

VHA Point of Service (Kiosks) Phase II
Requirements Specification Document
for
Enhancement VPS*1*4



Delivery Order VA118-11-D-1009
Task Order VA118-1009-0020
Department of Veterans Affairs

Approved: July 2014

Revision History

[illegible]

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1 Introduction

The vision of the Chief Business Office (CBO) is to streamline and improve patient administrative processes across the Department of Veterans Affairs (VA) healthcare network and to provide standard, easy-to-use capabilities for Veterans, beneficiaries, clinic staff and employees to access and update information and perform business transactions. The Veterans Health Administration (VHA) has identified that self-service kiosks provide the capabilities to meet this vision.

In terms of self-service and improved customer service, kiosks reduce the need for staff to perform transactions that customers would otherwise be willing to perform on their own; enhance privacy in collection of critical information; and allow for presentation to support multiple languages. They also help improve process efficiencies by allowing for increased processing during peak bandwidth periods without requiring significant increases in staff and allowing integration of several processes that allow customers to perform multiple transactions without having to engage different VA staff multiple times. Kiosks also improve collection of critical information because of their ability to hold to a script and offer the ability to reliably collect needed information

The VHA Point of Service (Kiosks) Phase II project consists of six (6) separate task lines (covering requirements, design, development, initial operating capability (IOC) and deployment). They are:

- **VPS*1*4:** Harris will enhance the capabilities of existing remote procedure calls (RPC) or create new RPCs in support of interfaces with: 1) Howdy, 2) Clinical Reminders Integrating Kiosk (CRIK), 3) Get Patient Demographics, and 4) Specimen Wristband Labels.
- **VPS*1*5:** Harris will enhance the capabilities of existing RPCs or create new RPCs in support of interfaces with: 1) Appointment status integration, and 2) Clinical Surveys.
- **VPS*1*3:** Harris will enhance the capabilities of existing RPCs or create new RPCs in support of interfaces with: 1) Medication Review and Allergy Review (MRAR).
- **After Visit Summary (AVS):** Harris will enhance the existing Class-2 software and convert it to Class-1 and will integrate it with the self-service kiosks.
- **Voluntary Service System (VSS):** Harris will integrate the enter/edit hours and meal voucher coupon capabilities with the self-service kiosks.

1.1 Purpose

This Requirements Specification Document (RSD) analyzes the Phase 2 business needs defined in BRD 20090210 and supplemented by VHA Point of Service (Kiosks) FY14 OIT PD BRD – Final v2 (5_14_14)_2, and specifies the functional requirements. These requirements address components of the Enhanced Administrative and Patient Management Capabilities and Enhanced Patient Self-Service Capabilities. The intended audiences of this document includes the Product Development (PD), Software Quality Assurance (SQA), the Chief Business Office (CBO), and the Office of Information and Technology (OI&T).

This RSD covers the Veterans Health Information Systems and Technology Architecture (VistA) patch enhancements with new versions created and material added as successive task lines are executed. The initial version covers VPS*1*4 only. Separate RSDs will address AVS, and VSS integration.

1.2 Scope

Enhancement VPS*1*4 addresses the requirements for enhanced remote procedures to provide functionality as described in section 1.2.1.

1.2.1 VPS*1*4

VistA patch VPS*1*4 focuses on four (4) functional areas: 1) Howdy, 2) CRIK, 3) VPS Get Patient Demographics, and 4) Specimen/Wristband Labels. VPS*1*4 provides RPCs that extends VetLink integration with multiple VistA packages, and increases the data extracted from the facilities' patient-related files. The RPCs either extract data from associated VistA files or enhance the output and initiate print jobs through established VistA and/or VetLink mechanisms.

1. **Howdy Integration:** This component integrates the Howdy Computerized Phlebotomy Lab (Howdy) traditional queued printing (non-Bar Code Expansion) and non-queued (Bar-Code Expansion) Print at Point of Collection (PPOC) functionality into Kiosk/VetLink. This capability provides improved/enhanced patient satisfaction with check-in and lab collection activities.
2. **Clinical Reminders Integrating Kiosks (CRIK) (Phase 1):** Currently, VetLink does not integrate with Clinical Reminders. VPS*1*4 will provide RPCs that extract a patients clinical reminders from associated VistA files for presentation to clinic staff. This capability enhances the ability of clinic staff to complete clinical reminder activities and reduce the number of past due clinical reminders.
3. **VPS Enhanced Get Patient Demographic:** VPS*1*4 will expand the demographic data provided to VetLink. The additional data provided in VPS*1*4 will enhance the ability of clinic staff to respond to patient questions and health care concerns.
4. **Specimen/Wristband Label (VistA Printing Phase 2):** VPS*1*4 will provide RPCs that accept wristband patient information and patient specimen label information from VetLink and create VistA print jobs targeting clinic printers. This will provide improved clinic staff productivity by eliminating the need to access a separate VistA session to generate print jobs.

1.3 Assumptions and Dependencies

- VPS*1*4 developers and testers will have access to a development and test VistA environment with Intersystems Cache`.
- VPS*1*4 development and test VistA environments will have all required VistA packages installed.
- VPS*1*4 analysts will have access to VA FORUM with sufficient access to add and/or edit VA Integration Agreements (IAs)/Integration Control Registrations (ICRs).
- VPS*1*4 VistA RPCs may be developed for those external VistA packages which do not execute an IA/ICR.
- VA provides access and necessary training for VPS*1*4 developers, testers, and analysts to use VA required repositories for requirements, test cases and MUMPS code.

1.4 Acronyms and Definitions

1.4.1 Acronyms

Table 1: List of Acronyms

Term	Definition
AVS	After Visit Summary

Term	Definition
BR	Business rule
CBO	Chief Business Office
CCOW	Clinical Context Object Workgroup
DFN	Data file number
HIPAA	Health Insurance Portability and Accountability Act
IA	Integration agreement
IB	Integrated Billing
ICR	Integration Control Registrations
IEN	Internal entry number
GUI	Graphical user interface
MUMPS/M	Massachusetts General Hospital Utility Multi-Programming System
NSR	New Service Request
OED	Office of Enterprise Development
PIMS	Patient Information Management System
PMO	Program Management Office
POS	Point of Service
RPC	Remote Procedure Call
RSD	Requirements Specification Document
SACC	Standards and Conventions Committee
SSOi	Single Sign On and Patient Context Management
TCP/IP	Transmission Control Protocol/Internet Protocol
VistA	Veteran's Health Information Systems and Technology Architecture
VISN	Veterans Integrated Service Network
VHA	Veterans Health Administration
VPS	Veterans Point Of Service
VSS	Voluntary Service System

1.4.2 Definitions

Table 2: Glossary

Term	Definition
E-VPS	The set of VistA patches implementing features identified by VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4.
FileMan	The VistA database manager.
Kiosk	Implementation of a kiosk server at one TCP/IP domain.
VetLink	The VPS Kiosk application composed of a kiosk client used by VA patients and staff to connect to a kiosk server.

1.5 References

- Veteran's Point of Service (VPS) FY14 OIT PD BRD, Version 2.0 (May 2014)
- 20090210 VHA Point-of-Service Initiative BRD
- Howdy Computerized Phlebotomy Login Process C3-C1 Conversion Project Technical Manual, Laboratory Patch LR*5.2*405 (January 2012)
- Clinical Reminders Version 2.0 PXR*2.0*4 Technical Manual, (October 2006)
- Patient Information Management Systems (PIMS) Patient Registration, Admission, Discharge, Transfer, And Appointment Scheduling Technical Manual, (November 2013)

1.6 User Documentation

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project as the RPCs are used on a machine-to-machine basis only.

2 Overall Description

2.1 Accessibility Specifications

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project. All user interface components are provided by the VetLink application.

2.2 Business Rules Specifications

Please reference the document VHA Point of Service (Kiosks) Phase II FY14 OIT PD BRD V2 on the project SharePoint site VA Point of Service (VPS) Kiosk

2.3 Design Constraints Specifications

VPS*1*4 will use existing VistA routines to provide functionality when possible. All functionality for those components not provided by existing VistA routines will be implemented as RPCs using the M Programming Language (MUMPS).

The VPS*1*4 RPCs will apply no data transformations. All data read and written will be in FileMan format.

2.4 Disaster Recovery Specifications

The existing VA VistA disaster recovery plan and implementation will be utilized for VPS*1*4.

2.5 Documentation Specifications

The system will document VPS*1*4 RPC features and functionality in patch Release Notes.

2.6 Functional Specifications

2.6.1 Clinical Reminders Integrating Kiosks (CRIK)

REQUIREMENT NUMBER	REQUIREMENT
2.6.1.1	<p>(BR5940, BR5963) The system shall provide a list of a patient's "Due Now" clinical reminders.</p> <ol style="list-style-type: none">1. The system shall require a patient DFN.2. (BR5963)The system shall read the clinical reminders fields for the identified patient's clinical reminder list from VistA.<ol style="list-style-type: none">1. The system shall read the Clinical Reminder IEN.2. The system shall read the Clinical Reminder Name.3. The system shall read the Clinical Reminder Due Date.4. The system shall read the Clinical Reminder Priority.5. The system shall read the Clinical Reminder Due Now Status.3. (BR5960)The system shall return a result list.<ol style="list-style-type: none">1. The result list shall be populated with the data read from VistA.2. A result list field shall be populated with "NULL" when the VistA data value is "NULL".3. The result list shall be populated with "Patient DFN is required" when the patient DFN is not populated.4. The result list shall be populated with "No data found" when the patient's clinical reminder list is not populated.
2.6.1.2	<p>(BR5962) System shall be a Public RPC that allows integration with other packages and databases in a Service Oriented Architecture (SOA).</p> <ol style="list-style-type: none">1. RPC shall require a patient identifier, DFN, to return Clinical Reminders for the patient which is Due Now.2. RPC shall accept a Division IEN (File #4, Institution), to return Clinical Reminders specified for that Division.3. RPC shall accept a Service IEN (File #49, Service/Section), to return Clinical Reminders specified for that Service.4. RPC shall accept a Location IEN (File #44, Hospital Location), to return Clinical Reminders specified for that Location.5. RPC shall accept a User Class IENs (File #8930, User Class), to return Clinical Reminders specified for those User Classes. Multiple values of User Class can be provided which can be separated by "^".6. RPC shall accept a User IEN (File #200, New Person), to return Clinical Reminders specified for that User.7. RPC shall by default return Clinical Reminders specified for Package File (#9.4, Package). This value shall be Order Entry/Results Reporting (IEN #181).8. RPC shall by default return Clinical Reminders specified for System (File #4.2, Domain). This value shall be the current site.
2.6.1.3	<ol style="list-style-type: none">1. The system shall read the New Reminder parameters option.2. The system shall accept "new" style New Reminder parameters.

2.6.2 Howdy

REQUIREMENT NUMBER	REQUIREMENT
2.6.2.1	<p>(BR6030, BR6031) The system shall read a list of Traditional or PPOC Howdy sites from the HOWDY SITE file (#69.86).</p> <ol style="list-style-type: none"> (BR6030, BR6031) The system shall read the Site IEN. <ol style="list-style-type: none"> (BR6030, BR6031) The system shall read the Site Name. The system shall return a result list with the data from VistA. <ol style="list-style-type: none"> (BR6030, BR6031) The result list shall be populated with the message <i>“No sites found”</i> when the Howdy site list is “NULL”. The result list shall populate the result list fields with “NULL” when the data read from VistA is “NULL”.
2.6.2.2	<p>(BR6030) The system shall read a list of printers for a specified Traditional HOWDY SITE file (#69.86).</p> <ol style="list-style-type: none"> (BR6030) The system shall require Howdy Site IEN. (BR6030) The system read the Device (printer) IEN The system shall populate a result list with the values read from VistA. <ol style="list-style-type: none"> (BR6030) The result list shall be populated with the message <i>“Site not found”</i> when the Howdy site is not found. The result list shall be populated with “NULL” when the VistA data is “NULL”.
2.6.2.3	<p>(BR6031) The system shall return a list of Bingo Board Devices for a specified PPOC Howdy Site</p> <ol style="list-style-type: none"> The system shall require Howdy Site IEN. The system shall read Bingo Board (device) IEN from the HOWDY SITE file (#69.86) The system shall read Bingo Board Name from the HOWDY SITE file (#69.86). The system shall populate a result parameter with the values read from VistA. <ol style="list-style-type: none"> The result parameter shall be populated with the message <i>“Site not found”</i> if Howdy site is not found. The result parameter shall be populated with the message <i>“No Bingo Board devices found”</i> if Howdy site does not specify bingo board devices.
2.6.2.4	<p>(BR9074, BR9084) The system shall provide a Howdy specific RPC which shall be invoked, upon patient identification, by staff or patient to complete a patient’s check-in process.</p> <ol style="list-style-type: none"> The system shall require Patient identifier and identifier type. The system shall require Howdy Site IEN. The system shall require Howdy Type: Traditional or PPOC. The system shall require Printer Device IEN (BR9087) The system shall read the patient’s lab orders according to parameters set in Howdy Site file. (BR9087, BR9576) For Traditional Howdy, the system shall print lab order to the specified printer when patient checks-in. (BR9573, BR9577).The system shall display the identified patient’s name on the Bingo Board when the Howdy Type value is PPOC (BR9575) The system shall return a print result parameter. (BR9070) The system shall return a result parameter with a success or failure message. <ol style="list-style-type: none"> The system shall return <i>“No record for this person”</i> message when patient is not

	<p>found.</p> <ol style="list-style-type: none"> The system shall return "No Lab Data Available... Please check with clerk at the Desk.", when no labs are found. The system shall return "No Orders found. Please check with clerk at the Desk", when no orders for the date range The system shall return "Please check with clerk at the Desk", when multiple orders.
2.6.2.5	<p>(BR9087) The system shall return a result list with the identified patient's Howdy laboratory orders from VistA to only staff.</p> <ol style="list-style-type: none"> The system shall require Patient identifier and identifier type. The system shall require Howdy Site IEN. (BR9087) The system shall return a result list of lab orders for the identified patient. <ol style="list-style-type: none"> The result list shall be populated with "Patient not found" when the identified patient is not found in PATIENT file (#2) The result list shall be populated with "No Lab Data Available." when no lab data is found for the identified patient. (BR9073) The result list shall be populated with "No Orders found." when no orders are found for the specified date range.
2.6.2.6	<p>(BR9088) The system shall provide the ability to accession lab orders to the staff when the Howdy Type value is "PPOC".</p> <ol style="list-style-type: none"> The system shall require Patient IEN. The system shall require Howdy Site IEN. The system shall require a Device IEN. The system shall require a Howdy Type. The system shall require a list of Lab Order IENs. The system shall read the accession sequence order identified patient's lab orders from VistA. The system shall print the identified patient's lab orders in accession sequence orders. <ol style="list-style-type: none"> The orders will be sent to the identified print device identified by the Device IEN. The system shall return a result parameter. <ol style="list-style-type: none"> The result parameter shall be populated with a success message. The result parameter shall be populated with "Device not found" when the Device IEN is not found in VistA.

2.6.3 Enhance Get Patient Demographics RPC

2.6.3.1 VPS Interface

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.1	<p>The system shall accept a list of data group types to read for Enhanced Get Patient Demographics.</p> <ol style="list-style-type: none"> The system shall require a group type parameter in the set (1 = Appointment,, 2 = Lab Orders, 3 = Consults, 4 = Radiology, 5=Problem, 6 = Patient Characteristics). The system shall call the identified group entry points accepted.

2.6.3.2 Appointment Information

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.2	<p>Category Interface.</p> <ol style="list-style-type: none"> 1. The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). 2. The system shall require a patient identifier of the specified patient identifier type. 3. The system shall return the message "Invalid identifier type." when the patient identifier is not populated with a valid patient identifier type. 4. The system shall return the message "Patient identifier required." when the patient identifier is not populated. 5. The system shall return "No data found for patient", when the patient identifier is not found in PATIENT file (#2).

2.6.3.2.1 15335 Previous Appointment

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.3	<p>(15336) Previous Appointment:</p> <ol style="list-style-type: none"> 1. The system shall accept a starting and ending date in FileMan format. The starting date shall not be later than the ending date. <ol style="list-style-type: none"> 1. The system shall return "Invalid start date" when the starting or "Invalid end date" when the ending date is not a valid FileMan date. 2. The system shall return "Invalid date range" if the starting date is later than the ending date. 2. The system shall read the fields in the APPOINTMENT DATE/TIME (#2.98) multiple. <ol style="list-style-type: none"> 1. (15490)The system shall read the appointment date and time from the APPOINTMENT DATE/TIME field (2.98, 00.1) 2. The system shall read the appointment clinic from the HOSPITAL LOCATION (#44) NAME field (44, .01) pointed to by the CLINIC field (2.98, .01). 3. The system shall read the IEN of the HOSPITAL LOCATION file (#44) from the CLINIC field (2.98, .01). 4. (15491) The system shall read the appointment status from the STATUS field (2.98, 3) in the APPOINTMENT file (#2.98). 5. (15492) The system read the name of the person cancelling the clinic from the NAME field (200, .01) from the NEW PERSON file (#200) pointed to by the NO-SHOW/CANCELLED BY field (2.98, 14). 6. (15493) The system shall read the cancellation date from the NO-SHOW/CANCEL DATE/TIME field (2.98, 15). 7. (15494) The system shall read the cancellation type from NAME field (409.1, .01) in APPOINTMENT TYPE file (#409.1) pointed to by the APPOINTMENT TYPE field (2.98, 9.5). 8. (15495) The system shall read the cancellation reason from the NAME field (409.2, .01) from the CANCELLATION REASONS file (#409.2) pointed to by the CANCELLATION REASON field (2.98, 16).

	<p>9. (15496) The system shall read the CANCELLATION REMARKS field (2.98, 17).</p> <p>3. The system shall populate a previous appointment result list with the data read from VistA when the previous appointment date and time is between the starting date and the current date, inclusive.</p> <ol style="list-style-type: none"> 1. The result list shall delimit the fields of the previous appointment. 2. The result list shall be populated with "NULL" when the data read from VistA is "NULL". <p>4. The system shall return a result list of the VistA previous appointment delimited data for the provided patient DFN and starting date.</p> <ol style="list-style-type: none"> 1. The result list shall be populated with the appointment result strings.
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2.6.3.2.2 15337 Future Appointment

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.4	<p>(15497) Current / Future Appointment Cancellation:</p> <ol style="list-style-type: none"> 1. The system shall accept a starting and ending date in FileMan format. The starting date shall not be later than the ending date. <ol style="list-style-type: none"> 1. The system shall return "Invalid start date" when the starting or "Invalid end date" when the ending date is not a valid FileMan date. 2. The system shall return "Invalid date range" if the starting date is later than the ending date. 2. The system shall read the fields in the APPOINTMENT DATE/TIME (#2.98) multiple. <ol style="list-style-type: none"> 1. (15497) The system shall read the appointment date and time from the APPOINTMENT DATE/TIME field (2.98, 00.1) 2. The system shall read the appointment clinic from the HOSPITAL LOCATION (#44) NAME field (44, .01) pointed to by the CLINIC field (2.98, .01). 3. The system shall read the IEN of the HOSPITAL LOCATION file (#44) from the CLINIC field (2.98, .01). 4. The system shall read the appointment status from the STATUS field (2.98, 3) in the APPOINTMENT file (#2.98). 5. (15498) The system read the name of the person cancelling the clinic from the NAME field (200, .01) pointed to by the NO-SHOW/CANCELLED BY field (2.98, 14). 6. The system shall read the cancellation date from the NO-SHOW/CANCEL DATE/TIME field (2.98, 15). 7. (15499) The system shall read the cancellation type from the NAME field (409.1, .01) in APPOINTMENT TYPE file (#409.1) pointed to by the APPOINTMENT TYPE field (2.98, 9.5). 8. (15500) The system shall read the cancellation reason from the NAME field (409.2, .01) from the CANCELLATION REASONS file (#409.2) pointed to by CANCELLATION REASON field (2.98, 16). 9. (15501) The system shall read the CANCELLATION REMARKS field (2.98, 17). <ol style="list-style-type: none"> 1. The system shall populate a future appointment result parameter with the data read from VistA when the APPOINTMENT DATE/TIME value is between the current date and the ending date, inclusive. <ol style="list-style-type: none"> 1. The system shall delimit the fields in the future appointment result parameter. 2. The system shall populate a future appointment result field with "NULL" when the data

	<p>read from VistA for that field is "NULL".</p> <ol style="list-style-type: none"> The system shall return a result list with the identified patient's future appointment data for the provided starting date read from VistA. The result list shall be populated with the appointment result strings.
2.6.3.5	

2.6.3.3 15539 Lab Orders

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.6	<p>Category Interface.</p> <ol style="list-style-type: none"> The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). The system shall require a patient identifier of the specified patient identifier type. <ol style="list-style-type: none"> The system shall return the message "Invalid identifier type." when the patient identifier is not populated with a valid patient identifier type. The system shall return the message "Patient identifier required." when the patient identifier is not populated. The system shall return "No data found for patient", when the patient identifier is not found in PATIENT file (#2).
2.6.3.7	<p>(15339) Lab Orders: The system shall return a list of the patient's laboratory orders.</p> <ol style="list-style-type: none"> The system shall require a starting date in FileMan format. <ol style="list-style-type: none"> The system shall return the message "Starting date required" when the starting date is not populated. The system shall require an ending date in FileMan format. <ol style="list-style-type: none"> The system shall return the message "Ending date required" when the ending date is not populated. The system shall call the AGET^ORWRR VistA routine with the patient's DFN. The system shall accept the list of the patient's laboratory order Internal File Numbers (IFN) in the ORDER file (#100). The system shall read the data fields for each order specified by the order's IFN in the ORDER file (#100). <ol style="list-style-type: none"> The system shall read the ORDER # field (100, .01) from the ORDER file (#100). The system shall read the test name from the NAME field (.01) from the ORDERABLE ITEMS file (#101.43) pointed to by the ORDERABLE ITEMS field (100, .1). The system shall read the test status from the NAME field (.01) from the ORDER STATUS file (#100.01) pointed to by the STATUS field (100, 5). The system shall read the patient appointment date/time from the PATIENT APPOINTMENT field (100, 16). The system shall populate a laboratory result list containing the data read from VistA <ol style="list-style-type: none"> The laboratory result list fields shall be populated with "NULL" when the data read from VistA is "NULL". The system shall read the patient's laboratory reference (LRDFN) from the LABORTORY REFERENCE field (2, 63) in PATIENT file (#2).

	<ol style="list-style-type: none"> 8. The system populate a lab result list with the with the set of active orders from LAB DATA file (#69) pointed to by the patient's ^LRO(69,"D",LRDFN) cross reference. <ol style="list-style-type: none"> 1. The system shall read the DATE/TIME OF COLLECTION field (69.01, 5.5) value. <ol style="list-style-type: none"> 1. The system shall validate value is between the starting date and current date. 2. (15502) The system shall read the Test Name from NAME field (60, .01) from the LABORATORY TEST file (#60) pointed to by the TEST/PROCEDURE field (69.03, .01). 3. (15503) The system shall read the order number from the ORDER # field (69, 9.5). 4. (15504) The system shall read the order urgency from the URGENCY field (69.03, 1). 5. (15505) The system shall read the order status from the STATUS field (69.03, 1). 9. The system shall populate an order result list containing the data read from VistA <ol style="list-style-type: none"> 1. The system shall join the laboratory result list and the lab result list on the OERR ORDER # field (69.01, .11) and ORDER # field (100, .01). 2. The laboratory result list fields shall be populated with "NULL" when the data read from VistA is "NULL".
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2.6.3.4 15340 Consults/Procedures

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.8	<p>Category Interface.</p> <ol style="list-style-type: none"> 1. The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). 2. The system shall require a patient identifier of the specified patient identifier type. 3. The system shall return the message "Invalid identifier type." when the patient identifier is not populated with a valid patient identifier type. 4. The system shall return the message "Patient identifier required." when the patient identifier is not populated. 5. The system shall return "No data found for patient", when the patient identifier is not found in PATIENT file (#2).
2.6.3.9	<p>(15340) Consults/Procedures: The system shall return a list of a patient's consults or procedures.</p> <ol style="list-style-type: none"> 1. The system shall read the DFN for the patient identified. 2. The system shall accept a starting date value in FileMan format. <ol style="list-style-type: none"> 1. The system shall default the starting date value to "NULL" when the starting date is not populated. 3. The system shall accept an ending date value in internal FileMan format. <ol style="list-style-type: none"> 1. The system shall default the ending date value "NULL" when the ending date is not populated. 4. The system shall call the LIST^ORQQCN routine with the patient's DFN. <ol style="list-style-type: none"> 1) The system shall accept the Consult IEN. 2) The system shall accept the Consult Entered Date and Time. 3) The system shall accept the Consult Status. 4) The system shall accept the requesting Primary Care Team name. 5) The system shall accept the Consult Type.

	<ul style="list-style-type: none"> 6) The system shall accept the Consult Name. 7) The system shall accept the OERR File #. 8) The system shall accept the Consult Request type. <p>5. The system shall return a result list with the identified patient's consult request information.</p> <ul style="list-style-type: none"> 1. The result list shall be populated by the data accepted from the ORQQCN VistA routine. 2. The result list fields shall be populated with "NULL" when the data field from ORQQCN is not populated. 3. The system shall return the message "No Consult records found for patient." when the result list is not populated. <p>(15506 - 15512)The system shall return the details of a patient's consult request.</p> <p>6. The system shall require a patient's consult IEN.</p> <ul style="list-style-type: none"> 1. The system shall return a failure message "Patient's Consult IEN is required." when the patient's consult IEN is not populated. <p>7. The system shall call the DETAIL^ORQQCN routine passing the patient's consult IEN.</p> <ul style="list-style-type: none"> 1. (15506) The system shall accept the Primary Care Provide name. 2. (15507) The system shall accept the Primary Care Team name. 3. (15508) The system shall accept the Requested Primary Care Provider. 4. (15509) The system shall accept the Scheduled Primary Care Appointment FileMan date and time. 5. (15510) The system shall accept the Requested Date/Time Primary Care Appointment FileMan date and time. 6. (15511) The system shall accept the Consult Entered Date/Time. 7. (15512) The system shall accept the Urgency of the primary care appointment. 8. (15513) The system shall accept the Consult Status. <p>8. The system shall return a result list populated with the patient's consult data from ORQQCN.</p> <ul style="list-style-type: none"> 1. The result list fields shall be populated with null values if no data is returned from VistA for the list field. 2. The system shall return the message "No Consult Detail records found for patient." When the result list is not populated.
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2.6.3.5 15342 Radiology/Imaging

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.10	<p>Category Interface.</p> <ul style="list-style-type: none"> 1. The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). 2. The system shall require a patient identifier of the specified patient identifier type. 3. The system shall return the message "Invalid identifier type." when the patient identifier is not populated with a valid patient identifier type. 4. The system shall return the message "Patient identifier required." when the patient identifier is not populated. 5. The system shall return "No data found for patient", when the patient identifier is not found

	in PATIENT file (#2).
2.6.3.11	<p>(15342) Radiology/Imaging: The system shall provide the identified patient's Radiology/Imaging information.</p> <ol style="list-style-type: none"> The system shall read the patient's DFN. The system shall accept a starting date value in internal FileMan format. <ol style="list-style-type: none"> The system shall default the starting date value to the current date when the starting date is not populated. The system shall accept an ending date value in internal FileMan format. <ol style="list-style-type: none"> The system shall default the ending date value to the current date when the ending date is not populated. The system shall accept a maximum number of orders. (15514, 15515, 15517) The system shall read the ^TMP(\$J,"RAE1") temporary global (MULTIPLE) produced by the EN1^RAO7PC1 VistA routine for the provided patient DFN, starting date, ending date, maximum number of orders. <ol style="list-style-type: none"> The system shall return the message "No Radiology/Imaging records found for patient." when ^TMP(\$J,"RAE1") is not populated. The system shall use the following data field template to read ^TMP(\$J, "RAE1"): Procedure Name^Case Number^Report Status^Abnormal Alert Flag^Report IEN^Exam Status Order#~Exam Status Name^Imaging Location Name^Imaging Type Abbr~Imaging Type Name^Abnormal Results Flag^CPT Code^CPRS Order IEN^Images Exist Flag. The system shall read the following data from the RAD/NUC MED ORDERS file (#75.1) pointed to by the Report IEN (5th piece of ^TMP(\$J,"RAE1"). <ol style="list-style-type: none"> (15516) The system shall populate "Exam Requested Date" with the FileMan date read from the REQUEST ENTERED DATE field (75.1, 16). (15518) The system shall populate "Requesting Location" with the data read from the NAME field (44, .01) in the HOSPITAL LOCATION file (#44) pointed to by the REQUESTING LOCATION field (75.1, 22). (15519) The system shall populate "Requesting Physician" with the data read from the NAME field (200, .01) in the NEW PERSON file (#200) pointed to by the REQUESTING PHYSICIAN field (75.1, 14). The system shall populate an exam result parameter with the VistA data. <ol style="list-style-type: none"> The exam result parameter shall be populated with "NULL" values if the data read from VistA is "NULL". The exam result parameter will contain the following data items from VistA. <ol style="list-style-type: none"> Procedure Name Radiology Case# Report Status Report IEN Exam Status Order #~Exam Status Name Imaging Location Name Imaging Type Abbreviation Imaging Type Name Abnormal Results Flag CPT Code CPRS Order IEN Exam Requested Date Requesting Location Requesting Physician <p>The system shall return a result parameter with the VistA radiology/imaging exam data for the</p>

	<p>provided patient DFN, starting date, and ending date.</p> <ol style="list-style-type: none"> 1. The result array shall be populated with the exam result parameters.
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2.6.3.6 15481 Problem List

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.12	<p>Category Interface.</p> <ol style="list-style-type: none"> 1. The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). 2. The system shall require a patient identifier of the specified patient identifier type. 3. The system shall return the message "Invalid identifier type." when the patient identifier is not populated with a valid patient identifier type. 4. The system shall return the message "Patient identifier required." when the patient identifier is not populated. 5. The system shall return "No data found for patient", when the patient identifier is not found in PATIENT file (#2).
2.6.3.13	<p>(15481) Patient Active Problem List: The system shall return the values stored in the ^AUPNPROB("AC",DFN) global (MULTIPLE) in the PROBLEM file (#9000011) for the problem status "A"=Active in piece 12 of the global location.</p> <ol style="list-style-type: none"> 1. The system requires a patient identifier type "D". 2. The system requires a patient identifier DFN. 3. The system shall return a result list containing problem data for the identified patient. <ol style="list-style-type: none"> 1. The result list shall be populated with the values stored in the ^AUPNPROB("AD",DFN) global. 2. The result list fields shall be populated with: <ul style="list-style-type: none"> • ICD Diagnosis: the NAME field (.01) from the ICD DIAGNOSIS file (#80) pointed to by the DIAGNOSIS field (9000011, .01). • Date Last Modified: the DATE LAST MODIFIED field (9000011, .03) from the PROBLEM FILE. • Provider Narrative: the PROVIDER NARRATIVE from PROVIDER NARRATIVE file (#9999999.27) pointed by the PROVIDER NARRATIVE field (9000011, .05) in the PROBLEM file. • Facility: the facility number in the FACILITY field (9000011, .06) from the PROBLEM file. • Date Entered: the FileMan date value DATE ENTERED field (9000011, .08) from the PROBLEM file. • Status: the value in the STATUS field (9000011, .12) from the PROBLEM file. • Problem: the string value in the EXPRESSIONS file (#757.01) pointed to by the PROBLEM field (9000011, 1.01) in the PROBLEM file. • Condition: The system shall read the string corresponding to the condition code in the CONDITION field (9000011, 1.02) in the PROBLEM file where "T"="TRANSCRIBED", "P"="PERMANENT", "H"="HIDDEN"; otherwise "NULL" or empty. • Entered By: The system shall read the NAME field (200, .01) from the NEW PERSON file (#200) pointed to by the ENTERED BY field (9000011, 1.03) in the

	<p>PROBLEM file.</p> <ul style="list-style-type: none"> Recording Provider: The system shall read the NAME field (200, .01) from the NEW PERSON file (#200) pointed to by the RECORDING PROVIDER field (9000011, 1.04). Responsible Provider: The system shall read the NAME field (200, .01) from the NEW PERSON file (#200) pointed to by the RESPONSIBLE PROVIDER field (9000011, 1.05)
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2.6.3.7 15482 Activity Date

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.14	<p>Category Interface.</p> <ol style="list-style-type: none"> The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). The system shall require a patient identifier of the specified patient identifier type. The system shall return the message "Invalid identifier type." when the patient identifier is not populated with a valid patient identifier type. The system shall return the message "Patient identifier required." when the patient identifier is not populated. The system shall return "No data found for patient", when no data is found in PATIENT file (#2) for the patient identifier.
2.6.3.15	<p>(15482) The system return the Activity dates for patient updates.</p> <ol style="list-style-type: none"> The system shall read the residence address last edited date from the ADDRESS CHANGE DT/TIM field (2, .1113). The system shall read the temporary address last edited date from the TEMPORARY ADDRESS CHANGE DT/TIM field (2, .12113). The system shall read the confidential address last edited date from the CONFIDENTIAL ADDR CHANGE DT/TIM field (2, .14112). The system shall read the residence telephone number last edited date from the RESIDENCE NUMBER CHANGE DT/TIM field (2, .1321). The system shall read the email address last edited date from the EMAIL ADDRESS CHANGE DT/TIM field (2, .136). The system shall read the cell phone number last edited date from the CELLULAR NUMBER CHANGE DT/TIM field (2, .139). The system shall read the confidential address last edited date from the CONFIDENTIAL ADDR CHANGE DT/TIM field (2, .14112). The system shall read the primary next-of-kin last edited date from the PRIMARY NOK CHANGE DT/TIM field (2, .2121). The system shall read the secondary next-of-kin last edited date from the SECONDARY NOK CHANGE DT/TIM field (2, .2122). The system shall populate a result list with the patient's confidential address data read from VistA. The system shall populate the result list fields with "NULL" when the VistA data is "NULL".

2.6.3.8 Patient Characteristics

2.6.3.8.1 Eligibility

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.16	<p>Category Interface.</p> <ol style="list-style-type: none"> 1. The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). 2. The system shall require a patient identifier of the specified patient identifier type. 3. The system shall return the message "Invalid identifier type." when the patient identifier is not populated with a valid patient identifier type. 4. The system shall return the message "Patient identifier required." when the patient identifier is not populated. 5. The system shall return "No data found for patient", when the patient identifier is not found in PATIENT file (#2).
2.6.3.17	<p>(15463) Primary Eligibility Code.</p> <ol style="list-style-type: none"> 1. The system shall read the ELIGIBILITY CODE NAME field (8, .02) pointed to by the PRIMARY ELIGIBILITY CODE (2, .368) field. <ol style="list-style-type: none"> 1. The system shall return a result parameter with the patient's eligibility data read from VistA. 2. The result parameter shall be populated with "NULL" when the VistA data is "NULL".
2.6.3.18	<p>(15464) Secondary Eligibility Code.</p> <ol style="list-style-type: none"> 1. The system shall read ELIGIBILITY CODE NAME field (#8, .02) pointed to by the ("AEL",0) cross-reference in PATIENT file (#2) 2. The system shall return a result parameter populated with data from VistA. <ol style="list-style-type: none"> 1. The result parameter shall be populated with "NULL" when the VistA data is "NULL".
2.6.3.19	<p>(15467) Effective Dates for Eligibility.</p> <ol style="list-style-type: none"> 1. The system shall read the FileMan date from the ELIGIBILITY STATUS DATE field (2, .3612). 2. The system shall return a result parameter populated with the patient's eligibility effective data from VistA. <ol style="list-style-type: none"> 1. The result parameter shall be populated with "NULL" when the VistA data is "NULL".
2.6.3.20	<p>(15468, 15470) MT-GMT co-pay required.</p> <ol style="list-style-type: none"> 1. The system shall read the NAME field (408.32, .01) pointed to by the CURRENT MEANS TEST STATUS field (2, .14) 2. The system shall return a result parameter populated with the identified patient's data from VistA. <ol style="list-style-type: none"> 1. The result parameter shall be populated with "NULL" when the VistA data is "NULL".
2.6.3.21	<p>(15469) RX copay required.</p> <ol style="list-style-type: none"> 1. The system shall read the COPAY INCOME EXEMPTION STATUS field (354, .04) from the BILLING PATIENT file (#354). 2. The system shall populate a result parameter with the identified patient's RX copay data read from VistA. <ol style="list-style-type: none"> 1. The result parameter will be populated with "EXEMPT" when the value read is YES=1,

	<p>2. The result parameter will be populated with “NON-EXEMPT” when the value read is NO=0, otherwise “NULL” or empty.</p> <p>3. The result parameter will be populated with “NULL” when the value read is “NULL”.</p>
2.6.3.22	<p>(15471) Priority Group.</p> <ol style="list-style-type: none"> 1. The system shall read the number in the ENROLLMENT PRIORITY field (27, 7) from the PATIENT ENROLLMENT file (#27). 2. The system shall read the alpha-character ENROLLMENT SUB-GROUP field (27.11, 12) from the ENROLLMENT SUB-GROUP file (#27.11). 3. The system shall return a result parameter populated with the values read from VistA. <ol style="list-style-type: none"> 1. The result parameter shall be populated with “NULL” when the VistA data is “NULL”.
2.6.3.23	<p>(15473) Hardship.</p> <ol style="list-style-type: none"> 1. The system shall read the value of the HARDSHIP field (408.31, .2) from the ANNUAL MEANS TEST file (#408.31). 2. The system shall return a result parameter populated with the data read from VistA. <ol style="list-style-type: none"> 1. The result parameter shall be populated with “NULL” when the VistA data is “NULL”.
2.6.3.24	<p>(15479) Patient Type</p> <ol style="list-style-type: none"> 1. The system shall read the NAME field (391, .01) in the TYPE OF PATIENT file (#391) pointed to by the PATIENT TYPE field (#2, 391). 2. The system shall return a result parameter populated with the identified patient's patient type read from VistA. <ol style="list-style-type: none"> 1. The result parameter shall be populated with “NULL” when the VistA data is “NULL” or empty.
2.6.3.25	<p>(15477) Vested Status.</p> <ol style="list-style-type: none"> 1. The system shall read the patient's Vested Status returned from routine VEJDVEST, where YES=1 and NO=0. 2. The system shall return a result parameter populated with the patient's vested status data accepted from VistA. <ol style="list-style-type: none"> 1. The result parameter shall be populated with “NULL” when the VistA data is “NULL”.

2.6.3.8.2 Enrollment

2.6.3.8.2.1 15465 Service Connected

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.26	<p>(15465) Service Connected Determination and Combined Percent:</p> <ol style="list-style-type: none"> 1. The system shall read the number from the SERVICE CONNECTED? field (2, .301). 2. The system shall read the total (combined) service connected percent from the SERVICE CONNECTED PERCENTAGE field (2, .302) when the SERVICE CONNECTED DETERMINATION field (2, .301) is 1=YES. 3. The system shall populate a result parameter with the patient's service connected determination and combined percent data read from VistA. <ol style="list-style-type: none"> 1. The system shall populate the result parameter with “NULL” when the VistA data is “NULL”.
2.6.3.27	(15488) Service Connected Information

	<ol style="list-style-type: none"> The system shall read the patient's service connection information in PATIENT file (#2). <ol style="list-style-type: none"> The system shall read the SERVICE CONNECTED field (#2.04, 3) (YES=1 and NO=0). The system shall read the FileMan date in the SC AWARD DATE field (#2, .3012). The system shall return the number value stored in the EFF. DATE COMBINE SC% EVAL field (#2, .3014), otherwise "NULL" or empty. The system shall return the value stored in the UNEMPLOYABLE field (#2, .305) (YES=1 and NO=0). The system shall return a result parameter populated with the patient's service connected information read from VistA. <ol style="list-style-type: none"> The system shall populate the result parameter with "NULL" when the VistA data is "NULL".
2.6.3.28	<p>(15466) Service connection diagnosis detail (incl. effective dates).</p> <ol style="list-style-type: none"> The system shall read a patient's service connected disabilities service connected indicator, affected extremity, original effective date, and current effective date from the RATED DISABILITIES sub-file (#2.04) (MULTIPLE). <ol style="list-style-type: none"> The system shall read the string NAME field (31 .01) from the DISABILITY CONDITION file (#31) pointed to by the NAME field (2.01, .01) in the RATED DISABILITIES (#2.04) (MULTIPLE). The system shall read the number value in the DISABILITY % field (2.04, 2) from the RATED DISABILITIES file (#2.04) (MULTIPLE). The system shall read the service connected indicator in the SERVICE CONNECTED field (2.04, 3) from the RATED DISABILITIES (#2.04). (MULTIPLE). The system shall read the string value of the EXTREMITY AFFECTED field (2.04, 4) from the RATED DISABILITIES (#2.04) (MULTIPLE). The system shall read the FileMan date value in the ORIGINAL EFFECTIVE DATE field (2.04, 5) from the RATED DISABILITIES (#2.04) (MULTIPLE). The system shall read the FileMan date in the CURRENT EFFECTIVE DATE field (2.04; 6) PATIENT (#2.04) (MULTIPLE). The system shall return a result list with the identified patient's service connected data. <ol style="list-style-type: none"> The result list fields shall be populated with the with the patient's disability data read from VistA. <ol style="list-style-type: none"> The system shall populate result list fields with "NULL" when the VistA data is "NULL".

2.6.3.8.2.2 15476 Combat Veteran

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.29	<p>(15476) Combat Veteran Information.</p> <ol style="list-style-type: none"> The system shall accept the Combat Veteran values stored in the VSAV array generated by the VistA SVC^VADPT routine: <ul style="list-style-type: none"> VSAV(5) COMBAT SERVICE INDICATED VSAV(5,1) COMBAT FROM DATE VSAV(5,2) COMBAT TO DATE VSAV(5,3) COMBAT SERVICE LOCATION

	<ol style="list-style-type: none"> 2. The system shall return a result list populated with the patient's VSAV data accepted from VistA. <ol style="list-style-type: none"> 1. The result list fields shall be populated with "NULL" when the VSAV element is "NULL".
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2.6.3.8.2.3 15483 POW Information

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.30	<p>(15483) POW Information.</p> <p>The system shall return the patient's prisoner of war (POW) information.</p> <ol style="list-style-type: none"> 1. The system shall read the value stored in POW STATUS INDICATED field (2, .525) (YES=1 and NO=0). 2. The system shall read the value in the NAME field (22, .01) in the POW PERIOD file (#22) pointed to by the POW CONFINEMENT LOCATION (2, .526) field. 3. The system shall read the FileMan date from the POW FROM DATE field (2, .527) in PATIENT file (#2). 4. The system shall read the FileMan date from the POW TO DATE field (2, .528) in PATIENT file (#2). 5. The system shall read the FileMan date from the POW STATUS VERIFIED field (2, .529) in PATIENT file (#2). 6. The system shall return a result list populated with the data read from VistA <ol style="list-style-type: none"> 1. The result list fields shall be populated with "NULL" when the VistA data is "NULL".

2.6.3.8.2.4 15484 Purple Heart

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.31	<p>(15484) Purple Heart Information.</p> <ol style="list-style-type: none"> 1. The system shall read the CURRENT PH INDICATOR field (2, .531) (YES=1 and NO=0). 2. The system shall read the CURRENT PURPLE HEART STATUS field (2, .532) (1="PENDING", 2="IN PROCESS", 3="CONFIRMED"). 3. The system shall read string in the CURRENT PURPLE HEART REMARKS field (2,.533): <ol style="list-style-type: none"> 1="UNACCEPTABLE DOCUMENTATION", 2="NO DOCUMENTATION REC'D", 3="ENTERED IN ERROR", 4="UNSUPPORTED PURPLE HEART", 5="VAMC" 6="UNDELIVERABLE MAIN," 4. The system shall populate a result list with the Purple Heart data read from Vista. <ol style="list-style-type: none"> 1. The result list fields shall be populated with "NULL" when the VistA data is "NULL".

2.6.3.8.2.5 16161 History of Enrollment

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.32	<ol style="list-style-type: none"> The system shall read the enrollment clinic information for a patient from the ENROLLMENT CLINIC file (#2.001) (MULTIPLE). <ol style="list-style-type: none"> The system shall read the clinic name from the NAME field (.01) from the HOSPITAL LOCATION file (#44) pointed to by the ENROLLMENT CLINIC field (2.001, .01). The system shall read the patient's clinic status from the CURRENT STATUS field (2.001, 2). The system shall read the patient's enrollment data from the ENROLLMENT DATA file (#2.011) (MULTIPLE). <ol style="list-style-type: none"> The system shall read the DATE OF ENROLLMENT field (2.011, .01). The system shall read the OPT OR AC field (2.011, 1). The system shall read the clinic Service name from the SERVICE field (2.011, 2). The system shall read the patient's discharge date from the clinic from the DATE OF DISCHARGE field (2.011, 3). The system shall read the REASON FOR DISCHARGE field (2.011, 4). The system shall read the REVIEW DATE field (2.011, 5). The system shall return a result parameter populated with the values read from VistA. <ol style="list-style-type: none"> The result parameter shall be populated with "NULL" when the VistA data is "NULL" or empty.

2.6.3.8.3 Military Service

2.6.3.8.3.1 15474 Period of Service

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.33	<p>(15474) Service Period.</p> <ol style="list-style-type: none"> The system shall read the PERIOD OF SERVICE code stored in global location (.32, 2) in PATIENT file (#2). The system shall read the period of service NAME in the PERIOD OF SERVICE file (#21) pointed to by the PERIOD OF SERVICE code. The system shall populate a result list with the service period data read from Vista. <ol style="list-style-type: none"> The result list fields shall be populated with "NULL" when the VistA data is "NULL".

2.6.3.8.3.2 15480 Branch of Service

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.34	<p>(15480) Branch of Service.</p> <ol style="list-style-type: none"> The system shall read the NAME field (23, .01) in the BRANCH OF SERVICE file (#23) pointed to by the SERVICE BRANCH [LAST] field (2, .325) in PATIENT file (#2). The system shall populate a result list with the identified patient's branch of service data read from Vista. <ol style="list-style-type: none"> The result list fields shall be populated with "NULL" when the VistA data is "NULL".

2.6.3.8.4 15485 Exclude from Facility Directory

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.35	<p>(15485) Exclude from Facility Directory.</p> <ol style="list-style-type: none">1. The system shall read the EXCLUDE FROM FACILITY DIR field (2,.109) in PATIENT file (#2) (YES=1 and NO=0)2. The system shall populate a result list with the identified patient's facility directory data read from Vista.<ol style="list-style-type: none">1. The result list fields shall be populated with "NULL" when the Vista data is "NULL".

2.6.3.8.5 15486 Confidential Address

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.36	<p>(15486) Confidential Address.</p> <ol style="list-style-type: none">1. The system shall read the CONFIDENTIAL ADDRESS ACTIVE field (2, .14105) (YES=1 and NO=0).2. The system shall read the string in the CONFIDENTIAL STREET [LINE 1] field (2, .1411)3. The system shall read the string in the CONFIDENTIAL STREET [LINE 2] field (2,.1412)4. The system shall read the string in the CONFIDENTIAL STREET [LINE 3] field (2, .1413).5. The system shall read the number in the CONFIDENTIAL ADDRESS CITY field (2, .1414).6. The system shall read the number in the CONFIDENTIAL ADDRESS STATE field (2, .1415).7. The system shall read the string in the CONFIDENTIAL ADDRESS COUNTY field (2, .14111).8. The system shall read the string in the CONFIDENTIAL ADDRESS ZIP CODE field (2, .1416).9. The system shall read the number in the CONFIDENTIAL ADDR POSTAL CODE field (2, .14115).10. The system shall read the number in the CONFIDENTIAL ADDR COUNTRY field (2, .141165).11. The system shall read the internal FileMan date value in the CONFIDENTIAL START DATE field (2, .1417).12. The system shall read the internal FileMan date in the CONFIDENTIAL END DATE field (2, .1418).13. The system shall read the string value in the CONFIDENTIAL PHONE NUMBER START DATE field (2, .1417).14. The system shall read the CONFIDENTIAL ADDRESS CATEGORY sub-file (2.141, .01) when the CONFIDENTIAL CATEGORY ACTIVE field (2.141, 1) is YES=1.15. The system shall return a result array populated with the identified patient's confidential address data from Vista.<ol style="list-style-type: none">1. The result array fields shall be populated with "NULL" when Vista data is "NULL".

2.6.3.8.6 15489 Primary Care Team

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.37	<p>(15489) Primary Care Team.</p> <ol style="list-style-type: none"> The system shall call PCDETAIL^ORWPT1 with the patient's DFN. The system shall accept the data values generated by routine PCDETAIL^ORWPT1: <ol style="list-style-type: none"> PRIMARY CARE TEAM NAME PRIMARY CARE TEAM TELEPHONE NUMBER PRIMARY CARE PROVIDER NAME PRIMARY CARE PROVIDER ANALOG PAGER PRIMARY CARE PROVIDER DIGITAL PAGER PRIMARY CARE PROVIDER OFFICE PHONE PRIMARY CARE ASSOCIATE PROVIDER NAME PRIMARY CARE ASSOCIATE PROVIDER ANALOG PAGER PRIMARY CARE ASSOCIATE PROVIDER DIGITAL PAGER PRIMARY CARE ASSOCIATE PROVIDER OFFICE PHONE PRIMARY CARE ATTENDING PHYSICIAN NAME PRIMARY CARE ATTENDING PHYSICIAN ANALOG PAGER PRIMARY CARE ATTENDING PHYSICIAN DIGITAL PAGER PRIMARY CARE ATTENDING PHYSICIAN OFFICE PHONE PRIMARY CARE INPATIENT PROVIDER NAME PRIMARY CARE INPATIENT PROVIDER ANALOG PAGER PRIMARY CARE INPATIENT PROVIDER DIGITAL PAGER PRIMARY CARE INPATIENT PROVIDER OFFICE PHONE PRIMARY CARE MENTAL HEALTH PROVIDER NAME PRIMARY CARE MENTAL HEALTH PROVIDER ANALOG PAGER PRIMARY CARE MENTAL HEALTH PROVIDER DIGITAL PAGER PRIMARY CARE MENTAL HEALTH PROVIDER OFFICE PHONE. The system shall return a result array populated with the identified patient's primary care team data accepted from VistA. <ol style="list-style-type: none"> The result array fields shall be populated with "NULL" when VistA data is "NULL".

2.6.3.8.7 Flags/Environmental Indicators

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.38	<p>(15472) Environmental Indicators.</p> <ol style="list-style-type: none"> The system shall call SVC^VADPT with the patient's DFN. The system shall read the VASV result array with the patient's data from VistA. <ol style="list-style-type: none"> The system shall read the value in VASV(2) for AGENT ORANGE EXPOSURE INDICATED (YES=1 and NO=0). The system shall read the FileMan date in VASV(2,1) for the AGENT ORANGE REGISTRATION DATE. The system shall read the FileMan date VASV(2,2) for the AGENT ORANGE EXAMINATION DATE. The system shall read the value in VASV(3) for RADIATION EXPOSURE INDICATED (YES=1 and NO=0). The system shall read the FileMan date in VASV(3,1) for the RADIATION REGISTRATION DATE. The system shall read the internal FileMan date in VASV(3,2) for the RADIATION EXPOSURE METHOD. The system shall read the value in VASV(14,1) for PROJ 112/SHAD (YES=1 and NO=0).

	<ol style="list-style-type: none"> 8. The system shall read the value stored in the SOUTHEAST ASIA CONDITIONS field ("E";13) from the PATIENT ENROLLMENT file (#27.11) (YES=1 and NO=0). 3. The system shall return a result array populated with the identified patient's environmental indicator data read. <ol style="list-style-type: none"> 1. The result array fields shall be populated with "NULL" when VistA data is "NULL".
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2.6.3.8.7.1 15475 Fugitive Felon

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.39	<p>(15475) Fugitive Felon Status.</p> <ol style="list-style-type: none"> 1. The system shall read the FUGITIVE FELON FLAG field (#2, 1100.01) in PATIENT file (#2) (YES=1 and NO=0). 2. The system shall return a result array populated with the identified patient's environmental indicator data accepted from VistA. <ol style="list-style-type: none"> 1. The result array fields shall be populated with "NULL" when VistA data is "NULL".

2.6.3.8.7.2 15487 Missing Person

REQUIREMENT NUMBER	REQUIREMENT
2.6.3.40	<p>(15487) Missing Person: The system shall return the patient's missing person information from PATIENT file (#2).</p> <ol style="list-style-type: none"> 1. The system shall read the FileMan date in the MISSING PERSON DATE field (2, .153). 2. The system shall read the word processing data in the MISSING OR INELIGIBLE field (#2, .16) in PATIENT file (#2). 3. The system shall read the MISSING PERSON TWX SOURCE field (#2, .1657) in the PATIENT file (#2) (1 = "VAMC", 2 = "REGIONAL OFFICE", 3 = "RPC"). 4. The system shall read the string in the MISSING PERSON TWX CITY field (#2, .1658). 5. The system shall read the state name value stored in NAME field (#5,.01) in STATE file (#5) pointed to by the MISSING PERSON TWX STATE field (#2,.1659). 6. The system shall return a result array populated with the identified patient's missing person data from VistA. <ol style="list-style-type: none"> 1. The result array fields shall be populated with "NULL" when VistA data is "NULL".

2.6.4 Specimen/Wristband Label (Vista Printing Phase 2)

REQUIREMENT NUMBER	REQUIREMENT
2.6.4.1	<p>(BR 11022) The system shall provide a RPC to print patient Label to affix on specimen container.</p> <ol style="list-style-type: none"> 1. The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). 2. The system shall require a patient identifier of the specified patient identifier type. <ol style="list-style-type: none"> 1. The system shall return the message <i>"Invalid identifier type."</i> when the patient

	<p>identifier is not populated with a valid patient identifier type.</p> <ol style="list-style-type: none"> The system shall return the message <i>"Patient identifier required."</i> when the patient identifier is not populated. The system shall return <i>"No data found for patient"</i>, when the patient identifier is not found in PATIENT file (#2). (BR11026) The system shall accept type of barcode to print patient identifier (valid type is SSN or Department of Defense Electronic Data Interchange Personnel Identifier (EDIPI)) (BR11022) The system shall require type of barcode type SSN =Social Security or EDIPI=Department of Defense Electronic Data Interchange Personnel Identifier (BR11022)The system shall accept Include location flag - 0 (exclude) or 1 (include). (BR11022)The system shall accept label count (number of labels to print). Valid count is 1 to 250. (BR11022)The system shall accept maximum lines per label. Valid number of lines is 6 to 25. (BR11022)The system shall accept output device. (BR11022) The system shall print patient Label. (BR11042) The system shall return successful or failed message.
2.6.4.2	(BR11046) The shall provide the ability to print VA approved Bar Code for use with BCMA and other applications that leverage Bar Codes.
2.6.4.3	<p>The system shall provide a RPC to print Patient Wristband Label.</p> <ol style="list-style-type: none"> The system shall require a patient identifier type (SSN="Social Security Number", DFN="VistA Internal Patient ID", ICN="VHA Integration Control Number", VIC/CAC="Veterans Identification Card/Common Access Card"). The system shall require a patient identifier of the specified patient identifier type. <ol style="list-style-type: none"> The system shall return the message <i>"Invalid identifier type."</i> when the patient identifier is not populated with a valid patient identifier type. The system shall return the message <i>"Patient identifier required."</i> when the patient identifier is not populated. The system shall return <i>"No data found for patient"</i>, when the patient identifier is not found in PATIENT file (#2). (BR11026) The system shall accept type of barcode to print patient identifier (valid type is SSN or Department of Defense Electronic Data Interchange Personnel Identifier (EDIPI)) (BR11026) The system shall print patient wristband Label. (BR11049) The system shall provide the ability to print EDIPI as a barcode on the wristband Label. (BR11042) The system shall return successful or failed message. (BR11046) The system shall provide the ability to print VA approved Bar Code for use with BCMA and other applications that leverage Bar Codes.
2.6.4.4	<p>The System shall call an existing CPRS RPC to read a list of VistA printers for configuration by the VetLink Admin application.</p> <ol style="list-style-type: none"> (BR11040) System shall return list of VistA printers.

2.7 Graphical User Interface (GUI) Specifications

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

2.8 Multi-Divisional Specifications

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

2.9 Performance Specifications

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

2.10 Quality Attributes Specifications

VistA RPCs implemented in VPS*1*4 will be publically available to external VistA packages by means of APIs. Access to VPS RPCs will be through VistA RPC Broker calls.

2.11 Reliability Specifications

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

2.12 Scope Integration

The VPS*1*4 interfaces with VetLink is through TCP/IP connections to a VistA RPC Broker client using the existing VPS user context, VPS KIOSK INTERFACE and silent login.

VPS*1*4 interfaces with the VistA RPC Broker server. The VistA RPC Broker server executes the VPS*1*4 RPCs (M code) and passes back return values to the VistA RPC Broker client. All VPS *1*4 RPC calls will be registered and stored in the common REMOTE PROCEDURE file.

VPS*1*4 will read VistA database files routines to provide the data identified in section 2.6 Functional Specification. Table 3 lists the VistA files and their field elements to be used by VPS*1*4.

Table 3: VPS VistA File Access

VistA File	Field Elements (Read Access)	IA/ICR
PATIENT (#2)	ELIGIBILITY STATUS DATE #.3612 MEANS TEST STATUS #.14 PERIOD OF SERVICE (.32,2) FUGITIVE FELON FLAG #1100.01 PATIENT TYPE #391 POW STATUS #.525 POW CONFINEMENT LOCATION #.526 POW FROM DATE #.527 POW TO DATE #.528 POW STATUS VERIFIED #.529 CURRENT PH INDICATOR #.531 CURRENT PURPLE HEART STATUS #.532 CURRENT PURPLE HEART REMARKS #.533 EXCLUDE FROM FACILITY DIR #109 ENROLLMENT CLINIC (#2.001)	Supported 10035 Supported 10035 Supported 10061 new request supported 10061 supported 10061 supported 10061 supported 10061 supported 10061 supported 10061 supported 10061 supported 10061 supported 10061 New Request New Request

Vista File	Field Elements (Read Access)	IA/ICR
	CLINIC #.01 STATUS #3 NOSHOW/CANCELLED BY #14 NO SHOW/CANCELLED DATE/TIME #15 CANCELLATION REASON #16 CANCELLATION REMARKS #17	Supported 4433 Supported 4433 Supported 4433 Supported 4433 Supported 4433 Supported 4433
DEVICE (#3.5)	Global: ^%ZIS(1)	Supported 10114
DOMAIN (#4.2)	global: ^DIC(4.2)	Controlled 248
STATE (#5)	NAME #.01	Supported 10056
PACKAGE FILE (#9.4)	IEN #181	Supported 10048
PRIMARY ELIGIBILITY CODE (#8)	NAME #.02	Controlled 427
PERIOD OF SERVICE (#21)	NAME .01	Controlled 913
POW PERIOD (#22)	NAME #.01	private 935
BRANCH OF SERVICE (#23)	NAME #.01	Controlled 1385
PATIENT ENROLLMENT (#27.11)	PRIMARY ELIGIBILITY CODE #.368 SERVICE CONNECTED? #.301 SERVICE CONNECTED PERCENTATE #.302 AEL;0 ENROLLMENT DATE #.1 EFFECTIVE DATE #.08 ENROLLMENT PRIORITY #7 SOUTHWEST ASIA CONDITIONS ("E",13)	Supported 2462 Supported 2462 Supported 2462 Supported 2462 Supported 2462 Supported 2462 Supported 2462
DISABILITY CONDITION (#31)	NAME #.01	controlled 142
HOSPITAL LOCATION (#44)	NAME #.01	Supported 10040 (VPS subscribed)
ORDER (#100)	ORDER ITEMS #.1 ORDER # .01 STATUS #5 PATIENT APPOINTMENT #16	new request
URGENCY FILE (#62.05)	URGENCY #.01	new request
HOWDY SITE FILE (#69.86)	SITE #.01 PRINTER #	new request
LABEL PRINTERS (#69.863)	PRINTER #.01	new request
ICD DIAGNOSIS (#80)	NAME #.01	supported 5388
NEW PERSON (#200)	IEN # NAME #.01	Supported 10060
BILLING PATIENT (#354)	COPAY INCOME EXEMPTION STATUS #.04	new request
TYPE OF PATIENT (#391)	NAME #.01	Controlled 1112
ANNUAL MEANS	HARDSHIP #.2	private 968

VistA File	Field Elements (Read Access)	IA/ICR
TEST (#408.31)		
MEANS TEST STATUS (#408.32)	NAME #.01	Private 4941
CANCELLATION REASONS (#409.2)	NAME #.01	new request
EXPRESSIONS (#757.01)	DISPLAYABLE TEXT #.01	Supported 457
REMINDER DEFINITION (#811.9)	PRIORITY #1.91 PRINT NAME #1.2 INACTIVE FLAG #1.6 USAGE #103	Controlled 2182 Controlled 2182 Controlled 2182 new request
PROBLEM (#9000011)	DIAGNOSIS #.01 DATE LAST MODIFIED #.03 PROVIDER NARRATIVE #.05 FACILITY #.06 DATE ENTERED #.08 STATUS #.12 PROBLEM #1.01 CONDITION #1.02 ENTERED BY #1.03 RECORDING PROVIDER #1.04 RESPONSIBLE PROVIDER #1.05 ^AUPNPROB("AC",)	Private 326 Private 326 Private 326 Private 326 Private 326 Private 326 Private 326 Private 326 Private 326 Private 326 Private 326 Private 326
PROVIDER NARRATIVE (#9999999.27)	PROVIDER NARRATIVE #.01	Private 326

VPS*1*4 will call external VistA package routines to provide functionality as identified in section 2.6 Functional Specification. Table 4 lists the VistA files and their field elements to be used by VPS*1*4.

Table 4: VistA External Routines Called

VistA Routine References	VistA DB IA#	Type
INP^VADPT	IA 10061	Supported
SET^DGPWB DIVISION^DGPWB	IA 5905	Private
OPEN^%ZISUTL USE ^%ZISUTL CLOSE ^%ZISUTL	IA 2119	Supported
RPCVIC^DPTLK	IA 5888	Supported
GETDFN^MPIF001	IA 2701	Supported
SVC^VADPT	IA	Supported
PCDETAIL^ORWPT1	IA	New Request

2.13 Security Specifications

Security controls for Enhanced VPS Kiosk RPCs will be provided by VistA and VistA RPC Broker. No additional security controls are required.

2.14 System Features

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

2.15 Usability Specifications

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

3 Applicable Standards

This project will adhere to the [“SAC The Department of Veterans Affairs M Programming Standards and Conventions Revised 04/03/2007”](#) established by the VA VistA Standards and Conventions Committee (SACC).

This project will adhere to Enterprise Identity Management requirements for features that add, edit, or perform lookups on persons (patients, practitioners, employees, IT Users) to systems within the VHA.

The project shall be designed to conform to the guidelines set forth by the Standard Unique Health Identifier for Health Care Providers Final Rule (Health Insurance Portability and Accountability Act (HIPAA) Final Rule.

4 Interfaces

4.1 Communications Interfaces

The system shall operate synchronously and asynchronously with respect to VistA instances.

4.2 Hardware Interfaces

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

4.3 Software Interfaces

The system shall operate in a VistA environment. VistA instances may be located locally at a VA facility or remote data center as either an integrated or non-integrated site.

Access to the system will be by means of VistA RPCs. The RPCs provided by the system will be public and accessible to internal and external applications and services through public application programming interfaces.

4.4 User Interfaces

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

5 Legal, Copyright, and Other Notices

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

6 Purchased Components

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

7 User Class Characteristics

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

8 Estimation

This section is not applicable to the VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*4 project.

9 APPROVAL SIGNATURES

Signed:

Date:



IPT Chair and IT Project Manager

Signed:

Date:



Business Sponsor

A. Use Case Specification

VPS*1*4 Use Case Specification is addressed in separate document: TBD