entries must be entered in the case of pointers or set of codes types). All input and output transforms are applied to the field on validation.

**TMDEditPointer = Class(TComboBox)**

This component is designed to manage FileMan Pointer types. This component currently handles screens via hard coded screens on the server side in routine MDRPCOR.

**TMDLabel = Class(TLabel)**

This component is a static component that can display one of three data elements for a FileMan field. These are 1) Data value 2) Field Title or 3) Field Help Text. There is no server update associated with this component.

**TMDMemo = Class(TMemo)**

This component manages FileMan word-processing data types only. It will validate the data upon leaving the component.

**TMDComboBox = Class(TComboBox)**

This component was designed for either set of codes or pointer type fields. If using a pointer type field the developer must be aware that the entire pointed to file will be retrieved so large files such as the Patient file (#2) is not possible to represent with this component. Files such as the State file (#5) are handled quite well if there are approximately 100 or less entries and the pointed to file does not have complex output transforms on the .01 field.

**TMDRadioGroup = Class(TRadioGroup)**

This field was designed specifically for the FileMan set of codes field. It loads the appropriate codes into the radio group and displays the ‘Stands For’ portion of the codes while storing to the database the internal value of the code.

**TMDCheckBox = Class(TCheckBox)**

This component was designed for a set of codes that are restricted to only two codes (i.e. Yes/No, True/False, On/Off).

## 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

 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

 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

 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

[[26]](#footnote-26)NAME: **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:

 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

 ^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

 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"^ICD IEN^ICD CODE^provider narrative category^

 provider narrative (Short Description)^Primary (1=Yes,0/Null=No)

 P1 = "POV" - ICD segment

 P2 = ICD internal entry number

 P3 = ICD 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

 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:

 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

 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

 ^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).

 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

## 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

[[27]](#footnote-27)NAME: **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

[[28]](#footnote-28)NAME: **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

 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

[[29]](#footnote-29)NAME: **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

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

[[30]](#footnote-30)NAME: **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

[[31]](#footnote-31)NAME: **MD DAYS TO RET COM MULT**

 DISPLAY TEXT: Days to Retain Completed Multiple Study

 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 after check-in date/time to display the study

 that has been completed in the CPUser application. This only

 pertains to studies that have procedures with multiple studies.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

NAME: **MD DEVICE SURVEY TRANSMISSION** DISPLAY TEXT: Device Survey Transmission

 MULTIPLE VALUED: No VALUE TERM: Yes/No

 PROHIBIT EDITING: No VALUE DATA TYPE: yes/no

 VALUE HELP: Enter 'Y' for 'YES' or 'N' for 'NO'.

 DESCRIPTION:

 Used to determine if the site wants to transmit the device survey to

 Hines. Enter 'Y' for 'YES' to send the survey or 'N' for 'NO' to

 suppress the transmission.

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

 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

[[32]](#footnote-32)NAME: **MD GET HIGH VOLUME** DISPLAY TEXT: Get High Volume

 MULTIPLE VALUED: Yes INSTANCE TERM: Procedure

 VALUE TERM: Get String VALUE DATA TYPE: free text

 INSTANCE DATA TYPE: pointer INSTANCE DOMAIN: 702.01

 INSTANCE HELP: Enter a high volume procedure.

 INSTANCE SCREEN CODE: I +$P(^MDS(702.01,+Y,0),"^",6)'=2&(+$P(^MDS(702.01,+Y,0)

,"^",11)'=2)&($P(^MDS(702.01,+Y,0),"^",9)>0)

 DESCRIPTION:

 This parameter will contain a free text string that contains two pieces

 of data delimited by a semicolon ';'. The two pieces of data are: 1)

 1/0 (Yes/No) to indicate whether or not the text of the result should be

 added to the note, 2) 1/0 (Yes/No) to enter the text of the result as the

 significant finding of the Consult. (If you enter a 0, the note will be

 auto closed with the text inside.)

 Example string: 1;0

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

[[33]](#footnote-33) 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

 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

[[34]](#footnote-34)NAME: **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

[[35]](#footnote-35)NAME: **MD NOT ADMN CLOSE MUSE NOTE** DISPLAY TEXT: NOT ADMN Close Muse Note

 MULTIPLE VALUED: No VALUE TERM: Yes/No

 PROHIBIT EDITING: No VALUE DATA TYPE: yes/no

 DESCRIPTION:

 This parameter is used to indicate the note should not be

 administratively closed with the proxy user CLINICAL, DEVICE PROXY

 SERVICE but the interpreter of the procedure for the MUSE device.

 The default is "No".

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

[[36]](#footnote-36)NAME: **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

[[37]](#footnote-37)NAME: **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.

If no value is entered, the default value is No.

PRECEDENCE: 1 ENTITY FILE: SYSTEM

[[38]](#footnote-38)NAME: **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

[[39]](#footnote-39)NAME: **MD USE NOTE** DISPLAY TEXT: Use Note

 VALUE TERM: Yes/No VALUE DATA TYPE: yes/no

 DESCRIPTION:

 This parameter indicates that Clinical Procedures will use the note

 for the text of the result instead of the Significant Finding field in

 Consult.

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

## Protocols

NAME: **MCAR Device Client** ITEM TEXT: Instrument Device Client

 TYPE: subscriber CREATOR: REDACTED

 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: REDACTED

 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: REDACTED

 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: REDACTED

 TIMESTAMP: 59276,54156 SENDING APPLICATION: MCAR-INST

 TRANSACTION MESSAGE TYPE: ORM EVENT TYPE: O01

 VERSION ID: 2.3

SUBSCRIBERS: MCAR ORM CLIENT

[[40]](#footnote-40)NAME: **MD RECEIVE GMRC**

 ITEM TEXT: Clinical Procedures receives messages from Consult

 TYPE: action CREATOR: REDACTED

 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: REDACTED

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This protocol receives order messages from CPRS. (IA 3135)

 ENTRY ACTION: D EN^MDWOR(.XQORMSG) TIMESTAMP: 60934,38793

## 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: |

## 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: REDACTED

 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: REDACTED

 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

[[41]](#footnote-41)NAME: **MD AUTO CHECK-IN SETUP** MENU TEXT: Auto Study Check-In Setup

 TYPE: run routine CREATOR: REDACTED

 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: REDACTED

 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: REDACTED

 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

[[42]](#footnote-42) NAME: **MD HIGH VOLUME PROCEDURE SETUP** MENU TEXT: High Volume Procedure Setup

 TYPE: run routine CREATOR: REDACTED

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This option will populate the XPAR Parameters MD GET HIGH

 VOLUME and MD NOT ADMN CLOSE MUSE NOTE. It will let the user populate a list

 of Clinical Procedures procedures set it up for high volume procedure process.

 ROUTINE: EN1^MDARSET

 UPPERCASE MENU TEXT: HIGH VOLUME PROCEDURE SETUP

NAME: **MD PROC W/INCOMPLETE WORKLOAD**

 MENU TEXT: Print list of Procedure with incomplete workload

 TYPE: run routine CREATOR: REDACTED

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This option prints a list of procedures that has incomplete

 workload for the visit.

 ROUTINE: E1^MDSTUDW

 UPPERCASE MENU TEXT: PRINT LIST OF PROCEDURE WITH I

NAME: **MD PROCESS RESULTS** MENU TEXT: MD Process Results

 TYPE: run routine CREATOR: REDACTED

 PACKAGE: CLINICAL PROCEDURES E ACTION PRESENT: YES

 DESCRIPTION: This task is ran daily for every hour to process results

 and update Consults package.

 ENTRY ACTION: N ZTSAVE S ZTSAVE("DUZ")=DUZ,ZTSAVE("DUZ(")=""

 ROUTINE: PROCESS^MDHL7XXX UPPERCASE MENU TEXT: MD PROCESS RESULTS

[[43]](#footnote-43)NAME: **MD HEMODIALYSIS USER** MENU TEXT: HEMODIALYSIS USER

 TYPE: Broker (Client/Server) CREATOR: REDACTED

 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

NAME: **MD STUDIES LIST**

 MENU TEXT: Clinical Procedures Studies List

 TYPE: run routine CREATOR: REDACTED

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This option will generate a list of Clinical Procedures

 studies.

 ROUTINE: EN2^MDSTUDL

 UPPERCASE MENU TEXT: CLINICAL PROCEDURES STUDIES LI

[[44]](#footnote-44)NAME: **MDCVT MANAGER**

  MENU TEXT: Medicine to CP Conversion Manager

  TYPE: menu                            CREATOR: REDACTED

  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: REDACTED

  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: REDACTED

  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

  UPPERCASE MENU TEXT: RUN THE CONVERSION PROCESS

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

  TYPE: print                           CREATOR: REDACTED

  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: REDACTED

  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: REDACTED

  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: REDACTED

  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: REDACTED

  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: REDACTED

  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: REDACTED

 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

[[45]](#footnote-45)NAME: **MD PROCESS NOSHOW/CANCEL**

 MENU TEXT: Process No Show/Cancel Studies

 TYPE: run routine CREATOR: REDACTED

 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

[[46]](#footnote-46)NAME: **MD DEVICE SURVEY TRANSMISSION** MENU TEXT: MD Device Survey Transmission

 TYPE: run routine CREATOR: REDACTED

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This option will run the device survey collection routine and

 capture the data for transmission.

 ROUTINE: COL^MDDEVCL

 UPPERCASE MENU TEXT: MD DEVICE SURVEY TRANSMISSION

NAME: **MD COORDINATOR** MENU TEXT: CP Coordinator Menu

 TYPE: menu

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This is the menu for the person that is the ADPAC for Clinical

 Procedures. It includes all of the user interface options.

ITEM: MD AUTO CHECK-IN SETUP

ITEM: MD HIGH VOLUME PROCEDURE SETUP

ITEM: MD DICOM

ITEM: MD CARTCL

ITEM: MD UTILITIES

NAME: **MD DICOM** MENU TEXT: CP - DICOM Interoperability

 TYPE: edit

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This option improves interoperability between Clinical

 Procedures and VistA Imaging CPRS Consult Request Tracking DICOM. There are

 three capabilities:

 First, the VistA Imaging consult accession number sss-GMR-nnnnnnnn can be

 used for the Clinical Procedures Instrument Order Number.

 Second, the timing of the DICOM Modality Worklist creation is changed from

 order release to check-in, making it much more useful.

 Third, the VistA Imaging HL7 message body can be used instead of the CP HL7

 message body. (The VistA Imaging HL7 has much more information than the CP

 HL7.)

 Note: This is for bidirectional CP instruments only. Also, the CP must have

 an entry in the CLINICAL SPECIALTY DICOM & HL7 file (#2006.5831) to have

 DICOM Modality Worklist and HL7.

 DIC {DIC}: MDS(702.09, DIC(0): AEQM

 DIE: MDS(702.09, DR {DIE}: .19

 UPPERCASE MENU TEXT: CP - DICOM INTEROPERABILITY

NAME: **MD CARTCL** MENU TEXT: Keep Consult Open for CART-CL

 TYPE: edit

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This Clinical Procedures Uni-directional Configuration flag

 'CONSULT KEEP OPEN' provides the following functionality:

 The CP procedure is automatically placed in Completed status after the HL7

 message is sent, thus preventing an "inbound" HL7 message containing the

 test results from being sent back to the CPRS Consult Note.

 The physician can then edit the Consult Note by manually pasting in data

 from a test result reporting system to complete the Consult.

 This modification is beneficial for users of reporting systems-such as the

 Clinical Assessment, Reporting, and Tracking System for Cardiac

 Catheterization Laboratories (CART-CL) application-who do not want the test

 results from the medical instrument to populate the CPRS Consult Note, but

 prefer to manually paste the test results from the reporting system into

 the Consult Note.

 The 'CONSULT KEEP OPEN' flag must be set to Yes for this functionality to

 work.

 DIC {DIC}: MDS(702.09, DIC(0): AEQM

 DIE: MDS(702.09, DR {DIE}: .401

 UPPERCASE MENU TEXT: KEEP CONSULT OPEN FOR CART-CL

NAME: **MD UTILITIES** MENU TEXT: Conversion Utilities

 TYPE: menu

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: Menu for the CP conversion utility options

ITEM: MD CONCONVERT SYNONYM: CO

ITEM: MD PROCONVERT SYNONYM: PR

 TIMESTAMP: 64875,49164

 UPPERCASE MENU TEXT: CONVERSION UTILITIES

NAME: **MD CONCONVERT**

 MENU TEXT: Consult to Clinical Procedure conversion utility

 TYPE: run routine

 LOCK: MD ADMINISTRATOR PACKAGE: CLINICAL PROCEDURES

 E ACTION PRESENT: YES X ACTION PRESENT: YES

 DESCRIPTION: This utility will convert existing (non-CP) consults in a

 pending status to a GMRC procedure.

 EXIT ACTION: K MDOPT("CONCONVERT") ENTRY ACTION: S MDOPT("CONCONVERT")=""

 ROUTINE: CONVERT^MDCONUTL

 UPPERCASE MENU TEXT: CONSULT TO CLINICAL PROCEDURE

NAME: **MD PROCONVERT**

 MENU TEXT: Procedure to Clinical Procedure conversion utility

 TYPE: run routine

 LOCK: MD ADMINISTRATOR PACKAGE: CLINICAL PROCEDURES

 E ACTION PRESENT: YES X ACTION PRESENT: YES

 DESCRIPTION: This utility will get all the pending, active and scheduled

 procedures for the selected REQUEST SERVICE and convert them to CP.

 EXIT ACTION: K MDOPT("PROCONVERT") ENTRY ACTION: S MDOPT("PROCONVERT")=""

 ROUTINE: CONVERT^MDCONUTL

 UPPERCASE MENU TEXT: PROCEDURE TO CLINICAL PROCEDUR

# Cross-References

Included in this section is the information about the cross-references of the application.

|  |  |  |  |
| --- | --- | --- | --- |
| **FILE NUMBER** | **FIELD NUMBER** | **CROSS REFERENCE** | **DESCRIPTION** |
| [[47]](#footnote-47)**702** | .05 | ACON | Used for searches when the user knows the Consult order number. |
|   | .3 | ACONV | This cross reference is used to keep track of which CP transaction study was created during the Medicine report conversion and which Medicine record it is associated with. |
|  | .06 | ATIU | Used for searches when the user knows the TIU Note title. |
|  | .01 | B | Regular B Cross Reference of the .01 field, the patient name. |
|  | .04 | ACP | Used for searches when the user knows the CP definition. |
|  | .11 | AINST | Used for searches when the user knows if the study was submitted to Imaging. |
|  | .12 | AION | Used to quickly retrievethe study ien from the instrument order number. |
|  | .09 | AS | It is a cross reference on the status of the CP study and it is used for quick look up. |
|   | .13 | AVISIT | This cross reference is used to make sure that a Visit file entry is not deleted as long as there is an entry. |
|   | .13 | AUPNV | This cross reference tells Visit Tracking how many file entries are using (point to) a Visit file entry. |
| Subfile 702.091 | .01 | B | Regular B Cross Reference of the .01 field, error messages. |
| Subfile 702.1 | .01 | B | Regular B Cross Reference of the .01 field, image. |
| **702.01** | .02 | ASPEC | Used for searches when the user knows the Treating Specialty. |
|  | .01 | B | Regular B Cross Reference of the .01 field, name of the procedure. |
|  | .01 | UC | Used to validate a new entry as unique without case sensitivity. |
| Subfile 702.011 | .01 | AINST | Used for searches when the user knows the name of the instrument. |
|  | .01 | B | Regular B Cross Reference of the .01 field, instrument. |

|  |  |  |  |
| --- | --- | --- | --- |
| **FILE NUMBER** | **FIELD NUMBER** | **CROSS REFERENCE** | **DESCRIPTION** |
| **[[48]](#footnote-48)702.09** | .01 | B | Regular B Cross Reference of the .01 field, name of the instrument. |
|  | .01 | UC | Used to validate a new entry as unique without case sensitivity. |
| **703.1** | .02 | ADFN | Used for searches when the user knows the patient name. |
|  | .03 | ADTP | Used for searches when the user knows the date/time performed. |
|  | .04 | AINST | Used for searches when the user knows the name of the instrument. |
|  | .09 | ASTATUS | Sets the status for the Gateway to find studies to process. |
|  | .05 | ASTUDYID | This cross reference provide a quick look up by the study reference ID. |
|  | .01 | B | Regular B Cross Reference of the .01 field, the upload ID. |
| Subfile 703.11 | .01 | B | Regular B Cross Reference of the .01 field, upload item. |
| **703.9** | .01 | B | Regular B Cross Reference of the .01 field, Name. |
| Subfile 703.91 | .01 | B | Regular B Cross Reference of the .01 field, Medicine File Parameters. |
| Subfile 703.92 | .01 | B | Regular B Cross Reference of the .01 field, Conversion ID. |
|  | .02 | AS | Used for lookup by conversion status. |
| **704.201** | .01 | B | Regular B Cross Reference of the .01 field, PATIENT ID. |
| **704.202** | .09 | AS | Used for lookup of active hemodialysis studies. |
|  | .01 | B | Regular B Cross Reference of the .01 field, the hemodialysis ID. |
|  | .02 | C | C Cross Reference of the .02 field, PATIENT record number. |
| **704.209** | .01 | B | Regular B Cross Reference of the .01 field, SETTING NAME. |

# Archiving and Purging

There is no archiving capability at this time. Purging is available in the CPGateway through the Set Maximum Log Entries option. See description below.

**Set Maximum Log Entries** allows the user to adjust the number of entries that are displayed in the log file. Once this value is reached, entries will be purged from the beginning of the log to keep the log file from growing too large. This value will take effect after the next polling operation so if the current poll value is 300 seconds it may take up to 5 minutes for the new value to be used. Allowable values are 100 to 10000 entries. When the CP Gateway is shut down, all entries are purged from the log file.

**Note**: Purging is also done daily while the CP Gateway is running. This purge deletes the raw data that comes across from the instrument. The CP Gateway keeps data for a specified number of days based on the entry in the system parameter “Days to keep Instrument Data”. Data older than this will be purged. The data to be deleted is already matched with a study. The fields purged are the Item Value field (#.1) and Item Text field (#.2) of the Upload Item multiple in the CP Results file (#703.1).

Figure ‑

# Callable Routines

[[49]](#footnote-49)Entry points provided by the Clinical Procedures V. 1.0 package to other packages are listed below.

**Routine: MDAPI (Controlled Subscription)**

 COMPONENT: $$EXTDATA(MDPROC)

 VARIABLES: MDPROC

 Type: Input

 The CP Definition IEN from CP DEFINITION

 file (702.01)

 Type: Output

 This is an extrinsic function and it

 returns: 1/0 for Yes/No.

 Entry Point to check if a medical device is associated with

 the CP Definition.

 COMPONENT: $$TIUCOMP(MDNOTE)

 VARIABLES: MDNOTE Type: Input

 The TIU Document IEN from TIU DOCUMENT

 file (#8925).

 $$TIUCOMP Type: Output

 This is an Extrinsic Function and it

 returns: 0/1 for fail/success of

 transaction completion.

 Entry Point to complete a CP transaction.

 COMPONENT: $$TIUDEL(MDNOTE)

 VARIABLES: MDNOTE Type: Input

 The TIU Document IEN from TIU DOCUMENT

 file (#8925).

 Entry Point to clean up the CP Transaction file entry of

 the TIU Note that was deleted.

 COMPONENT: ISTAT(MDARR)

 VARIABLES: MDARR Type: Input

 An array of the following:

 MDARR(0)="0^error message" or "1^success

 message"

 MDARR(1)=TrackID (CP;Transaction IEN)

 MDARR(2)=Image(s) Queue Number

 MDARR(3..N)=Warnings, if error(s) exist.

 Entry Point to update Clinical Procedures of the result of

 the image(s) that was copied to the Imaging Server.

 COMPONENT: ITIU(RESULTS,DFN,CONSULT,VSTRING)

 VARIABLES: RESULTS Type: Output

 RESULTS(0) will equal one of the

 following (Required)

 ; IEN of the TIU note if successful

 ; or on failure one of the following status messages

 ; -1^No patient DFN

 ; -1^No Consult IEN

 ; -1^No VString

 ; -1^Error in CP transaction

 ; -1^Unable to create CP transaction

 ; -1^Unable to create the TIU document

 ; -1^No such consult for this patient.

 DFN Type: Input

 Patient IEN. (Required)

 CONSULT Type: Input

 Consult IEN. (Required)

 VSTRING Type: Input

 VString data for TIU Note. (Required)

 This entry point enables VistA Imaging to retrieve/create a

 TIU note for a consult for attaching images to.

 COMPONENT: $$TIUREAS(MDFN,MDOLDC,MDANOTE,MDNDFN,MDNEWC,MDNEWV,MDNTIU)

 VARIABLES: MDFN Type: Input

 Patient DFN in Patient File (#2).

 MDOLDC Type: Input

 The old consult number that the TIU note

 is being re-assigned from.

 MDANOTE Type: Input

 The TIU Note internal Entry Number that

 is being re-assigned.

 MDNDFN Type: Input

 The patient DFN who will be re-assigned

 to the TIU document.

 MDNEWC Type: Input

 The new consult number that will be

 re-assigned to the TIU document.

 MDNEWV Type: Input

 The new visit for the TIU document

 assignment.

 MDNTIU Type: Input

 The new re-assigned TIU document internal

 entry number.

 $$TIUREAS Type: Output

 This is an extrinsic function and it

 returns: 1 for Success or 0^Error

 Message.

 This entry point enables TIU to notify CP that a TIU note

 was reassigned and CP needs to clean up and update the TIU

 note re-assignment.

 **ROUTINE: MDRPCOP (Private Subscription)**

 COMPONENT: GETVST

 VARIABLES: DFN Type: Input

 Patient's dfn.

 RESULTS Type: Output

 A subscripted array that contains a list

 of visits:

 1st piece has 3 pieces delimited by an

 ";"

 Patient DFN in Patient File (#2).

 - type of visit ("A","I","V")

 - date and time

 - hospital location ien

 2nd piece - date/time of visit

 (internal format)

 3rd & 4 piece - (external format)

 hospital location and status.

 This sub-module returns a list of visits for a given

 patient.

 **ROUTINE: MDAPI1 (Private Subscription)**

 COMPONENT: GET(RESULTS,MDARDFN,MDSDT,MDEDT,MDFLDS)

 VARIABLES: RESULTS Type: Both

 Input: The global ^TMP array in which to

 return results. (Required)

 Output: Passed by Reference

 Global array returned in the FM

 DIQ call

 format:

 MDARDFN Type: Input

 The patient DFN (Required).

 MDSDT Type: Input

 The start date of the date range to

 return the data in. This must be in FM

 internal format. (Required).

 MDEDT Type: Input

 The end date of the date range to return

 the data in. This must be in FM internal

 format. (Required).

 MDFLDS Type: Input

 A list of fields from file #691.5 to be

 returned in RESULTS. MDFLDS should

 contain a list of fields delimited by ";"

 (Required).

 example: MDFLDS=".01;11;20..."

 Example API call:

 S RESULTS="^TMP(""NAMESPACE"",$J)"

 D

 GET^MDAPI1(.RESULTS,162,2900101,3021001,

 ".01;11")

 return:

 ^TMP("NAMESPACE",$J,file #,record

 ien\_","

 ,field #,"E")=Data

 ^TMP("NAMESPACE",$J,subfile #,entry

 #\_","\_

 record ien field of the

 multiple,"E")=data

 ^TMP("NAMESPACE",$J,0) will equal

 one of the

 following,

 If the call failed:

 -1^No Patient DFN.

 -1^No Start Date Range

 -1^No End Date Range.

 -1^Start Date greater than

 End Date.

 -1^No fields defined.

 If a local variable is defined

 in RESULTS,

 ^TMP("MDAPI",$J,0) equals

 -1^Global TMP array only.

 If no return array defined,

 ^TMP("MDAPI",$J,0) equals

 -1^No return array global.

 If no data,

 ^TMP("NAMESPACE",$J,0) equals

 -1^No data for patient.

 **ROUTINE: MDPS1 (Controlled Subscription)**

 COMPONENT: CPA~MDPS1

 VARIABLES: DFN Type: Input

 Patient Internal Entry Number. (Required)

 GMTS1 Type: Input

 The ending date in inverse date format

 (9999999-date/time). (Required)

 GMTS2 Type: Input

 The beginning date in inverse date format

 (9999999-date/time). (Required)

 GMTSNDM Type: Input

 The maximum number of entries to return.

 (Optional)

 GMTSNPG Type: Input

 The Page Number. (Optional)

 GMTSQIT Type: Input

 Quit indicator. (Optional)

 This entry point will display Clinical Procedures result

 report that have the Procedure Summary Code of ABNORMAL.

 The result consists of the Display Result of the Consult

 procedure request, if it exists, and the TIU document text.

 COMPONENT: CPB~MDPS1

 VARIABLES: DFN Type: Input

 Patient Internal Entry Number. (Required)

 GMTS1 Type: Input

 The ending date in inverse date format

 (9999999-date/time). (Required)

 GMTS2 Type: Input

 The beginning date in inverse date format

 (9999999-date/time). (Required)

 GMTSNDM Type: Input

 The maximum number of entries to return.

 (Optional)

 GMTSNPG Type: Input

 The Page Number. (Optional)

 GMTSQIT Type: Input

 Quit indicator. (Optional)

 This entry point will display a brief summary of the

 Clinical Procedures result Report. It displays the

 Consults # (if it exists), Procedure Name, Date/Time

 Performed, and the Procedure Summary Code.

 COMPONENT: CPF~MDPS1

 VARIABLES: DFN Type: Input

 Patient Internal Entry Number. (Required)

 GMTS1 Type: Input

 The ending date in inverse date format

 (9999999-date/time). (Required)

 GMTS2 Type: Input

 The beginning date in inverse date format

 (9999999-date/time). (Required)

 GMTSNDM Type: Input

 The maximum number of entries to return.

 (Optional)

 GMTSNPG Type: Input

 The Page Number. (Optional)

 GMTSQIT Type: Input

 Quit indicator. (Optional)

 This entry point displays the full Clinical Procedures

 result report. The full report consists of the Display

 Result of the Consult procedure, if it exists, and the TIU

 document text.

 COMPONENT: CPS~MDPS1

 VARIABLES: DFN Type: Input

 Patient Internal Entry Number. (Required)

 GMTS1 Type: Input

 The ending date in inverse date format

 (9999999-date/time). (Required)

 GMTS2 Type: Input

 The beginning date in inverse date format

 (9999999-date/time). (Required)

 GMTSNDM Type: Input

 The maximum number of entries to return.

 (Optional)

 GMTSNPG Type: Input

 The Page Number. (Optional)

 GMTSQIT Type: Input

 Quit indicator. (Optional)

 This entry point displays a one line summary of the

 Clinical Procedures result report. The one line summary

 consists of the Consult Number, if it exists, Procedure

 Name, Date/Time Performed, and the Procedure Summary Code.

 COMPONENT: EN1~MDPS1(MDGLO,MDDFN,MDSDT,MDEDT,MDMAX,MDPSC,MDALL)

 VARIABLES: MDGLO Type: Both

 Return Global Array (Required)

 MDDFN Type: Input

 Patient DFN (Internal Entry Number)

 (Required)

 MDSDT Type: Input

 Start Date in FM Internal Format

 (Optional)

 MDEDT Type: Input

 End Date in FM Internal Format (Optional)

 MDMAX Type: Input

 Number of studies to return (Optional)

 MDPSC Type: Input

 Procedure Summary Code to return. The

 four Procedure Summary Code are NORMAL,

 ABNORMAL, BRODERLINE, and INCOMPLETE. By

 passing this parameter, the entry point

 will pass studies with this Procedure

 Summary Code. (Optional)

 MDALL Type: Input

 MDALL is flag. If MDALL =1, it

 identifies that all text reports with the

 procedures list should be returned.

 This entry point returns a global Array.

 COMPONENT: PR690~MDPS1

 VARIABLES: MCARGDA Type: Input

 The internal entry number of the Medicine

 report record.

 MCPRO Type: Input

 The free text of the Medicine procedure

 name in the Procedure/Subspecialty file

 (#697.2).

 DFN Type: Input

 Patient internal entry number.

 ORHFS Type: Input

 Order Entry Host File.

 Prints the free text of the Medicine report.

 COMPONENT: PR702~MDPS1

 VARIABLES: MCARGDA Type: Input

 The internal entry number of the CP

 Transaction record in file (#702).

 MCPRO Type: Input

 The free text of the CP Definition name

 in file (#702.01).

 DFN Type: Input

 Patient internal entry number.

 ORHFS Type: Input

 The Order Entry Host File.

 Prints the free text of the Clinical Procedures result

 interpretation.

 COMPONENT: CPC~MDPS1

 VARIABLES: DFN Type: Input

 Patient Internal Entry Number. (Required)

 GMTS1 Type: Input

 The ending date in inverse date format

 (9999999-date/time). (Required)

 GMTS2 Type: Input

 The beginning date in inverse date format

 (9999999-date/time). (Required)

 GMTSNDM Type: Input

 The maximum number of entries to return.

 (Optional)

 GMTSNPG Type: Input

 The Page Number. (Optional)

 GMTSQIT Type: Input

 Quit indicator. (Optional)

 This entry point displays the Captioned Clinical Procedures

 result report. The captioned report displays the Display

 Result of the Consult procedure, if it exists, and the TIU

 document text.

# External Relations

1. The following describes the installation environment for Version 1.0 of the Clinical Procedures package on the VistA server:

1. VA FileMan V. 22 or greater

2. Kernel V. 8.0 or greater

3. Kernel Toolkit V. 7.3 or greater

4. Kernel RPC Broker V. 1.1 or greater

5. PIMS (Patient Information Management System) V. 5.3 or greater (including):

a. Registration V. 5.3

b. Scheduling V. 5.3

6. Health Summary V. 2.7 or greater

7. HL7 (Health Level 7) V. 1.6 or greater

8. Consults/Request Tracking V. 3.0

9. TIU (Text Integration Utility) V. 1.0

10. Order Entry V. 3.0 (CPRS (Computerized Patient Record System) V. 1.0 (GUI V. 18.8)) or greater

11. PCE (Patient Care Encounter) V. 1.0 or greater

12. VistA Imaging V. 3.0 or greater (includes installation of background processor and jukebox)

13. Medicine V. 2.3 (optional)

14. Vitals V 5.0 (optional)

These packages must be patched up through and including the following patches before Clinical Procedures is installed:

1. Patch 17 of Consults/Request Tracking V. 3.0 (GMRC\*3.0\*17)

2. Patch 112 of Order Entry V. 3.0 (OR\*3.0\*112)

3. Patch 109 of Text Integration Utility V. 1.0 (TIU\*1.0\*109)

4. Patch 7 of Imaging V. 3.0 (MAG\*3.0\*7)

5. Patch 93 of HL7 V. 1.6 (HL\*1.6\*93)

6. Patch 98 of HL7 V. 1.6 (HL\*1.6\*98)

7. If Medicine V. 2.3 is installed, you must install Patch 24 of Medicine (MC\*2.3\*24), and Patch 146 of Kernel (XU\*8.0\*146).

2. [[50]](#footnote-50)Interface Control Registrations (formerly known as Integration Agreements) between the Clinical Procedures software and other VistA applications exist. Database Interface Control Registrations (DICR) are available on the DBA menu on Forum. For complete information regarding the DICRs for Clinical Procedures V. 1.0, please refer to the *Integration Control Registrations (Agreements)* *Menu* [DBA IA ISC] option under the *DBA* [DBA] option on FORUM.

[[51]](#footnote-51)The following screen capture shows one way to access the DBA option in FORUM:

Select Software Services Primary Menu Option: DBA

Select DBA Option: IA  Integration Control Registrations (Agreements)

Select Integration Control Registrations (Agreements) Option: CUST  Custodial Package Menu

Select Custodial Package Menu Option: ?

   1      ACTIVE ICRs by Custodial Package

   2      Print ALL ICRs by Custodial Package

   3      Supported References Print All

Enter ?? for more options, ??? for brief descriptions, ?OPTION for help text.

Select Custodial Package Menu Option: 1  ACTIVE ICRs by Custodial Package

Select PACKAGE NAME: MD  CLINICAL PROCEDURES     MD

DEVICE: HOME//

# Internal Relations

[[52]](#footnote-52)The following are the Clinical Procedures GUI Application menu option, the Clinical Procedures Site Files menu option, and the CP Hemodialysis menu option. Only the MD GUI MANAGER can be invoked independently. The MD GUI USER and MD HEMODIALYSIS USER menu option cannot be invoked independently. They are dependent upon each other. In order to use each module, please refer to the Clinical Procedures Implementation Guide to set up Clinical Procedures.

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

 TYPE: Broker (Client/Server) CREATOR: REDACTED

 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: REDACTED

 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

[[53]](#footnote-53)NAME: **MD HEMODIALYSIS USER** MENU TEXT: HEMODIALYSIS USER

 TYPE: Broker (Client/Server) CREATOR: REDACTED

 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

# Package-wide Variables

No package-wide variables are used in this application.

# SAC Exemptions

There is one SAC exemption for Clinical Procedures.

1. STANDARD SECTION: 3A Namespacing

DATE GRANTED: APR 25,2002

Since the Medicine package has become a child of the Clinical Procedures package, the Clinical Procedures package is exempt from being required to export the Medicine package as part of the Clinical Procedures package.

# Software Product Security

## Security Management

No additional security measures are to be applied other than those implemented through Menu Manager and the package routines. Clinical Procedures uses the standard RPC broker log-in procedure to validate the user and allow access to the system.

No additional licenses are necessary to run the software.

Confidentiality of staff and patient data and the monitoring of this confidentiality is no different than with any other paper reference.

## Security Features

1. Mail groups and alerts.

There is one mailgroup associated with this software. This mailgroup is called MD DEVICE ERRORS. The purpose of this mailgroup is to store a list of people who will be notified if a problem arises with an automated instrument. There is one alert in the software that occurs on the VistA server if the package installation does not finish. This alert is sent to the IRMS staff member who ran the installation.

2. Remote systems.

The application does not transmit data to any remote system/facility database.

3. Archiving/Purging.

Refer to the chapter on [Archiving and Purging](#_Archiving_and_Purging), in this manual. Purging is available in the CPGateway, refer to the Clinical Procedures Gateway chapter in the Clinical Procedures Implementation Guide for more information.

4. Contingency Planning.

It is the responsibility of the using service to develop a local contingency plan to be used in the event of application problems. It is recommended that the CP Gateway be installed on a second machine as a backup in case the initial workstation containing the CP Gateway fails.

5. Interfacing.

No specialized (non VA) interfaces are used or required by the application.

6. Electronic signatures.

Electronic signatures are not used in the Clinical Procedures package.

7. Menus.

There are no options of special note for the Information Security Officers (ISO’s) to view.

8. Security Keys.

The MD MANAGER key controls access to the 'Update Study Status' and the 'Delete Study' options. A user holding this key will be able to use the 'Update Study Status' option on any study currently displayed on the screen. Holders of this key will also be taken directly to the 'Update Study Status' option when opening a study marked in status 'Error'. The 'Update Study Status' option does not do any validation on the new status assigned to the study. The 'Delete Study' option will attempt to delete the study after checking the business rules on the VistA server for the study given its current status and state on the server. This key should be given only with extreme care and only to those users that fully understand the status structure, and the ramifications of changing the status or deletion of a study.

9. File Security.

 DD RD WR DEL LAYGO AUD

NUMBER NAME GLOBAL NAME ACC ACC ACC ACC ACC ACC

702 CP TRANSACTION ^MDD(702, @ @ @

[[54]](#footnote-54)702.001 CP\_TRANSACTION\_TIU\_HISTORY ^MDD(702.001, @ @ @ @ @ @

702.01 CP DEFINITION ^MDS(702.01, @ # # #

702.09 CP INSTRUMENT ^MDS(702.09, @ # # # @

703.1 CP RESULT REPORT ^MDD(703.1, @ @ @ @ @

[[55]](#footnote-55)703.9 CP CONVERSION ^MDD(703.9, @ # # # # #

[[56]](#footnote-56)704.201 HEMODIALYSIS ACCESS POINTS ^MDK(704.201, @ @ @

704.202 HEMODIALYSIS STUDY ^MDK(704.202 @ @ @

704.209 HEMODIALYSIS SETTINGS ^MDK(704.209 @ @ @

10. References.

There are no special reference materials for this package.

11. Official Policies.

There are no special official policies for this package.

# [[57]](#footnote-57)Vendor Interfaces

## List of Vendor Interfaces

[[58]](#footnote-58)The Puritan Bennett Clinivision, Olympus Endoworks, GE Healthcare Muse and Cardinal Health Sensormedics V-max automated device interfaces are exported with CP. Many other device interfaces are also available and you can view the complete list by visiting the Clinical Procedures website (<http://vista.med.va.gov/ClinicalSpecialties/clinproc>). [[59]](#footnote-59)From the Home page, select **Find a Device** and then search for devices by manufacturer, by type, or by name.

Visit the Clinical Procedures website to view specific information for a particular device.

Click the **vendor** name to view the web page.

|  |  |  |  |
| --- | --- | --- | --- |
| **Device** | **Vendor** | **Type of Procedure Performed** | **Type of report with Discrete data included** |
| [[60]](#footnote-60)Clinivision | [Puritan Bennett](http://www.puritanbennett.com/) | Respiratory | Text |
| Endoworks | [Olympus](http://www.olympus.com) | Bronchoscopy, Colonoscopy, EGD, EGDPEG, Endoscopy, ERCP, Endo Ultrasound, Enteroscopy, Liver Biopsy, Paracentesis, Sigmoidoscopy | Text, GIF, JPG |
| Muse | [GE Healthcare](http://www.gehealthcare.com/worldwide.html) | ECG, Exercise, Holter, Pacemaker ECG | PDF |
| Sensormedics V-max | [Cardinal Health](http://www.cardinal.com/) (formerly Viasys/Sensormedics) | PFT | PDF |
| [[61]](#footnote-61)Exalis | [Gambro](http://www.gambro.com/) | Dialysis | XML |
| UPF Hemodialysis | [B.Braun Melsungen AG](http://www.bbraun.com/) | Dialysis | XML |
| Hypercare | [Fresenius Medical Care](http://www.fmc-ag.com/) | Dialysis | XML |

For the latest vendor information, please see the Clinical Procedures website (<http://vista.med.va.gov/ClinicalSpecialties/clinproc>).

## Device Setup Instructions

Here are the setup instructions and vendor contact for each device.

### Clinivision

**Vendor:** Puritan Bennett   **Type:** Respiratory

**Description:**

The uni-directional interface for this instrument is currently available.

**Requirements:**

This instrument requires a Clinivision vendor interface.

**Setup Instructions:**

This section describes the installation setup for the Clinivision system. Note that a new Protocol and HL Logical Link will need to be created for this device since it is a Persistent connected device. Clinivision is not a bi-directional device. **Note:** Bi-Directional Capabilities checkbox is **not** checked. Therefore, no outbound HL Logical Link is needed and you do not need to enter any bi-directional information.

Figure ‑

Figure 15‑1 displays the settings for the Clinivision device in CP Manager.

NODE: MCAR3 INST LLP TYPE: TCP

 DEVICE TYPE: Single-threaded Server STATE: Reading

 TIME STARTED: SEP 18, 2002@11:45:27 TASK NUMBER: 321004

 SHUTDOWN LLP ?: NO QUEUE SIZE: 100

 RE-TRANSMISSION ATTEMPTS: 3 READ TIMEOUT: 60

 ACK TIMEOUT: 60 EXCEED RE-TRANSMIT ACTION: ignore

 TCP/IP PORT: 1030 TCP/IP SERVICE TYPE: SINGLE LISTENER

 PERSISTENT: YES STARTUP NODE: ROU:614A01

 IN QUEUE BACK POINTER: 1790 IN QUEUE FRONT POINTER: 1790

 OUT QUEUE BACK POINTER: 1789 OUT QUEUE FRONT POINTER: 1789

Figure ‑

Figure 15‑2 shows an entry in the HL Logical Link file for the Clinivision device.

NAME: MCAR3 Device Client ITEM TEXT: Instrument HL7 Event Driver

 TYPE: subscriber CREATOR: ACKERMAN,BILL

 PACKAGE: CLINICAL PROCEDURES

 DESCRIPTION: This Protocol is used by the HL7 Package to send results to Vista from the Clinivision Instrument.

 IDENTIFIER: E TIMESTAMP: 59039,32152

 SENDING APPLICATION: INST-MCAR RECEIVING APPLICATION: MCAR-INST

 TRANSACTION MESSAGE TYPE: ORU EVENT TYPE: R01

 PROCESSING ID: P LOGICAL LINK: MCAR3 INST

 VERSION ID: 2.3 RESPONSE MESSAGE TYPE: ACK

 PROCESSING ROUTINE: D ^MDHL7A SENDING FACILITY REQUIRED?: NO

 RECEIVING FACILITY REQUIRED?: NO

Figure ‑

Figure 15‑3 shows the new Protocol that will need to be entered for the Link.

Figure ‑

[[62]](#footnote-62)Figure 15‑4. The device will need to be linked to a procedure in CP Manager.

Contact Clinivision and ask the contact to report the device to the production account, port 1030.

**Transmission Instructions**:

No information available at this time.

Manuals:

No information available at this time.

**Vendor Contacts:**

<http://www.clinivision.com/contact/>

**Trouble Shooting**:

Is the machine plugged in?

Is the machine on?

Are all cables connected correctly?

### Endoworks

**Vendor:** Olympus    **Type:** Bronchoscopy, Colonoscopy, EGD, EGDPEG, Endoscopy, ERCP, Endo Ultrasound, Enteroscopy, Liver Biopsy, Paracentesis, Sigmoidoscopy

**Description**:

The bi-directional interface for this instrument is currently available.

Requirements:

This instrument requires an Advanced Gateway vendor interface.

**Setup Instructions**:

The Olympus Interface is a non-persistent interface and can share its TCP/IP port address with other non-persistent devices. To configure the Olympus (Endoworks) software, it is recommended that you consult Olympus. Olympus has the correct setting for the Endoworks software that is needed to interface with CP.

[[63]](#footnote-63) The site will need to set up an Olympus type in CPManager.exe for each type of procedure, (such as Olympus (Bronchoscopy), Olympus (Colonoscopy), etc.). Please refer to the Clinical Procedures web site for the device settings for each type of procedure.

NODE: MCAR INST LLP TYPE: TCP

 DEVICE TYPE: Single-threaded Server STATE: Reading

 TIME STARTED: SEP 18, 2002@11:45:27 TASK NUMBER: 321004

 SHUTDOWN LLP ?: NO QUEUE SIZE: 100

 RE-TRANSMISSION ATTEMPTS: 3 READ TIMEOUT: 60

 ACK TIMEOUT: 60 EXCEED RE-TRANSMIT ACTION: ignore

 TCP/IP PORT: 1030 TCP/IP SERVICE TYPE: SINGLE LISTENER

 PERSISTENT: NO STARTUP NODE: ROU:614A01

 IN QUEUE BACK POINTER: 1790 IN QUEUE FRONT POINTER: 1790

 OUT QUEUE BACK POINTER: 1789 OUT QUEUE FRONT POINTER: 1789

Figure ‑

Figure 15‑5 displays the settings for the standard non-persistent inbound HL Logical Link.

NODE: MCAR OUT LLP TYPE: TCP

 DEVICE TYPE: Non-Persistent Client STATE: Idle

 AUTOSTART: Enabled TIME STARTED: FEB 25, 2008@08:57:54

 TASK NUMBER: 3231951 SHUTDOWN LLP ?: NO

 QUEUE SIZE: 100

 RE-TRANSMISSION ATTEMPTS: 3 READ TIMEOUT: 60

 ACK TIMEOUT: 60 EXCEED RE-TRANSMIT ACTION: ignore

 TCP/IP ADDRESS: 10.3.17.141 TCP/IP PORT: 9027

 TCP/IP SERVICE TYPE: CLIENT (SENDER) PERSISTENT: NO

 STARTUP NODE: DEV:DEVISC4A1 IN QUEUE BACK POINTER: 244

 IN QUEUE FRONT POINTER: 244 OUT QUEUE BACK POINTER: 251

 OUT QUEUE FRONT POINTER: 244

Figure ‑

Figure 15‑6 displays the settings for the standard non-persistent outbound HL Logical Link.

**Transmission Instructions:**

No information available at this time

Manuals:

No information available at this time.

Costs:

No information available at this time.

Trouble Shooting:

Is the machine plugged in?

Is the machine on?

Are all cables connected correctly?

### Muse

**Vendor:** GE Healthcare    **Type:** ECG

**Description:**

The bi-directional interface for this instrument is currently available.

**Requirements:**

This instrument requires a Muse HL7 vendor interface.

**Setup Instructions:**

The Muse Interface is a Persistent Interface and must have its own TCP/IP Port address. For configuring the Muse software, it is recommended that you consult with GE Healthcare. GE Healthcare has the correct setting for the Muse software that is needed to interface with CP.

[[64]](#footnote-64)The Muse can be set up for different Cardiology procedures such as Holter and Exercise Tolerance Test. Please refer to the Clinical Procedures web page for the setup of the device in CPManager.exe for each type of procedure.

**Transmission Instructions:**

To send data to Clinical Procedures once the results have been sent from the Cart to the MUSE server, follow these steps:

1. The MUSE generated hard copy is assigned to a cardiologist for over-reading (reviewing).
2. Changes are made on the interpretation, signed by the doctor and returned to the EKG Department.
3. EKG Tech logs on to the MUSE. (All users of the MUSE are assigned a number and password with certain levels of NECESSARY access.)
4. EKG Tech selects over reader (reviewing Cardiologist).
5. EKG Tech selects the patient.
6. EKG Tech selects and then edits the interpretation.
7. EKG Tech selects either Confirm and Print, or Confirm.  If Confirm and Print is selected, the HL7 result is sent, and the report is printed.  If only Confirm is selected, just the HL7 result is sent.

**Manuals:**

No information available at this time.

**Costs:**

No information available at this time.

**Trouble Shooting:**

1. Is the machine plugged in?
2. Is the machine on?
3. Are all cables connected correctly?

### Sensormedics V-MAX

**Vendor:** Cardinal Health    **Type:** PFT

**Description:**

The bi-directional interface for this instrument is currently available.

**Requirements:**

This instrument requires a Netlink vendor interface.

**[[65]](#footnote-65)Configuration Files:**

This file contains the configuration parameters for the Vmax software.  The vendor should already have a copy of this file.

**Setup Instructions:**

The Sensormedics Interface is a Non-Persistent Interface and can share TCP/IP ports with other Non-Persistent device interfaces. The Sensormedics V-MAX software must have a shared directory to hold the report document that is created. The directory might be on the PC or on a network share. The key point is that the directory must be accessible from the Sensormedics V-MAX software.

1. Start the Sensormedics V-MAX software.
2. Click on the Reports Button.
3. Select the Netlinks/IS menu from the menu bar.
4. Select TCP/IP from the File Menu on the menu bar.
5. Enter the TCP/IP and Port address to the listener that will be receiving the data from the Sensormedics V-MAX software.
6. Exit back to the Reports Screen.
7. Select Setup from the File Menu and enter the Full NETWORK path to the Share directory where you want the PDF document to be stored.

**Transmission Instructions:**

A path must be setup where the PDF report will be stored prior to being transmitted to V*IST*A Imaging. This path is usually preset to C:\PDFFiles\ and should be changed to \\(PC Network name)\PDFFiles\. Also, the directory C:\PDFFiles should have Share enabled with Read, Write, Delete permissions for both Imaging and the PC on which the share directory exists.

The following instructions are for transmitting the final patient report to Clinical Procedures.

**Note:** If the patient whose results you wish to send is already being displayed on the monitor, you can start at step 5.

1. From the Vmax Program Manager screen click the Find Patient Button.   The Find Patient window opens. No patients are displayed.

1. Set search criteria (Last Name, ID, etc.) if any, and click on F1.  A list of patients matching your search criteria appears.
2. Select the patient whose results you wish to send by clicking on their name.  The selected patient’s name is highlighted.
3. Click the F3 button to load the selected patients results data.  The Vmax Program Manager screen reappears.
4. From the Vmax Program Manager screen click the Reports Button.   The Reports screen appears.

1. Select the report to process for this patient from the Reports selection box on the left side of the screen.  The selected report appears in the upper left box as the Default Patient Report.
2. From the Menu bar click the PrintPDF button to compile the PDF report.  A dialog box appears momentarily, indicating the progress of the PDF file creation.
3. From the Menu bar click Netlink/IS® to open the Netlink Transmission Manager. The Transmission Manager screen appears

**Files to be backed up:**

You need to backup these files to preserve the operation of Vmax.  These files should be backed up after the Vmax is working in production.  This list was last updated on May 13, 2003.

**Vision folder files used in Netlink communications.**

(Depending on software version and configuration, not all files may be present) All files are located in the C:\Vision folder

The following files **always exist** and have **user-modifiable** content

|  |  |
| --- | --- |
| * Id\_text.dbf
 | * Invalid.dbf
 |
| * Text\_cfg.dbf
 | * Xmit\_cfg.dbf
 |
| * Xmitcom.dbf
 | * Xmithdft.dbf
 |
| * Xmithost.dbf
 | * Xmitparm.dbf
 |
| * Xmitpath.dbf
 | * Xmitxref.dbf
 |

The following files **sometimes exist** and have **user-modifiable** content: They should be manually copied if needed.

|  |  |
| --- | --- |
| * Except
 | * Replace
 |
| * User\_1.dbf
 | * User\_2.dbf
 |
| * User\_3.dbf
 | * User\_4.dbf
 |
| * User\_5.dbf
 | * User\_6.dbf
 |
| * User\_7.dbf
 | *
 |

The following files are shipped **standard** with the software and are **NOT user-modifiable**. They should only be loaded from the software install disk.

|  |  |
| --- | --- |
| * Batchsnd.db1
 | * Ctrl\_str.dbf
 |
| * Received.txt
 | * Response.txt
 |
| * Smascii.dbf
 | * Smhl7def.dbf
 |
| * Smvadef.dbf
 | * Xexcept.dbf
 |
| * Xmiticon.dbf
 | * Xmitprm.dbf
 |
| * Xreplace
 |    |

The following files are **modified by the software** during operation and **should NOT be user-modified**: They should only be generated by running the software.

|  |  |
| --- | --- |
| * Batchsnd.dbf
 | * Fileout1.txt
 |
| * Fileout2.txt
 | * Text\_rpt.dbf
 |
| * Text\_rpt.fpt
 | * Usehost
 |

[[66]](#footnote-66)Please refer to the Clinical Procedures web page for the device setup in CPManager.exe.

Manuals:

No information available at this time.

Costs:

No information available at this time.

Trouble Shooting:

Is the machine plugged in?

Is the machine on?

Are all cables connected correctly?

### [[67]](#footnote-67)B. Braun

**Vendor:** B. Braun Melsungen AG **Type:** Hemodialysis

**Description:**

Both uni-directional and bi-directional interfaces for this instrument are currently available.

**Requirements:**

This device uses B. Braun’s UPF Hemodialysis software.

**Setup Instructions (B. Braun Device Settings for CP Manager)**

|  |  |
| --- | --- |
| **Setting For:** | Clinical Procedures Device Manager |
| **Procedure Type (HL7 Universal Service ID)** | BRAUN (Bi-Directional)  |
| **Settings:** | Device Setup for the BRAUN (Bi-Directional)-------------------------------------------------------------------------------NAME: BRAUN (Bi-Directional)PRINT NAME: BBRAUNDESCRIPTION: BBraun Dialysis Device InterfaceM ROUTINE: MDHL7DPACKAGE CODE: CP V1.0ATTACH: UNC BI-DIRECTIONAL: YESHL7 INST: BRAUNHL7 UNIVERSAL SERVICE ID: -------------------------------------------------------------------------------Verified at Hines By: W. A. Ackerman |

### [[68]](#footnote-68)Fresenius Medical Care

**Vendor:** Fresenius Medical Care **Type:** Hemodialysis

**Description:**

Both uni-directional and bi-directional interfaces for this instrument are currently available.

**Requirements:**

This device uses Fresenius’s Hypercare software.

#### Setup Instructions (Hypercare Device Settings for CP Manager)

|  |  |
| --- | --- |
| **Setting For:** | Clinical Procedures Device Manager |
| **Procedure Type (HL7 Universal Service ID)** | Fresenius (Bi-directional)  |
| **Settings:** | Device Setup for the Fresenius (Bi-directional)-------------------------------------------------------------------------------NAME: Fresenius (Bi-directional)PRINT NAME: FreseniusDESCRIPTION: Fresenius Dialysis Device InterfaceM ROUTINE: MDHL7DPACKAGE CODE: CP V1.0ATTACH: UNC BI-DIRECTIONAL: YESHL7 INST: FreseniusHL7 UNIVERSAL SERVICE ID: -------------------------------------------------------------------------------Verified at Hines By: W. A. Ackerman |

### [[69]](#footnote-69)Gambro

**Vendor:** Gambro **Type:** Hemodialysis

**Description:**

Both uni-directional and bi-directional interfaces for this instrument are currently available.

**Requirements:**

This device uses Gambro’s Exalis software.

**Setup Instructions:**

**Interface Notes for Exalis to Hemodialysis**

* Exalis runs on a PC. VA-Exalis\_Interface runs on the same PC as Exalis. The PC must be networked so that there can be a TCP\IP connection between VistA and VA-Exalis\_Interface. The Exalis software runs as a standard application (not a service), thus requiring that the PC has been logged on with some user account rather than simply turned on. At this time VA-Exalis\_Interface, is a standard application. It may become a service if design and resource constraints allow.
* VA-Exalis\_Interface is a .NET application and so requires the .NET Framework 1.1 Redistributable which is freely downloadable from Microsoft and will be included on the VA-Exalis\_Interface CDROM.

#### B. Braun Device Settings for CP Manager

|  |  |
| --- | --- |
| **Setting For:** | Clinical Procedures Device Manager |
| **Procedure Type (HL7 Universal Service ID)** | GAMBRO\_EXALIS  |
| **Settings:** | Device Setup for the GAMBRO\_EXALIS-------------------------------------------------------------------------------NAME: GAMBRO\_EXALISPRINT NAME: Gambro ExalisDESCRIPTION: Cobe Dialysis Device InterfaceM ROUTINE: MDHL7DPACKAGE CODE: CP V1.0ATTACH: UNC BI-DIRECTIONAL: NOHL7 INST: GAMBRO\_EXALISHL7 UNIVERSAL SERVICE ID: -------------------------------------------------------------------------------Verified at Hines By: W. A. Ackerman |

# Glossary

**Access Code** A unique sequence of characters known by and assigned only to the user, the system manager and/or designated alternate(s). The access code (in conjunction with the verify code) is used by the computer to identify authorized users.

**Action** A functional process that a clinician or clerk uses in the TIU computer program. For example, “Edit” and “Search” are actions. Protocol is another name for Action.

**ADP Coordinator/ADPAC/Application Coordinator** Automated Data Processing Application Coordinator. The person responsible for implementing a set of computer programs (application package) developed to support a specific functional area such as clinical procedures, PIMS, etc.

**[[70]](#footnote-70)API** Application programming interface, an interface that a computer system, library or application provides in order to accept requests for services from other programs, and/or to allow data to be exchanged between them.

**Application** A system of computer programs and files that have been specifically developed to meet the requirements of a user or group of users.

**Archive** The process of moving data to some other storage medium, usually a magnetic tape, and deleting the information from active storage in order to free-up disk space on the system.

**ASU** Authorization/Subscription Utility, an application that allows sites to associate users with user classes, allowing them to specify the level of authorization needed to sign or order specific document types and orderables. ASU is distributed with TIU in this version; eventually it will probably become independent, to be used by many VistA packages.

**Attachments** Attachments are files or images stored on a network share that can be linked to the CP study. CP is able to accept data/final result report files from automated instruments. The file types that can be used as attachments are the following:

 .txt Text files

 .rtf Rich text files

 .jpg JPEG Images

 .jpeg JPEG Images

 .bmp Bitmap Images

 .tiff TIFF Graphics (group 3 and group 4 compressed and uncompressed types)

 .pdf Portable Document Format

 .html Hypertext Markup Language

.DOC (Microsoft Word files) are not supported. Be sure to convert .doc files to .rtf or to .pdf format.

**Background Processing** Simultaneous running of a "job" on a computer while working on another job. Examples would be printing of a document while working on another, or the software might do automatic saves while you are working on something else.

**Backup Procedures** The provisions made for the recovery of data files and program libraries and for restart or replacement of ADP equipment after the occurrence of a system failure.

**Boilerplate Text** A pre-defined TIU template that can be filled in for Titles, Speeding up the entry process. TIU exports several Titles with boilerplate text which can be modified to meet specific needs; sites can also create their own.

**[[71]](#footnote-71)Broker** Software which mediates between two objects, such as a client and a server or a repository and a requestor.

**Browse** Lookup the file folder for a file that you would like to select and attach to the study. (e.g., clicking the “...” button to start a lookup).

**Bulletin** A canned message that is automatically sent by MailMan to a user when something happens to the database.

**Business Rule** Part of ASU, Business Rules authorize specific users or groups of users to perform specified actions on documents in particular statuses (e.g., an unsigned CP note may be edited by a provider who is also the expected signer of the note).

**Class** Part of Document Definitions, Classes group documents. For example, “CLINICAL PROCEDURES” is a class with many kinds of Clinical Procedures notes under it. Classes may be subdivided into other Classes or Document Classes. Besides grouping documents, Classes also store behavior which is then inherited by lower level entries.

**Consult** Referral of a patient by the primary care physician to another hospital service/ specialty, to obtain a medical opinion based on patient evaluation and completion of any procedures, modalities, or treatments the consulting specialist deems necessary to render a medical opinion.

**Contingency Plan** A plan that assigns responsibility and defines procedures for use of the backup/restart/recovery and emergency preparedness procedures selected for the computer system based on risk analysis for that system.

**CP** Clinical Procedures.

**CP Definition** CP Definitions are procedures within Clinical Procedures.

**[[72]](#footnote-72)CP Gateway** The service application that prepares the data contents of HL7 messages for use in CP Hemodialysis. It requires no direct user interaction.

**CP Study** A CP study is a process created to link the procedure result from the medical device or/and to link the attachments browsed from a network share to the procedure order.

**CPRS** Computerized Patient Record System. A comprehensive VistA program, which allows clinicians and others to enter and view orders, Progress Notes and Discharge Summaries (through a link with TIU), Problem List, view results, reports (including health summaries), etc.

**Data Dictionary** A description of file structure and data elements within a file.

**[[73]](#footnote-73)DBIA** Database integration agreement.

**Delphi** A programming language, also known as Object Pascal.

**Device** A hardware input/output component of a computer system (e.g., CRT, printer).

**[[74]](#footnote-74)DLL** Dynamically-Linked Library – provides the benefit of shared libraries.

**Document Class** Document Classes are categories that group documents (Titles) with similar characteristics together. For example, Cardiology notes might be a Document Class, with Echo notes, ECG notes, etc. as Titles under it. Or maybe the Document Class would be Endoscopy Notes, with Colonoscopy notes, etc. under that Document Class.

**Document Definition** Document Definition is a subset of TIU that provides the building blocks for TIU, by organizing the elements of documents into a hierarchy structure. This structure allows documents (Titles) to inherit characteristics (such as signature requirements and print characteristics) of the higher levels, Class and Document Class. It also allows the creation and use of boilerplate text and embedded objects.

**[[75]](#footnote-75)DUZ** The internal entry number inside FileMan for a particular user.

**Edit** Used to change/modify data typically stored in a file.

**Field** A data element in a file.

**File** The M construct in which data is stored for retrieval at a later time. A computer record of related information.

**File Manager or FileMan** Within this manual, FileManager or FileMan is a reference to VA FileMan. FileMan is a set of M routines used to enter, edit, print, and sort/search related data in a file, a database.

**File Server** A machine where shared software is stored.

**Gateway** The software that performs background processing for Clinical Procedures.

**Global** An M term used when referring to a file stored on a storage medium, usually a magnetic disk.

**GUI** Graphical User Interface - a Windows-like screen that uses pull-down menus, icons, pointer devices, and other metaphor-type elements that can make a computer program more understandable, easier to use, allow multi-processing (more than one window or process available at once), etc.

**[[76]](#footnote-76)HFS** Host File System

**HL7** Health Level 7 messaging, a language which various healthcare systems use to interface with one another.

**IEN** Internal Entry Number

**Interpreter** Interpreter is a user role exported with USR\*1\*19 to support the Clinical Procedures Class. The role of the Interpreter is to interpret the results of a clinical procedure. Users who are authorized to interpret the results of a clinical procedure are sent a notification when an instrument report and/or images for a CP request are available for interpretation. Business rules are used to determine what actions an interpreter can perform on a document of a specified class, but the interpreter themselves are defined by the Consults application. These individuals are ‘clinical update users’ for a given consult service.

**IRMS** Information Resource Management Service.

**Kernel** A set of software utilities. These utilities provide data processing support for the application packages developed within the VA. They are also tools used in configuring the local computer site to meet the particular needs of the hospital. The components of this operating system include: MenuMan, TaskMan, Device Handler, Log-on/Security, and other specialized routines.

**LAYGO** An acronym for Learn As You Go. A technique used by VA FileMan to acquire new information as it goes about its normal procedure. It permits a user to add new data to a file.

**M** Formerly known as MUMPS or the Massachusetts (General Hospital) Utility Multi-Programming System. This is the programming language used to write all VistA applications.

**MailMan** An electronic mail, teleconferencing, and networking system.

**Menu** A set of options or functions available to users for editing, formatting, generating reports, etc.

**Module** A component of a software application that covers a single topic or a small section of a broad topic.

**Namespace** A naming convention followed in the VA to identify various applications and to avoid duplication. It is used as a prefix for all routines and globals used by the application.

**Network Server Share** A machine that is located on the network where shared files are stored.

**Notebook** This term refers to a GUI screen containing several tabs or pages.

**OI** Office of Information, formerly known as Chief Information Office Field Office, Information Resource Management Field Office, and Information Systems Center.

**Option** A functionality that is invoked by the user. The information defined in the option is used to drive the menu system. Options are created, associated with others on menus, or given entry/exit actions.

**Package** Otherwise known as an application. A set of M routines, files, documentation and installation procedures that support a specific function within VistA.

**Page** This term refers to a tab on a GUI screen or notebook.

**Password** A protected word or string of characters that identifies or authenticates a user, a specific resource, or an access type (synonymous with Verify Code).

**Pointer** A special data type of VA FileMan that takes its value from another file. This is a method of joining files together and avoiding duplication of information.

**Procedure Request** Any procedure (EKG, Stress Test, etc.) which may be ordered from another service/specialty without first requiring formal consultation.

**Program** A set of M commands and arguments, created, stored, and retrieved as a single unit in M.

**[[77]](#footnote-77)Protocol** A set of rules governing communication within and between computing endpoints.

**Queuing** The scheduling of a process/task to occur at a later time. Queuing is normally done if a task uses up a lot of computer resources.

**[[78]](#footnote-78)RAID** Redundant array of inexpensive disks, a data storage scheme using multiple hard drives to share or replicate data among the drives.

**Result** A consequence of an order. Refers to evaluation or status results. When you use the Complete Request (CT) action on a consult or request, you are transferred to TIU to enter the results.

**<RET>** Carriage return.

**Routine** A set of M commands and arguments, created, stored, and retrieved as a single unit in M.

**[[79]](#footnote-79)RPC** Remote Procedure Call, a protocol that allows a computer program running on one host to cause code to be executed on another host.

**SAC** Standards and Conventions.

**Security Key** A function which unlocks specific options and makes them accessible to an authorized user.

**Sensitive Information** Any information which requires a degree of protection and which should be made available only to authorized users.

**Site Configurable** A term used to refer to features in the system that can be modified to meet the needs of each site.

**Software** A generic term referring to a related set of computer programs. Generally, this refers to an operating system that enables user programs to run.

**Status Symbols** Codes used in order entry and Consults displays to designate the status of the order.

**Task Manager or TaskMan** A part of Kernel which allows programs or functions to begin at specified times or when devices become available. See Queuing.

**Title** Titles are definitions for documents. They store the behavior of the documents which use them.

**TIU** Text Integration Utilities.

**[[80]](#footnote-80)UNC** Universal naming Convention.

**URL** Uniform Resource Locator – a means of finding a resource (such as a web page or a device) on the Internet.

**User** A person who enters and/or retrieves data in a system, usually utilizing a CRT.

**User Class** User Classes are the basic components of the User Class hierarchy of ASU (Authorization/Subscription Utility) which allows sites to designate who is authorized to do what to documents or other clinical entities.

**User Role** User Role identifies the role of the user with respect to the document in question (e.g., Author/Dictator, Expected Signer, Expected Cosigner, Attending Physician, etc.).

**Utility** An M program that assists in the development and/or maintenance of a computer system.

**[[81]](#footnote-81)UUEncoded format** A form of binary to text encoding whose name derives from "Unix-to-Unix encoding."

**Verify Code** A unique security code which serves as a second level of security access. Use of this code is site specific; sometimes used interchangeably with a password.

**VistA** Veterans Health Information Systems and Technology Architecture.

**Workstation** A personal computer running the Windows 9x or NT operating system.

**[[82]](#footnote-82)XML** Extensible Markup Language – A simplified subset of Standard Generalized Markup Language (SGML). Its primary purpose is to facilitate the sharing of data across different information systems.

**XMS** Extended Memory Specification – The specification describing the use of extended memory in real mode for storing data.

1. Patch MD\*1.0\*42 March 2016 Patch 42 release added [↑](#footnote-ref-1)
2. Patch MD\*1.0\*29 August 2014 Patch 29 release added [↑](#footnote-ref-2)
3. Patch MD\*1.0\*20 November 2010 Patch 20 release added [↑](#footnote-ref-3)
4. Patch MD\*1.0\*21 June 2010 Patch 21 release added. [↑](#footnote-ref-4)
5. Patch MD\*1.0\*11 June 2009 Patch 11 release added. [↑](#footnote-ref-5)
6. Patch MD\*1.0\*6 May 2008 Patch 6 release added. [↑](#footnote-ref-6)
7. Patch MD\*1.0\*14 March 2008 Patch 14 release added. [↑](#footnote-ref-7)
8. Patch MD\*1.0\*5 August 2006 Patch 5 release added. [↑](#footnote-ref-8)
9. Patch MD\*1.0\*1 and MD\*1.0\*2 July 2004 Patch 2 release added. [↑](#footnote-ref-9)
10. Patch MD\*1.0\*6 May 2008 Hemodialysis introduction added. [↑](#footnote-ref-10)
11. Patch MD\*1.0\*6 May 2008 508 Compliance notice added. [↑](#footnote-ref-11)
12. Patch MD\*1.0\*14 March 2008 Outdated link removed and replaced with directions to document. [↑](#footnote-ref-12)
13. Patch MD\*1.0\*6 May 2008 Field added to support the storing of the Clinical Indicator questions, CPT and ICD9 codes in the CP Transaction file. [↑](#footnote-ref-13)
14. Patch MD\*1.0\*14 March 2008 Field added to support the auto study check-in with scheduled appointment date/time. [↑](#footnote-ref-14)
15. Patch MD\*1.0\*5 August 2006 Field added. [↑](#footnote-ref-15)
16. Patch MD\*1.0\*6 May 2008 File 702.001 added. [↑](#footnote-ref-16)
17. Patch MD\*1.0\*6 May 2008 Field added to the CP Definition file. [↑](#footnote-ref-17)
18. Patch MD\*1.0\*11 June 2009 New field added. [↑](#footnote-ref-18)
19. Patch MD\*1.0\*5 August 2006 CP Conversion File #703.9 added. [↑](#footnote-ref-19)
20. Patch MD\*1.0\*6 May 2008 File 704.201 added. [↑](#footnote-ref-20)
21. Patch MD\*1.0\*6 May 2008 File 704.202 added. [↑](#footnote-ref-21)
22. Patch MD\*1.0\*6 May 2008 File 704.209 added. [↑](#footnote-ref-22)
23. Patch MD\*1.0\*6 May 2008 Default definition added for 702.001. [↑](#footnote-ref-23)
24. Patch MD\*1.0\*5 August 2006 Default definitions added for 703.9. [↑](#footnote-ref-24)
25. Patch MD\*1.0\*6 May 2008 Default definitions added for 704.201, 704.202, and 704.209. [↑](#footnote-ref-25)
26. Patch MD\*1.0\*6 May 2008 RPCs added. [↑](#footnote-ref-26)
27. Patch MD\*1.0\*6 May 2008 Parameter Definitions added. [↑](#footnote-ref-27)
28. Patch MD\*1.0\*14 March 2008 Parameter Definitions added. [↑](#footnote-ref-28)
29. Patch MD\*1.0\*11 June 2009 Parameter Definition added [↑](#footnote-ref-29)
30. Patch MD\*1.0\*6 May 2008 Parameter Definition added. [↑](#footnote-ref-30)
31. Patch MD\*1.0\*20 November 2010 Parameter Definitions Added. [↑](#footnote-ref-31)
32. Patch MD\*1.0\*21 June 2010 Parameter Definition added. [↑](#footnote-ref-32)
33. Patch MD\*1.0\*6 May 2008 Parameter Definition added. [↑](#footnote-ref-33)
34. Patch MD\*1.0\*5 August 2006 Parameter Definition added. [↑](#footnote-ref-34)
35. Patch MD\*1.0\*21 June 2010 Parameter Definition added. [↑](#footnote-ref-35)
36. Patch MD\*1.0\*11 June 2009 Parameter Definition added. [↑](#footnote-ref-36)
37. Patch MD\*1.0\*11 June 2009 Parameter Definition added. [↑](#footnote-ref-37)
38. Patch MD\*1.0\*14 March 2008 Parameter Definition added. [↑](#footnote-ref-38)
39. Patch MD\*1.0\*21 June 2010 Parameter Definition Added. [↑](#footnote-ref-39)
40. Patch MD\*1.0\*14 March 2008 Protocols added to support the auto study check-in. [↑](#footnote-ref-40)
41. Patch MD\*1.0\*14 March 2008 Options added to support the auto study check-in. [↑](#footnote-ref-41)
42. Patch MD\*1.0\*21 June 2010 Options added to support high volume procedures enhancement. [↑](#footnote-ref-42)
43. 2 Patch MD\*1.0\*6 May 2008 Hemodialysis User menu option added. [↑](#footnote-ref-43)
44. Patch MD\*1.0\*5 August 2006 Patch 5 menu options added. [↑](#footnote-ref-44)
45. Patch MD\*1.0\*11 June 2009 Add new exported option. [↑](#footnote-ref-45)
46. Patch MD\*1.0\*20 November 2010 New option added. [↑](#footnote-ref-46)
47. Patch MD\*1.0\*6 May 2008 Cross References added. [↑](#footnote-ref-47)
48. Patch MD\*1.0\*6 May 2008 Cross References added. [↑](#footnote-ref-48)
49. Patch MD\*1.0\*6 May 2008 Description modified and callable routines added. [↑](#footnote-ref-49)
50. Patch MD\*1.0\*14 March 2008 External Relations list removed. Integration Agreements renamed Interface Control Registrations. [↑](#footnote-ref-50)
51. Patch MD\*1.0\*14 March 2008 Screen capture added. [↑](#footnote-ref-51)
52. Patch MD\*1.0\*6 May 2008 Description modified. [↑](#footnote-ref-52)
53. Patch MD\*1.0\*6 May 2008 Hemodialysis User menu option added. [↑](#footnote-ref-53)
54. Patch MD\*1.0\*6 May 2008 File added. [↑](#footnote-ref-54)
55. Patch MD\*1.0\*5 August 2006 Files added. [↑](#footnote-ref-55)
56. Patch MD\*1.0\*6 May 2008 Files added. [↑](#footnote-ref-56)
57. Patch MD\*1.0\*14 March 2008 Deleted vendor contact information for individual contacts. [↑](#footnote-ref-57)
58. Patch MD\*1.0\*14 March 2008 Updated vendor name list. [↑](#footnote-ref-58)
59. Patch MD\*1.0\*14 March 2008 Directions for finding a device on the CP website changed. [↑](#footnote-ref-59)
60. Patch MD\*1.0\*14 March 2008 Device names unlinked due to unavailable links. [↑](#footnote-ref-60)
61. Patch MD\*1.0\*6 May 2008 Hemodialysis exported new device entries. [↑](#footnote-ref-61)
62. Patch MD\*1.0\*6 May 2008 Screen capture updated to show new Processing Application field. [↑](#footnote-ref-62)
63. Patch MD\*1.0\*6 May 2008 Added information about setting up a type for each procedure. [↑](#footnote-ref-63)
64. Patch MD\*1.0\*6 May 2008 Added information about setting up different procedures. [↑](#footnote-ref-64)
65. Patch MD\*1.0\*14 March 2008 References to Vmaxconfigfile.zip and sample reports were removed because they are no longer hosted on the Clinical Procedures website. [↑](#footnote-ref-65)
66. Patch MD\*1.0\*6 May 2008 Added reference to CP web page for device setup. [↑](#footnote-ref-66)
67. Patch MD\*1.0\*6 May 2008 Added Hemodialysis vendor B. Braun. [↑](#footnote-ref-67)
68. Patch MD\*1.0\*6 May 2008 Added Hemodialysis vendor Fresenius. [↑](#footnote-ref-68)
69. Patch MD\*1.0\*6 May 2008 Added Hemodialysis vendor Gambro. [↑](#footnote-ref-69)
70. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-70)
71. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-71)
72. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-72)
73. Patch MD\*1.0\*6 May 2008 Glossary terms added. [↑](#footnote-ref-73)
74. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-74)
75. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-75)
76. Patch MD\*1.0\*6 May 2008 Glossary terms added. [↑](#footnote-ref-76)
77. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-77)
78. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-78)
79. Patch MD\*1.0\*6 May 2008 Glossary terms added. [↑](#footnote-ref-79)
80. Patch MD\*1.0\*6 May 2008 Glossary terms added. [↑](#footnote-ref-80)
81. Patch MD\*1.0\*6 May 2008 Glossary term added. [↑](#footnote-ref-81)
82. Patch MD\*1.0\*6 May 2008 Glossary terms added. [↑](#footnote-ref-82)