Camp Lejeune-Veterans (CL-V)

Increment 4

VistA

Clinical Procedure

Patch MD\*1.0\*40

System Design Document



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| 05/03/2016 | .14 | Updated to match final coding solution and to include RTM mapping. |  |
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# Introduction

Public Law 112-154 was enacted to furnish Department of Veterans Affairs (VA) medical services and hospital care to Veterans stationed at Camp Lejeune between August 1, 1953 and December 31, 1987. Veterans serving at this location for at least 30 days may suffer from medical conditions and/or illnesses arising from their exposure to water contaminated by hazardous chemicals.

Software enhancements to the Veterans Health Information Systems and Technology Architecture (VistA) and the centralized Health Eligibility Center (HEC) Enrollment System Core (ESC) are required for maintaining the Camp Lejeune-Veterans (CL-V) Support information in the Veteran records. This implies that enhancements to the Health Level 7 (HL7) messaging between ESC and VistA are also required as part of the software development effort.

The purpose of this System Design Document (SDD) is to outline the design specifications for the CL-V project for the Clinical Procedures (CP) Hemodialysis application. The change to CP will be done via patch MD\*1.0\*40. Wherever the CP patch is referenced in this SDD, it is for CP patch MD\*1.0\*40.

## Scope

For detailed information, refer to the Camp Lejeune PL 112-154 System Changes to Support Provisions Affecting Veterans BRD (Business Requirements Document) v10 located on CL-V Technical Services Project Repository (TSPR).

CP pass final patient results, using Health Level 7 (HL7) messaging, between vendor Clinical Information Systems (CIS) and VistA.

Updates for Camp Lejeune will be implemented within the hemodialysis module of the Clinical Procedures application. Hemodialysis is a module of the CP package that provides features specific to hemodialysis treatment. Hemodialysis allows users to collect hemodialysis treatment information from a medical device and manually enter treatment data into the application.

## User Profiles

The training effort directed to the CP Dialysis unit user community will include orienting this group of users to the CL-V project business rules and how these business rules are implemented in the Clinical Procedures Hemodialysis application.

The Dialysis unit user community includes:

* Dialysis Nurse Manager
* Dialysis Nurses
* Clinical Application Coordinators (CACs)

# Background

This section provides an overview of the system, business processes, and business benefits.

## Overview of the System

In order to fulfill the legislative requirements, implementation of Camp Lejeune system changes from the front-end applications for point of entry, through the back office processing of Camp Lejeune related care, is required.

The CL-V project implements system changes through front-end applications as well as back office [e.g., Integrated Billing (IB), Office of Policy and Planning (OPP) reporting, and Managerial Cost Accounting (MCA), etc.].

The first phase of the CL-V project addressed the front-end applications involved in Veterans Health Administration (VHA) Eligibility and Enrollment of Camp Lejeune–eligible Veterans; this was accomplished during Increment 3 of the CL-V project. The second phase of the initiative, Increment 4, addresses the downstream clinical, administrative, and back office processing of services related to the Camp Lejeune–eligible Veterans’ healthcare. CP is one of the applications that handles the back office processing of services affected by Increment 4.

CP passes final patient results, using HL7 messaging, between vendor Clinical Information System (CIS) and VistA. Patients’ test results or reports are displayed through the Computerized Patient Record System (CPRS). The report data is stored on the Imaging Redundant Array of Independent Disks (RAID) and, in some instances; discrete data is stored in the Medicine package generated by medical devices. There are no specific procedures tracked through this application, nor are management workload reports generated. Links to the Decision Support System (DSS) and other databases through Patient Care Encounter (PCE) are supported through CP with the Consult/Request Tracking, Text Integration Utility (TIU), CPRS, PCE, and VistA Imaging packages.

In conjunction with CPRS, CP also provides a method for clinicians to document findings and to complete final procedure reports via existing pathways in appropriate VistA applications. CP provides features that can be used across clinical specialties such as Medicine, Women's Health, Surgery, Dental, Rehabilitation Medicine, and Neurology. Its functionality supports clinical practice in all patient care settings including clinics, Home Based Primary Care (HBPC), and in-patient units.

A detailed description of the changes required with the CP patch can be found in Table 10, items 2.6.9.1 through 2.6.9.3.3.2 in the CL-V Increment 4 VistA RSD (Requirements Specification Document) on CL-V TSPR.

## Overview of the Business Process

Clinical Procedures (CP) passes final patient results, using HL7 messaging, between vendor Clinical Information Systems (CIS) and VistA. Hemodialysis is a module of the CP package that provides features specific to hemodialysis treatment. Hemodialysis allows users to collect hemodialysis treatment information from a medical device and manually enter treatment data into the application. Updates for Camp Lejeune will be implemented within the hemodialysis module of the Clinical Procedures application.

See details of the requirements and updated user interfaces in Section 2.6.9 of the CL-V Increment 4 VistA RSD, found on the CL-V TSPR site.

The CL-V Inc 4 RTM (Requirements Traceability Matrix), found on the CL-V TSPR site, contains a tab for CP with a listing of all CP requirements linked to the Business Needs found in the CL-V TSPR.

## Overview of the Significant Requirements

The RSD for the CL-V Increment 4 applications is the CL-V Increment 4 VistA RSD, found on the CL-V TSPR site.

This section provides an overview of the significant requirements for the CP patch.

### Functional Requirements

Table 1 below provides an overview of the functional requirements.

Table 1: Overview of Significant Requirements for the CP Patch

| ID | Requirement |
| --- | --- |
| 2.6.9.1 | Hemodialysis users can view a patient’s Camp Lejeune eligibility on the hemodialysis Summary screen. |
| 2.6.9.2 | The value of the Camp Lejeune information on the Summary screen is based on a patient’s current profile in PCE. |
| 2.6.9.3 | Hemodialysis users can update the Camp Lejeune Exposure indicator via selecting the Service tab from the Summary screen. |

**Functional and Workload Requirements**

It is expected that functional workload will be the equivalent of current workload and existing performance system requirements:

* There is no anticipated increased user base or increased transaction volume being introduced with this project.
* No new user interfaces are being added or removed with this project. Modification of existing user interfaces to accommodate the new CL-V data fields should have no impact on user response times or system performance.
* Existing interfaces and communication methods are being used to send additional CL-V data fields to the external system at the Austin Information Technology Center. The new data fields should not impact VA network or VistA MailMan servers in any way.

**Security and Privacy Requirements**

There are no special security or privacy requirements that are unique to this project.

**System Criticality and High Availability Requirements**

This is an enhancement to an existing VistA legacy system (CP). There will not be any changes to the required level of availability and disaster recovery currently in place for the existing legacy system.

**Single Sign-on Requirement**

This is an enhancement to an existing VistA legacy system (CP), and pre-existing standard sign-on applies.

**Requirement for Use of Enterprise Portals**

This is an enhancement to an existing VistA legacy system (CP). Modifications will be made to the existing roll and scroll user interface, and there will not be any new user interfaces introduced that require use of Enterprise Portals.

**Special Device Requirements**

No special devices are required for this enhancement.

**Technical Requirements**

There are no applicable technical requirements for this project.

# Conceptual Design

This section provides an overview of the conceptual design, including:

* Conceptual Application Design
* Conceptual Data Design
* Conceptual Infrastructure Design

## Conceptual Application Design

This subsection describes the conceptual application design.

### Application Context

The diagram below illustrates the application context of the components related to this specific release.

Figure 1: Camp Lejeune Context Diagram – VistA

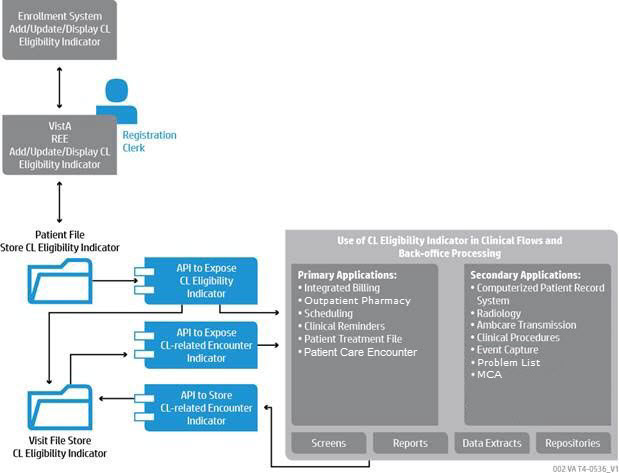


Table 2: (Grouping): Application Context Description

Object

| ID | Name | Description | Interface Name | Interface System |
| --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A |

Interfaces External to OI&T

| ID | Name | Related Object | Input Messages | Output Messages | External Party |
| --- | --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A | N/A |

Interfaces Internal to OI&T

| ID | Name | Related Object | Input Messages | Output Messages | External Party |
| --- | --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A | N/A |

Externally Shared Data Stores

| ID | Name | Data Stored | | | | Owner | Access |
| --- | --- | --- | --- | --- | --- | --- | --- |
| N/A | N/A | | N/A | N/A | N/A | | N/A |

### High-Level Application Design

The CL-V Increment 4 modifications to the CP application have no impact to the existing high-level design of VistA.

Table 3 (Grouping): Objects in the High Level Application Design

Objects / Components to be Built or Modified

| ID | Name | Description | Service or Legacy Code | External Interface Name | External Interface ID | Internal Interface Name | Internal Interface ID | SDP Sections 1&2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Internal Data Stores

| ID | Name | Data Stored | Steward | Access |
| --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A |

### Application Locations

The VistA CP Hemodialysis application resides within the existing VistA application and infrastructure servers. No change in this area is introduced.

Table 4: Application Locations

| Application Component | Description | Location at Which Component is Run | Type |
| --- | --- | --- | --- |
| N/A | N/A | N/A | N/A |

The VistA CP application users are shown below:

Table 5: Application Users

| Application Component | Location | User |
| --- | --- | --- |
| CP User Interface | VistA sites | Chief of Health Information Management (HIM) or equivalent and coding staff |

## Conceptual Data Design

See the information under Section 3.2.3 User Interface Data Mapping.

### Project Conceptual Data Model

N/A

### Database Information

N/A

Table 6: Database Inventory

| Database Name | Description | Type | Steward |
| --- | --- | --- | --- |
| N/A | N/A | N/A | N/A |

### User Interface Data Mapping

VistA CP Hemodialysis will undergo changes to the CP Hemodialysis User Interface. The changes are described below.

#### Application Screen Interface

This section identifies the impacted Application Screen Interfaces.

##### Hemodialysis Summary Screen

The Hemodialysis Summary screen will be updated so that the Hemodialysis users can view a patient’s Camp Lejeune eligibility.

The Summary screen will be updated when the user updates the Camp Lejeune eligibility question under the Service button.

Figure 2: Hemodialysis Summary Screen

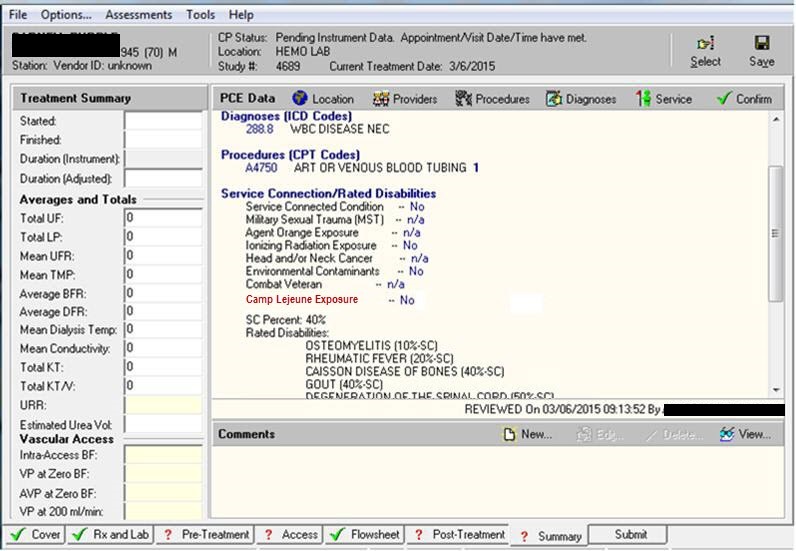


Table 7: Hemodialysis Summary Screen Description

| Graphical User Interface (GUI) Field | Table (Database Table that field connects to) | Field (Field in Table that the GUI field connects to) | Comments |
| --- | --- | --- | --- |
| Camp Lejeune Exposure | VistA uses Files, not tables:  Stored in the VISIT file (#9000010) | Field in the VISIT file: CAMP LEJEUNE field (#80009) | CL-V data is not stored in the hemodialysis file, it is stored in the PCE application’s files, which are described in this table |
|  | Also stored in the  V POV file (#9000010.07) | Field in the V-POV file: CAMP LEJEUNE field (#80009) |  |

##### Hemodialysis Service Screen

The Hemodialysis Service screen will be updated so that the Hemodialysis users can indicate if the patient’s treatment was related to environmental exposure at Camp Lejeune.

The Service screen from the Service tab will allow the user to indicate the Veteran’s Camp Lejeune eligibility. The Camp Lejeune radio button will be enabled if the PCE API indicates that the Camp Lejeune question should/can be asked.

Figure 3: Hemodialysis Service Screen

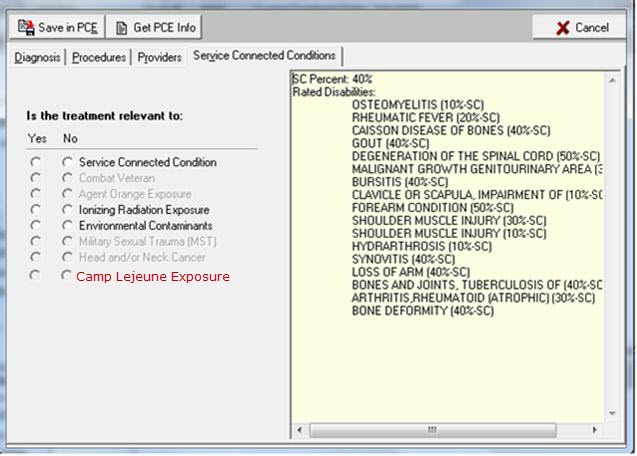


Table 8: Hemodialysis Service Screen Description

| Graphical User Interface (GUI) Field | Table (Database Table that field connects to) | Field (Field in Table that the GUI field connects to) | Comments |
| --- | --- | --- | --- |
| Camp Lejeune Exposure | VistA uses Files, not tables:  Stored in the VISIT file (#9000010) | Field in the VISIT file: CAMP LEJEUNE field (#80009) | CL-V data is not stored in the hemodialysis file, it is stored in the PCE application’s files, named here. |
|  | Also stored in the  V-POV file (#9000010.07) | Field in the V-POV file: CAMP LEJEUNE field (#80009) |  |

#### Application Report Interface

There is no Application Report Interface applicable to the CP application.

##### Report Names

There are no reports to mention, so there are no figures and tables in this section.

#### Unmapped Data Element

N/A

## Conceptual Infrastructure Design

There is no change in infrastructure for this release.

### System Criticality and High Availability

N/A

### Special Technology

N/A

Table 9: Special Technology Requirements

| Special Technology | Description | Notional Location | TRM Status |
| --- | --- | --- | --- |
| N/A | N/A | N/A | N/A |

### Technology Locations

The CP patch will be installed in each VA VistA instance by VA OI&T staff.

There are no specific components apart from VistA that the CP patch includes or adds. It is all legacy mainframe-based.

Table 10 (Grouping): Technology Location Details

| Technology Component  Production 1 | Location | Usage |
| --- | --- | --- |
| Workstations | N/A | N/A |
| Special Hardware | N/A | N/A |
| Interface Processors | N/A | N/A |
| Legacy Mainframe | N/A | N/A |
| Legacy Application Server | N/A | N/A |
| Legacy Databases | N/A | N/A |
| Other | N/A | N/A |

| Technology Component  Production 2 | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Certification | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Education | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Test | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Development | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

### Conceptual Infrastructure Diagram

No changes are being made to the infrastructure of the existing legacy VistA system.

#### Location of Environments and External Interfaces

The system will use existing locations and existing VistA technology.

#### Conceptual Production String Diagram

N/A

# System Architecture

There is no change in the System Architecture for this release.

## Hardware Architecture

There is no change in the Hardware Architecture for this release.

## Software Architecture

There is no change in the Software Architecture for this release.

## Network Architecture

There is no change in the Network Architecture for this release.

## Service Oriented Architecture / ESS

There is no change in the Service Oriented Architecture for this release.

## Enterprise Architecture

There is no change in the Enterprise Architecture for this release.

# Data Design

This section describes the data design (where applicable).

## DBMS Files

N/A

## Non-DBMS Files

N/A

## Data View

N/A

# Detailed Design

The CP patch has very little architectural impact on the overall VistA system, as it has similarities to other existing features such as Agent Orange, Shipboard Hazard and Defense (SHAD), etc., and uses similar design components to store and maintain the new CL-V data.

## Hardware Detailed Design

There is no change to the Hardware for this release.

## Software Detailed Design

There is no change to the Software Detailed Design for this release.

### Conceptual Design

There is no change to the Conceptual Design for this release as all updates will adhere to the existing VistA design concepts, conventions, and guidelines.

#### Product Perspective

Existing CP software supports other environmental indicators such as Agent Orange and SHAD. The CL-V project uses the same business model and data structures to add the new functionality for tracking and utilizing the new Environmental Factor for CL-V.

##### User Interfaces

This project will modify existing CP Hemodialysis GUI user interfaces and users will continue to enter/edit data using the GUI user interface. For details of screen changes, refer to Table 10 of the CL-V Increment 4 VistA RSD, found on CL-V TSPR.

##### Hardware Interfaces

N/A

##### Software Interfaces

Table 11lists the Integration Control Registrations (ICRs) applicable to this CP patch.

Table 11: Applicable ICRs

| **ICR** | **Custodian** | **Usage** | **Description** | **New/Modified** |
| --- | --- | --- | --- | --- |
| 10061 | Registration | Supported | VADPT is a utility routine designed to provide a central point where a programmer can obtain information concerning a patient's record. Supported entry points are provided which will return demographics, inpatient status, eligibility information, etc. | Modified |

##### Communications Interfaces

N/A

##### Memory Constraints

The effects of the CL-V data on the dynamic memory and disk storage are insignificant compared to the existing overall dynamic memory and disk storage for the CP application. There are no memory constraints given the nature of the addition. It uses existing features such as Agent Orange, SHAD, etc.

##### Special Operations

The project does not introduce or impact any special operations required by the user such as backup, recovery, and archiving operations.

#### Product Features

The CP patch does not add any new features. It adds an additional environmental prompt to existing functionality on screens listed under Requirement ID 2.6.5 in the CL-V Increment 4 VistA RSD, which is found on the CL-V TSPR site.

#### User Characteristics

The users are Chief of Health Information Management (HIM) or equivalent and coding staff. They are the first contact points with the Veteran; they use the Registration/CP screens in VistA for setting environmental indicators such as Agent Orange, and perform all subsequent, related business processes.

#### Dependencies and Constraints

CL-V Increment 3 VistA Registration Eligibility and Enrollment (REE), in host file DG\_5\_3\_P909.KID containing patches DG\*5.3\*909 and IVM\*2.0\*161, must be in place so that Camp Lejeune eligibility can be displayed in the Registration application and help drive the related business processes.

Patient Care Encounter (PCE) patch PX\*1.0\*207 must be released and installed prior to CP. CP must be released and installed before Integrated Billing (IB) patch IB\*2.0\*544 and Scheduling/AmbCare Transmission patch SD\*5.3\*631, as those applications are dependent upon CP. Refer to sections 2 and 3 of the CL-V Increment 4 VistA Installation, Back-out, and Rollback Guide*,* found on CL-V TSPR*,* for detailed system requirements, pre-installation, and installation instructions.

### Specific Requirements

For specific requirements, see Section 2.6.9 in the CL-V Increment 4 VistA RSD, found on the CL-V TSPR site.

For an historical perspective, see the CL-V VistA Registration, Eligibility, and Enrollment (REE) Increment 3 System Design Document.

#### Database Repository

Database Repositories are related to relational databases which are not related to VistA. VistA relies on the Caché hierarchical database design.

#### System Features

The System Features are described in Section 2.6.9 of the Requirements Specification Document, CL-V Increment 4 VistA RSD, found on the CL-V TSPR site.

#### Design Element Tables

This section provides design element tables specifying the modifications to the CP Hemodialysis software components.

##### Routines (Entry Points)

The second line of each routine listed in this section will be modified to include the patch number “40” in the patch list.

**Example:**

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

;;1.0;CLINICAL PROCEDURES;\*\*6,21,20,29,40\*\*;Apr 01, 2004;Build 22

Table 12: MDRPCW1 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | MDRPCW1 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.9.1, 2.6.9.2, 2.6.9.2.1, 2.6.9.2.2, 2.6.9.3, 2.6.9.3.1, 2.6.9.3.2, 2.6.9.3.3, 2.6.9.3.3.1, 2.6.9.3.3.2 | | | | | | | | |
| **Related Options** | MD TMDENCOUNTER RPC  MD TMDCIDC with input SCDISP and PCEDISP | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | REMOTE PROCEDURE CALLS:  MD TMDENCOUNTER  NEWID+18^MDHL7A  PROCESS+41^MDHL7A  EN+27^MDHL7XXX  NEWTIUN+33^MDRPCOTH  PCEDISP+15^MDRPCW | | | | | NOW^%DTC  $$GET1^DIQ  $$SINFO^ICDEX  $$ICDDATA^ICDXCODE  $$CODM^ICPTCOD  $$CPT^ICPTCOD  LOOK^LEXA  CONFIG^LEXSET  $$CPCONE^LEXU  $$CPTONE^LEXU  $$ONE^LEXU  CICNV^MDHL7U3  $$GETVSTR^MDRPCOT1  $$NEWTIUN^MDRPCOT2 $$NEWTIUN^MDRPCOTH  CPTLEX^MDRPCWU  $$GETENC^PXAPI  ENCEVENT^PXAPI  SCCOND^PXUTLSCC  GETLST^XPAR | | | |
| Routines | Activities | | | | | | | | |
| **Data Dictionary (DD) References** | ^AUTNPOV(  ^MDD(702  ^MDS(702.,01  ^TMP(“LEXFND”  ^TMP("LEXHIT"  ^TMP(“LEXSCH”  ^TMP(“MDDAR”  ^TMP(“MDENC”  ^TMP(“MDLEX”  ^TMP(“MDMODS”  ^TMP(“PXKENC” | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | IA #1573 [Supported] ICDONE^LEXU call  IA #1593 [Subscription] Access to Provider Narrative file (#9999999.27)  IA #1609 [Supported] CONFIG^LEXSET call  IA #1894 [Subscription] PXAPI calls  IA #1995 [Supported] ICPTCOD calls  IA #2056 [Supported] Call to DIQ  IA #2263 [Supported] XPAR calls  IA #2348 [Subscription] SCCOND^PXUTLSCC call  IA #2950 [Supported] LOOK^LEXA call  IA #5699 [Supported] ICDDATA^ICDXCODE calls  IA #10060 [Supported] FILE 200 references  IA #5747 [Supported] $$SINFO^ICDEX | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | Name: ^TMP("MDENC",$J)  Definition: Returns the current encounter data entered. | | | | | | | | |
| Current Logic | | | | | | | | | |
| MDRPCW1 ; HOIFO/NCA - MD TMDENCOUNTER Object ;2/16/10 16:17  ;;1.0;CLINICAL PROCEDURES;\*\*6,21,20,29\*\*;Apr 01, 2004;Build 22  S:$L(MDVSTR,";")=1 MDVSTR=";"\_MDVSTR  S MDVSTR=$$GETVSTR^MDRPCOT1(MDDFN,MDVSTR,+$P(MDX,U,4),$P(MDX,U,2)),MDLOCN=$P(MDVSTR,";",1)  S:'MDENCDT MDENCDT=$P(MDVSTR,";",2)  S:'MDENCDT MDENCDT=MDDEF  S:'MDLOCN MDLOCN=$P(MDVSTR,";")  D SCCOND^PXUTLSCC(MDDFN,MDENCDT,MDLOCN,MDVST,.MDARR)  S MDCTR=MDCTR+1  ; ^TMP("MDENC",$J,n)="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  ;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  S @RESULTS@(MDCTR)="SC"\_S\_$G(MDARR("SC"))\_S\_"AO"\_S\_$G(MDARR("AO"))\_S\_"IR"\_S\_$G(MDARR("IR"))\_S\_"EC"\_S\_$G(MDARR("EC"))\_S\_"MST"\_S\_$G(MDARR("MST"))\_S\_"HNC"\_S\_$G(MDARR("HNC"))\_S\_"CV"\_S\_$G(MDARR("CV"))  I 'MDVST S MDVST=$$GETENC^PXAPI(MDDFN,MDENCDT,MDLOCN),MDVST=$S(+MDVST<1:0,1:+MDVST)  I +MDVST>0 D ENCEVENT^PXAPI(MDVST) | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| MDRPCW1 ;HOIFO/NCA - MD TMDENCOUNTER Object ;2/16/10 16:17  ;;1.0;CLINICAL PROCEDURES;\*\*6,21,20,29,**40**\*\*;Apr 01, 2004;Build **22**  S:$L(MDVSTR,";")=1 MDVSTR=";"\_MDVSTR  S MDVSTR=$$GETVSTR^MDRPCOT1(MDDFN,MDVSTR,+$P(MDX,U,4),$P(MDX,U,2)),MDLOCN=$P(MDVSTR,";",1)  S:'MDENCDT MDENCDT=$P(MDVSTR,";",2)  S:'MDENCDT MDENCDT=MDDEF  S:'MDLOCN MDLOCN=$P(MDVSTR,";")  D SCCOND^PXUTLSCC(MDDFN,MDENCDT,MDLOCN,MDVST,.MDARR)  S MDCTR=MDCTR+1  **;PWC MD\*1\*40 RSD # 2.6.9.3 Camp Lejeune (CLV)**  ; ^TMP("MDENC",$J,n)="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**;"CLV";0/1^0/1**  ;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  S @RESULTS@(MDCTR)="SC"\_S\_$G(MDARR("SC"))\_S\_"AO"\_S\_$G(MDARR("AO"))\_S\_"IR"\_S\_$G(MDARR("IR"))\_S\_"EC"\_S\_$G(MDARR("EC"))\_S\_"MST"\_S\_$G(MDARR("MST"))\_S\_"HNC"\_S\_$G(MDARR("HNC"))\_S\_"CV"\_S\_$G(MDARR("CV**"**))**\_S\_"CLV"\_S\_$G(MDARR("CLV"))**  I 'MDVST S MDVST=$$GETENC^PXAPI(MDDFN,MDENCDT,MDLOCN),MDVST=$S(+MDVST<1:0,1:+MDVST)  I +MDVST>0 D ENCEVENT^PXAPI(MDVST) | | | | | | | | | |

Table 13: MDPCE2 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | MDPCE2 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.9.3.3, 2.6.9.3.3.1, 2.6.9.3.3.2 | | | | | | | | |
| **Related Options** |  | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
| -- | MDRPCOTH  MDRPCOW | | | | | $$FIND1^DIC  FILE^DIE  $$GET1^DIQ  $$ICDDATA^ICDXCODE  $$CPT^ICPTCOD  $$DATA2PCE^PXAPI  $$DELVFILE^PXAPI  $$NOW^XLFDT | | | |
| Routines |  | | | | | | | | |
| **Data Dictionary (DD) References** | ^MDD(702  ^TMP("MDPXAPI" | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | IA #1889 [Subscription] Create New Visit  IA #1890 [Subscription] Delete existing visit  IA #1995 [Supported] ICPTCOD API  IA #5699 [Supported] ICDDATA^ICDXCODE  IA #10040 [Supported] Hospital Location File Access  IA #10048 [Supported] FILE 9.4 references  IA #10103 [Supported] XLFDT | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | Name: MDENC Billing data array  Definition: Billing data array | | | | | | | | |
| **Output Attribute Name and Definition** | Name: ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"CLV")  Definition: Global Array Element added to pass Camp Lejeune info to PCE, when present. | | | | | | | | |
| Current Logic | | | | | | | | | |
| MDPCE2 ; HOIFO/NCA - Routine For Data Extract For Hemodialysis ;1/20/10 10:00  ;;1.0;CLINICAL PROCEDURES;\*\*6,21,29\*\*;Apr 01, 2004;Build 22   .I $P(MDNOD,"^")["SC" D  Q  ..S:+$P(MDNOD,";",2) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"SC")=+$P($P(MDNOD,";",2),U,2) S:+$P($P(MDNOD,";",2),U,2)>0 MDSC=1  ..I $P(MDNOD,";",3)="AO" Q:+MDSC>0 S:+$P(MDNOD,";",4) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"AO")=+$P($P(MDNOD,";",4),"^",2)  ..I $P(MDNOD,";",5)="IR" Q:+MDSC>0 S:+$P(MDNOD,";",6) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"IR")=+$P($P(MDNOD,";",6),"^",2)  ..I $P(MDNOD,";",7)="EC" Q:+MDSC>0 S:+$P(MDNOD,";",8) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"EC")=+$P($P(MDNOD,";",8),"^",2)  ..I $P(MDNOD,";",9)="MST" Q:+MDSC>0 S:+$P(MDNOD,";",10) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"MST")=+$P($P(MDNOD,";",10),"^",2)  ..I $P(MDNOD,";",11)="HNC" Q:+MDSC>0 S:+$P(MDNOD,";",12) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"HNC")=+$P($P(MDNOD,";",12),"^",2)  ..I $P(MDNOD,";",13)="CV" Q:+MDSC>0 S:+$P(MDNOD,";",14) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"CV")=+$P($P(MDNOD,";",14),"^",2)  .I $P(MDNOD,"^")="PRV" I $P(MDNOD,"^",2)'="" D  Q  ..S MDK=MDK+1,^TMP("MDPXAPI",$J,"PROVIDER",MDK,"NAME")=$P(MDNOD,"^",2) S:'MDOK MDOK=1  ..S ^TMP("MDPXAPI",$J,"PROVIDER",MDK,"PRIMARY")=$P(MDNOD,"^",6)  ..S:MDPROV="" MDPROV=$P(MDNOD,"^",2)  ..Q | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| MDPCE2 ; HOIFO/NCA - Routine For Data Extract For Hemo Dialysis ;1/20/10 10:00  ;;1.0;CLINICAL PROCEDURES;\*\*6,21,29**,40**\*\*;Apr 01, 2004;Build 22  .I $P(MDNOD,"^")["SC" D Q  ..S:+$P(MDNOD,";",2) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"SC")=+$P($P(MDNOD,";",2),U,2) S:+$P($P(MDNOD,";",2),U,2)>0 MDSC=1  ..I $P(MDNOD,";",3)="AO" Q:+MDSC>0 S:+$P(MDNOD,";",4) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"AO")=+$P($P(MDNOD,";",4),"^",2)  ..I $P(MDNOD,";",5)="IR" Q:+MDSC>0 S:+$P(MDNOD,";",6) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"IR")=+$P($P(MDNOD,";",6),"^",2)  ..I $P(MDNOD,";",7)="EC" Q:+MDSC>0 S:+$P(MDNOD,";",8) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"EC")=+$P($P(MDNOD,";",8),"^",2)  ..I $P(MDNOD,";",9)="MST" Q:+MDSC>0 S:+$P(MDNOD,";",10) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"MST")=+$P($P(MDNOD,";",10),"^",2)  ..I $P(MDNOD,";",11)="HNC" Q:+MDSC>0 S:+$P(MDNOD,";",12) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"HNC")=+$P($P(MDNOD,";",12),"^",2)  ..I $P(MDNOD,";",13)="CV" Q:+MDSC>0 S:+$P(MDNOD,";",14) ^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"CV")=+$P($P(MDNOD,";",14),"^",2)  **..;MD\*1.0.40 JMM RSD# 2.6.9.3.3 Add code below to add Camp Lejeune data to array sent to PCE when received**  **..I $P(MDNOD,";",15)="CLV" Q:+MDSC>0 S:+$P(MDNOD,";",16)** **^TMP("MDPXAPI",$J,"ENCOUNTER",MDJ,"CLV")=+$P($P(MDNOD,";",16),"^",2)**  .I $P(MDNOD,"^")="PRV" I $P(MDNOD,"^",2)'="" D Q  ..S MDK=MDK+1,^TMP("MDPXAPI",$J,"PROVIDER",MDK,"NAME")=$P(MDNOD,"^",2) S:'MDOK MDOK=1  ..S ^TMP("MDPXAPI",$J,"PROVIDER",MDK,"PRIMARY")=$P(MDNOD,"^",6)  ..S:MDPROV="" MDPROV=$P(MDNOD,"^",2)  ..Q | | | | | | | | | |

Table 14: MDPOST40 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | MDPOST40 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.9.1, 2.6.9.2, 2.6.9.2.1, 2.6.9.2.2, 2.6.9.3, 2.6.9.3.1, 2.6.9.3.2, 2.6.9.3.3, 2.6.9.3.3.1, 2.6.9.3.3.2 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | N/A | | | | | EN^XPAR  GETLST^XPAR | | | |
| Routines | Activities | | | | | | | | |
| **Data Dictionary (DD) References** | N/A | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | 2263 [Supported] XPAR Utilities | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| **Current Logic** | | | | | | | | | |
| N/A | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| **MDPOST40 ;HOIFO/NCA - Post Init ;2/7/07 16:15**  **;;1.0;CLINICAL PROCEDURES;\*\*40\*\*;Apr 01, 2004;Build 18**  **; Integration Agreements:**  **; IA# 2263 [Supported] XPAR Utilities**  **;**  **EN ; [Procedure] Setup preliminary parameters**  **; This submodule is called during the KIDS installation**  **; process.**  **;**  **; New private variables**  **N MDK,MDKGUI,MDKLST**  **; Set current client version**  **S MDKGUI="1.0.40.4"**  **; Deactivate all previous versions from XPAR**  **D GETLST^XPAR(.MDKLST,"SYS","MDK GUI VERSION")**  **F MDK=0:0 S MDK=$O(MDKLST(MDK)) Q:'MDK D**  **.D EN^XPAR("SYS","MDK GUI VERSION",$P(MDKLST(MDK),"^",1),0)**  **; Add and/or activate current client versions**  **D EN^XPAR("SYS","MDK GUI VERSION","HEMODIALYSIS.EXE:"\_MDKGUI,1)**  **Q** | | | | | | | | | |

##### Templates

N/A

Table 15 (Grouping): Templates

| Templates | Description | | | |
| --- | --- | --- | --- | --- |
| **Template Name** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **RSD** | N/A | | | |
| **Template Type** | Sort | Input | Print | Other |
| **Related Options** | N/A | | | |
| **Related Routines** | **Routines “Called By”** | | **Routines “Called”** | |
| **N/A** | N/A | | N/A | |
| Routines | Description | | |
| **Data Dictionary (DD) References** | N/A | | |
| **Global References** | N/A | | |

##### Bulletins

N/A

Table 16 (Grouping): Bulletins

| Bulletins | | Description | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Bulletin Name** | | N/A | | | | |
| **Enhancement Category** | | New | Modify | Delete | | No Change |
| **RTM** | | N/A | | | | |
| Related Routines | Routines “Called By” | | | | Routines “Called” | |
| N/A | N/A | | | | N/A | |
| Routines | Description | | | | | |
| **Mail Subject** | N/A | | | | | |
| **Mail Group** | N/A | | | | | |
| **Parameters** | N/A | | | | | |
| **Data Dictionary (DD) References** | N/A | | | | | |

##### Data Entries Affected by the Design

For Increment 4, the CP Hemodialysis software was updated to list the Camp Lejeune Exposure field on the summary screen. If the user clicks on the Service tab, a new window opens which allows the user to indicate Yes or No for the Camp Lejeune Exposure question for Veterans who qualify for the CL-V benefits. After they have completed their updates, the user clicks on the Save to PCE button and the updated record is then stored in the updated PCE file. The CL-V data is not stored locally in a file belonging to the Clinical Procedures application.

Please refer to the CL-V PCE Patch PX\*1.0\*207 SDD on the CL-V TSPR sitefor full details on the new PCE fields that were added to store the CL-V data.

Table 17: Data Entries Affected by the Design

| Field Name | Current Value | New Value |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Unique Record(s)

N/A

Table 18: Unique Record ID

| Field Name | Current Value | New Value |
| --- | --- | --- |
| N/A | N/A | N/A |

##### File or Global Size Changes

N/A

Table 19: File or Global Size Changes

| File/Global Name(s) | Estimated Increase | Estimated Decrease |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Mail Groups

No mail groups are affected.

Table 20 (Grouping): Mail Groups

| Mail Groups | Activities | | | |
| --- | --- | --- | --- | --- |
| **Mail Group Name** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Related Options** | N/A | | | |

| Related Routines | Routines “Called By” | Routines “Called” |
| --- | --- | --- |
| N/A | N/A | N/A |

| Mail Groups | Instructions | |
| --- | --- | --- |
| **Data Dictionary (DD) References** | N/A | |
| **Related Protocols** | N/A | |
| **Mail Group Description** | N/A | |
| **Self-Enrollment Allowed** | Yes | No |
| **Type** | Public | Private |

##### Security Keys

N/A

Table 21 (Grouping): Security Keys

| Security Keys | Activities | | | |
| --- | --- | --- | --- | --- |
| **Security Key Name** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Related Options** | N/A | | | |

| Related Routines | Routines “Called By” | Routines “Called” |
| --- | --- | --- |
| N/A | N/A | N/A |

| Security Keys | Activities | | | | |
| --- | --- | --- | --- | --- | --- |
| **Data Passing** | Input | Output | Both | Global Reference | Local Reference |
| **Security Key Description** | N/A | | | | |
| **Subordinate Keys** | N/A | | | | |
| **Mutually Exclusive Keys** | N/A | | | | |
| **Granting Condition Logic** | N/A | | | | |

| Current Logic |
| --- |
| N/A |

| Modified Logic (Changes are in bold) |
| --- |
| N/A |

| Security Keys | Activities |
| --- | --- |
| **Hierarchical Precedence** | N/A |

##### Options

N/A

Table 22: (Grouping): Options

| Options | Activities | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Option Name** | N/A | | | | | | | | | | |
| **Enhancement Category** | New | Modify | | | | Delete | | | No Change | | |
| **Associated Menu Options that will invoke this reference** | N/A | | | | | | | | | | |
| **Data Passing** | Input | | Output | | Both | | | Global Reference | | | Local Reference |
| **Menu Text Description** | N/A | | | | | | | | | | |
| **Option Type** | Edit | | | Print | | | Menu | | | Inquire | |
| Action | | | Run Routine | | | Other | | |  | |
| **Associated Routine** | N/A | | | | | | | | | | |
| **Option Definition** | N/A | | | | | | | | | | |

| Current Entry Action Logic |
| --- |
| N/A |

| Modified Entry Action Logic (Changes are in bold) |
| --- |
| N/A |

| Current Exit Action Logic |
| --- |
| N/A |

| Modified Exit Action Logic (Changes are in bold) |
| --- |
| N/A |

##### Protocols

N/A

Table 23 (Grouping): Protocols

| Protocols | Activities |
| --- | --- |
| **Protocol Name** | N/A |
| **Enhancement Category** | New  Modify  Delete  No Change |
| **Associated Protocols** | N/A |
| **Data Passing** | Input  Output  Both  Global Reference  Local Reference |
| **Item Text Description** | N/A |
| **Protocol Type** | Action  Menu  Protocol  Protocol Menu  Limited Protocol  Extended Action  Dialog  Other |
| **Associated Routine** | N/A |

| Current Entry Action Logic |
| --- |
| N/A |

| Modified Entry Action Logic (Changes are in bold) |
| --- |
| N/A |

| Current Exit Action Logic |
| --- |
| N/A |

| Modified Exit Action Logic (Changes are in bold) |
| --- |
| N/A |

##### Remote Procedure Call (RPC)

The following RPC calls were updated as part of the CP patch of theCL-V Increment 4 project.

Table 24: MD TMDCIDC RPCs

| RPCs | Activities | | |
| --- | --- | --- | --- |
| **Name** | MD TMDCIDC | | |
| **TAG^RTN** | RPC^ MDRPCW | | |
| **Input Parameters** | SCDISP | | |
| **Results Array** | Single Value | Array | Word Processing |
| Global Array | Global Instance |  |
| **Description** | Obtain the patient's service connection and rated disability. | | |

Table 25: MD TMDCIDC RPCs

| RPCs | Activities | | |
| --- | --- | --- | --- |
| **Name** | MD TMDCIDC | | |
| **TAG^RTN** | RPC^ MDRPCW | | |
| **Input Parameters** | PCEDISP | | |
| **Results Array** | Single Value | Array | Word Processing |
| Global Array | Global Instance |  |
| **Description** | Set PCE Data. | | |

Table 26: MD TMDWIDGET RPCs

| RPCs | Activities | | |
| --- | --- | --- | --- |
| **Name** | MD TMDWIDGET | | |
| **TAG^RTN** | RPC^MDRPCOW | | |
| **Input Parameters** | GETBILL | | |
| **Results Array** | Single Value | Array | Word Processing |
| Global Array | Global Instance |  |
| **Description** | Get Billing Data | | |

Table 27: MD TMDENCOUNTER RPC

| RPCs | Activities | | |
| --- | --- | --- | --- |
| **Name** | MD TMDENCOUNTER | | |
| **TAG^RTN** | GETENC^MDRPCW1 | | |
| **Input Parameters** | STUDY | | |
| **Results Array** | Single Value | Array | Word Processing |
| Global Array | Global Instance |  |
| **Description** | Get Encounter Data. Data returned includes patient’s eligibility and any existing treatment-related values from Scheduling for Agent Orange, Ionizing Radiation, Service-Connected Condition, Environmental Contaminants, Military Sexual Trauma, Combat Veteran and Camp Lejeune. | | |

##### Constants Defined in Interface

N/A

Table 28: Constants Defined in Interface

| Name | Description |
| --- | --- |
| N/A | N/A |

##### Variables Defined in Interface

N/A

Table 29: Variables Defined in Interface

| Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | NA/ |

##### Types Defined in Interface

N/A

Table 30: Types Defined in Interface

| Name | Type | Description |
| --- | --- | --- |
| NA/ | N/A | N/A |

##### GUI

Table 31: GUI

| Unit Name | Description |
| --- | --- |
| **uMDK\_BillingInfo** | Updating TMDK\_BillingInfo class with CL fields |
| **fMDK\_ListEdit** | Adding 2 radio buttons, 1 checkbox, modifying billing info assignment code, display code |
| **fMDK\_Summary** | Adding 1 checkbox, modifying back end code for display |

##### GUI Classes

Table 32: GUI Classes

| GUI Classes | Instructions |
| --- | --- |
| **Class Name** | TMDK\_BillingInfo |
| **Derived From Class** | TObject |
| **Purpose** | Handle Billing information (including service related conditions) |

##### Current Form

Figure 4: Current Assessments Form (TfrmSummary)

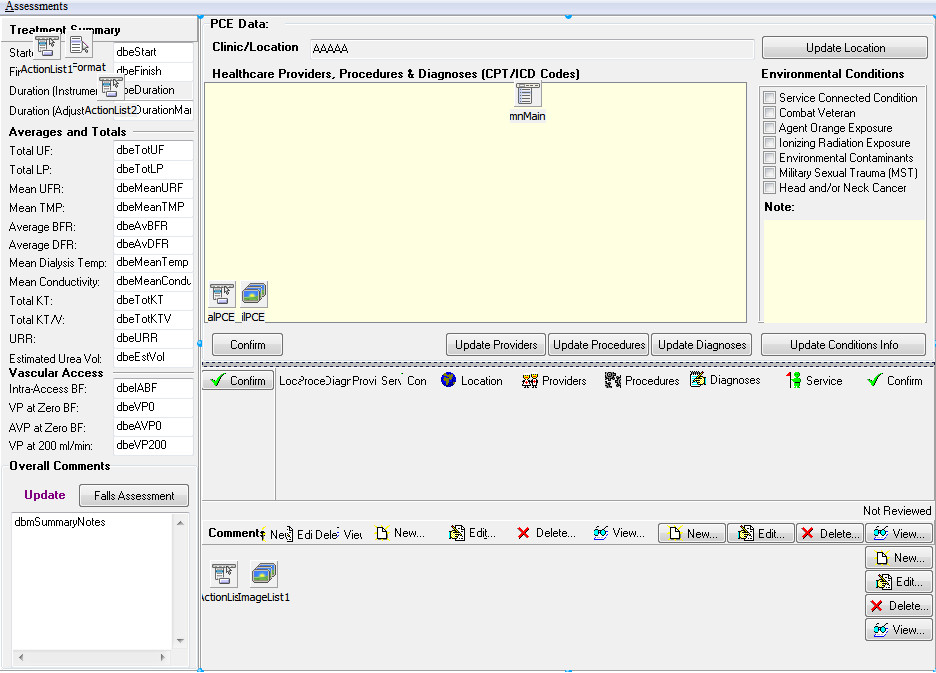
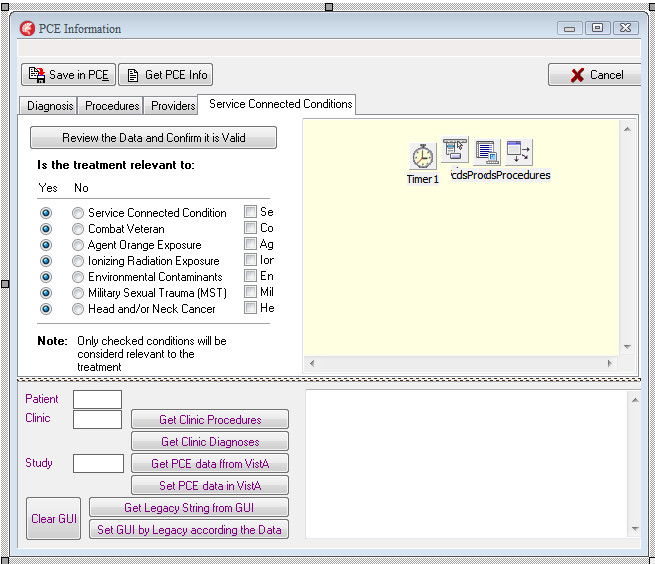


Figure 5: Current PCE Information Form (TfrmListEdit)



##### Modified Form

Figure 6: Modified Assessments Form (TfrmSummary)

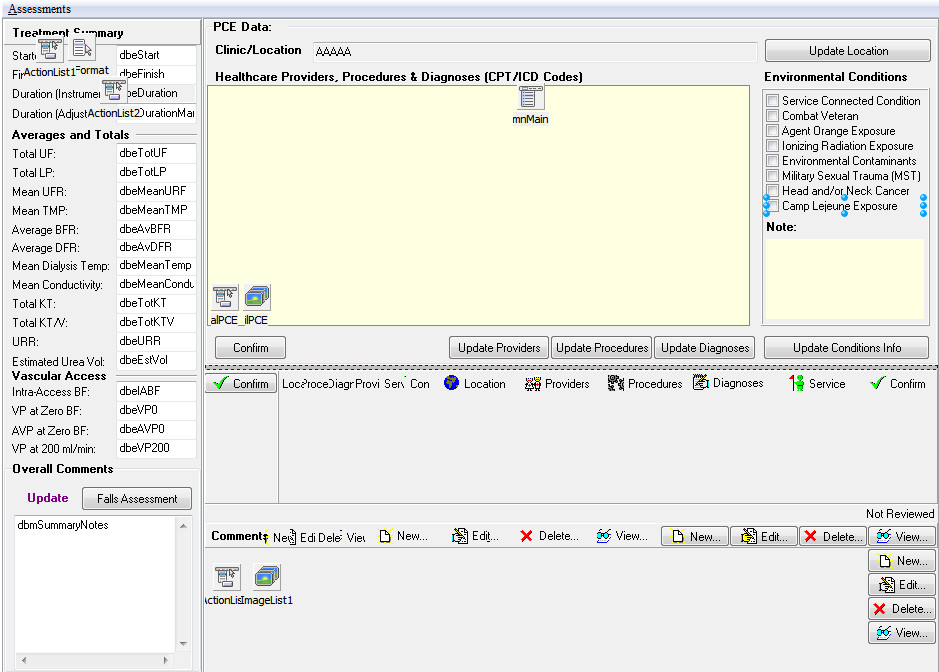
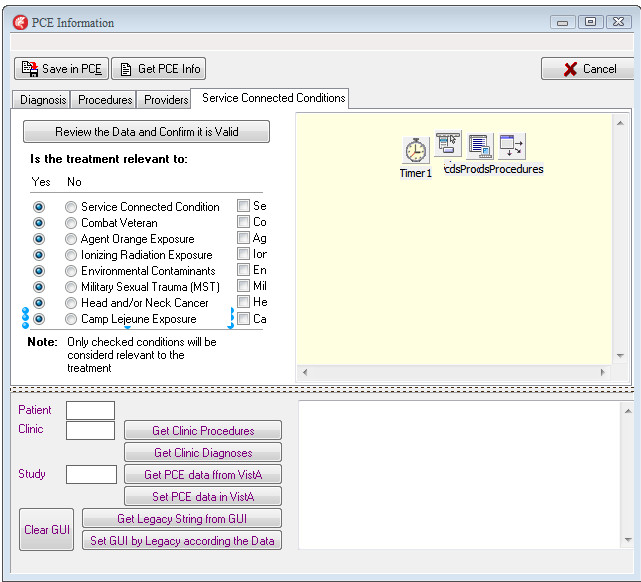


Figure 7: Modified PCE Information Form (TfrmListEdit)



##### Components on Form

Table 33: Components on Form

| Name | Type | Description |
| --- | --- | --- |
| TfrmListEdit.rbCL1 | TRadioButton | Camp Lejeune 'Yes' |
| TfrmListEdit.rbCL2 | TRadioButton | Camp Lejeune 'No' |
| TfrmListEdit.cbxCL | TCheckBox | Confirm for Camp Lejeune |
| TfrmListEdit.pnlCL | TPanel | Contains CLV controls |
| TfrmSummary.cbxCL | TCheckbox | Camp Lejeune indicator status |

##### Events

Table 34: Events

| Name | Type | Description |
| --- | --- | --- |
| TfrmSummary.cbxSCClick | OnClickEvent | Service Condition click event, populates fBillingData |

##### Methods

Table 35: Methods

| Method Name | Procedure/Function | Description |
| --- | --- | --- |
| TfrmListEdit.setConnectionData | Procedure | Initialize form data |

##### Special References

Table 36: Special References

| Special Reference Name | Type | Description |
| --- | --- | --- |
| fBillingData | TMDK\_BillingInfo class | Global containing billing information |

##### Class Events

N/A

Table 37: Class Events

| Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Class Methods

Table 38: Class Methods

| Name | Procedure/Function | Description |
| --- | --- | --- |
| TMDK\_BillingInfo.Create | class function | Modify to initialize CL property |

##### Class Properties

Table 39: Class Properties

| Class Properties Name | Type | Visibility | Description |
| --- | --- | --- | --- |
| TMDK\_BillingInfo.CL | boolean | Public | True if Camp Lejeune active |
| TMDK\_BillingInfo.Legacy | string | Public | Researching |
| TMDK\_BillingInfo.XMLData | string | Public | Researching |

##### Uses Clause

N/A

##### Forms

N/A

Table 40 (Grouping): Forms

| Forms | Description | | | |
| --- | --- | --- | --- | --- |
| **Form Name** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Form Functionality** | N/A | | | |

| Current Form Layout |
| --- |
| N/A |

| Modified Form Layout (Changes are in bold) |
| --- |
| N/A |

##### Functions

N/A

Table 41 (Grouping): Functions

| Function Name | Activities | | | |
| --- | --- | --- | --- | --- |
| **Short Description** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Related Options** | N/A | | | |

| Related Routines | Routines “Called By” | Routines “Called” |
| --- | --- | --- |
| N/A | N/A | N/A |

| Function Name | Activities | | | | |
| --- | --- | --- | --- | --- | --- |
| **Data Dictionary (DD) References** | N/A | | | | |
| **Related Protocols** | N/A | | | | |
| **Related Integration Control Registrations (ICRs)** | NA/ | | | | |
| **Data Passing** | Input | Output | Both | Global Reference | Local Reference |
| **Input Attribute Name and Definition** | Name: N/A | | | | |
| Definition: N/A | | | | |
| **Output Attribute Name and Definition** | Name N/A | | | | |
| Definition: N/A | | | | |

| Current Logic |
| --- |
| N/A |

| Modified Logic (Changes are in bold) |
| --- |
| N/A |

##### Dialog

N/A

Table 42 : Dialog

| Dialog | Instructions | | | |
| --- | --- | --- | --- | --- |
| **Dialog Message (Description)** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Dialog Message (Description) Condition** | N/A | | | |
| **Current Dialog Message (Description)** | N/A | | | |
| **Modified Dialog Message (Description)  (Changes are in bold)** | N/A | | | |

##### Help Frame

N/A

Table 43 (Grouping): Help Frame

| Help Frame | Description | | | |
| --- | --- | --- | --- | --- |
| **Help Frame Text** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Help Frame Text Calling Mechanism** | N/A | | | |

| Current Help Frame Text |
| --- |
| N/A |

| Modified Help Frame Text (Changes are in bold) |
| --- |
| N/A |

##### HL7 Application Parameter

N/A

Table 44: (Grouping): HL7 Application Parameter

| HL7 Application Parameter Name | Description |
| --- | --- |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Enhancement Category** | New | Modify | Delete | No Change |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Application Status** | Active | Inactive | Active | Inactive |

| Enhancement Category | Current | Modified |
| --- | --- | --- |
| **Facility Name** | N/A | N/A |
| **Country Code** | N/A | N/A |
| **HL7 Field Separator** | N/A | N/A |
| **HL7 Encoding Characters** | N/A | N/A |
| **Mail Group** | N/A | N/A |

##### HL7 Logical Link

N/A

Table 45: (Grouping): HL7 Logical Link

| HL7 Logical Link | Description |
| --- | --- |
| **HL7 Logical Link Parameter Name** | N/A |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Enhancement Category** | **New** | **Modify** | **Delete** | **No Change** |

| Enhancement Category | Current | Modified |
| --- | --- | --- |
| **Node** | N/A | N/A |
| **Institution** | N/A | N/A |
| **Domain** | N/A | N/A |
| **Autostart** | N/A | N/A |
| **Queue Size** | N/A | N/A |
| **LLP Type** | N/A | N/A |

##### COTS Interface

N/A

Table 46: COTS Interface

| COTS Interface | Description |
| --- | --- |
| **Communication Method** | N/A |
| **Application Interface** | N/A |

## Network Detailed Design

No change from previous releases.

## Security and Privacy

No special considerations apply for security and privacy for the CL-V Increment 4enhancements.

### Security

N/A

### Privacy

N/A

## Service Oriented Architecture / ESS Detailed Design

The current CP package is a VistA legacy application and not based on a Service Oriented Architecture. No enterprise shared services are consumed or provided as part of this project.

### Service Description

Not applicable to VistA.

### Service Design for

Not applicable to VistA.

#### Introduction

##### Purpose and Scope of Service

Not applicable to VistA.

##### Links to Other Documents

Not applicable to VistA.

#### Service Details

##### Service Identification

Not applicable to VistA.

Table 47: Service Identification

| Service Attribute | Value |
| --- | --- |
| N/A | N/A |
| Overview | N/A |
| Version | N/A |
| Latest Status | N/A |
| Service Type | N/A |
| Architecture Layer | N/A |
| Business Domain | N/A |
| Service Domain | N/A |
| Business Organization and Owner | N/A |
| Technical Organization and Owner | N/A |
| Development Organization and Owner | N/A |
| Support Organization and Owner | N/A |
| Target Consumer Organization(s) and Owner(s) | N/A |

##### Service Versions

Not applicable to VistA.

Table 48: Service Versions

|  |  |  |
| --- | --- | --- |
| Version Numbers | Current Status of Version | A Brief Description of the Change Implemented in that Version |
| N/A | N/A | N/A |

##### Summary of Design and Platform Details

###### SOA Pattern(s) Implemented

Not applicable to VistA.

###### COTS Platform Vendor Names and Versions for Hosting Platform

Not applicable to VistA.

#### Dependencies

Not applicable to VistA.

#### Service Design Details

Not applicable to VistA.

##### Interface Technical Specs

Not applicable to VistA.

###### Service Invocation Type

Not applicable to VistA.

###### Service Interface Type

Not applicable to VistA.

###### Service Name

Not applicable to VistA.

###### Interface

Not applicable to VistA.

###### End Points

Not applicable to VistA.

###### Operations or Methods

Not applicable to VistA.

Table 49: Operations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Operation Name | Inputs | Outputs | Transactional Qualities if relevant (Updating?, Atomic?, Can participate in transaction?) | Pre and Post Conditions | Exception (s) |
| N/A | N/A | N/A | N/A | N/A | N/A |

###### Message Schemas

Not applicable to VistA.

##### Information Model

Not applicable to VistA.

###### Class Diagram and Description of Entities Involved

Not applicable to VistA.

###### Mappings from ELDM to Standards Based Schemas

Not applicable to VistA.

##### Behavior Model (AKA Use Case Realization)

Not applicable to VistA.

###### Use Cases (Use Case Model)

Not applicable to VistA.

###### Interaction Diagrams

Not applicable to VistA.

#### Gap Analysis

Not applicable to VistA.

Table 50: Gap Analysis

| Design Elements🡪  Policies / SLD elements etc.↓ | Design  Element A | Design  Element B | Design  Element C | Comment for Non-Conformance |
| --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A |

##### Variances from Enterprise Target Architecture

Not applicable to VistA.

##### Variances from SLDs

Not applicable to VistA.

##### Variances from Standards and Policies

Not applicable to VistA.

##### Justification for Exceptions and Mitigation

Not applicable to VistA.

# External System Interface Design

N/A

## Interface Architecture

No change from previous releases.

## Interface Detailed Design

No change from previous releases.

# Human-Machine Interface

The Hemodialysis Summary screen was updated to allow Hemodialysis users to view a patient’s Camp Lejeune eligibility.

The service tab from the Summary Screen was updated to allow Hemodialysis users to update the Camp Lejeune Exposure indicator.

## Interface Design Rules

No change from previous releases.

## Inputs

No change from previous releases.

## Outputs

No change from previous releases.

## Navigation Hierarchy

No change from previous releases.

### Screen [x.1]

N/A

### Screen [x.2]

N/A

### Screen [x.3]

N/A

# Attachment A – Approval Signatures

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signed: Date:

< Business Sponsor >

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signed: Date:

*, CL-V Project Manager*

1. Additional Information

Additional information is provided in the sub-sections that follow.

* 1. Identification of Technology and Standards

The only standard that applies to the patch described in this SDD are the American National Standards Institute [ANSI] standards.

This application conforms to the current VistA Standards and Conventions Committee (SACC) and has passed through all of the VA vetting processes before its national release.

In addition, it utilizes the latest versions of key VistA infrastructure applications (FileMan, Kernel, MailMan, etc.)

* 1. Constraining Policies, Directives and Procedures

Directive: Public Law 112-154: On August 6, 2012, President Obama signed into law the “Honoring America’s Veterans and Caring for Camp Lejeune Families Act of 2012” (P. L. 112-154). This law provides healthcare for Veterans who served on active duty at Camp Lejeune and reimbursement for healthcare to family members who resided at Camp Lejeune for not fewer than 30 days between August 1, 1953 and December 31, 1987. The law authorizes care for 15 medical conditions, even if there is insufficient medical evidence to conclude that such illnesses or conditions are attributable to the Veterans’ military service or family members’ residence at Camp Lejeune.

The Camp Lejeune-Veterans (CL-V) project improves organizational efficiency in providing services to affected Veterans by ensuring they are appropriately identified as Camp Lejeune eligible, assigning them to Priority Group 6, and waiving co-payments for their conditions related to Camp Lejeune. This helps to address the mandated House Resolution (H.R.) 1627 [now Public Law (P.L.) 112-154, Honoring America’s Veterans], which requires the Department of Veterans Affairs (VA) to provide hospital care and medical services to Veterans who meet the specified conditions.

The changes to the Clinical Procedures application, the subject of this SDD, is one of the backend processing systems for Camp Lejeune related care that allows implementation of Camp Lejeune system changes.

* 1. Requirements Traceability Matrix

The CL-V Increment 4 RTM can be found on CL-V TSPR. The requirements traceability for the CP patch is found on the CP tab of the RTM.

* 1. Packaging and Installation

Not applicable to VistA.

* 1. Design Metrics

Not applicable to VistA.