

Camp Lejeune-Veterans (CL-V)

4.2 Enrollment System Core (ESC)

Requirements Specification Document

Increment 3



Department of Veterans Affairs

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Revision History

Note: The revision history cycle begins once changes or enhancements are requested after the Requirements Specification Document has been base lined.

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4/2/2015	0.30	TW review, updated dates, removed "draft".	
4/1/2015	0.29	Removing and Reinstating Requirements. No longer supporting a phased rollout of Camp Lejeune Functionality (CR#13861)	
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Date	Version	Description	Author
		update for incoming earlier dates from CLEAR. Corrected scenario 4 to remove the not applicable “if different” clause. (CR#13749)	
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12/30/2014	0.12	Modified versioning and formatting based on Kim’s guidance	
12/26/2014	0.11	Updated the CLEAR Extract File exception reasons per discussion on 12/23/2014.	

Date	Version	Description	Author
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09/11/2014	0.3	Updated Functional Requirements	
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08/08/2014	0.1	Initial Draft	

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1 Introduction

From the 1950s to the 1980s, people living or working at the U.S. Marine Corps Base Camp Lejeune (CL), NC, were exposed to drinking water contaminated with industrial solvents, benzene, and other chemicals. 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 health care for Veterans who served on active duty at Camp Lejeune and reimbursement for health care 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.

CL

The Camp Lejeune-Veteran (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 address mandate House Resolution (H.R.) 1627 (now Public Law (P.L.) 112-154, Honoring America’s Veterans which requires VA to provide hospital care and medical services to Veterans who served on active duty at Camp Lejeune for one or more of 15 specified illnesses or conditions.

1.1 Purpose

The purpose of this Requirements Specification Document (RSD) is to formally define and document the system requirements to support the CL-V project. CL-V Increment 3 will focus on the implementation of CL-V system changes through front-end applications that provide Registration, Eligibility, and Enrollment (REE) services as well as pack off reporting (e.g., Office of Policy and Planning reporting, etc.) of Camp Lejeune eligibility data.

The primary audience for this document includes functional analysts, developers, testers, Office of Information and Technology (OI&T) managers, and business managers with an interest in the changes and enhancements made to the Enrollment System and Veterans Health Information Systems and Technology Architecture (VistA) REE to incorporate Camp Lejeune in Veterans Health Administration’s (VHA) registration, eligibility and enrollment processes.

1.2 Scope

In order to fulfill the legislative requirements, implementation of Camp Lejeune system changes through front-end applications (REE) are required. Down stream processes to implement a Veteran’s Camp Lejeune eligibility are out of scope for this RSD and will be implemented in a future phase of the CL-V project to include: point of care (Computerized Patient Record System, Scheduling, Pharmacy, etc.), and back office (Integrated Billing, Office of Policy and Planning reporting, etc.) processes.

The solution shall enable VA to:

- Enhance eligibility and enrollment processes to allow proper identification of Camp Lejeune eligible Veterans to receive hospital care and medical services from VA
- Maintain databases used to track and verify Veterans identified as Camp Lejeune eligible
- Enhance systems to automate priority group assignment, and to allow Medical and Ancillary Services to recognize Camp Lejeune-eligible Veterans for health care provision and effectiveness
- Provide communications for eligible or potentially eligible Veterans
- Identify and provide ongoing training to VA staff
- Provide customer service for eligible Veterans, to include behind the scenes work to streamline enrollment process, verify accuracy of databases, and training to staff

The following is considered in scope for this detailed requirements document:

- Capturing information at various points of entry (VistA REE, Enrollment System (ES), Veteran's On-Line Application (VOA), CLEAR, etc.) required to determine Camp Lejeune eligibility for Veterans
- Making authoritative decisions on Camp Lejeune eligibility for Veterans (initial enrollment decisions and continuation of enrollment)
- Providing authoritative Eligibility and Enrollment (E&E) decisions regarding Camp Lejeune eligibility for Veterans to consuming applications and lines of business
- Incorporating information on Camp Lejeune eligibility for Veterans into clinical flows and back office processes
- Reporting to Office of Policy and Planning (OPP)
- Updating of Camp Lejeune information using existing data extracted from the Camp Lejeune Environmental Action Report (CLEAR) database
- Data sharing requirements from authoritative source to consuming applications
- Error monitoring and reporting

The following is considered out of scope for this detailed "first project phase" requirements document:

- Allow Medical and Ancillary Services to recognize Camp Lejeune-eligible Veterans for health care provision and effectiveness
- Incorporating information on Camp Lejeune eligibility for Veterans into clinical flows and back office processes

1.3 References

- Camp Lejeune P.L. 112-154 Veterans Systems Changes Business Requirements Document (BRD) v10;
- Camp Lejeune Veterans System Changes Detail v2 5 07312014 v2.4;
- [Rehabilitation Act of 1973 \(29 U.S.C. 794d\) as amended by the Workforce Investment Act of 1998 \(P.L. 105 - 220\)](#);
- [VA Handbook 6102, Internet/Intranet Services](#) (July 15, 2008);
- [VA Directive 6500, Managing Information Security Risk: VA Information Security Program](#) (September 20, 2012);
- [VA Directive 6500](#), Risk Management Framework for VA Information Systems – Tier 3 VA Information Security (March 10, 2015);
- [VA Handbook 6513](#), Secure External Connections (July 16, 2010);
- [Federal Information Processing Standards Publication \(FIPS PUB\) 140-2, Security Requirements for Cryptographic Modules](#) (May 25, 2001);

- [FIPS PUB 199, Standards for Security Categorization of Federal Information and information Systems](#) (March 2004);
- [FIPS PUB 200, Minimum Security Requirements for Federal Information and Information Systems](#) (March 2006);
- [National Institute of Standards and Technology \(NIST\) Special Publications \(SP\) 800-30 Revision 1, Guide for Conducting Risk Assessments](#) (September 2012);
- [NIST SP 800-37 Revision 1, Guide for Applying the Risk Management Framework to Federal Information Systems A Security Life Cycle Approach](#) (February 2010);
- [NIST SP 800-60, Revision 1, Guide for Mapping Types of Information and Information Systems to Security Categories \(Volume I\)](#) (August 2008);
- [NIST SP 800-60, Revision 1, Guide for Mapping Types of Information and Information Systems to Security Categories \(Volumes II\)](#) (August 2008);
- [NIST SP 800-53 Revision 3, Recommended Security Controls for Federal Information Systems and Organizations](#) (August 2009);
- [NIST SP 800-111, Guide to Storage Encryption Technologies for End User Devices](#) (November 2007); and
- [VA Section 508 Program Office web site.](#)

2 Overall Description

President Barack H. Obama signed the Honoring America's Veterans and Caring for Camp Lejeune Families Act of 2012 into law on August 6, 2012. This law requires VA to provide hospital care and medical services to Veterans who served on active duty at Camp Lejeune, NC, for one or more of the following 15 illnesses or conditions:

Esophageal cancer	Renal toxicity
Lung cancer	Hepatic steatosis
Breast cancer	Female infertility
Bladder cancer	Miscarriage
Kidney cancer	Scleroderma
Leukemia	Neurobehavioral effects
Multiple myeloma	Non-Hodgkin's lymphoma
Myelodysplastic syndromes	

To be eligible for care under the provisions of this bill, the Veteran must have resided or served on active duty at Camp Lejeune for not fewer than 30 days between August 1, 1953 and December 31, 1987.

ES primary users are the Health Eligibility Center (HEC), Health Administration Center (HAC), and Health Resource Center (HRC) users and super users. External users of the system include the Social Security Administration (SSA) and Department of Defense (DoD). The ES processes Veterans' enrollment applications, manages Veterans' enrollment correspondence and telephone inquiries, shares eligibility and enrollment information with other VA organizations, and supports national reporting and analysis of enrollment data. The system compiles military service, demographics, and financial data from VA healthcare facilities and other internal (VA) and external authoritative subsystems to process Veterans' applications for enrollment and support benefits determinations. Once compiled, ES shares this information with the VA healthcare facilities treating the Veteran.

ES consists of two major subsystems or modules: messaging and case management. The messaging subsystem provides a seamless bi-directional interface with external VHA and non-VHA systems for data exchange of Veterans' information. The case management subsystem provides authorized VHA case representatives at the HEC with a web interface to easily track, maintain, and manage cases associated with Veteran benefits.

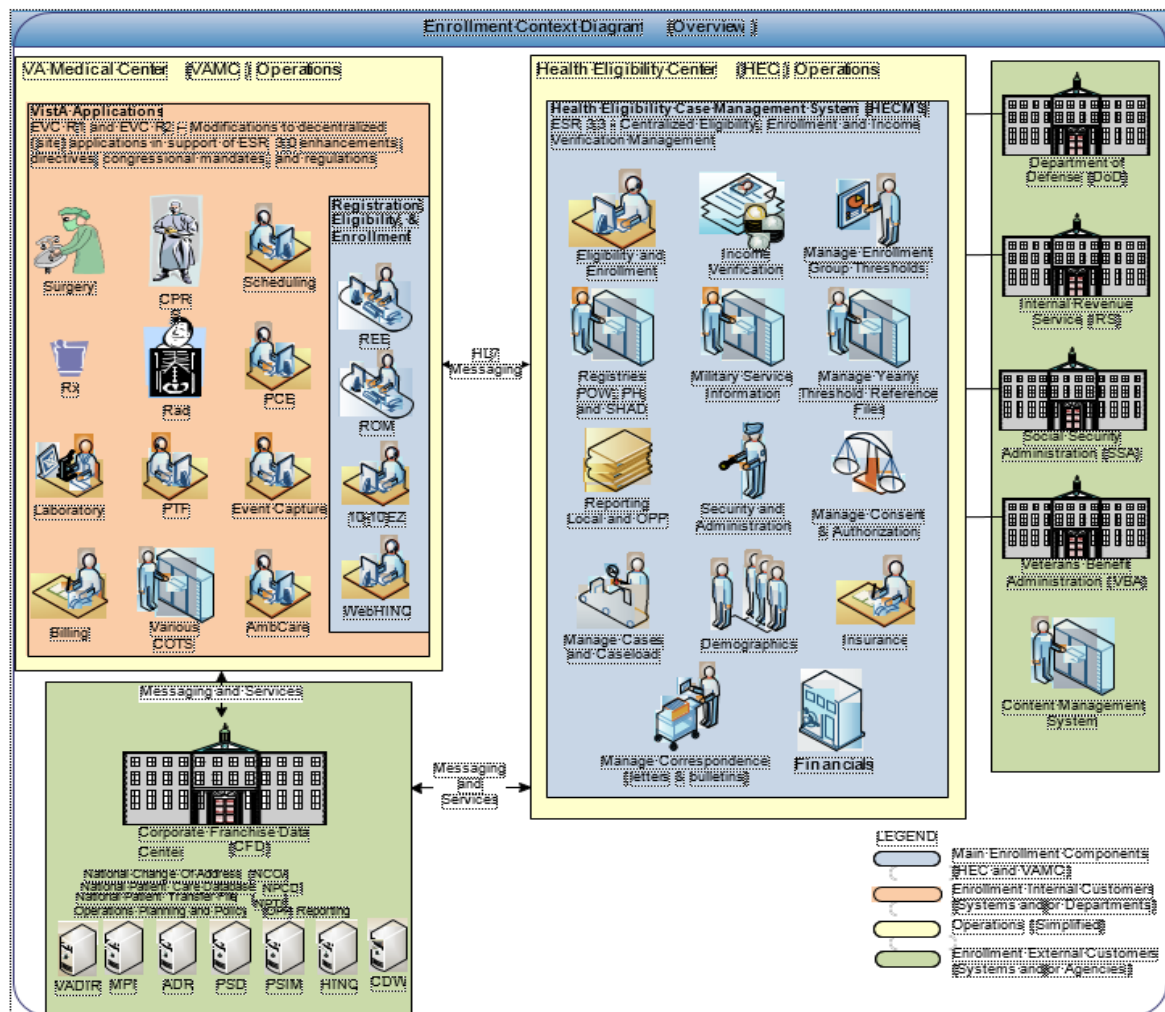


Figure 1: ES Business Context Diagram

2.1 Accessibility Specifications

The CL-V project will adhere to all Section 508 requirements which include compliance with the applicable requirements in the VHA Section 508 checklists (1194.21, 1194.22, 1194.24, 1194.31, and 1194.41) located at http://www.ehealth.va.gov/508/resources_508.html or as otherwise specified. Established checkpoints will ensure that accessibility is incorporated from the earliest possible design or acquisition phase and successfully implemented throughout the project.

2.2 Business Rules Specification

The business rules and specifications are described by Application Group, Enrollment System (ES) and Vista. Please refer to the Business Requirements Document.

2.3 Design Constraints Specification

Successful implementation of this project requires adequate training and education for end users and support staff. The CL-V project will adhere to all technical standards published in VA Handbook 6102, as well as all security standards described under section 2.13 of this document. For Development, coding standards follow the Standards and Conventions document.

2.4 Disaster Recovery Specification

A contingency plan will address CL-V disaster recovery needs. The emergency management staff of system sites will coordinate with developing the contingency plan and the facility director or program manager will approve it. The contingency plan will define the overall objectives and establish the framework, roles, and responsibilities of the plan. The plan will address the scope, resource requirements, processing priorities, training, testing, plan maintenance, and backup requirements of the contingency recovery plan. The contingency plan will include remote sites. Activities involved in creating this plan include conducting an impact analysis, identifying preventive measures, developing a recovery strategy, documenting the disaster plan, distributing the plan to appropriate individuals, training the staff, and testing the plan.

The contingency plan will identify the activities that are necessary to execute temporary information system processing capabilities, repair damage to the original system, and restore operational capabilities at the original or new facility. The information system contingency recovery plan will also document the following resources required for supporting critical functions.

Recovery strategies will include the sequence of activities as well as detailed procedures for the technical recovery of operations until the system can be reconstituted.

2.5 Documentation Specifications

The CL-V project will conform to the documentation specifications as mandated by Program Management Accountability System (PMAS), ProPath, and the Integrated Project Team (IPT). User and system documentation for the CL-V project that support the system enhancements and sustainment may include:

- User manuals for software;
- In-house application documentation (application requirements/program documentation, specifications/change control recommendations);
- Any vendor-supplied documentation;
- Standard operating procedures;
- Network diagrams and documentation on setups of routers and switches;
- Software and hardware testing procedures and results;
- System interconnection agreements;
- Hardware replacement agreements; and
- Vendor maintenance agreements and maintenance records.

2.6 Functional Specifications

2.6.1 Enrollment System (ES) Changes

2.6.1.1.1 Camp Lejeune Information Enhancements to ES User Screens

2.6.1.1.1.1 An ES User can update the Camp Lejeune Eligibility indicator and associated Camp Lejeune information through the following screens:

- Add a Person
- Current Military Service screen
- Update Eligibility screen

2.6.1.1.2 From Add a Person, and both the Current Military Service and Update Eligibility ES screens, the ES User will have access to Online Help Text about the Camp Lejeune information to assist in completing Camp Lejeune information as needed.

2.6.1.1.3 The Online Help page for Enrollment help text will also be updated to reflect the automatic Priority Group 6 or higher placement for Camp Lejeune verified enrollments.

Note: The following mock-ups are provided for reference.

Pension Termination Reason 3:

Pension Termination Reason 4:

Receiving VA Disability Compensation: ☐ Yes ☒ No ☐ Unknown

Total Monthly Check Amount: \$

Annual Check Amount: \$

Unemployable: ☐ Yes ☒ No

Permanent & Total: ☐ Yes ☒ No

Rated Incompetent: ☐ Yes ☐ No ☒ No Data

Eligible For Medicaid: ☐ Yes ☐ No ☒ No Data

Ineligible Date: (mm/dd/yyyy)

Other Eligibility Factors

Discharge Due to Disability: ☐ Yes ☐ No ☒ No Data

Military Disability Retirement: ☐ Yes ☐ No ☒ No Data

Agent Orange Exposure Location:

Radiation Exposure Method:

SW Asia Conditions: ☐ Yes ☒ No

Spinal Cord Injury:

Nose and Throat Radium Treatments: ☐ Yes ☐ No ☒ Unknown

Camp Lejeune Eligibility: ☒ Yes ☐ No

Verified Method: ☐ DoD ☐ NPRC ☐ DPRIS ☐ OMPF ☐ USMC ☐ CDC ☐ Other

Comments:

CL Date Registered: 04/04/2013

CL Eligibility Change Site: HEC

CL Eligibility Source of Change: DOD

Non-Veteran Eligibility Codes

Figure 2: Update Eligibility Screen Mock up

Camp Lejeune information expanded:

Overview Eligibility Demographics **Military Service** Financials Enrollment Facility Communications

SEND QUERY TO MSDS BROKER

VA CONNECTICUT HEALTHCARE SYSTEM - WEST HAVEN DIVISION (689)

Current Military Service [VIEW HISTORICAL MILITARY SERVICE](#)

Discharge Due to Disability: ☐ Yes ☐ No ☒ Unknown

Military Disability Retirement: ☐ Yes ☐ No ☒ Unknown

Agent Orange Exposure Location:

Radiation Exposure Method:

SW Asia Conditions: ☐ Yes ☐ No

Medal Of Honor Indicator: ☒ Yes ☐ No ☐ No Data

Document Type:

Document Receipt Date: (mm/dd/yyyy)

Source of Change:

Decoration Status:

Status Update Date:

SHAD: ☐ Yes ☐ No

Camp Lejeune Eligibility: ☒ Yes ☐ No

Verified Method: ☐ DoD ☐ NPRC ☐ DPRIS ☐ OMPF ☐ USMC ☐ CDC ☐ Other

Comments:

CL Date Registered: 04/04/2013

CL Eligibility Change Site: HEC

CL Eligibility Source of Change: DOD

Filipino Veteran Proof:

Combat Veteran Eligibility End Date:

Eligible for Class II Dental: ☐ Yes ☐ No

Class II Dental Application Due Before:

OEF/OIF Combat Episodes [ADD OEF/OIF COMBAT EPISODE](#)

No Data Available

Figure 3: Update Current Military Service Mock up

Camp Lejeune information collapsed:

Overview Eligibility Demographics **Military Service** Financials Enrollment Facility Communications

SEND QUERY TO MSDS BROKER

VA CONNECTICUT HEALTHCARE SYSTEM - WEST HAVEN DIVISION (689)

Current Military Service VIEW HISTORICAL MILITARY SERVICE

Discharge Due to Disability: ☐ Yes ☐ No ☒ Unknown

Military Disability Retirement: ☐ Yes ☐ No ☒ Unknown

Agent Orange Exposure Location:

Radiation Exposure Method:

SW Asia Conditions: ☐ Yes ☐ No

Medal Of Honor Indicator: ☒ Yes ☐ No ☐ No Data

Document Type:

Document Receipt Date: (mm/dd/yyyy)

Source of Change:

Decoration Status:

Status Update Date:

SHAD: ☐ Yes ☐ No

Camp Lejeune Eligibility: ☐ Yes ☐ No

Filipino Veteran Proof:

Combat Veteran Eligibility End Date:

Eligible for Class II Dental: ☐ Yes ☐ No

Class II Dental Application Due Before:

OEI/OIF Combat Episodes ADD OEI/OIF COMBAT EPISODE

No Data Available

Figure 4: Update Current Military Service (Mock up)

2.6.1.2 Camp Lejeune Eligibility Indicator

2.6.1.2.1 Name of field on the ES UI: Camp Lejeune Eligibility

2.6.1.2.2 This field allows the user to select or view the Veteran's Camp Lejeune water contaminants health care eligibility

2.6.1.2.3 Valid values:

- Yes
- No
- NULL

2.6.1.2.4 ES will enable the Camp Lejeune Eligibility (CLE) indicator if **all** of the following CLE rules are met:

1. Person is a Veteran **AND**
2. Person has one or more Military Service Episode(s) (MSE) that include no less than 30 days of service between August 1, 1953 and December 31, 1987 (inclusive) **AND**
3. All of the identified MSE(s) used for the 30-day service duration has a character of discharge other than:
 - Dishonorable
 - Other Than Honorable
 - Undesirable
 - Bad Conduct
 - Dishonorable-VA

Note: If multiple MSEs are used to count the 30-day service duration requirement, the MSEs do not have to be consecutive days.

- 2.6.1.2.5 Enabling and Disabling of the CLE indicator
 - 2.6.1.2.5.1 The CLE indicator is defaulted to NULL and disabled.
 - 2.6.1.2.5.2 When the CLE rules are met, the system enables the CLE indicator allowing the ES User to manually select a Camp Lejeune Eligibility value (i.e., Yes/No)
 - 2.6.1.2.5.3 If the CLE rules are **not** met for a person, ES will disable the Camp Lejeune Eligibility indicator.
- 2.6.1.2.6 In order to edit Camp Lejeune information, the ES user must have the permission to Add Military Service Information and Edit Military Service Information.

Note: The verification of the Veteran's claim Camp Lejeune duty is a manual process and is based on supporting documentation that may be provided by the Veteran, through other sources, or by the Veteran self-certifying; however, providing supporting documentation is not currently required by the VA.

2.6.1.3 Verified Method

- 2.6.1.3.1 Name of field on the ES UI: Verified Method
- 2.6.1.3.2 This field allows the user access to a list of values that the user may select from to indicate the method that was used to collect proof of Camp Lejeune residency.
- 2.6.1.3.3 Enabled only when the CLE indicator is "Yes".
- 2.6.1.3.4 The initial value is blank.
- 2.6.1.3.5 This field is not required; the ES user can select none, one, or multiple verified methods.
- 2.6.1.3.6 Valid values:
 - DoD
 - NPRC
 - DPRIS
 - OMPF
 - USMC
 - CDC
 - OTHER
- 2.6.1.3.7 Once the verified method is set from the initial blank value, the value can never be set back to blank.

2.6.1.4 Verified Method Comments

- 2.6.1.4.1 Name of field on the ES UI: Comments
- 2.6.1.4.2 This free text box allows the ES user to enter comments for a verified method of "Other".
- 2.6.1.4.3 The field is enabled and is required if a Verified Method of "Other" is selected; (Note: "Other" can be the only verified method selected, or selected as one of many.)
- 2.6.1.4.4 The free text field allows up to 200 characters.
- 2.6.1.4.5 The default value is blank.
- 2.6.1.4.6 If the Comments field is not blank and the user selects a different Verified Method value prior to saving the data, the field value is cleared and disabled.

2.6.1.4.7 Verified Method Comments not associated with a method of “Other” may be received from an external source, these comments should be stored as received.

2.6.1.5 Camp Lejeune Date Registered

2.6.1.5.1 Name of field on the ES UI: CL Date Registered.

2.6.1.5.2 The field displays the initial date on which the Veteran first claimed Camp Lejeune Eligibility.

2.6.1.5.3 The initial value is blank.

2.6.1.5.4 When an ES user registers a Veteran, ES will populate the “CL Date Registered” field value to the current system date if the Camp Lejeune Eligibility Indicator is set to “Yes” or “No”.

2.6.1.5.5 The field is editable through the ES Graphical User Interface (GUI) by an ES authorized user but cannot be set to a future date.

2.6.1.5.6 The field value may be received from and uploaded to ES through the CLEAR extract.

2.6.1.5.7 The field value is set to the VOA application date when received from a VOA submission.

2.6.1.6 Camp Lejeune Change Site

2.6.1.6.1 Name of field on the ES UI: CL Eligibility Change Site.

2.6.1.6.2 The field displays the point-of-entry site that last changed the on file Camp Lejeune record.

2.6.1.6.3 It is assigned by the system; not editable by the ES user.

2.6.1.6.4 The initial value is blank.

2.6.1.6.5 Valid values:

- <VAMC Site>
- HEC

2.6.1.6.6 “VAMC Site” is in the format “VAMC + <institution id>” and indicates the station number associated with the VistA VA facility that last changed the Camp Lejeune record.

Note: “VAMC Site” is set in VistA and is received data into ES.

2.6.1.6.7 “HEC” is displayed if the CLE indicator was last changed by the Enrollment System.

2.6.1.7 Camp Lejeune Eligibility Source of Change

2.6.1.7.1 Name of field on the ES UI: CL Eligibility Source of Change

2.6.1.7.2 This field displays the source that last affected a change to the on file Camp Lejeune record.

2.6.1.7.3 It is assigned by the system; not editable by the user.

2.6.1.7.4 The initial value is blank.

2.6.1.7.5 Valid values:

- <ES User Name>
- VAMC
- CEV
- VOA

- CLEAR
- DoD (for future use only)
- Other (for future use only)

- 2.6.1.7.6 When the Camp Lejeune Eligibility record is edited in ES by an authorized system user, the Source of Change is set to the <ES user name>.
- 2.6.1.7.7 When the Camp Lejeune Eligibility record is modified as a result of processing a CLEAR extract file, the Source of Change is set to “CLEAR”.
- 2.6.1.7.8 When the Camp Lejeune Eligibility record is modified by ES in an automated fashion (e.g. through a response from MSDS which triggered a change to MSE data and in turn a change to the Camp Lejeune record) the source of change is set to CEV.
- 2.6.1.7.9 When the Camp Lejeune Eligibility record is modified from a VOA submission, the source of change is set to VOA.
- 2.6.1.7.10 When the Camp Lejeune Eligibility record is created from VistA REE messaging, the source of change is set to VAMC.

2.6.2 Ability to view Camp Lejeune Indicator

- 2.6.2.1 An ES User will be able to view a person’s current Camp Lejeune eligibility information in the View Current Eligibility screen.

Rated SC Disabilities		
No Data Available		
Prisoner of War		VIEW HISTORICAL PRISONER OF WAR
No Data Available		
Health Benefit Plans		
Current Number of Health Benefit Plans: 0		
Secondary Eligibility Codes		
No Data Available		
Other Eligibility Factors		VIEW CLINICAL DETERMINATION
Camp Lejeune	SW Asia Conditions	SHAD
Radiation Exposure		
Other Ineligibility		
No Data Available		
Financial Assessment		
No Current Income Test Data Available		

Figure 5: View Eligibility Screen Mock up

- 2.6.2.2 If the Camp Lejeune Eligibility indicator value is “Yes”, the View Current Eligibility screen displays the following in the Other Eligibility Factors:
- Camp Lejeune

2.6.3 Modify ES to Change the CLE Indicator for Identified Instances

2.6.3.1 ES will create a Work Load item and change the Camp Lejeune Eligibility indicator from “Yes” to “No” when the Military Service Episode (MSE) information is modified and the MSE change results in a loss of Camp Lejeune eligibility (i.e., no longer meets Camp Lejeune Eligibility rules) and the Veteran’s Camp Lejeune information has a verified method of:

- DoD
- NPRC
- DPRIS
- OMPF
- USMC
- CDC
- OTHER

2.6.3.1.1 The Camp Lejeune work load item created will have the following attributes:

- Work load item type: Eligibility Updates
- Reason: Camp Lejeune eligibility is not supported by MSE.

2.6.3.2 ES will change the Camp Lejeune Eligibility indicator from “Yes” to “No”, when the MSE information is modified by an authorized ES user or an automated update in response to MSE information query (i.e., MSDS) and no Verified Method is indicated and the MSE change results in a loss of Camp Lejeune eligibility (i.e., no longer meets Camp Lejeune eligibility rules).

2.6.3.2.1 When a single MSE was used to calculate Camp Lejeune eligibility and the dates of service for the MSE are modified by an authorized ES user and the Veteran’s MSE no longer includes no less than a 30-day duration between, and inclusive of, August 1, 1953 and December 31, 1987, and no Verified Method is indicated.

2.6.3.2.2 When a single MSE was used to meet the Camp Lejeune rules and the Character of Discharge for the MSE is changed to any of the following:

- DISHONORABLE
- OTHER THAN HONORABLE
- UNDESIRABLE
- BAD CONDUCT
- DISHONORABLE-VA

2.6.3.2.3 When multiple Military Service Episodes (MSE) were used to calculate Camp Lejeune eligibility and the dates of service are changed so that the Veteran no longer has military service that includes no less than a 30-day duration that falls in the time period of August 1, 1953 and December 31, 1987 and no Verified Method is indicated.

2.6.3.2.4 When multiple MSEs were used for Camp Lejeune eligibility and the Character of Discharge is changed by an authorized ES user for any of the MSEs used to qualify the Veteran to any of the following:

- DISHONORABLE
- OTHER THAN HONORABLE
- UNDISIRABLE
- BAD CONDUCT
- DISHONORABLE-VA

2.6.3.3 When the Camp Lejeune Eligibility indicator is changed from “Yes” to “No” as a result of updating the Veteran’s MSE information, a warning message is presented to the user prior to saving the MSE updates.

2.6.3.3.1 The text of the warning message is as follows:

“Updating the Veteran’s military service will make the Veteran Camp Lejeune ineligible. “Are you sure you want to make this change?”

“Yes / No”

- If the user selects “Yes”, then the MSE updates are saved.
- If the user selects “No”, then MSE data reverts back to the previous values and no MSE updates are saved.

2.6.4 Maintain History of Camp Lejeune Information

2.6.4.1 A change in the on file Camp Lejeune Eligibility record shall trigger an update to the Veteran’s history of the Camp Lejeune information.

2.6.4.1.1 When a history record is added, the following Camp Lejeune fields are displayed in the history screen:

- Camp Lejeune Eligibility indicator
- Verified Method
- Comments
- CL Date Registered
- CL Eligibility Change Site
- CL Eligibility Source of Change

2.6.4.2 The Camp Lejeune history can be viewed in the View Historical Military Service screen.

2.6.5 Trigger Messaging to VistA Sites of Record

2.6.5.1 The ES system shall send an HL7 message to all VistA sites of record when a change in Camp Lejeune Eligibility indicator occurs (i.e., “Yes to No”, “No to Yes”, or “NULL to a Yes or No”) or the Veteran’s enrollment is changed by ES as a result of processing Camp Lejeune information.

2.6.5.2 The Enrollment System shall send the following information to all sites of record (i.e., via an HL7 Z11 message):

- Camp Lejeune Eligibility indicator
- Camp Lejeune Date Registered
- Camp Lejeune Eligibility Change Site
- Camp Lejeune Eligibility Source of Change

- 2.6.5.2.1 When the value for the CL Source of Change field in ES is <ES user name>, then the value “CEV” will be sent to the VistA sites of record in place of the ES User Name value.

Note: The Camp Lejeune Source of Change value is system populated when Camp Lejeune data is changed by an authorized ES user through the user interface.

2.6.6 Receive Camp Lejeune Information from VistA

- 2.6.6.1 The Enrollment System shall be able to receive the following information from a VistA site (i.e., via an HL7 Z07 message):

- Camp Lejeune Eligibility indicator
- Camp Lejeune Date Registered
- Camp Lejeune Eligibility Change Site
- Camp Lejeune Eligibility Source of Change

2.6.7 Processing Camp Lejeune Information from VistA

- 2.6.7.1 Accepting or ignoring Camp Lejeune information.

- 2.6.7.1.1 When processing incoming CL information from a VistA site, if the current value in ES for the Camp Lejeune Eligibility indicator is “NULL”, then accept the Camp Lejeune information.

- 2.6.7.1.2 When processing incoming CL information from a VistA site, if the Eligibility Status is verified, and the current value in ES for the Camp Lejeune Eligibility indicator is “Yes” or “No”, then ignore the Camp Lejeune information.

- 2.6.7.1.3 When processing incoming CL information from a VistA site, if the Eligibility Status is not verified (i.e., ‘Pending Verification’ or ‘Pending Re-Verification’), and the current value in ES for the Camp Lejeune Eligibility indicator is “Yes” or “No”, then accept the Camp Lejeune information.

2.6.8 Entering Camp Lejeune Information in ES Add a Person

- 2.6.8.1 In ES Add a Person, all Camp Lejeune field values are initially blank and enabled.

- Camp Lejeune Eligibility indicator
- Camp Lejeune Verified Method
- Camp Lejeune Comments

Overview Eligibility Demographics **Military Service** Financials Enrollment Facility Communications

No Data Available

Current Military Service [VIEW HISTORICAL MILITARY SERVICE](#)

Required fields are marked with a ★

Discharge Due to Disability: ☐ Yes ☐ No ☒ Unknown

Military Disability Retirement: ☐ Yes ☐ No ☒ Unknown

Agent Orange Exposure Location:

Radiation Exposure Method:

SW Asia Conditions: ☐ Yes ☐ No

▶ Camp Lejeune Eligibility: ☐ Yes ☐ No

Verified Method: ☐ DoD ☐ NPRC ☐ DPRIS ☐ OMPF ☐ USMC ☐ CDC ☐ Other

Comments:

▶ Medal Of Honor Indicator: ☐ Yes ☐ No ☒ No Data

SHAD: ☐ Yes ☐ No

Filipino Veteran Proof:

Combat Veteran Eligibility End Date:

Eligible for Class II Dental: ☐ Yes ☐ No

Class II Dental Application Due Before:

OEI/OIF Combat Episodes [ADD OEI/OIF COMBAT EPISODE](#)

Figure 6 – ES Add a Person

- 2.6.8.2 When the Add a Person record is submitted for processing, the system will validate that any MSE data is sufficient to support Camp Lejeune eligibility. If the MSE data does not support Camp Lejeune eligibility, and the Camp Lejeune Eligibility indicator is “Yes”, the system will set the indicator to “No”.
- 2.6.8.3 When the Add a Person record is submitted for processing, and any Camp Lejeune data is entered, the system will set the following Camp Lejeune field values:
- Camp Lejeune Date Registered is set to current date.
 - Camp Lejeune Eligibility Change Site is set to HEC.
 - Camp Lejeune Eligibility Source of Change is set to “<ES User Name>”.

2.6.9 Process Camp Lejeune Information from VOA

- 2.6.9.1 The Enrollment System shall be able to receive the following information from a VOA web service message:
- Camp Lejeune Eligibility indicator

2.6.9.2 ES shall process the incoming Camp Lejeune eligibility indicator in accordance with the following decision table:

Table 1: ES VOA Processing

Incoming VOA CL Indicator	Current ES CL Indicator	Process
YES	YES	ignore record
YES	NO	<p>Run a pre-check for CL Eligibility (does on file ES data meet CLE rules?);</p> <p>If pre-check fails:</p> <ul style="list-style-type: none"> Create a workload item of type VOA with a Reason of "Veteran CL Eligibility cannot be determined". <p>If pre-check passes:</p> <ul style="list-style-type: none"> Update CLE in ES to a "Yes"; Update CL Date Registered to the VOA Application Date; Update Change Site to "HEC"; Update Source of Change to "VOA"; Process for E&E.
YES	BLANK, EXISTING RECORD	<p>If CL Eligibility rules pass:</p> <ul style="list-style-type: none"> Update CLE in ES to a "Yes"; Update CL Date Registered to the VOA Application Date; Update Change Site to "HEC"; Update Source of Change to "VOA" Process for E&E. <p>If CLV Eligibility rules fail:</p> <ul style="list-style-type: none"> Create a workload item of type VOA with a Reason of "Veteran CL Eligibility cannot be determined".
YES	BLANK, NEW RECORD	<ul style="list-style-type: none"> Update CL Eligibility in ES to a Yes; Update CL Date Registered to the VOA application Date; Update Change Site to "HEC"; Update Source of Change to "VOA" Process for E&E. Once MSDS response is received and processed, if CL Eligibility rules fail: <ul style="list-style-type: none"> Update CLE from "Yes" to "No". Update Change Site to "HEC" Update Source of Change to "CEV" Create a workload item of type VOA with a Reason of "Veteran CL Eligibility cannot be determined".
blank	YES	ignore record
blank	NO	ignore record
blank	BLANK	ignore record

2.6.10 E&E Processing for Camp Lejeune Eligible Veterans

2.6.10.1 The system will calculate the Veteran's Eligibility Code(s) for a new Camp Lejeune eligible Veteran.

2.6.10.2 Based on an ES eligibility determination prior to making an enrollment decision, when the Veteran indicator has been set or calculated to "No", and the ES CLE indicator is "Yes", the system automatically sets the CL fields as follows:

- Camp Lejeune Eligibility indicator to "No"
- Verified Method to "blank"
- Comments to "blank"
- CL Date Registered to "blank"
- CL Eligibility Change Site to "HEC"
- CL Eligibility Source of Change to "CEV"

2.6.10.3 Veterans who have the Camp Lejeune Eligibility indicator equal to "Yes" and the enrollment is updated to Verified in ES shall:

- Be enrolled for VHA health care.
- Be placed in Priority Group 6, unless other eligibility factors make the Veteran eligible for a higher priority group.

2.6.10.4 Be subject to Means testing and/or Rx Copay testing, unless other factors make them income testing exempt. Reevaluation of Enrollment due to Camp Lejeune Indicator Changes

2.6.10.4.1 Veterans whose Camp Lejeune Eligibility indicator is changed shall have their enrollment decision reevaluated.

The following table represents the outcome of the reevaluation.

Table 2: ES Continuous Enrollment

Camp Lejeune Indicator CURRENT	Camp Lejeune Indicator CHANGE	Outcome
Null or NO	YES	Verify E&E and enroll in Priority Group 6 (unless higher) if found to be eligible.
YES	NO	Reject if sole reason for enrollment was Camp Lejeune (<i>refer to the following table</i>).

2.6.10.4.2 The following table represents requirements to determine if an enrollment record is to be placed in a Rejected enrollment status:

Table 3: Rejected Enrollment Determination

If EGT Setting is Enrollment Decision and Veteran applied for enrollment on or after EGT Effective Date (in the absence of application date use the earliest effective date of change) AND has a Verified enrollment status with the following eligibility factors exist:	And Eligibility is changed as follows which results in Veteran placed in a Priority that is not eligible for enrollment:	Enrollment Decision
Camp Lejeune Indicator = Yes	Camp Lejeune Indicator = No	Reject enrollment

Note: Rejection letters shall be triggered and sent as they are done at the time of Camp Lejeune software release.

2.6.11 Incorporate Camp Lejeune Information into the E&E Web Service

2.6.11.1 Add the following field to the Eligibility and Enrollment Web Service:

- Camp Lejeune Eligibility indicator

2.6.12 Incorporate the Camp Lejeune Information into the OPP Extract

2.6.12.1 Add the Camp Lejeune Eligibility indicator field to the Office of Policy of Planning (OPP) extract.

2.6.12.2 The Camp Lejeune Eligibility indicator will be included in the OPP Extract – Main File.

2.6.13 Reports – Add Camp Lejeune Information to ES Reports

2.6.13.1 Modify the “Total Eligibility Factors Report” to include the Camp Lejeune factor.

2.6.13.1.1 Both the detail and summary versions of the report need to include the Camp Lejeune factor.

2.6.14 Load Camp Lejeune Information from an External Source Listing

2.6.14.1 Receiving External Camp Lejeune Data

2.6.14.1.1 Provide the ability for an appropriately authorized ES User to upload Camp Lejeune information into the Enrollment System from an external source listing of Camp Lejeune eligible Veterans (e.g., file).

2.6.14.1.1.1 The external source upload process shall be a repeatable process that the ES User can run on an as-needed basis.

2.6.14.1.2 The process shall check that the extract file conforms to a predefined file format.

2.6.14.1.3 The user shall have the ability to throttle, start, stop, pause, cancel, restart, terminate, or continue the process at any time.

2.6.14.2 Processing External Camp Lejeune Data

2.6.14.2.1 The upload extract process will attempt to match each person in the batch file with an existing person in ES based on the following person identity traits:

- Last Name
- First Name
- Date of Birth
- Social Security Number
- Gender

2.6.14.2.2 If an exact match is not found between the incoming Veteran identity traits and the on file ES identity traits for a person in ES, then no Eligibility and Enrollment activity occurs, and the unmatched person record in the file shall be reported in the report of “unsuccessful activity” with an exception reason of “Veteran not found in ES”.

2.6.14.2.3 When an exact unique match is found between the batch file record identity traits and the on file ES traits, ES shall process the incoming data in accordance with the decision table below:

Table 4: Clear Batch Processing Decision

Incoming CLEAR CLE Indicator*	Current ES CLE Indicator	Process
YES or BLANK	YES	ES CLE remains = Yes; Accept record: Update ES with incoming verified method and comments (if different and incoming Verified Method is not blank) Update CL Date Registered in ES (only if the incoming date is earlier than the ES on file date)
YES or BLANK	NO	Run a pre-check on CLE eligibility (Does ES on file data meet CLE?); If pre-check passes: Update ES CLE to Yes; Update ES with incoming verified method and comments (if different and incoming Verified Method is not blank) Update ES with incoming CL Date Registered (only if the incoming date is earlier than the ES on file date) If pre-check fails (ES on file data for Veteran does not meet CLE); Create an exception record with reason “ES data on file does not support CL eligibility”
YES or BLANK	BLANK	Run a pre-check on CLE eligibility (Does ES on file data meet CLE?); If pre-check passes: Update ES CLE to Yes; Update ES with incoming verified method and comments Update ES with incoming CL Date Registered (if incoming date

Incoming CLEAR CLE Indicator*	Current ES CLE Indicator	Process
		is Blank, update ES with system date) If pre-check fails (ES on file data for Veteran does not meet CLE); Create an exception record with reason "ES data on file does not support CL eligibility"
NO	YES	Update ES CLE to No Create an exception record with reason "ES CL eligibility updated with CLEAR ineligibility"
NO	NO	ignore the data in the incoming batch record
NO	BLANK	Update ES with a NO for CLE Update ES with incoming CL Date Registered (If incoming date is blank, update ES with system date)

***Note:** Camp Lejeune eligibility is indicated in the "Residency Verified" field of the incoming batch file and is in the format: "Yes" or "No".

Note: Verified Method and Comments are not required and may be blank in the incoming data.

2.6.14.2.4 When Changes are made to Veteran's Camp Lejeune information via uploaded data from CLEAR, ES will:

- Set the Camp Lejeune Change Site to "HEC"
- Set the Camp Lejeune Source of Change to "CLEAR"
- Determine the Veteran's Eligibility and Enrollment (if applicable)
- Share the updated eligibility and enrollment with sites of record, and trigger enrollment correspondence as appropriate (e.g., Letter, Handbook insert).

2.6.14.2.5 Each run of the Camp Lejeune external batch process will automatically report on the following outcomes of the process:

2.6.14.2.5.1 Summary of records processed.

- Count of the number of records successfully processed
- Count of the number of records that had an issue processing
- The elapsed time it took to run the process

2.6.14.2.5.2 Detail information on successful E&E activity.

- List Veteran identifiers
- Last Name
- First Name
- Date of Birth
- SSN
- Gender
- "Old" priority group and "New" priority group
- Counts of successful processing

2.6.14.2.5.3 Detail information on unsuccessful E&E activity.

- List Veteran identifiers
- Last Name
- First Name
- Date of Birth
- SSN
- Gender
- Reason why the upload failed for each batch detail record

2.6.14.2.6 The Summary of Records output will be delivered within the body of an email and sent to an identified mail group at the successful conclusion of each batch process run.

2.6.14.2.7 The two detail information reports (i.e., successful and unsuccessful activity) will be produced and available to the ES User via the reports tab.

2.6.14.2.8 The two detailed output files will be formatted as pipe-delimited files (i.e., “|”) from each successful run of the CLEAR batch process.

2.6.15 Camp Lejeune Rollout Parameter

An ES system parameter is needed to support CL-V IOC testing. During IOC testing, only a limited number of VistA test sites will have CL-V VistA patch installed. This installation does not affect non VistA test sites. The parameter will also support sending CL data to all sites for the national VistA release of Camp Lejeune. See figure below for proposed Rollout Parameter, with an example of specifying multiple sites.

2.6.15.1 The ES parameter allows selective administrator control of VistA sites to receive HL7 messages with CL data.

2.6.15.2 The CL_VISTA_FULL_ROLLOUT field is an alphanumeric text field that can hold 250 characters.

2.6.15.3 The parameter’s value is a free text field that is required and not case sensitive.

2.6.15.4 Administrative users shall be able to enter:

- All
- None
- xxx (where xxx is a VistA site number, for specifying a single VistA site)
- xxx,xxx,xxx (where xxx is a VistA site number for specifying a list of specific VistA sites)

2.6.15.4.1 When ‘All’ is entered, all VistA sites shall receive HL7 messages with CL data.

2.6.15.4.2 When ‘None’ is entered, no VistA sites shall receive CL in HL7 messages.

Note: When ‘None’ is indicated, the Camp Lejeune fields are excluded from the HL7 message (i.e., ZEL segment).

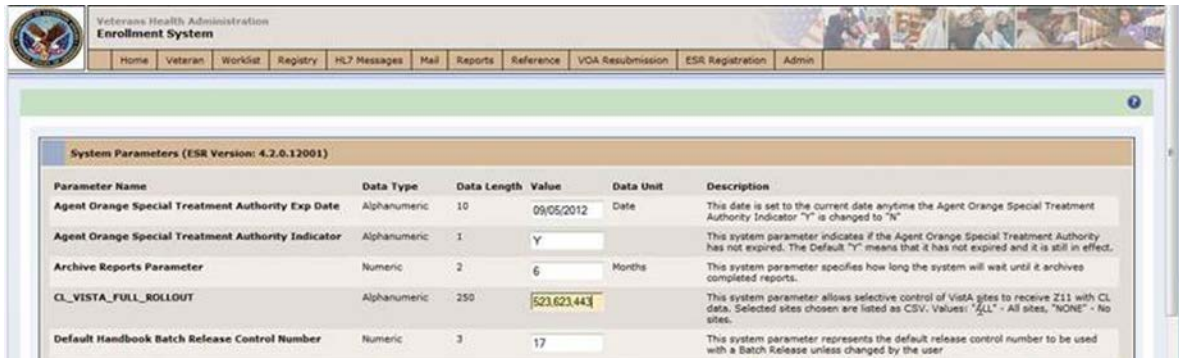
2.6.15.4.3 When entering a specific site (no comma separated list of site numbers), only that site will receive HL7 messages with CL data.

2.6.15.4.4 When specific sites are entered, only those specified sites will receive HL7 messages with CL data.

2.6.15.4.4.1 When a list of specified sites is entered, they are entered in comma delimited list with no space between each site number.

Note on usage of the parameter list: If the intended site number(s) are mistyped, no validation occurs and no error message is presented. The intended site or sites will not receive the Camp Lejeune message data fields

2.6.15.4.5 At the time of initial deployment to an environment (i.e., production), the default value is set to 'None'.



Parameter Name	Data Type	Data Length	Value	Data Unit	Description
Agent Orange Special Treatment Authority Exp Date	Alphanumeric	10	09/05/2012	Date	This date is set to the current date anytime the Agent Orange Special Treatment Authority Indicator "Y" is changed to "N"
Agent Orange Special Treatment Authority Indicator	Alphanumeric	1	Y		This system parameter indicates if the Agent Orange Special Treatment Authority has not expired. The Default "Y" means that it has not expired and it is still in effect.
Archive Reports Parameter	Numeric	2	6	Months	This system parameter specifies how long the system will wait until it archives completed reports.
CL_VISTA_FULL_ROLLOUT	Alphanumeric	250	521,623,443		This system parameter allows selective control of Vista sites to receive Z11 with CL data. Selected sites chosen are listed as CSV. Values: "FULL" - All sites, "NONE" - No sites.
Default Handbook Batch Release Control Number	Numeric	3	17		This system parameter represents the default release control number to be used with a Batch Release unless changed by the user

Figure 7 Parameter Screen with CL_VistA_FULL_Rollout

2.7 Graphical User Interface (GUI) Specifications

General GUI Compliance: A well-defined on-screen indication of the current focus will be provided. The on-screen indication moves among interactive interface elements as the input focus changes. The focus will be programmatically exposed so that assistive technology can track focus and focus changes. The identity, operation, and state of the user interface element will be available to support assistive technology. When an image represents a program element, the information conveyed by the image must also be available in text. Textual information will be provided through operating system functions for displaying text. The minimum information that will be available is text content, text input caret location, and text attributes. Applications will not override user-selected contrast and color selections and other individual display attributes. When electronic forms are used, the form will allow people using assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.

2.8 Multi-divisional Specifications

Multidivisional specifications will be added when applicable.

2.9 Performance Specifications

Operational environment requirements are as follows:

Table 5: Operational Environment Requirements

ReqPro Tag	Operational Environment Requirements
NONF1608	Information about response time degradation resulting from unscheduled system outages and other events that degrade system functionality and/or performance shall be disseminated to the user community within 30 minutes of the occurrence. The notification shall include the information described in the current Automated Notification Reporting (ANR) template maintained by the VA Service Desk. The business impact must be noted.
NONF1609	Provide a real-time monitoring solution during the maintenance windows, or when technical issues/problems occur which may require a preventative backup.
NONF1610	Notification of scheduled maintenance periods that require the service to be offline, or that may degrade system performance, shall be disseminated to the user community a minimum of 48 hours before the scheduled event.

Performance specifications are as follow:

Table 6: Performance Specifications

Performance Issue	Performance Specification
If this is a system modification, how many users does the current system support?	The ES supports all 159 VA medical centers and 400 HEC users. The system is in production and is available 24/7.
How many users will the new system (or system modification) support?	The system modification will support all users.
What is the predicted annual growth in the number of system users?	The ES is expanding with iEHR and outside initiatives. The exchange of data from other health care providers and DoD will expand enrollment ability for automated updates and eligibility information. The system serves approximately 3,000 users on a daily basis.

2.9.1 Functional Workload and Functional/Performance Requirements

Functional and Performance Requirements are as follows:

Table 7: Functional and Performance Requirements

Specific Requirement / Synopsis	Requirement
Functional	Provide the capability for VA staff (ES User and VistA User) to manage the identification of Veterans eligible for care based on the Camp Lejeune legislation. Ability to capture Camp Lejeune (CL) information at registration event or perform updates to initial registration information. Ability to process Camp Lejeune eligibility, to determine

Specific Requirement / Synopsis	Requirement
	<p>enrollment decisions, and to capture enrollment history.</p> <p>Communication, sharing, and processing of Camp Lejeune information, eligibility, and enrollment decisions with other VHA processes.</p> <p>Modifications to HELP text, prompts, and instructions</p> <p>Technological/system enhancements to business applications in support of Camp Lejeune processing.</p>
Performance	The ES and VistA applications shall respond to user/external system actions in 4 seconds or less with a minimum of 95% and goal of 99% of the attempts, and never more than 15 seconds.
Performance	The ES and VistA applications response times and page load times shall be consistent with current ES standards (4 seconds).

2.9.2 Performance Parameters

The following performance parameters will be recorded during performance testing:

Table 8: Recorded Performance Parameters

Quality of Service	Threshold	Comments
Availability	99.9%	N/A
Reliability	N/A	N/A
Through-put	N/A	N/A
Response Time	N/A	N/A

2.9.3 Performance Metrics

The following Functional and Performance metrics will be measured during the Performance Test.

Table 9: Functional and Performance Metrics

Metric	How to Measure
Basic usage	<p>Description of users able to view CL indicator</p> <p>Environmental Factor</p> <p>Able to review Help Level 1 #2</p> <p>Able to change eligibility from NULL to Yes or No</p>
Business level usage	<p>Allow the determination of enrollment category and status</p> <p>Able to change Priority Group from 7 or 8 to 6</p>
Successful queries	History of the CL eligibility
Successful adds	Edit/changes successfully saved Function

Metric	How to Measure
Number of requests	Captured in a log table in the database
Number of failed requests	Captured in a log table in the database
Number of successful requests	Can be performed only after full implementation
Service uptime	24 hours, 7 days a week, except for scheduled downtime for deployments
Maximum response time for interfaces	Can be performed only after full implementation
Last response time for interfaces	Can be performed only after full implementation

2.9.4 Operational Requirements

The CL-V Enhancement will not alter or change the current Performance of ES system. Operational environment requirements are as follows:

Table 10: Operational Environment Requirements

ReqPro Tag	Operational Environment Requirements
NONF1608	Information about response time degradation resulting from unscheduled system outages and other events that degrade system functionality and/or performance shall be disseminated to the user community within 30 minutes of the occurrence. The notification shall include the information described in the current Automated Notification Reporting (ANR) template maintained by the VA Service Desk. The business impact must be noted.
NONF1609	Provide a real-time monitoring solution during the maintenance windows, or when technical issues/problems occur which may require a preventative backup.
NONF1610	Notification of scheduled maintenance periods that require the service to be offline or that may degrade system performance shall be disseminated to the user community a minimum of 48 hours before the scheduled event.

2.9.5 Overview of the Technical Requirements

Camp Lejeune enhancements should not alter ES's baseline messaging performance. Other services, such as UI, batch job, reports, and letter/bulletin performance should not be degraded after completion of Camp Lejeune enhancements.

ES's messaging performance requirements are based on current HEC legacy production environment. According to ES Performance Test Results, Release 3.0, dated April 1, 2008, the requirement for messaging rate was 130,000 to 180,000 HL_7 messages for a 24 hour period.

The technical requirements are as follows:

Table 11: Technical Requirements

ID	Requirement
NONF1611	In order for the ES system to meet current HEC production message volume, the messaging service need to process in excess of 150,000 HL7 registration messages (Z07) over an eight (8) hour period (313 msg/min).
NONF1612	Must match the prior ES processing rate between 144,000 to 172,000 HL_7 messages for a 24 hour period, (300 to 360 msg/min).
NONF1613	ES achieved a messaging rate of 316 messages per minute, processing 95 batches of 100 messages in 30 minutes.
NONF1614	There are no defined requirements for the user interface, batch jobs, reports, or letter/bulletin processing.

2.9.6 System Criticality and High Availability Requirements

Potential annual growth in system users is to be determined based on business needs.

Capacity: Data sharing in ES and VistA do not anticipate a change in the current capacity, availability and performance standards. Capacity needs for ES and VistA are as follows:

Table 12: Capacity Needs for ES and VistA

Performance Issue	Performance Specification
If this is a system modification, how many users does the current system support?	The ES supports all 159 VA medical centers and 400 HEC users. The system is in production and is available 24/7.
How many users will the new system (or system modification) support?	The system modification will support all users.
What is the predicted annual growth in the number of system users?	The ES is expanding with iEHR and outside initiatives. The exchange of data from other health care providers and DoD will expand enrollment ability for automated updates and eligibility information. The system serves approximately 3,000 users on a daily basis.

Availability: The ES system will be available 24x7x365. Camp Lejeune enhancement does not change any global size or system parameter or calls to affect the state of the system. Performance Modeling is done on a full scale development and it is not applicable for Camp Lejeune enhancements only.

2.10 Quality Attributes Specification

Specifications will be determined at a later stage of the project. Quality attribute specifications will enhance the supportability, maintainability, portability, testability, and reusability of the CL-V project. This will include the applicable coding standards, naming conventions, class libraries, maintenance access, and maintenance utilities.

2.11 Reliability Specifications

System availability should be 24 hours per day, 365 days per year, except during periods of scheduled maintenance.

2.12 Scope Integration

The scope of requirements to support the various modules is listed within this RSD and is limited to the system requirements listed in the Functional Requirements Section (Section 2.6).

Camp Lejeune systems impacted within this project include: VistA REE, ES, CPRS, Clinical Reminders, IB, PCE, Ambulatory Care, PTF, Pharmacy Rx (outpatient/ePharmacy), Scheduling, Surgery, Radiology, and Laboratory.

2.13 Security Specifications

VA requires that application enhancements address standards, procedures, and technical aspects of the solution required for achieving system certification and accreditation. These should address controls listed in FIPS PUB 200, Minimum Security Requirements for Federal Information and Information Systems. Additional security specifications include:

- Compliance with standards and regulatory requirements published in VA Handbook and Directive 6500: Veterans Affairs Directives > VA Handbook and Directive 6500.
- Compliance with FIPS PUB 140-2, Security Requirements for Cryptographic Modules, and for all voice and data traffic encryption: Computer Security Division > Publications > Federal Information Processing Standards > FIPS PUB 140-2.

Additionally, due to patient safety considerations, data protection measures such as backup intervals and redundancy shall be consistent with systems categorized as critical.

2.14 System Features

Upon availability, details for this section will be provided.

2.15 Usability Specifications

CL-V usability specifications are as follows:

Table 13: Usability Specifications

ReqPro Tag	Usability-User Interface Requirements
NONF1611	User acceptance training and testing tools shall include user prompts to guide the use of the application so that minimal technical support is needed by the user.
NONF1612	A technical training curriculum shall be developed and delivered to all levels of staff users.
NONF1613	The training curriculum shall state the expected task completion time for primary and secondary users.
TBD	Left align content in table cells to facilitate quick visual scan.
TBD	Left align text for column headers to facilitate visual scan and make columns and content appear more organized.

ReqPro Tag	Usability-User Interface Requirements
TBD	Use mixed case instead of all caps whenever possible (e.g., dropdown list items, table data, table headers, hyperlinks, tab names). Limit the use of “all caps” throughout the application.
TBD	Simplify button labels. Re-label buttons to reflect standard terminology that is common in web interfaces and other applications (e.g., “Cancel”). Emphasize the action being performed in the most succinct way possible. Minimize redundancy in text/terminology that is used to convey the same action.
TBD	Left align page/section titles to anchor titles in consistent locations regardless of window sizing.
TBD	Left align field labels to facilitate quick visual scan and make forms and field groupings appear more organized.
TBD	Avoid using acronyms unless (a) they are widely understood or well known, or (b) space to display the full meaning is very limited. This supports naïve user understanding. If limited space results in using uncommon acronym, ensure it is defined within Help or as a tooltip.
TBD	Use colors such as red and green only for status-driven content. Avoid using red for text and content, links, button labels, etc. This will reduce risk for user error, improve link discoverability, and facilitate understanding of differences in navigation, actions, and content. It will also help users to isolate important status information (using red, green, etc.) from other less important information when viewing and processing information provided to them on a page.
TBD	Provide visual separation between the navigation space and the main content area.
TBD	Add field-level validation and notification of missing information on the same page without launching a new window or navigating to another page.
TBD	Make all text hyperlinks appear consistent in style.
TBD	Make drop-down selection box widths appropriate for content and visual appeal.
TBD	Use standard and always visible radio buttons for Yes/No options instead of requiring the user to click in a drop-down box and then click to select the “Yes” or “No” option.
TBD	Use standard date and time selection widgets. Where date and time are selected from a standard widget, also provide direct data entry to support keyboard navigation. Enable field-level validation immediately upon entry. Include instructional format text within the field entry box.
TBD	Provide standard sort behavior and visual indications on columns in all tables.
TBD	Define and adhere to a standard model for use and design of controls, buttons, hyperlinks, and navigation elements.
TBD	Avoid abbreviations.

ReqPro Tag	Usability-User Interface Requirements
TBD	Ensure that text size is readable (for example, by using the 007 Rule to assure text size is readable for users with 20/40 vision. The formula: Text height = .007 * distance between eyes and screen).
TBD	Place common navigation elements in consistent locations.
TBD	Place critical information “above the fold” (i.e., in the top portion of the screen that is immediately viewable).
TBD	Use consistent screen flow models, elements, and terms to support similar workflows.
TBD	Use consistently named buttons when actions are the same (e.g., Add vs. Save vs. Submit).
TBD	Enable users to print views from where they are in the interface. Avoid requiring the user to “run a report” in order to print something that is viewable on the screen.
TBD	Provide field entry tooltips at the field location. Ensure consistency across the application in field labels, formats, location of tooltips, and tooltip text.
TBD	Provide visual indication of required fields.
TBD	Display field labels in close proximity to entry elements.
TBD	Use consistent elements to filter data.
TBD	Use consistent elements to sort data.
TBD	Use a consistent model for display, layout, and grouping of data entry fields.
TBD	Provide alternate row shading in lengthy tables of data, form elements, etc.
TBD	Ensure that icons are recognized by users.
TBD	Provide some “white space” between status icons in report views, white board views, etc.
TBD	Auto populate default values in entry and selection fields when possible and appropriate.
TBD	Visually differentiate status icons from clickable icons, when appropriate.
TBD	Define and support the appropriate user tab sequence through fields in forms in order to support keyboard navigation when entering data in forms.
TBD	Define and adhere to standard action button placement on screens, forms, etc.
TBD	Visually distinguish the primary action button on a page.
TBD	Consistently use screen elements, action elements, workflow sequences within and across screens, language, etc.

ReqPro Tag	Usability-User Interface Requirements
TBD	Provide error messages in user-centric language with specific instructions on the meaning of the error and how to recover from it. Use error messages and method of display consistently across the interface.
TBD	Provide context-specific Help.
TBD	Do not use the term “sex” or any like abbreviations of that to represent gender.

3 Applicable Standards

The following is a list of applicable standards:

- Compliance with standards and regulatory requirements published in VA Handbook and Directive 6500;
- Compliance with standards and regulatory requirements published in VA Handbook and Directive 6513;
- Compliance with Federal Information Processing Standards Publication (FIPS PUB) 140-2, Security Requirements for Cryptographic Modules, for all voice and data traffic encryption;
- Compliance and certification of Section 508 Information Technology (IT) for accessibility standards governed under the Rehabilitation Act of 1973 (29 U.S.C 794d);
- Compliance with Federal Information Processing Standards Publication (FIPS PUB) 200, Minimum Security Requirements for Federal Information and Information Systems for controls for Access Control (AC), Audit and Accountability (AU), Configuration Management (CM), Identification and Authentication (IA), Maintenance (MA), Media Protection (MP), System and Communications Protection (SC), and System and Information Integrity (SI);
- FIPS PUB 199, Standards for Security Categorization of Federal Information and information Systems; and
- NIST SPs 800-30, 800-37, 800-53, 800-60 rev 1, 800-53 rev 3, 800-111.

4 Interfaces

The ADR is the ES database for Veteran data storage and file retrieval. Expected dependencies with other systems include interfaces with the Fee Basis Claims System (FBCS), Central Fee/Financial Management System (FMS), Fee Payment Processing System (FPPS), Prosthetic GUI, and the Austin Information Technology Center (AITC).

Following is a TO-BE conceptual diagram with relevant system integration points. A CL-V Interface Control Document (ICD) will provide additional interface information.

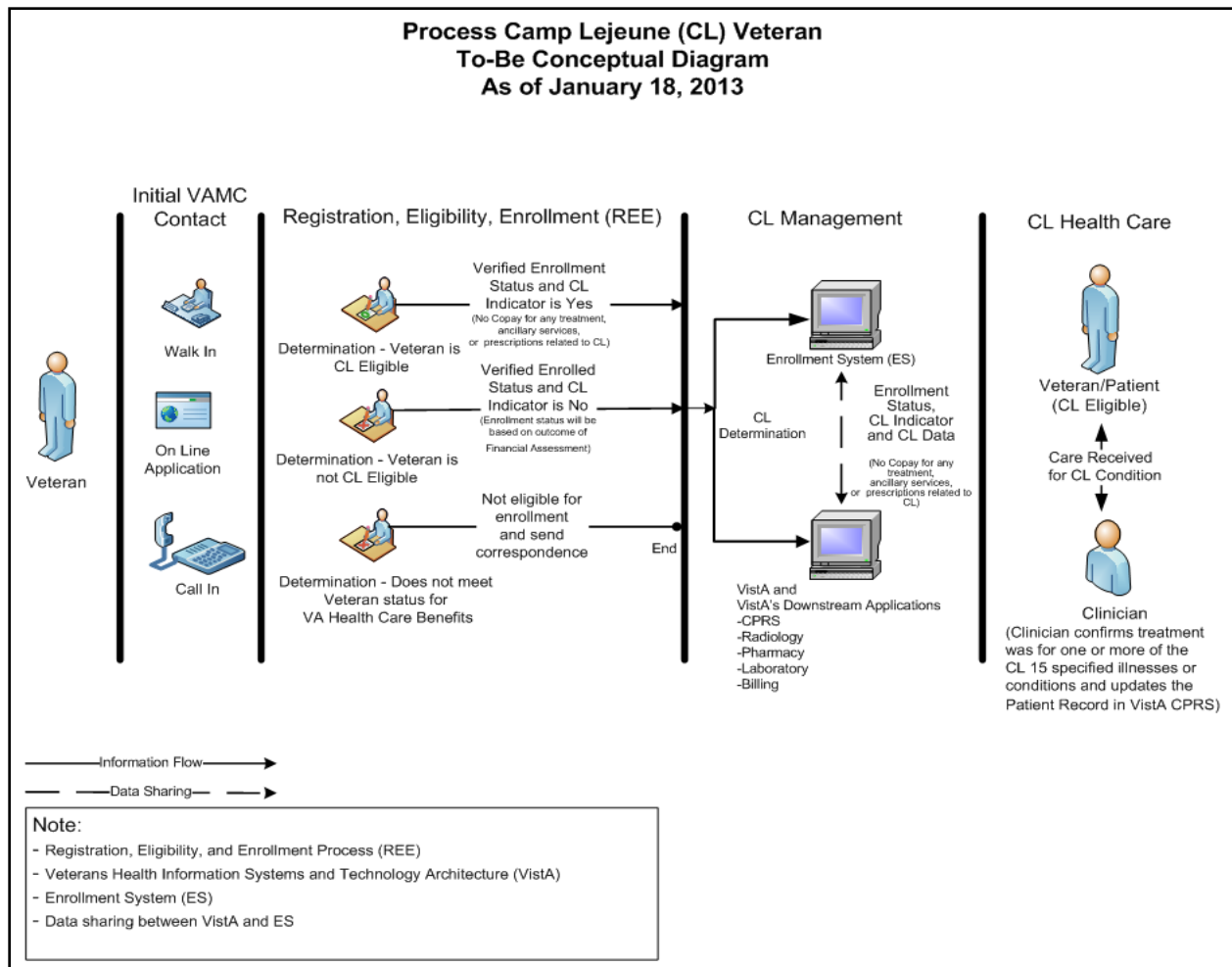


Figure 7: Process CL-Veteran To-Be Conceptual Diagram

4.1 Communications Interfaces

The HL7 messaging between VistA REE and ES will be enhanced to incorporate Camp Lejeune information sharing between the two systems. The enhancement will include required consistency checks to ensure the Camp Lejeune data being passed meets expectations by both systems.

4.2 Hardware Interfaces

No new hardware interfaces are necessary for the successful implementation of these enhancements.

4.3 Software Interfaces

A new software interface between the CLEAR database and ES are necessary for the successful implementation of these enhancements. Additionally, modification to existing interfaces will be required in order to share the Camp Lejeune eligibility between the Enrollment System (ES), VistA REE, other VistA applications, and repositories (e.g., Corporate Data Warehouse (CDW)) and to satisfy reporting needs (e.g., OPP) .

4.4 User Interfaces

User interface (UI) enhancements will be implemented in the Enrollment System (ES). The user experience the systems will be enhanced to capture and display Camp Lejeune information and Camp Lejeune history. Please reference the functional specification section of this document for the GUI wireframes that are being implemented to accommodate Camp Lejeune related data in the ES system.

5 Legal, Copyright, and Other Notices

CL-V will comply with 508 requirements as noted in Section 2.1. There are no other legal or copyright notices for this specification.

6 Purchased Components

CL-V will use existing infrastructure. No current need exists for the purchase of additional components.

6.1 Defect Source (TOP 5)

A graph depicting the Defect Source (Top 5) will be provided upon availability. This graph will show the number of defects discovered by component.

7 User Class Characteristics

CL-V user class characteristics are as follows:

Table 14: User Class Characteristics

Type of User	Description	Responsibilities
Primary Users	Health Benefit Advisors	Captures details, coordinates work
Secondary Users	First and Third Party Billing Enrollment Coordinators Pharmacy personnel Scheduling clerks	Responsible for entering Veterans' eligibility information into VistA, capturing details, coordinating work, producing reports, and, scheduling appointments

8 Estimation

If CL-V chooses to use function point estimation, the following Function Point Analysis Results Table will provide the function point estimate upon availability.

Project Software Functional Size and Size-Based Effort and Duration Estimate

Application

Item	A	B	C	D	E	Total
Counted Function Points	N/A	N/A	N/A	N/A	N/A	N/A
Estimated Scope Growth	N/A	N/A	N/A	N/A	N/A	N/A
Estimated Size at Release	N/A	N/A	N/A	N/A	N/A	N/A

Size-Based Effort Estimates	Labor Hours	Probability
Low-Effort Estimate – With indicated probability, project will consume no more than:	N/A	N/A
High-Effort Estimate – With indicated probability, project will consume no more than:	N/A	N/A


Size-Based Duration Estimates	Work Days	Probability
Low-Duration Estimate – With indicated probability, project will consume no more than:	N/A	N/A
High-Duration Estimate -- With indicated probability, project will consume no more than:	N/A	N/A

9 Approval Signatures


REVIEW DATE: <date>

SCRIBE: <name>

Signed:

 a, <i>Integrated Project Team (IPT) Co-Chair</i>	Date
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 <i>Integrated</i>	Date
<i>Project Team (IPT) Co-Chair / CL-V Project Manager</i>	

 , <i>Business Sponsor or Designee</i>	Date
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 <i>IT Program Manager, Product Development</i>	Date
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Definition of the location of the extension point in the flow of events.

A. Acronym List and Glossary

Table A1: Glossary

Term	Meaning
Administrative Data Repository	The authoritative data store within VHA for crosscutting person administrative information. The Administrative Data Repository contains identification and crosscutting demographics data as well as other administrative information. May also include subset of EDB data. May also be referred to as ADR-N or ADR-L to designate a national or local instance
Chief Business Office	The VHA Chief Business Office provides national leadership for advancing business practices that support patient care and delivery of health benefits.
Enrollment Services (ES)	A single, department-wide data system supporting registration and eligibility for the three administrations that will make this information more accessible and consistent.
Health Level 7 (HL7)	ANSI standard for electronic data exchange in healthcare environments. It is an interface specification designed to standardize the way in which health care information is transferred between systems. It provides the foundation for all communication between your facility/site and the HEC.
Identity Management	VA group validating the identity of individuals attempting to use VA systems, and providing authentications to those various systems for the intended user's permissions to those systems.
Interface Control Document (ICD)	Describes the real time components that enable transactions between two separate systems.
Integration Control Number (ICN)	A unique number assigned to each Veteran. This number is used to identify Veteran records across multiple VA systems.
Payload	Essential data that is being transmitted from Enrollment Services.
Preferred Facility	Preferred Facility for treatment, as indicated by the Veteran to whom it applies.
Primary View	MVI's master view of the Identity Traits.
Sites of Record	The VAMC's that are identified in the patient record.
Systems Design Document (SDD)	Describes the construction of a system. The SDD identifies the top-level system architecture, and identifies hardware, software, communication, and interface components.
Veteran	Any person who served honorably on active duty in the armed forces of the United States.

Term	Meaning
VistA	Veterans Health Information Systems and Technology Architecture, formerly known as Decentralized Hospital Computer Program (DHCP), encompass the complete information environment at VA medical facilities. It consists of hardware, software packages, and comprehensive support for system-wide and station specific, clinical, and administrative automation needs.

Table A2: Acronyms and Abbreviations

Acronym	Meaning
A/O	Agent Orange
ADR	Administrative Data Repository
AITC	Austin Information Technology Center
ANR	Automated Notification Reporting
AO	Agent Orange
AoA	Analysis of Alternatives
API	Application Program Interface
BPMO	Business Project Management Office
BRD	Business Requirements Document
CBO	Chief Business Office
CDC	Center for Disease Control and Prevention
CDCO	Corporate Data Center Operations
CDW	Corporate Data Warehouse
CFD	Corporate Franchise Data Center (Austin Campus)
CI	Configuration Items
CIDC	Compliance with Clinical Indicators Data Capture
CL	Camp Lejeune
CLE	Camp Lejeune Eligibility
CLEAR	Camp Lejeune Environmental Action Report
CL-V	Camp Lejeune-Veteran
CM	Configuration Management
COTR	Contracting Officer's Technical Representative
CPM	Critical Path Method
CPRS	Computerized Patient Record System
CRM	Customer Relationship Management

Acronym	Meaning
CV	Combat Veteran
DCBO	Deputy Chief Business Officer
DEA	Drug Enforcement Agency
DEE	Dual Eligibility Enhancements
DI	Data Integration
DOB	Date of Birth
DoD	Department of Defense
DPRIS	Defense Personnel Records Information Systems
E&E	Enrollment and Eligibility
EA	Enterprise Architecture
EC	Environmental Contaminants
EHBD	Enterprise Health Benefits Determination
EI	Environmental Indicator
EJB	Enterprise JavaBeans
ESI	E&E System Improvements
ES	Enrollment System
FBCS	Fee Basis Claims System
FIPS	Federal Information Processing Standards
FMS	Financial Management System
FN	First Name
FPPS	Payment Processing System
GUI	Graphical User Interface
H.R.	House Resolution
HAC	Health Administration Center
Handbook	Veterans Benefit Handbook
HEC	Health Eligibility Center
HHS	Department of Health and Human Services
HL7	Health Level 7
HNC	Head and/or Neck Cancer
HPTi	High Performance Technologies, Inc.
HRC	Health Resource Center
HSD&D	VistA Health Systems Design and Development

Acronym	Meaning
ICD	Interface Control Document
ICN	Integration Control Number (previously VPID)
IdM	Identity Management
IMS	Integrated Master Schedule
IPR	In Progress Review
IPT	Integrated Project Team
IR	Ionizing Radiation
IRM	Information Resource Management
IRS	Internal Revenue Service
IT	Information Technology
IV	Income Verification
IVM	Income Verification Matching
LN	Last Name
MS	Member Services
MSDS	Military Services Data Sharing
MSS	Member Support Services
NCA	National Cemetery Administration
NIST	National Institute of Standards and Technology
NPRC	National Personnel Records Center
NSC	Non-Service Connection
O&M	Operations and Maintenance
OED	Office of Enterprise Development
OMPF	Official Military Personnel Files
OPP	Office of Policy and Planning
ORT	Operational Readiness Testing
P.L.	Public Law
PCO	Program Control Office
PD	Product Development
PEO	Program Executive Office
PG	Priority Group
PgM	Program Manager
PM	Project Manager

Acronym	Meaning
PMAS	Program Management Accountability System
PMP	Project Management Plan
PS	Product Support
PTF	Patient Treatment File
QA	Quality Assurance
REE	Registration, Eligibility and Enrollment
REEG	Enrollment and Eligibility
RMP	Risk Management Plan
RPC	Remote Procedure Call
RSD	Requirements Specification Document
SDD	System Design Document
SDS	Standard Data Service
SHAD	Shipboard Hazard and Defense
SOP	Standard Operating Procedures
SP	Special Publication
SQA	Software Quality Assurance
SSA	Social Security Administration
SSN	Social Security Number
SWAC	South West Asia Conditions
TAC	Technology Acquisition Center
TSPR	Technical Services Project Repository
USMC	United States Marine Corps
VA	U.S. Department of Veterans Affairs
VBA	Veterans Benefits Administration
VFA	Veterans Financial Assessment
VHA	Veterans Health Administration
VistA	Veterans Health Information Systems and Technology Architecture
VOA	Veterans Online Application
VPID	Veterans Affairs Personal Identifier
VRM	Veterans Relationship Management
WAN	Wide Area Network
WBS	Work Breakdown Structure

Acronym	Meaning
WIPT	Working Integrated Project Team
WSDL	Web Services Description Language
WSS	Web Self Service
XML	Extensible Markup Language