

VHA Point of Service (VPS) Kiosks Phase II

System Design Document

for

Enhancement VPS*1*3, VPS*1*4 and VPS*1*5



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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, and in the future allow for presentation to support multiple languages. They also help improve process efficiencies by increasing 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 critical 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 System Design Document (SDD) translates the requirements listed in the corresponding Requirements Specification Document (RSD) into technical design specifications. It identifies the system architecture, describes hardware, software, communication, and interface components.

The intended audience of this document includes the Product Development (PD), Software Quality Assurance (SQA), the CBO, and staff at the Office of Information & Technology (OI&T)

This SDD 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. This document covers VPS*1*3, VPS*1*4 and VPS*1*5. Separate SDDs will address AVS and VSS integration.

1.2 Identification

This document provides information about VHA Point of Service (Kiosks) Phase II Enhancement VPS*1*3, VPS*1*4 and VPS*1*5.

1.3 Scope

Features and capabilities identified and described in this document are intended to support interaction with VHA administrative, patient management, and clinical systems as well as with other national VA systems.

The VPS system will utilize, wherever possible, the existing VistA Remote Procedure Broker implementation resident on all VistA instances. Access to VistA Remote Procedure Brokers and VA data sources will be facilitated by calls to the VistA RPC Broker software by RPCs.

The scope of VPS*1*3 will include:

1. **Medication Review & Allergy Review (MRAR):** In compliance with the VA National Medication Reconciliation Directive, during collection of a medication history, the provider must take an inventory of any medications the veteran procures from any source. This inventory includes medications from multiple VA repositories as well as medications in various status categories within CPRS. Over-the-counter medications, occasional use medications, herbal and alternative remedies, nutritional agents and supplements and prescription medications obtained from other providers comprise a complete inventory.

This effort is to analyze, define, and document the implementation design of MRAR module directed at improving patient safety and clinician access to patient information. The MRAR capability will deliver a VetLink-based solution that:

- Enables the patient to accurately report and verify their current medications and allergies
- Allows staff to view and verify patient medication and allergies
- Allows the clinician to access the patient's current self-reported current medications and allergies
- Allows the clinician to enter and/or update the patient's medications and allergies as needed (later phase)
- Allows CPRS users to retrieve MRAR information as Patient Data Object (PDO) and retained the information in a TIU note

The scope of VPS*1*4 will include:

1. **Howdy Computerized Phlebotomy Lab process (Howdy):** this effort is to analyze, define, and document the implementation design of the integration between the VPS program and the Howdy Traditional and Print at Point of Collection (PPOC) software.
2. **Clinical Reminders Integrating Kiosks (CRIK) – Phase 1:** this effort is to analyze, define, and document the implementation design of the integration between the VPS program and Clinical Reminders. This integration is intended to improve delivery of a patient care preventative health component and clinician access to patient information. The Clinical Reminders function helps remind the patient and clinician of important care needed so preventative health care can be arranged.
3. **Enhanced VPS Get Patient Demographics RPC:** VetLink currently receives 100+ data elements from VistA for each patient being serviced during a kiosk interaction. This work effort would analyze, define, and document the implementation design of the additional data elements to the current call and/or create an additional call specific to the grouping of information (i.e., a Orders only RPC) being requested from VistA.
4. **Specimen / Wristband Label (Vista Printing Phase 2):** this effort is to analyze, define, and document the implementation design of the integration between the VPS program and existing wristband printing and label printing (i.e., specimen labels). The print jobs would also have

additional elements added to them, to include barcodes in instances where none yet exist. The integration will allow the kiosk server to initiate additional VistA print jobs at the kiosk group level and/or the clinic level.

The scope of VPS*1*5 will include:

1. **Appointment Status Integration:** this effort is to analyze, define, and document the implementation design of the integration between the VPS program and existing VistA appointment module. This provides staff with the ability to use VetLink to easily see appointments, by using the staff-friendly GUI, pertinent to them and their user template. A bi-directional exchange of appointment statuses between VistA and VetLink will be built such that VetLink can be kept apprised of appointments in various statuses to include not checked in, checked in, partially checked out, checked out, canceled, no-showed, etc.
2. **Clinical Surveys:** this effort is to analyze, define, and document the implementation design of new Clinical Screening Questionnaires (CSQ) module intended to improve delivery of a patient care preventative health component and clinician access to patient information. Clinical Screening Questionnaires will improve the current process by efficiently allowing the patient to accurately self-report on areas of concern to our Veteran population by completing the appropriate questionnaire during their clinic visit. This module will allow the patient to accurately discuss and verify their past and current clinical assessments history and this will help identify any preventative care actions needed by the clinical staff during the current visit and/or perform any necessary interventions or referrals.

1.4 Constraining Policies, Directives and Procedures

This SDD is constrained by the following policies, directives, artifacts, and procedures.

Policies and Directives:

- PMAS Guide v4.0, (VAIQ 7023849) Assistant Secretary for Information and Technology (005) Release Memorandum, dated September 17, 2010
- SEDR Process
- One-VA TRM – Data, Service, Technical (FSAM)
- PMAS Project Documentation Portal
- C&A Division Webpage

VA-generated Artifacts:

- Business Requirements Document
- Project Charter

VA Standard Procedures:

- ProPath Version 8, PRP-2.3, Create System Design Document
- PMAS Readiness Checklist

1.5 User Characteristics

Not applicable - VPS*1*3, VPS*1*4, and VPS*1*5 are machine-to-machine interface only.

1.6 Relationship to Other Documents and Plans

This document is part of a document set that, together, help define VPS*1*3, VPS*1*4, and VPS*1*5:

1. Acceptance Criteria Plan
2. Contract Information
3. Integrated Project Team Charter
4. Enterprise Project Structure
5. Outcome Statement
6. Project Charter
7. Project Management Plan
8. Project Quad Chart
9. Project Schedule
10. Veterans Point of Service (VPS) Requirements Specification Document (RSD) for VPS*1*3, VPS*1*4, and VPS*1*5
11. Risk Log
12. System Design Document

1.7 Definitions, Acronyms, and Abbreviations

Definitions, acronyms, and abbreviations can be found in Appendix A.4.

1.8 References

- VHA Point of Service (Kiosks) Phase II FY14 OIT PD BRD, Version 2.0 (May 2014)
- 20090210 VHA Point-of-Service Initiative BRD, Version 1.6 (May 2009)
- Howdy Computerized Phlebotomy Login Process C3-C1 Conversion Project Technical Manual, Laboratory Patch LR*5.2*405 (January 2012)
- Clinical Reminders Version 2.0 PRXM*2.0*4 Technical Manual (October 2006)
- Patient Information Management Systems (PIMS) Patient Registration, Admission, Discharge, Transfer, and Appointment Scheduling Technical Manual, (November 2013)
- VPS Phase II Enhancement VPS*1*3, VPS*1*4, and VPS*1*5 RSD, Version 0.05 (August 2014)

2 Background

The VHA has identified that kiosks, as a process transformation, offer the opportunity to introduce significant business improvements in various process areas. 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 in the future 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 allows customers to perform multiple

transactions without having to engage different VA staff multiple times. Kiosks also improve collection of critical information because of the sense of increased privacy by the Veterans when entering the information into a kiosk instead of to a staff member.

2.1 Overview of the System

The VPS system supports an end-to-end patient self-service appointment check-in process. The point of service system supports interaction with VHA administrative, patient management and clinical systems.

The point of service system interacts with core VHA systems/processes. In the notional process view, a patient seeks care from VA. Upon arrival at a VA Health Care facility, a patient will access the kiosk system, perform required data updates, and review processes in a self-service manner. The patient verifies their identity and authority to access the kiosk system through a secure authorization process. The patient will verify certain personal demographic and insurance information and provide updates where needed.

The Enhancement VPS*1*3, VPS*1*4, and VPS*1*5 offer the opportunity to introduce enhanced business and patient service improvements in various process areas. In terms of self-service and improved customer service, the enhancements reduce the need for staff to manually retrieve patient data using legacy VistA “roll and scroll” transactions, provides enhanced privacy in the collection of patient personal information, and provides process efficiencies during peak bandwidth periods.

The VPS*1*3 effort provides mechanism for veterans and staff to review and report information regarding veterans’ medications and allergies. The implementation of this MRAR module is directed at improving patient safety and clinician access to patient information.

VPS*1*3 will provide RPCs to store medication review and allergy review conducted using veterans facing and staff facing applications and to retrieve the last MRAR for reporting purposes. Other statistical information such as date/time the veterans start and complete the review or section of reviews, reason of incomplete review, etc are also stored to assist administrator analyzing and impacting efficient use of VA staff time and resources. MRAR module also includes RPC to store historical update to Kiosk Parameters and another RPC to store TIU Note IEN to the last MRAR for the patient. The system will also provide mechanism to allow CPRS to retrieve the last MRAR through TIU Note and PDO.

The VPS*1.4 effort integrates VistA Howdy Computerized Phlebotomy Lab Process Integration, Clinical Reminder Integration functionality with VPS Kiosks, expands the data elements of the VPS GET PATIENT DEMOGRAPHICS RPC, and provides new specimen and wristband label printing capabilities.

With enhancement VPS*1*4, the patient will have additional information available for them such as orders, consults, appointment statuses, etc. VPS*1*4 will also disclose their clinical reminders to help patient to recall all their issues during that visit. The patient will view selected appointments and perform various actions on those appointments.

The check-in activity by the patient will trigger updates to visit and demographic data and verify inclusion of the patient on the Bingo board report. A separate kiosk configuration will allow a patient to complete a post-appointment satisfaction survey.

With enhancement VPS*1*4, VPS system will also support HOWDY processes. It will allow patient to perform accessioning of ordered lab tests and specimen label printing after check-in process.

VPS*1*4 system will also provide specimen and wristband label printing functionalities. Staff can initiate the printing jobs at the kiosk group level and/or clinic level.

The VPS*1*5 effort integrates VistA appointment to provide staff to easily see appointments in various statuses and designs a new Clinical Screening Questionnaires (CSQ) module intended to improve delivery

of a patient care preventative health component and clinician access to patient information. Overview of the Business Process

VPS*1*5 will provide RPCs and HL7 messages to integrate VetLink with VistA Appointment module. The system will provide Vetlink's Patient Queue view with the information to display patients' appointments who were checked in not only through VetLink but through VistA as well. RPCs provides on-demand appointment status update while HL7 messages provides real-time update from appointment events to VetLink. These statuses include but not limited to not checked in, checked in, partially checked out, checked out, canceled, no-showed, etc.

VPS*1*5 will also implement a new Clinical Screening Questionnaires (CSQ) module to improve delivery of a patient care preventative health component and clinician access to patient information. CSQ will improve the current process by efficiently allowing the patient to accurately self-report on areas of concern to our Veteran population by completing the appropriate questionnaire during their clinic visit. This new module will allow the patient to accurately discuss and verify their past and current clinical assessments history and this will help identify any preventative care actions needed by the clinical staff during the current visit and/or perform any necessary interventions or referrals.

2.2 Business Benefits

Patients' comfort level with information technology and the desire to be more involved in their health care process is increasing. Currently, patients must engage support staff in every step of the process as part of their visit to a facility, which impacts the time staff can focus on solving issues and working non-routine activities. The capture and update of key demographic and insurance information is not always completed.

Having some level of control and a visual response that can be provided by kiosk stations can lead to increased satisfaction of our patients visit. The ability to allow the patient to complete routine tasks via self-service will free up support staff to focus on issues that are more complex. VHA is seeing an increase in the utilization of Point of Service Software via kiosks; however, there is no nationwide regulation of services or standards resulting in kiosk services not being implemented consistently throughout the country.

A nationwide regulation would bring about:

1. Improved veteran satisfaction
2. Improved veteran access to healthcare information
3. Improved currency of patient demographic, insurance and administrative information
4. Improved efficiency of VAMC based administrative processes
5. Reduced costs to collect first party revenue

Standardized implementation of kiosks nationwide allows efficient flow of patients throughout the facility while enabling the ability to capture key demographic and insurance information through patient self-service.

2.3 Assumptions and Constraints

2.3.1 Design Assumptions

This section identifies assumptions for the VPS System. Table 1 provides a grouped listing of assumptions.

Table 1 – Assumptions

Group	Name	Description
Vista	Patient Data Authoritativeness	VistA system will serve as the authoritative source for demographic, enrollment, appointment, clinical reminders, lab order, and health information utilized by point of service transactions.
	Vista changes	Implementation should require minimal changes to authoritative systems. Phase II should require few if any changes and subsequent phases may increase the scope of requested changes to authoritative systems but should look to utilize existing functionality where it is currently available and sufficient.
Integration	Services Integration	Point of Service kiosk system will integrate with RPC Broker software to access existing legacy VistA including enrollment, identity management, medication, adverse reaction file, pharmacy, and demographics services. The integration with VistA appointment module will also require HL7 interface triggered by appointment events to provide real-time update to VetLink.
Program Governance	Business Review	VPS PMO will review / approve design-development artifacts, to include iteration/release plans, design artifacts, traceability artifacts. Additionally, VPS PMO will coordinate acceptance testing, procurement deliverables, and implementation assistance and planning.
	Architectural Review	Eventual design artifacts derived from identified capabilities and subsequent detailed use cases will be subject to review/approval by applicable review architectural review authorities.

2.3.2 Design Constraints

VPS*1*3, VPS*1*4, and VPS*1*5 will leverage 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 Massachusetts General Hospital Utility Multi-Programming System (MUMPS).

The VPS*1*3, VPS*1*4, and VPS*1*5 RPCs will apply no data transformations. All data read and written will be in FileMan format.

For Appointment Status integration, VPS*1*5 will also use HL7 interface triggered by appointment events to send HL7 messages to VetLink HL7 server.

2.3.3 Design Trade-offs

Not applicable to the VPS Kiosk project.

2.4 Overview of the Significant Requirements

2.4.1 Overview of Significant Functional Requirements

The following Table 2 – shows the defined features, properties, or behaviors of the system.

Table 2 – Functional Requirements

Module	Discussion
Enhanced VPS GET Patient Demographics RPC	The VPS*1*4 system will add additional data elements to the current call and/or create an additional call specific to the grouping of information (i.e., an Orders only RPC) being requested from VistA. Examples include the patient's service-connected status, previous appointments, other meta-data relating to appointments (canceled date, user who canceled appointment, reason for cancelation, etc...), information about orders, consults, etc...
Howdy Computerized Phlebotomy Lab Process	The VPS*1*4 system will integrate Howdy Traditional and Print at Point of Collection (PPOC) process into the system. Traditional Howdy allows scanning of the patient Veteran Identification Card (VIC) with accessioning of ordered lab tests and immediate printing of specimen labels. Howdy PPOC allows scanning of the patient VIC card with accessioning of ordered lab test but no printing of specimen labels. Labels are printed at the time the phlebotomist collects the specimen. Both versions capture tracking times for turn-around times.
Clinical Reminder Integrating Kiosks (CRIK) – Phase 1	The VPS*1*4 system will integrate Clinical Reminder into the system. This will allow Veterans to view their clinical reminders. This will help patients to recall all their issues during the visit and give the opportunity for the patient to take advantage of any needed care during this visit.
Specimen / Wristband Label (VistA Printing Phase 2)	The VPS*1*4 system will provide additional VistA printing jobs (specifically wristband printing and specimen label printing) at the kiosk group level and/or the clinic level. The print jobs would use existing print routines but also have additional elements added to them, to include barcodes in instances where none yet exists. This would tie in to existing kiosk activity where a check-in may require additional print jobs.
Appointment Status Integration	The VPS*1*5 system will integrate Appointment entered through VistA into VetLink. VetLink may use RPCs to retrieve appointment status and date/time changes on-demand. For real-time update, the system will subscribe to SDAM APPOINTMENT EVENTS to send HL7 messages to VetLink.
Clinical Survey	The VPS*1*5 system will provide RPCs to store Clinical Screening Questionnaires (CSQ) and patient responses. The CSQ will be posed to Patients while checking-in on a tablet or VetLink kiosk that would be viewable to staff immediately upon completion or when specifically queried by staff.
Medication Review & Allergy Review	The VPS*1*3 system will provide RPCs to store Medication and Allergy review. MRAR improves communication between patient and provider. Statistical data such as date/time patient start and complete MRAR are gathered to enable administrator to analyze and device a plan for efficient use of VA staff time and resources.

2.4.2 Overview of Functional Workload / Performance Requirements

Functional workload/performance has not been identified at this time.

2.4.3 Overview of Operational Requirements

2.4.3.1 Scalability

System will be fully integrated via RPC Broker software and HL7 interface with existing systems within VistA. VistA instances may be located locally at the facility or in remote data centers as either an integrated or a single instance per site database.

2.4.3.2 Accuracy and Failure

The application will validate that data entered fully conforms to stated business rules. Any failure to meet system of record business rules will be considered an inaccurate entry.

2.4.4 Overview of the Technical Requirements

The project will be developed in accordance with the VistA architecture and the VA Technical Reference Mapping standards. Please refer to the following for the complete list of standards used:

[vistaarch/trm/index.asp](#).

2.4.5 Overview of the Security or Privacy Requirements

Requirements that will have to be taken into account are:

1. System will comply with all privacy and security features as mandated by VA, Federal, State, and Local regulations.
2. System will comply with federal guidelines on [PHI \(HIPAA\)](#).
3. Privacy - System will adhere to all [VA requirements for Release of Information \(ROI\)](#).

2.4.6 Overview of System Criticality and High Availability Requirements

VPS*1*3 and VPS*1*4 systems are RPC development project while VPS*1*5 system is using both RPC and existing HL7 interface. They will not impact the current system criticality and high availability.

2.4.7 Single Sign-on Requirement

VPS*1*3, VPS*1*4, and VPS*1*5 systems do not have any sign-on requirements.

2.4.8 Requirement for Use of Enterprise Portals

Use of Enterprise Portals requirements are not applicable for VPS*1*3, VPS*1*4, and VPS*1*5.

2.4.9 Special Device Requirements

There are no new special device requirements for VPS*1*3, VPS*1*4, and VPS*1*5.

2.5 Legacy System Retirement

Not applicable.

3 Conceptual Design

3.1 Conceptual Application Design

3.1.1 Application Context

The following Figure 2 represents the context in which the VPS*1*3 provides Application Programming Interfaces (API) to the Kiosk Server to retrieve from and store information into a VistA instance.

VPS*1*3 also provides mechanism to return MRAR data as PDO for CPRS to show the MRAR PDO through CPRS.

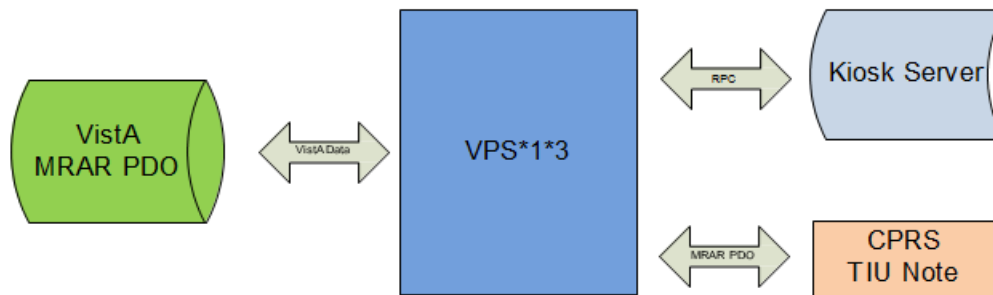


Figure 1 – VPS*1*3 Application Context Diagram

The following Figure 2 represents the context in which the VPS*1*4 provides Application Programming Interfaces (API) to the Kiosk Server to retrieve from and store information into a VistA instance.

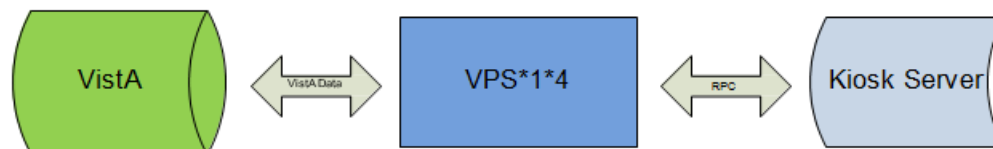


Figure 2 – VPS*1*4 Application Context Diagram

The following Figure 3 represents the context in which the VPS*1*5 provides Application Programming Interfaces (API) to the Kiosk Server to retrieve from and store information into a VistA instance. VPS*1*5 system is also sending HL7 messages to VetLink's HL7 Server during Appointment Status updates.

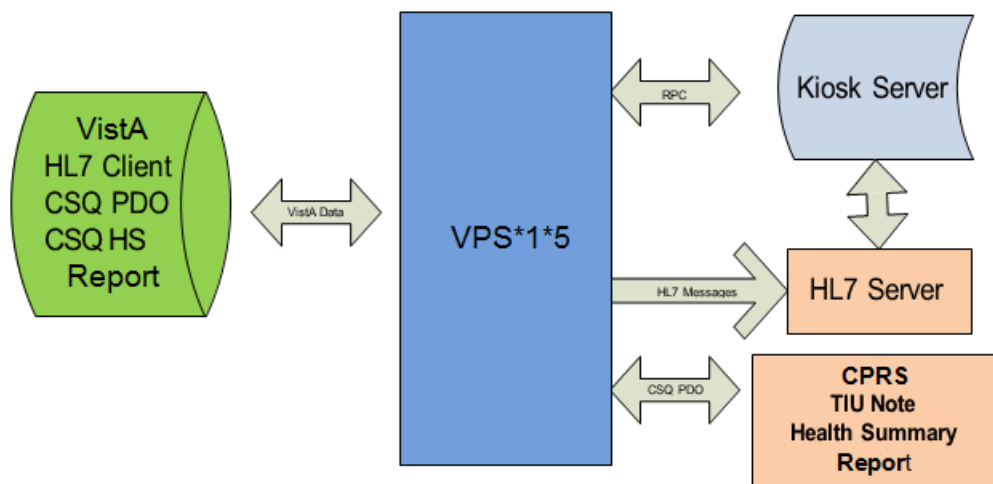


Figure 3 – VPS*1*5 - Application Context Diagram

3.1.2 High-Level Application Design

The VPS system will support interaction with VHA administrative, patient management, and clinical systems as well as with other national VA systems. VPS*1*3, VPS*1*4, and VPS*1*5 interact with legacy VistA applications.

The VPS system will integrate with RPC Broker software to access existing local integration brokers within VistA. HL7 interface is used to update VetLink in real-time for status update in appointments entered in VistA. Existing business rules and validations for data updates will be enforced for kiosk-entered data.

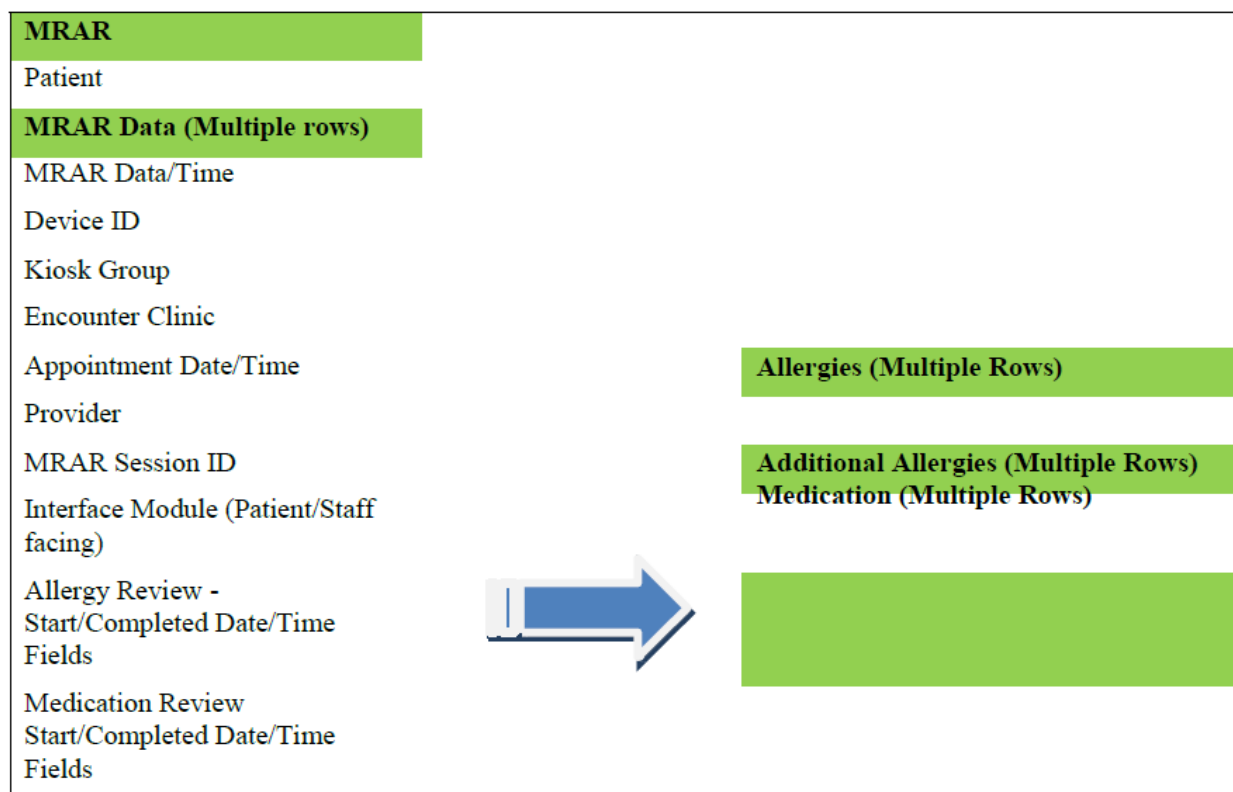
3.1.3 Application Locations

VPS*1*3, VPS*1*4, and VPS*1*5 will be located on VistA production servers across VAMC facilities.

3.2 Conceptual Data Design

3.2.1 Project Conceptual Data Model

VPS*1*3 system will require a file to store patient MRAR information and another file to store update history to the Kiosk parameters related to MRAR. The following Figure 4 through Figure 7 show the conceptual data models for these MRAR files.



PDO First/Next Invoked Date/Time fields	Additional Medication (Multiple Rows)
Other Allergy Unknown	
No Known Drug Allergy	
TIU Notes IEN	
MRAR Conducted With	

Figure 4 - MRAR Data Model

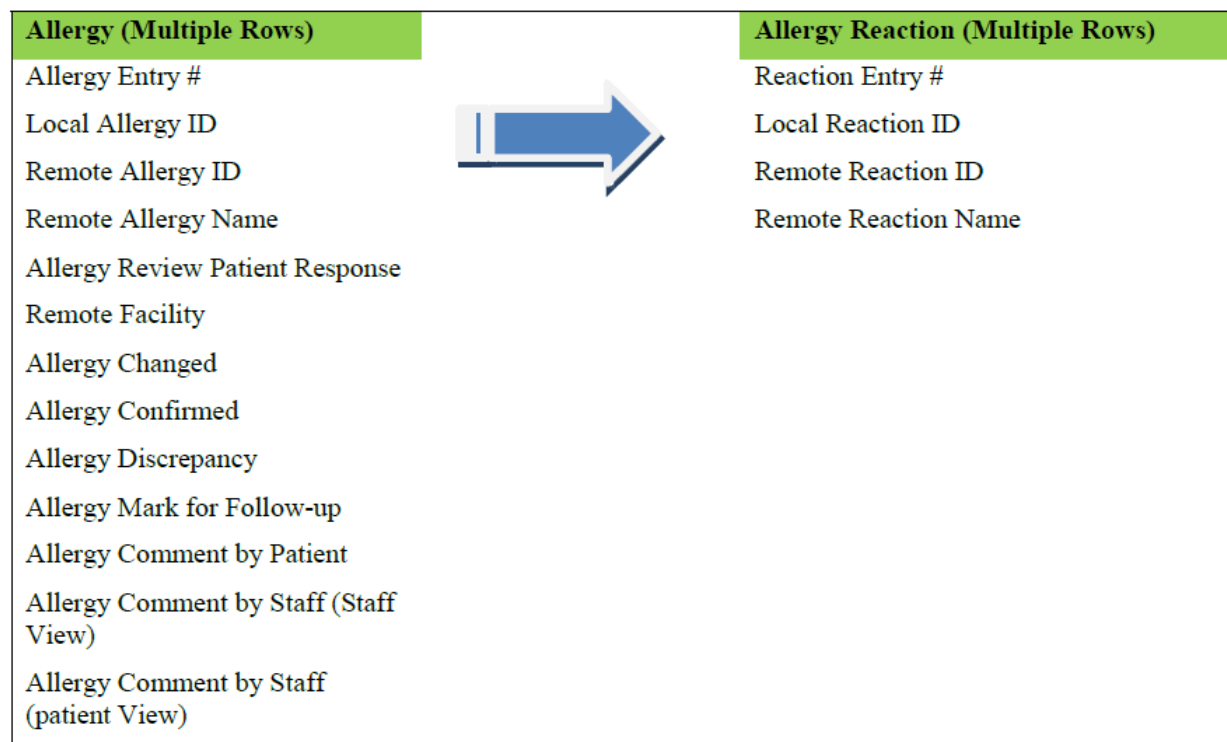
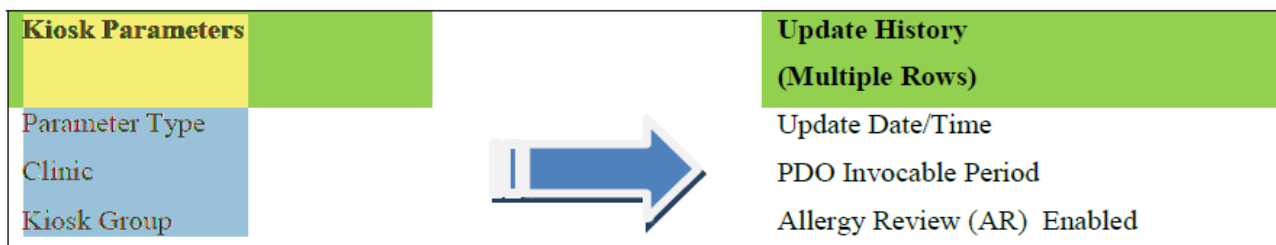


Figure 5 – MRAR Allergy Data Model

Additional Allergies (Multiple Rows)	Medication (Multiple Rows)	Additional Medication (Multiple Rows)
Additional Allergies Entry #	Medication Entry #	Additional Medication Entry #
Add Allergy Reaction (Staff)	Remote Prescription ID	Patient-Facing Additional Medication
Add Allergy Added By	Remote Provider Name	Additional Med Frequency (Patient)
Add Allergy-Mark for Follow-up	Remote Fill Location	Additional Med Direction (Patient)
Additional Allergy-VET (comments by patient)	Remote Last Fill Date	Additional Med Time (Patient)
Additional Allergy-PROVIDER (comments by provider)	Remote Days Supplied	Staff View Additional Medication

Remote #Refills Left	Vet View Additional Medication
Remote Next Fill Date	Vet Plans to discuss additional Med
Remote Med ID	Additional Med Dose (Staff)
Remote Medication Name	Additional Meds-Mark for follow-up
Remote RX Status	Additional Med Indication (staff)
Remote Med Dosage	Additional Med comments-staff view
Remote Med Dosage Form	Additional Med comments-vet view
Remote Med Route	
Remote Non-VA	
Remote Max Refills	
Med Image Indicator MR	
Meds-Mark for Followup	
Med Image Indicator Staff View	
Med Image Indicator Vet View	
MR Preset Patient Response	
Medication Discrepancy	
Medication Changed	
Medication Confirmed	
Remote Sig	
Medication Comments Patient (by patient)	
Medication Comments Staff View (by staff)	
Medication Comments Vet View (by staff)	

Figure 6 – MRAR Medication and Additional Allergy/Medication data Model



Date/Time
Medication Review (MR) Enabled
Date/Time
Audit Enabled Date/Time
AR Free text Enabled
MR Free Text Enabled
Time Limit Too Late Arrival
Time Limit Too Early Arrival
Time Limit Not Early Enough
Desired AMR Session Completed
Desired AMR Time Completed
Desired AR Session Completed
Desired AR Time Completed
Desired MR Session Completed
Desired MR Time Completed
Time Limit AR Complete
Time Limit MR Complete
Time Limit AMR Complete
Low use Threshold PDO
Allergy Discrep Upper Control Limit (UCL) No AR
Allergy Discrep Upper Control Limit (UCL) Post AR
Allergy Discrep Upper Control Limit (UCL) No MR
Allergy Discrep Upper Control Limit (UCL) Post MR
AMR INCOMPLETE REASON TYPE (multiple rows)
AMR INCOMPLETE REASON TYPE (multiple rows)
AMR INCOMPLETE REASON TYPE (multiple rows)

Figure 7 – Kiosk Parameters (Update History) Data Model

VPS*1*5 system will require a new file to store appointment information sent to VetLink .This will allow the RPC to send only appointments with changed statuses. For Clinical Survey, VPS*1*5 system will also

require a file to store patient clinical survey questionnaire. Figure 8 and Figure 9 show the conceptual data model for Appointment Status Integration and Clinical Survey respectively.



Figure 8 – Appointment Data Model

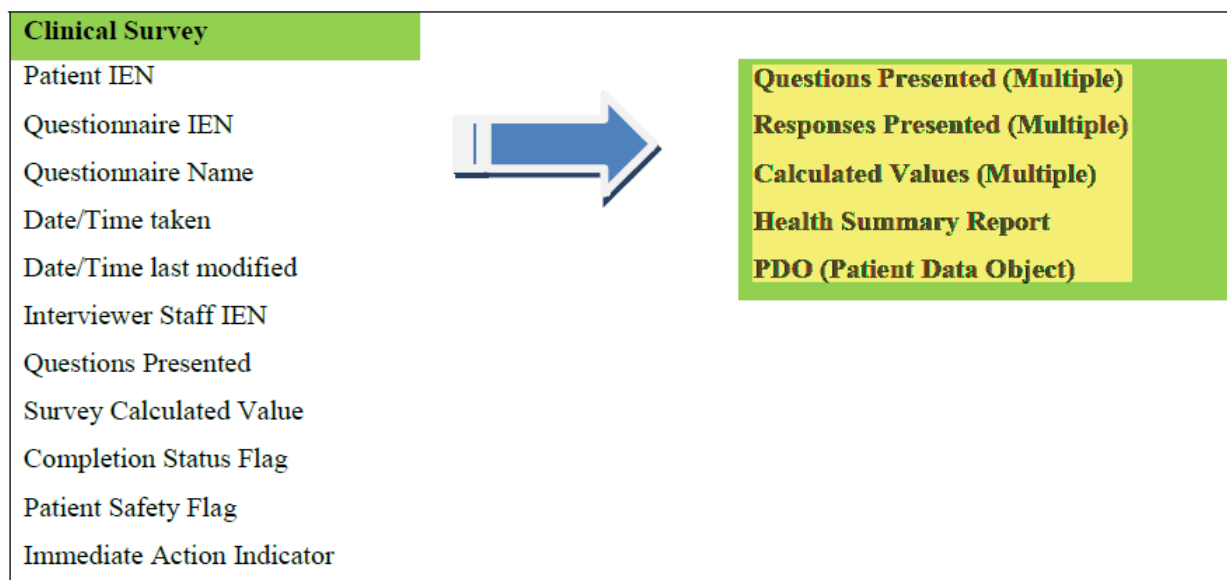


Figure 9 – Clinical Survey Questionnaire Data Model

3.2.2 Database Information

3.2.2.1 Medication Review and Allergy Review Data Dictionary

Patient facing and/or Staff facing MRAR application will call MRAR RPCs to store their reviews into VPS MRAR PDO file. This file also contains statistical information that can be analyzed to improve use of VA staff time and resources. The following Figure 10 shows VistA Data Dictionary for VPS MRAR PDO.

STANDARD DATA DICTIONARY #853.5 -- VPS MRAR PDO FILE			
SEP 17,2014@14:57:41 PAGE 1			
STORED IN ^VPS(853.5, (12 ENTRIES)	SITE: V		UCI: V
AB,VAA	(VERSION 1.0)		

DATA	NAME	GLOBAL	DATA
ELEMENT	TITLE	LOCATION	TYPE

This is the Data file for the VA Point of Service (VPS) kiosk application. Data is stored using VPS remote procedure calls that are invoked by the Vetlink Kiosk (patient-facing) or staff-facing client interface. The Vetlink system is used by the patient or staff resource at the medical center or clinic. One of the functions of the Vetlink system is for the patient/provider review of the patient's medication history and allergy history. Each review is saved by Vetlink and then sent to Vista for storage using RPC Broker.

The data stored in this file is sorted by PATIENT where each patient entry has one or more Medication Review Allergy Review (MRAR) session instances and these MRAR instances are sorted by transaction date/time. Each session represents a complete or incomplete MRAR.

(NOTE: Kernel's File Access Security has been installed in this UCL)

CROSS

REFERENCED BY: PATIENT(B)

853.5,.01	PATIENT	0;1 POINTER TO PATIENT FILE (#2)
	(Required)	

INPUT TRANSFORM: S DINUM=X Q

LAST EDITED: DEC 27, 2012

HELP-PROMPT: Select the patient.

DESCRIPTION:

This is the patient that the MRAR belongs to.

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<p>This is the Data file for the VA Point of Service (VPS) kiosk application.</p> <p>Data is stored using VPS remote procedure calls that are invoked by the Vetlink Kiosk (patient-facing) or staff-facing client interface. The Vetlink system is used by the patient or staff resource at the medical center or clinic. One of the functions of the Vetlink system is for the patient/provider review of the patient's medication history and allergy history. Each review is saved by Vetlink and then sent to VistA for storage using RPC Broker.</p> <p>The data stored in this file is sorted by PATIENT where each patient entry has one or more Medication Review Allergy Review (MRAR) session instances and these MRAR instances are sorted by transaction date/time. Each session represents a complete or incomplete MRAR.</p> <p>(NOTE: Kernel's File Access Security has been installed in this UCL)</p>			
CROSS			
REFERENCED BY: PATIENT(B)			
853.5,.01	PATIENT (Required)	0;1	POINTER TO PATIENT FILE (#2)
INPUT TRANSFORM: S DINUM=X Q			
LAST EDITED: DEC 27, 2012			
HELP-PROMPT: Select the patient.			
DESCRIPTION:			
This is the patient that the MRAR belongs to.			

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<p>This is the Data file for the VA Point of Service (VPS) kiosk application.</p> <p>Data is stored using VPS remote procedure calls that are invoked by the Vetlink Kiosk (patient-facing) or staff-facing client interface. The Vetlink system is used by the patient or staff resource at the medical center or clinic. One of the functions of the Vetlink system is for the patient/provider review of the patient's medication history and allergy history. Each review is saved by Vetlink and then sent to VistA for storage using RPC Broker.</p> <p>The data stored in this file is sorted by PATIENT where each patient entry has one or more Medication Review Allergy Review (MRAR) session instances and these MRAR instances are sorted by transaction date/time. Each session represents a complete or incomplete MRAR.</p> <p>(NOTE: Kernel's File Access Security has been installed in this UCL)</p>			
CROSS			
REFERENCED BY: PATIENT(B)			
853.5,.01	PATIENT (Required)	0;1	POINTER TO PATIENT FILE (#2)
<p>INPUT TRANSFORM: S DINUM=X Q</p> <p>LAST EDITED: DEC 27, 2012</p> <p>HELP-PROMPT: Select the patient.</p> <p>DESCRIPTION:</p> <p>This is the patient that the MRAR belongs to.</p>			

TECHNICAL DESCR: Since this value is DINUM, this field
represents the root IEN for this file as well.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE: 853.5^B

1)= S ^VPS(853.5,"B",\$E(X,1,30),DA)=""

2)= K ^VPS(853.5,"B",\$E(X,1,30),DA)

853.5,20 MRAR INSTANCE MRAR;0 DATE Multiple #853.51
(Add New Entry without Asking)

DESCRIPTION: This multiple field contains MRAR transactions
sent by Vetlink to VistA.

TECHNICAL DESCR: Every MRAR transaction is performed for a
patient using Vetlink patient or staff facing
module. This MRAR will be stored in this level.

853.51,.01 TRXN DATE/TIME 0;1 DATE (Required)

INPUT TRANSFORM: S %DT="ETX" D ^%DT S X=Y K:X<1 X S DINUM=X Q

LAST EDITED: DEC 27, 2012

HELP-PROMPT: Enter the transaction date/time.

DESCRIPTION:

This is the date/time of the transaction.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE: 853.51^B

1)= S ^VPS(853.5,DA(1),"MRAR","B",\$E(X,1,30),DA

)=""

2)= K ^VPS(853.5,DA(1),"MRAR","B",\$E(X,1,30),DA

)

853.51,.02 DEVICE ID 0;2 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>20!(\$L(X)<2) X

LAST EDITED: JAN 18, 2013

HELP-PROMPT: Answer must be 2-20 characters in length.

DESCRIPTION: This field identifies the unique device ID (eg,
IP address or serial number) of the kiosk at
which the patient performed the review of
his/her allergies and medical history.

853.51,.03 KIOSK GROUP 0;3 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>20!(\$L(X)<2) X

LAST EDITED: MAY 09, 2013

HELP-PROMPT: Enter the name of the kiosk group (1-20
characters).

DESCRIPTION: This is the name of the kiosk group to which
the kiosk belongs.

853.51,.04 ENCOUNTER CLINIC 0;4 POINTER TO HOSPITAL LOCATION FILE (#44
)

LAST EDITED: MAY 09, 2013

HELP-PROMPT: Select the encounter clinic.

DESCRIPTION: This is the clinic associated with the
patient's appointment.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker call.

853.51,.05 APPT DATE/TIME 0;5 DATE

INPUT TRANSFORM:S %DT="ETX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT: Enter the patient's appointment date/time.

DESCRIPTION: This is the patient's appointment date/time, taken from the APPOINTMENT DATE/TIME (#.001) field of the APPOINTMENT (#1900) multiple field of the PATIENT (#2) file.

TECHNICAL DESCR:This field is populated by VPS rpc when the MRAR session completes, times out, or terminates. out, or terminates.

853.51,.06 PROVIDER 0;6 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: MAY 23, 2013

HELP-PROMPT: Select the provider.

DESCRIPTION: This is the provider who conducts MRAR using the staff-facing module.

TECHNICAL DESCR:This field is populated by VPS rpc when the MRAR session completes, times out, or terminates.

853.51,.12 MRAR SESSION ID 0;11 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1"."1.N) X

LAST EDITED: DEC 27, 2012

HELP-PROMPT: Enter MRAR Session ID (a 1 to 10 digit number,
0 decimal digits).

DESCRIPTION: The unique identifier of the AR or MR session
initiated by the patient.

TECHNICAL DESCR:Vetlink sends the data to VistA via an RPC
Broker call.

853.51,.13 INTERFACE MODULE 0;12 SET

'P' FOR Patient-Facing Interface module;

'S' FOR Staff-Facing Interface module;

'M' FOR MHV;

'O' FOR Other;

LAST EDITED: DEC 27, 2012

HELP-PROMPT: Choose Interface module.

DESCRIPTION: This field identifies the type of module which
was used to initiate MRAR.

853.51,1 AR INITIATED DT 1;1 DATE

INPUT TRANSFORM:S %DT="ETX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 27, 2012

HELP-PROMPT: Enter the date/time AR initiated.

DESCRIPTION: This is the date/time stamp that a patient
initiated Allergy Review.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker
call.

853.51,2 AR COMPLETED DT 1;2 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 27, 2012

HELP-PROMPT: Enter date/time AR Completed.

DESCRIPTION: This is the date/time stamp the Allergy Review
 module was completed on a device.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker
 call.

853.51,5 AR INCOMPLETE DT 1;5 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT: Enter date/time AR is incomplete.

DESCRIPTION: This is the date/time of AR module is
 incomplete in the patient-facing module. The AR
 INCOMPLETE REASON TYPE (#6) field lists reasons
 why the AR module might be incomplete.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker
 call.

853.51,6 AR INCOMPLETE REASON TYPE 1;6 SET

'1' FOR AR can't start, patient is too early, too
late, or not early enough;
'2' FOR Patient walked away or time limit expired;
'3' FOR Patient selected to exit AR;

'4' FOR Patient selected to bypass AR;

'5' FOR Service Failure;

LAST EDITED: AUG 07, 2013

HELP-PROMPT: Choose AR Incomplete Reason Type.

DESCRIPTION: This field contains the reason why AR module couldn't be completed.

The AR Incomplete Reason type is one of the following: 1. The AR module could not be started because patient arrived TOO EARLY, TOO LATE, or NOT EARLY ENOUGH at the device. 2. Either the patient walked away in the middle of Allergy Review or the TIME LIMIT AR COMPLETE time expired. 3. The patient selected to exit the Allergy Review. 4. The patient selected to bypass the Allergy Review. 5. Service failure of VetLink at the site.

TOO LATE, TOO EARLY, and NOT EARLY ENOUGH are defined in TIME LIMIT TOO LATE ARRIVAL (#7), TIME LIMIT TOO EARLY ARRIVAL (#8), and TIME LIMIT NOT EARLY ENOUGH (#9) fields of the PARAM INSTANCE (#853.01) subfile of VPS CONFIG HISTORY (#853). TIME LIMIT AR COMPLETE (#16) field is also defined in that subfile.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker call.

853.51,7 AR SESSION OUTCOME 1;7 SET

'A' FOR ABBREVIATED;

'F' FOR FULL;

LAST EDITED: MAY 10, 2013

HELP-PROMPT: Choose the AR Session.

DESCRIPTION: This field indicates that the AR session was full or abbreviated. It's a full session if the patient did review and returned in permitted period to re-review. It's abbreviated if the patient was just accepting the opportunity to review information and make any changes.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker call.

853.51,8 ADD ALLERGY INITIATED DT 2;3 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: MAY 20, 2013

HELP-PROMPT: Enter date/time Add Allergy was initiated.

DESCRIPTION: This is the date/time that the patient initiated the additional allergy entry section of Allergy Review.

TECHNICAL DESCR:Vetlink kiosk sends data to VistA via an RPC Broker call.

853.51,9 ADD ALLERGY COMPLETED DT 2;4 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: MAY 20, 2013

HELP-PROMPT: Enter date/time Add Allergy was completed in a session.

DESCRIPTION: This is the date/time that the patient

completed the additional allergy section of AR
in a session.

TECHNICAL DESCR: Vetlink kiosk sends data to VistA via an RPC
Broker call

853.51,13 AR FREE TEXT COMPLETED DT 1;13 DATE

INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT: Enter date/time AR Free Text was completed.

DESCRIPTION: This is the date/time that the patient-facing
Allergy Review free text entry section was
completed.

TECHNICAL DESCR: Vecna provides data to VistA via an RPC broker
call.

853.51,14 VET VIEW ADD ALLERGY COMP DT 1;14 DATE

INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT: Enter the completed date/time of Vet View in
Add Allergy Staff-facing module.

DESCRIPTION: This is the date/time of the additional allergy
interface in the staff-facing's Veteran view
tab during a PDO invocable period was
completed.

TECHNICAL DESCR: Vecna provides data to VistA via an RPC broker
call.

853.51,15 VET VIEW ADD ALLER INIT DT 1;15 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT: Enter the date/time of Add Allergy's vet view
was first activated.

DESCRIPTION: This is the date/time of the additional allergy
interface was first activated in the
staff-facing's Veteran view tab during a PDO
invocable period.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker
call.

853.51,16 VET VIEW CHANGE ALLER COMP DT 1;16 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 27, 2012

HELP-PROMPT: Enter the date/time that review and change
interface in Staff-facing module was completed.

DESCRIPTION: This is the date/time of the review-and-change
allergy interface in the staff-facing's Veteran
view tab was completed during a PDO invocable
period.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker
call.

853.51,17 VET VIEW CHANGE ALLER INIT DT 1;17 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT: Enter date/time of the review-change interface
in the staff-facing module was first activated.

DESCRIPTION: This is the date/time of the review-and-change
allergy interface was first activated in the
staff-facing's Veteran view tab during a PDO
invocable period.

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker
call.

853.51,19 OTH ALLERGY UNK PATIENT 2;1 SET

'1' FOR PATIENT DOES NOT KNOW OTHER ALLERGIES;

LAST EDITED: JUN 03, 2013

HELP-PROMPT: Patient does not know other allergies?

DESCRIPTION: Allergy Review structured response from patient
at kiosk (e.g., check box selected): "I don't
know what my other allergies are".

TECHNICAL DESCR:Vecna provides data to VistA via an RPC broker
call.

853.51,20 NO KNOWN DRUG ALLERGIES 2;2 SET

'1' FOR NO KNOWN DRUG ALLERGIES;

LAST EDITED: JUN 04, 2013

HELP-PROMPT: Patient has no known drug allergies?

DESCRIPTION: Allergy Review structured response from patient
at kiosk (e.g., Confirmation dialog): "Do you
have any allergies or reactions?".

853.51,21 MRAR CONDUCTED WITH MRARWITH;0 SET Multiple #853.5121

DESCRIPTION: This multiple contains individuals (patient, Spouse, Other Family member, Caregiver, Friend, Outside Medication List, or Other) whom the provider conducted the MRAR with.

853.5121,.01 MRAR CONDUCTED WITH 0;1 SET

'1' FOR Patient;
'2' FOR Spouse;
'3' FOR Other Family Member;
'4' FOR Caregiver;
'5' FOR Friend;
'6' FOR Outside Medication List;
'7' FOR Other;

LAST EDITED: MAY 10, 2013

HELP-PROMPT: Choose with whom the provider conducted the MRAR.

DESCRIPTION: This field indicates with whom the provider conducted the MRAR.

CROSS-REFERENCE:853.5121^B

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"MRARWITH",
"B",\$E(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"MRARWITH",
"B",\$E(X,1,30),DA)

853.51,30 ALLERGIES ALLERGY;0 Multiple #853.52

(Add New Entry without Asking)

DESCRIPTION: Each transaction sent by Vetlink may contain
multiple allergies.,.01 ALLERGY ENTRY # 0;1
NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1"."1.N)
X

LAST EDITED: DEC 28, 2012

HELP-PROMPT: Enter a number from 1 to 9999999999, 0
decimal digits.

DESCRIPTION: This field contains a sequential number
generated at the time a record is stored in
the file. It only serves to create an entry
in the file and has no other special meaning.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE:853.52^B

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGY",
B",\$(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGY",
B",\$(X,1,30),DA)

853.52,.02 LOCAL ALLERGY ID 0;2 POINTER TO PATIENT ALLERGIES FILE (#12
0.8)

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Select the Local Allergy.

DESCRIPTION:

This is the patient Allergy.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker call.

CROSS-REFERENCE:853.52^LOCAL

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGY","LOCAL",\$(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGY","LOCAL",\$(X,1,30),DA)

853.52,.03 REMOTE ALLERGY ID 0;3 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1"."1.N)

X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the remote Allergy ID.

DESCRIPTION:This is the patient Allergy IEN in the CDW database.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker call.

CROSS-REFERENCE:853.52^REMOTE

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGY","REMOTE",\$(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGY",

REMOTE",\$E(X,1,30),DA)

853.52,.05 REMOTE ALLERGY NAME 0;5 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>30!(\$L(X)<3) X

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Enter Remote Allergy Name (3-30 characters).

DESCRIPTION:This is the name of the patient Allergy copied
from CDW database, as pointed to by the REMOTE
ALLERGY ID (#.03) field.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker
call.

853.52,.06 AR PATIENT RESPONSE 0;6 SET

'Y' FOR ALLERGIC;

'N' FOR NOT ALLERGIC;

'U' FOR UNSURE;

'X' FOR NO RESPONSE;

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Choose patient response to the displayed
allergy.

DESCRIPTION:This is the patient structured response to the
displayed allergy (field .05) on the Kiosk
during MRAR.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker
call.

853.52,.07 REACTIONS REACTIONS;0 Multiple #853.57
(Add New Entry without Asking)

DESCRIPTION:Each transaction sent by Vetlink may contain
multiple allergies. Each allergy in that
transaction may contain multiple allergy
reactions.

853.57,.01 REACTION ENTRY # 0;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1"."1.N
) X

LAST EDITED: JAN 17, 2013

HELP-PROMPT:Enter Reaction Entry # (a 1 to 10 digit
number, 0 decimal digits).

DESCRIPTION:This field contains a sequential number
generated at the time a record is stored in
the file. It only serves to create an entry
in the file and has no other special meaning.

TECHNICAL DESCR:

Added by the VPS remote procedure when
processing the MRAR updates

CROSS-REFERENCE:853.57^B

1)= S ^VPS(853.5,DA(3),"MRAR",DA(2),"ALLERGY",D
A(1),"REACTIONS","B",\$E(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(3),"MRAR",DA(2),"ALLERGY",D
A(1),"REACTIONS","B",\$E(X,1,30),DA)

853.57,.02 LOCAL REACTION ID 0;2 POINTER TO SIGN/SYMPTOMS FILE (#120.8
3)

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Select local patient allergy reaction.

DESCRIPTION:

This is the patient allergy reaction.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker
call

853.57,.03 REMOTE REACTION ID 0;3 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1"."1.N
) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Type a number between 1 and 9999999999, 0
decimal digits.

DESCRIPTION:

This is the patient allergy reaction IEN in the
CDW database.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker
call

853.57,.04 REMOTE REACTION NAME 0;4 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>30!(\$L(X)<3) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter Remote Reaction Name (3-30 characters).

DESCRIPTION:

This is the patient allergy reaction name
copied from the CDW database, as pointed by the
REMOTE REACTION ID (#.03) field.

853.52,.09 REMOTE FACILITY 0;8 POINTER TO INSTITUTION FILE (#4)

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Select the facility where the allergy was
reported.

DESCRIPTION:

This is the facility where the allergy was
reported. The value was retrieved from CDW
database.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.52,1 ALLERGY COMMENTS PATIENT ACOMM1;0 WORD-PROCESSING #853.58

DESCRIPTION:

This field contains allergy comments entered by
patient in AR.

853.52,2 ALLERGY COMMENTS STAFF VIEW ACOMM2;0
WORD-PROCESSING #853.56 (IGNORE "|")

DESCRIPTION:

This field contains allergy comments entered by provider in staff-facing modules' staff view tab.

853.52,3 ALLERGY COMMENTS VET VIEW ACOMM3;0
WORD-PROCESSING #853.523 (IGNORE "|")

DESCRIPTION:

This field contains allergy comments entered by provider in staff-facing module's Veteran view tab.

853.52,12 ALLERGY CHANGED 0;22 POINTER TO VPS ALLERGY DISCREPANCY IN
DICATORS FILE (#853.3)

LAST EDITED: MAY 22, 2013

HELP-PROMPT:Select the Allergy Changed Indicator.

DESCRIPTION:

This is the Allergy changed indicator entered by the provider or staff.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker call.

853.52,13 ALLERGY CONFIRMED 0;23 POINTER TO VPS ALLERGY DISCREPANCY IN
DICATORS FILE (#853.3)

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Select the Allergy Confirmed indicator

entered by provider/staff.

DESCRIPTION:

This is the allergy confirmed indicator entered
by the provider or staff.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker
call.

853.52,14 ALLERGY DISCREPANCY 0;24 POINTER TO VPS ALLERGY DISCREPANCY I
NDICATORS FILE (#853.3)

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Select the Allergy Discrepancy Indicator
identified by patient.

DESCRIPTION:

This is the Allergy discrepancy indicator
identified by patient during the Allergy
Review.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker
call.

853.52,16 ALLERGY-MARK FOR FOLLOWUP 0;26 SET

'S' FOR STAFF-FACING STAFF VIEW;

'V' FOR STAFF-FACING VET VIEW;

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Is Mark for followup checked in Vet-View or
Staff-View.

DESCRIPTION:

This field is to indicate that the Mark for Follow Up box was checked in the staff-facing module's staff view or vet view.

TECHNICAL DESCR:

Vecna provides data to VistA via an RPC broker call.

853.51,40 ADDITIONAL ALLERGIES ALLERGYADD;0 Multiple #853.53
(Add New Entry without Asking)

DESCRIPTION:

Each transaction sent by Vetlink may contain multiple additional allergies.

853.53,.01 ADDITIONAL ALLERGIES ENTRY # 0;1 NUMBER (Multiply asked)

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1"."1
.N) X

LAST EDITED: JUN 04, 2013

HELP-PROMPT:Enter additional allergies entry number
(1-9999999999, 0 decimal digits).

DESCRIPTION:

This field represents the additional unstructured allergy entry number sent by Vetlink.

CROSS-REFERENCE:853.53^B

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGYADD
","B", \$E(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"ALLERGYADD
", "B", \$E(X,1,30),DA)
853.53,1 ADD ALLERGY-VET 1;0 WORD-PROCESSING #853.531
(IGNORE "|")

LAST EDITED: OCT 17, 2012

DESCRIPTION:

This is the additional allergy typed in by
patient.

853.53,1.5 ADD ALLERGY-PROVIDER 2;0 WORD-PROCESSING #853.59
(IGNORE "|")

DESCRIPTION:

This is the additional allergy typed in by
provider.

853.53,2 ADD ALLERGY REACTION (STAFF) 0;3 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>35!(\$L(X)<3) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter additional allergy reaction entered
by provider (3-35 characters).

DESCRIPTION:

This field contains the additional allergy
reaction entered by provider in staff-facing
interface.

TECHNICAL DESCR:

	<p>Vetlink provides data to VistA via an RPC broker call.</p>
853.53,3	<p>ADD ALLERGY ADDED BY 0;4 SET</p> <p>'S' FOR ADDED BY PROVIDER STAFF VIEW; 'V' FOR ADDED BY PROVIDER VET VIEW;</p> <p>LAST EDITED: MAY 10, 2013</p> <p>HELP-PROMPT:Choose whether additional Allergy was entered in Staff-view or Vet-view.</p> <p>DESCRIPTION:</p> <p>This field indicates whether the Additional Allergy was added in the staff view or in the vet view of staff-facing module.</p> <p>TECHNICAL DESCR:</p> <p>Vecna provides data to VistA via an RPC broker call.</p>
853.53,4	<p>ADD ALLERGY-MARK FOR FOLLOWUP 0;5 SET</p> <p>'S' FOR STAFF-FACING STAFF VIEW; 'V' FOR STAFF-FACING VET VIEW;</p> <p>LAST EDITED: DEC 28, 2012</p> <p>HELP-PROMPT:Choose whether 'Add Allergy Mark for followup' was checked in Staff-view or vet-view'.</p> <p>DESCRIPTION:</p> <p>This field indicates that 'Additional Allergy Mark for Follow Up' box was checked in the staff-facing module's staff view or vet view.</p>

TECHNICAL DESCR:

Vetlink kiosk provides data to VistA via an RPC
broker call.

853.51,50 MEDICATIONS MEDS;0 Multiple #853.54
(Add New Entry without Asking)

DESCRIPTION:

Each transaction sent by Vetlink may contain
multiple medications.

853.54,.01 MEDICATION ENTRY # 0;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1".

"1.N) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter medication entry number
(1-9999999999, 0 decimal digits).

DESCRIPTION:

This field contains a sequential number
generated at the time a record is stored in
the file. It only serves to create an entry
in the file and has no other special meaning.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE:853.54^B

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","B",
\$E(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","B",
\$E(X,1,30),DA)
853.54,1 REMOTE PRESCRIPTION ID 0;2 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1".
"1.N) X
LAST EDITED: JUN 03, 2013
HELP-PROMPT:Type a number between 1 and 9999999999, 0
decimal digits.
DESCRIPTION:
This field identifies the patient prescription
IEN in the CDW database.

853.54,2 REMOTE PROVIDER NAME 0;3 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>35!(\$L(X)<3) X
LAST EDITED: JUN 04, 2013
HELP-PROMPT:Enter the provider name of the
prescription (3-35 characters).
DESCRIPTION:
This field identifies the prescriber name
copied from the CDW database, as pointed to by
the REMOTE PRESCRIPTION ID (#1) field.

TECHNICAL DESCR:
Vetlink kiosk sends data to VistA via an RPC
Broker call.

853.54,3 REMOTE FILL LOCATION 0;4 POINTER TO INSTITUTION FILE (#4)

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Select the facility where the
prescription was filled.

DESCRIPTION:

This is the facility where the prescription was
filled. The value was retrieved from CDW
database.

TECHNICAL DESCR:

Vetlink kiosk sends data to VistA via an RPC
Broker call.

853.54,4 REMOTE LAST FILL DATE 0;5 DATE

INPUT TRANSFORM:S %DT="EX" D ^%DT S X=Y K:X<1 X

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Enter the last date the prescription was
filled.

DESCRIPTION:

This field contains the most recent date that
the prescription was filled. This Last Fill
Date was retrieved from CDW database.

TECHNICAL DESCR:

Vetlink kiosk sends data to VistA via an RPC
Broker call.

853.54,5 REMOTE DAYS SUPPLIED 0;6 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>999)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Enter the number of days the prescription
will cover (0-999,0 decimal digits)

DESCRIPTION:

This field contains the number of days that the
prescription will cover. The value was
retrieved from CDW database.

TECHNICAL DESCR:

Vetlink kiosk sends data to VistA via an RPC
Broker call.

853.54,6 REMOTE # REFILLS LEFT 0;7 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>99)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Type a number between 0 and 99, 0 decimal
digits.

DESCRIPTION:

This field contains the number of refills
remaining for the prescription. The value was
retrieved from CDW database.

TECHNICAL DESCR:

Vetlink kiosk sends data to VistA via an RPC
Broker call.

853.54,7 REMOTE NEXT FILL DATE 0;8 DATE

INPUT TRANSFORM:S %DT="EX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the next fill date.

DESCRIPTION:

This field contains the next possible fill date. The value was retrieved from CDW database.

TECHNICAL DESCR:

Vetlink kiosk sends data to VistA via an RPC Broker call.

853.54,9 REMOTE MED ID 0;10 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1".
"1.N) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the remote medication for the patient.

DESCRIPTION:

This field identifies patient medication IEN in the CDW database.

TECHNICAL DESCR:

Vetlink Kiosk sends data to VistA via an RPC Broker call.

CROSS-REFERENCE:853.54^REMOTE

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","REMOTE",\$E(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","REMOTE",\$E(X,1,30),DA)

853.54,10 REMOTE MEDICATION NAME 0;11 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>35!(\$L(X)<3) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the medication name (3-35 characters).

DESCRIPTION:

This field identifies medication name copied from CDW database, as pointed by the REMOTE MED ID (#9) field.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an RPC Broker call.

853.54,11 MR PRESET PATIENT RESPONSE 0;12 SET

'Y' FOR TAKING AS WRITTEN;

'N' FOR NOT TAKING;

'D' FOR TAKING DIFFERENTLY;

'U' FOR UNSURE;

'X' FOR NO RESPONSE;

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Choose how the patient is taking the medication.

DESCRIPTION:

This field represents the patient structured response to the displayed medication on patient-facing module during MRAR. Patient can select preset answers in MR rather than writing a free text answer (structured comments).

TECHNICAL DESCR:

Vetlink kiosk sends data to VistA via an RPC broker call.

853.54,12 REMOTE RX STATUS 0;13 SET

'0' FOR ACTIVE;
'1' FOR NON-VERIFIED;
'2' FOR REFILL;
'3' FOR HOLD;
'4' FOR PENDING DUE TO DRUG INTERACTIONS;
'5' FOR SUSPENDED;
'10' FOR DONE;
'11' FOR EXPIRED;
'12' FOR DISCONTINUED;
'13' FOR DELETED;
'14' FOR DISCONTINUED BY PROVIDER;
'15' FOR DISCONTINUED (EDIT);
'16' FOR PROVIDER HOLD;

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the status of the prescription.

DESCRIPTION:

This field contains the status of the
prescription. The value is retrieved from CDW
database.

TECHNICAL DESCR:

Vetlink Kiosk sends this data to VistA via an
RPC Broker call.

CROSS-REFERENCE:853.54^RXST

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","RXS
T",\$(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","RXS
T",\$(X,1,30),DA)

853.54,13 REMOTE SIG SIG;1 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>200!(\$L(X)<3) X

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Enter the patient instructions for the
prescription (3-200 characters).

DESCRIPTION:

This field contains the medication instruction
for this prescription. The instruction was
retrieved from CDW database.

TECHNICAL DESCR:

Vetlink kiosk sends data to VistA via an RPC
Broker call.

853.54,14 REMOTE MED DOSAGE 0;14 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>20!(\$L(X)<3) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the dosage for the medication (3-20
characters).

DESCRIPTION:

This field contains the dosage for the
medication. The value was retrieved from CDW
database.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.54,15	<p>REMOTE MED DOSAGE FORM 0;15 FREE TEXT</p> <p>INPUT TRANSFORM:K:\$L(X)>20!(\$L(X)<3) X</p> <p>LAST EDITED: MAY 23, 2013</p> <p>HELP-PROMPT:Enter the medication dosage form (3-20 characters).</p> <p>DESCRIPTION:</p> <p>This field contains the form of a medication dose, such as tablet, injection, etc. This medication dosage form was retrieved from CDW database.</p> <p>TECHNICAL DESCR:</p> <p>Vetlink sends the data to VistA via an RPC Broker call.</p>
853.54,16	<p>MEDS-MARK FOR FOLLOWUP 0;16 SET</p> <p>'S' FOR STAFF-FACING STAFF VIEW; 'V' FOR STAFF-FACING VET VIEW;</p> <p>LAST EDITED: MAY 22, 2013</p> <p>HELP-PROMPT:Choose the type of view the 'Mark for followup' field was checked.</p> <p>DESCRIPTION:</p> <p>This field indicates that 'Mark for Follow Up' box was checked in the staff-facing module's staff view or in the staff-facing module's vet view.</p>
853.54,17	<p>REMOTE MED ROUTE 0;17 FREE TEXT</p> <p>INPUT TRANSFORM:K:\$L(X)>20!(\$L(X)<3) X</p> <p>LAST EDITED: JUN 03, 2013</p>

HELP-PROMPT:Enter the medication route (3-20 characters).

DESCRIPTION:

This field indicates the method of medication administration (e.g., oral buccal). This med route was retrieved from CDW database.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an RPC Broker call.

853.54,18 MED IMAGE INDICATOR MR 0;18 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: MAY 22, 2013

HELP-PROMPT:Is MIL medication image shown in MR?

DESCRIPTION:

This field indicates whether or not the MIL medication image was shown in Medication Review of both patient-facing and staff-facing module.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC Broker call.

853.54,19 MED IMAGE INDICATOR STAFF VIEW 0;19 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Is MIL medication image shown in the
staff view tab?

DESCRIPTION:

This field indicates whether the MIL medication
image was shown in the staff-facing module's
staff view tab or not.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.54,20 MED IMAGE INDICATOR VET VIEW 0;20 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Is MIL medication image shown in the
veteran view tab?

DESCRIPTION:

This field indicates whether the MIL medication
image was shown in the staff-facing module's
Veteran view tab or not.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.54,21 REMOTE NON-VA 0;21 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Is medication a non-VA prescription?

DESCRIPTION:

This field indicates whether the medication is a non-VA prescription or not. This value is retrieved from CDW database.

CROSS-REFERENCE:853.54^NONVA

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","NON VA",\$E(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDS","NON VA",\$E(X,1,30),DA)

853.54,22 REMOTE MAX REFILLS 0;22 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>99)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Type a number between 0 and 99, 0 decimal digits.

DESCRIPTION:

This field contains the number of fills ordered for a prescription. This max refills was retrieved from CDW database.

853.54,23 MEDICATION COMMENTS PATIENT MEDCOM;0

WORD-PROCESSING #853.5423 (IGNORE "|")

LAST EDITED: OCT 31, 2012

DESCRIPTION:

This is the medication comments entered by patient.

853.54,24 MEDICATION COMMENTS STAFF VIEW MEDCOM2;0
WORD-PROCESSING #853.5424 (IGNORE "|")

DESCRIPTION:

This field contains medication comments entered
in the staff-view tab of staff-facing module.

853.54,25 MEDICATION COMMENTS VET VIEW MEDCOM3;0
WORD-PROCESSING #853.5425 (IGNORE "|")

DESCRIPTION:

This field contains medication comments entered
in the vet-view tab of staff-facing module.

853.54,30 MEDICATION DISCREPANCY 1;1 POINTER TO VPS MED DISCREPANCY IND
ICATORS FILE (#853.7)

LAST EDITED: MAY 10, 2013

HELP-PROMPT:Select the medication discrepancy
indicator.

DESCRIPTION:

This field contains the medication
discrepancies indicator selected during
Medication Review using either Patient-facing
or staff-facing interface.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.54,31	MEDICATION CHANGED 1;2 POINTER TO VPS MED DISCREPANCY INDICAT
	ORS FILE (#853.7)
	LAST EDITED: MAY 23, 2013
	HELP-PROMPT:Select the medication changed indicator.
	DESCRIPTION:
	<p>This field contains the medication changed indicator selected during Medication Review using either the Patient-facing or staff-facing interface.</p>
	TECHNICAL DESCR:
	<p>Vetlink sends the data to VistA via an RPC Broker call.</p>
853.54,32	MEDICATION CONFIRMED 1;3 POINTER TO VPS MED DISCREPANCY INDIC
	ATORS FILE (#853.7)
	LAST EDITED: MAY 10, 2013
	HELP-PROMPT:Select the medication confirmed
	indicator.
	DESCRIPTION:
	<p>This field contains the medication confirmed indicator selected during Medication Review using either the patient-facing or staff-facing interface.</p>
	TECHNICAL DESCR:
	<p>Vetlink sends the data to VistA via an RPC Broker call.</p>

853.51,60 ADDITIONAL MEDICATIONS MEDSADD;0 Multiple #853.55

DESCRIPTION:

Each transaction sent by Vetlink may contain
multiple additional medications.

853.55,.01 ADDITIONAL MEDICATIONS ENTRY # 0;1 NUMBER (Multiply asked)

INPUT TRANSFORM:K:+X'=X!(X>9999999999)!(X<1)!(X?.E1
".1.N) X

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Enter additional medication entry # (a
1 to 10 digits number, 0 decimal digits).

DESCRIPTION:

This field contains the additional
medications entry number sent by Vetlink.

CROSS-REFERENCE:853.55^B

1)= S ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDSADD",
B",\$E(X,1,30),DA)=""

2)= K ^VPS(853.5,DA(2),"MRAR",DA(1),"MEDSADD",
B",\$E(X,1,30),DA)

853.55,1 PATIENT-FACING ADD MEDICATION 0;2 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>100!(\$L(X)<3) X

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Enter the name of additional medication
entered by patient (3-100 characters).

DESCRIPTION:

This field contains the text entered by patient in the "Name/Directions/Frequency" text box of additional medication in patient-facing interface.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC Broker call.

853.55,2 STAFF VIEW ADD MEDICATION 1;1 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>100!(\$L(X)<3) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the name of additional medication entered in staff-view (3-100 characters).

DESCRIPTION:

This field contains text entered by the provider in the "Name/Dose/Indication" text box of the additional medication in staff-facing module's staff view tab.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC Broker call.

853.55,3 VET VIEW ADD MEDICATION 1;2 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>100!(\$L(X)<3) X

LAST EDITED: MAY 23, 2013

HELP-PROMPT:Enter the name of additional medication in vet-view (3-100 characters).

DESCRIPTION:

This field contains the text entered by provider in the "Name/Dose/Indication" of additional medication in the staff-facing module's vet view tab.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC Broker call.

853.55,4 VET PLANS TO DISCUSS ADD MED 1;3 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Is "I Plan to Discuss with My Provider" checked by patient?

DESCRIPTION:

This field indicates whether the "I Plan to Discuss with My Provider" box was checked at the medication freetext comment screen or not.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC Broker call.

853.55,5 ADD MED FREQUENCY (PATIENT) 0;3 SET

'1' FOR 1 times a day;

'2' FOR 2 times a day;

'3' FOR 3 times a day;

'4' FOR 4 times a day;

'5' FOR As Needed;

'6' FOR Other;

LAST EDITED: MAY 20, 2013

HELP-PROMPT: Choose number of times a day the
medication is being taken by the patient.

DESCRIPTION:

This is the number of times a day the
medication is being taken by the patient using
additional medication interface of
patient-facing module.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.55,6 ADD MED DIRECTIONS (PATIENT) 0;4 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>35!(\$L(X)<3) X

LAST EDITED: MAY 10, 2013

HELP-PROMPT: Enter the medication directions (3-35
characters).

DESCRIPTION:

This field contains the medication directions
that was entered using the patient-facing
interface in the Additional Medications form.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.55,7 ADD MED COMMENTS-STAFF VIEW AMCOMM;0

WORD-PROCESSING #853.557 (IGNORE "|")

LAST EDITED: NOV 26, 2012

DESCRIPTION:

This field contains the additional medication
comments entered in the staff-view of
staff-facing module.

853.55,8 ADD MED DOSE (STAFF) 1;4 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>35!(\$L(X)<3) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Answer must be 3-35 characters in
length.

DESCRIPTION:

The dosage for the additional medication
entered by the staff in the staff-facing
interface.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.55,9 ADD MEDS-MARK FOR FOLLOW-UP 1;5 SET

'S' FOR STAFF-FACING STAFF VIEW;

'V' FOR STAFF-FACING VET VIEW;

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Is additional medication 'Mark for
follow-up' checked in vet-view or staff-view?

DESCRIPTION:

This field indicates whether the additional
medication 'Mark for Follow Up' box was checked
in the staff-facing module's staff view or in

the vet view.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC

Broker call.

853.55,10 ADD MED INDICATION (STAFF) 2;1 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>35!(\$L(X)<3) X

LAST EDITED: JUN 04, 2013

HELP-PROMPT:Answer must be 3-35 characters in
length.

DESCRIPTION:

The indication for the additional medication
entered by the staff in the staff-facing
interface.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC

Broker call.

853.55,11 ADD MED TIME (PATIENT) 0;5 SET

'1' FOR With Meals;

'2' FOR Without Meals;

'3' FOR In the Morning;

'4' FOR At Bedtime;

'5' FOR Other;

LAST EDITED: MAY 20, 2013

HELP-PROMPT:Choose the time of day the medication
is being taken by the patient.

DESCRIPTION:

This field contains the time of day the medication is being taken by the patient using additional medication interface of patient-facing module.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC Broker call.

853.55,12 ADD MED COMMENTS-VET VIEW AMCOMM2;0
WORD-PROCESSING #853.5512 (IGNORE "|")

DESCRIPTION:

This field contains the additional medication comments entered in the vet-view of staff-facing module.

853.51,70 PDO FIRST INVOKED DT 4;1 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: MAY 09, 2013

HELP-PROMPT:Enter the date/time that the PDO was first invoked.

DESCRIPTION:

This is the date/time that the PDO was first invoked in the PDO invocation period.

TECHNICAL DESCR:

This field is populated by the VistA VPS application when the PDO is first invoked.

853.51,72 PDO INVOCATION ERROR 4;3 SET

'E' FOR PDO INVOCATION PERIOD EXPIRED;

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Enter 'E' to indicate that PDO is no
longer retrievable.

DESCRIPTION:

When set to "E", this field indicates that a
provider attempted to invoke the PDO but could
not because the PDO invocation period expired.

853.51,73 PDO NEXT INVOKED DT 4;4 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the next PDO Invoked Date/Time
(excluding the first invoked).

DESCRIPTION:

This field contains the subsequent date/time
that the PDO was invoked after the first
invoked in the PDO invocation period. The first
invoked date/time is stored in PDO FIRST
INVOKED (field #70).

TECHNICAL DESCR:

VistA VPS application will populate this field
when PDO is invoked.

853.51,74 STAFF MODULE COMPLETED DT 4;5 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Enter the date/time that the Staff

Module was completed.

DESCRIPTION:

This is the date/time that the staff module was completed. The staff module is considered completed after the provider performed the most recent of either of these events to occur within PDO invocable period: when the staff module is signed or TIU Note is signed. Note: This means it is possible for the staff-facing module to be completed multiple times within a PDO invocable period, where each completion is by a different provider.

TECHNICAL DESCR:

[source] StaffModuleCompleted - Vetlink Kiosk database. Vetlink Kiosk sends data to Vista via an RPC Broker call.

853.51,76 STAFF MODULE SIGNED DT 4;7 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Enter the date/time that the Staff

Module was signed.

DESCRIPTION:

This is the date/time that Staff Module was signed.

TECHNICAL DESCR:

[source] StaffModuleSigned - Vetlink Kiosk

database. Vetlink Kiosk sends data to VistA via
RPC Broker call.

853.51,77 MR INITIATED DT 5;1 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the date/time that the patient
initiated MR.

DESCRIPTION:

This is the date/time that the patient
initiated Medication Review.

TECHNICAL DESCR:

Vetlink Kiosk sends data to VistA via an RPC
Broker call.

853.51,78 MR COMPLETED DT 5;2 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Enter the date/time MR was completed in
patient-facing module.

DESCRIPTION:

This is the date/time that the patient-facing
Medication Review module was completed.

853.51,80 MR CHANGE MED INITIATED DT 5;4 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Enter the date/time that the patient
start entering the medication interface of MR.

DESCRIPTION:

This is the date/time of when the patient
started entering the review/change medication
interface. If the patient fails to start the
interface, this field will be empty.

NOTE: The user has only a limited amount of
time to complete the process, as governed by
the TIME LIMIT MR COMPLETE (#17) field of the
PARAM INSTANCE (#853.01) subfile of the VPS
CONFIG HISTORY (#853) file.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,81 MR CHANGE MED COMPLETED DT 5;5 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Enter the date/time that the last
medication interface of MR was completed.

DESCRIPTION:

This is the date/time of when the patient
completed the review/change of the last
medication interface. If patient fails to
complete the interface, this field will be
empty.

NOTE: The user has only a limited amount of
time to complete the process, as governed by

the TIME LIMIT MR COMPLETE (#17) field of the
PARAM INSTANCE (#853.01) subfile of the VPS
CONFIG HISTORY (#853) file.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,82 MR CHANGE REASON COMPLETED DT 5;6 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Enter the date/time that the patient
completes either the "How are you taking this
medication" or the associated "Comment" screen.

DESCRIPTION:

This is the date/time of when the patient
completed either the "How are you taking this
medication?" or the associated "Comment"
interface. If the patient fails to complete the
interface, this field will be empty.

NOTE: The user has only a limited amount of
time to complete the process, as governed by
the TIME LIMIT MR COMPLETE (#17) field of the
PARAM INSTANCE (#853.01) subfile of the VPS
CONFIG HISTORY (#853) file.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,83 MR INCOMPLETE REASON TYPE 5;7 SET

'1' FOR MR can't start, patient is too early,to

o late,or not early enough;

'2' FOR Patient walked away or time limit expired;

'3' FOR Patient selected to exit MR;

'4' FOR Patient selected to bypass MR;

'5' FOR Service Failure;

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Choose MR Incomplete Reason Type.

DESCRIPTION:

This field contains the reason why MR module couldn't be completed.

The MR Incomplete Reason type is one of the following: 1. The MR module could not be started because patient arrived TOO EARLY, TOO LATE, or NOT EARLY ENOUGH at the device. 2. Either the patient walked away in the middle of Medication Review or the TIME LIMIT MR COMPLETE time expired. 3. The patient selected to exit the Medication Review. 4. The patient selected to bypass the Medication Review. 5. Service failure of VetLink at the site.

TOO LATE, TOO EARLY, and NOT EARLY ENOUGH are defined in TIME LIMIT TOO LATE ARRIVAL (#7), TIME LIMIT TOO EARLY ARRIVAL (#8), and TIME LIMIT NOT EARLY ENOUGH (#9) fields of the PARAM INSTANCE (#853.01) subfile of VPS CONFIG HISTORY (#853). TIME LIMIT MR COMPLETE (#17) field is also defined in that subfile.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,84 MR FREE TEXT SECTION DONE DT 5;8 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: DEC 28, 2012

HELP-PROMPT:Enter the date/time free text section
is completed in MR.

DESCRIPTION:

This is the date/time of when the
patient-facing Medication Review free text
entry section was completed.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,85 MR SESSION OUTCOME 5;9 SET

'F' FOR FULL;

'A' FOR ABBREVIATED;

LAST EDITED: MAY 10, 2013

HELP-PROMPT:Choose the MR Session.

DESCRIPTION:

This field indicates that the MR session was
full or abbreviated. It's a full session if
the patient did review and returned in
permitted period to re-review. It's abbreviated
if the patient was just accepting the
opportunity to review information and make any

changes.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,86 MR ADD MED INITIATED DT 5;10 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Enter the date/time that the patient
starts entering the add med interface of MR.

DESCRIPTION:

This is the date/time of when the patient
started entering the additional medication
interface. If the patient fails to start the
interface, this field will be empty.

NOTE: The user has only a limited amount of
time to complete the process, as governed by
the TIME LIMIT MR COMPLETE (#17) field of the
PARAM INSTANCE (#853.01) subfile of the VPS
CONFIG HISTORY (#853) file.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,87 MR ADD MED COMPLETED DT 5;11 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Enter the date/time that the patient
completes add med of MR.

DESCRIPTION:

This is the date/time of when the patient
completed the entry of the last additional
medication interface. If the patient fails to
complete the interface, this field will be
empty.

NOTE: The user has only a limited amount of
time to complete the process, as governed by
the TIME LIMIT MR COMPLETE (#17) field of the
PARAM INSTANCE (#853.01) subfile of the VPS
CONFIG HISTORY (#853) file.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,88 VET VIEW ADD MED INITIATED DT 5;12 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: AUG 07, 2013

HELP-PROMPT:Enter the date/time that the add med
screen was first opened in the vet-view of
staff-facing module.

DESCRIPTION:

This is the date/time of when the additional
medication entry screen is first opened in the
Veteran view tab of the staff-facing module
during the PDO invocable period.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,89 VET VIEW ADD MED COMPLETED DT 5;13 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the date/time that the staff
exited the vet-view and the staff module was
completed.

DESCRIPTION:

This is the date/time of when the staff exited
the additional medication entry screen in the
Veteran view tab of the staff-facing module
during the PDO invocable period, in which the
session's staff module was completed.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,92 VET VIEW CHG ALL MED INIT DT 5;16 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the date/time that the
review/change medication entry screen is first
opened.

DESCRIPTION:

This is the date/time of when the review-change
medication entry screen is first opened, a
selection from "How are you taking this

medication?" is made regarding any medication,
and the "Next" button is selected in the
Veteran view tab of the staff-facing module
during the PDO invocable period.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,93 VET VIEW CHG ALL MED COMP DT 5;17 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 03, 2013

HELP-PROMPT:Enter the date/time that the
review/change medication entry screen is last
exited in the vet-view of staff-facing module.

DESCRIPTION:

This is the date/time of when the review-change
medication entry screen is last exited after a
selection for any medication made from "How are
you taking this medication?", and the "Next"
button is selected in the Veteran view tab of
the staff-facing module during the PDO
invocable period, in which the session's staff
module was completed.

TECHNICAL DESCR:

Vetlink Kiosk sends the data to VistA via an
RPC Broker call.

853.51,95 MR INCOMPLETE DT 5;19 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JUN 04, 2013

HELP-PROMPT:Enter the date/time of MR is
incomplete.

DESCRIPTION:

This is the date/time of MR module is
incomplete in the patient-facing module. MR
INCOMPLETE REASON TYPE (#83) field lists the
reason why the MR module might be incomplete.

TECHNICAL DESCR:

Vetlink sends the data to VistA via an RPC
Broker call.

853.51,105 TIU NOTE 4;8 POINTER TO TIU DOCUMENT FILE (#8925)

LAST EDITED: MAY 09, 2013

HELP-PROMPT:Select the TIU document.

DESCRIPTION:

This is the TIU note created by the provider
after reviewing the allergy and medication for
the patient.

TECHNICAL DESCR:

One of the events in Vetlink is to create a TIU
Note. Vetlink will store the return value of
'TIU CREATE RECORD' RPC in this field by
invoking 'VPS UPDATE LAST MRAR TIU IEN' RPC.

FILES POINTED TO	FIELDS
HOSPITAL LOCATION (#44)	MRAR INSTANCE:ENCOUNTER CLINIC (#.04)
INSTITUTION (#4)	ALLERGIES:REMOTE FACILITY (#.09)
	MEDICATIONS:REMOTE FILL LOCATION (#3)
NEW PERSON (#200)	MRAR INSTANCE:PROVIDER (#.06)
PATIENT (#2)	PATIENT (#.01)
PATIENT ALLERGIES (#120.8)	ALLERGIES:LOCAL ALLERGY ID (#.02)
SIGN/SYMPTOMS (#120.83)	REACTIONS:LOCAL REACTION ID (#.02)
TIU DOCUMENT (#8925)	MRAR INSTANCE:TIU NOTE (#105)
VPS ALLERGY DISCREPANCY INDICA	
(#853.3)	ALLERGIES:ALLERGY CHANGED (#12)
	ALLERGY CONFIRMED (#13)
	ALLERGY DISCREPANCY (#14)
VPS MED DISCREPANCY INDICATORS	
(#853.7)	MEDICATIONS:MEDICATION DISCREPANCY (#30)
	MEDICATION CHANGED (#31)
	MEDICATION CONFIRMED (#32)

Figure 10 – Medication Review and Allergy Review Data Dictionary

3.2.2.2 Medication Review and Allergy Review Storage Structure

The following Figure 11 shows detail information of storage structure for the MRAR file.

GLOBAL MAP DATA DICTIONARY #853.5 -- VPS MRAR PDO FILE
SEP 17,2014@ 14:58:45 PAGE 1
STORED IN ^VPS(853.5, (12 ENTRIES) SITE: V [REDACTED] UCI: V

This is the Data file for the VA Point of Service (VPS) kiosk application.

Data is stored using VPS remote procedure calls that are invoked by the Vetlink Kiosk (patient-facing) or staff-facing client interface. The Vetlink system is used by the patient or staff resource at the medical center or clinic. One of the functions of the Vetlink system is for the patient/provider review of the patient's medication history and allergy history. Each review is saved by Vetlink and then sent to VistA for storage using RPC Broker.

The data stored in this file is sorted by PATIENT where each patient entry has one or more Medication Review Allergy Review (MRAR) session instances and these MRAR instances are sorted by transaction date/time. Each session represents a complete or incomplete MRAR.

CROSS

REFERENCED BY: PATIENT(B)

^VPS(853.5,D0,0)= (#.01) PATIENT [1P:2] ^

^VPS(853.5,D0,MRAR,0)=^853.51DA^^ (#20) MRAR INSTANCE

^VPS(853.5,D0,MRAR,D1,0)= (#.01) TRXN DATE/TIME [1D] ^ (#.02) DEVICE ID [2F]

==>^ (#.03) KIOSK GROUP [3F] ^ (#.04) ENCOUNTER CLINIC

==>[4P:44] ^ (#.05) APPT DATE/TIME [5D] ^ (#.06)

==>PROVIDER [6P:200] ^ ^ ^ ^ ^ (#.12) MRAR SESSION

==>ID [11N] ^ (#.13) INTERFACE MODULE [12S] ^

^VPS(853.5,D0,MRAR,D1,1)= (#1) AR INITIATED DT [1D] ^ (#2) AR COMPLETED DT

==>[2D] ^ ^ ^ (#5) AR INCOMPLETE DT [5D] ^ (#6) AR

==>INCOMPLETE REASON TYPE [6S] ^ (#7) AR SESSION

==>OUTCOME [7S] ^ ^ ^ ^ ^ ^ ^ (#13) AR FREE TEXT

==>COMPLETED DT [13D] ^ (#14) VET VIEW ADD ALLERGY

==>COMP DT [14D] ^ (#15) VET VIEW ADD ALLER INIT DT

```

==>[15D] ^ (#16) VET VIEW CHANGE ALLER COMP DT [16D] ^
==>(#17) VET VIEW CHANGE ALLER INIT DT [17D] ^
^VPS(853.5,D0,MRAR,D1,2)= (#19) OTH ALLERGY UNK PATIENT [1S] ^ (#20) NO KNOWN
==>DRUG ALLERGIES [2S] ^ (#8) ADD ALLERGY INITIATED DT
==>[3D] ^ (#9) ADD ALLERGY COMPLETED DT [4D] ^
^VPS(853.5,D0,MRAR,D1,4)= (#70) PDO FIRST INVOKED DT [1D] ^ ^ (#72) PDO
==>INVOCATION ERROR [3S] ^ (#73) PDO NEXT INVOKED DT
==>[4D] ^ (#74) STAFF MODULE COMPLETED DT [5D] ^ ^
==>(#76) STAFF MODULE SIGNED DT [7D] ^ (#105) TIU NOTE
==>[8P:8925] ^
^VPS(853.5,D0,MRAR,D1,5)= (#77) MR INITIATED DT [1D] ^ (#78) MR COMPLETED DT
==>[2D] ^ ^ (#80) MR CHANGE MED INITIATED DT [4D] ^
==>(#81) MR CHANGE MED COMPLETED DT [5D] ^ (#82) MR
==>CHANGE REASON COMPLETED DT [6D] ^ (#83) MR
==>INCOMPLETE REASON TYPE [7S] ^ (#84) MR FREE TEXT
==>SECTION DONE DT [8D] ^ (#85) MR SESSION OUTCOME
==>[9S] ^ (#86) MR ADD MED INITIATED DT [10D] ^ (#87)
==>MR ADD MED COMPLETED DT [11D] ^ (#88) VET VIEW ADD
==>MED INITIATED DT [12D] ^ (#89) VET VIEW ADD MED
==>COMPLETED DT [13D] ^ ^ ^ (#92) VET VIEW CHG ALL
==>MED INIT DT [16D] ^ (#93) VET VIEW CHG ALL MED COMP
==>DT [17D] ^ ^ (#95) MR INCOMPLETE DT [19D] ^
^VPS(853.5,D0,MRAR,D1,ALLERGY,0)=^853.52A^^ (#30) ALLERGIES
^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,0)= (#.01) ALLERGY ENTRY # [1N] ^ (#.02)
    ==>LOCAL ALLERGY ID [2P:120.8] ^ (#.03)
    ==>REMOTE ALLERGY ID [3N] ^ ^ (#.05)
    ==>REMOTE ALLERGY NAME [5F] ^ (#.06) AR
    ==>PATIENT RESPONSE [6S] ^ ^ (#.09) REMOTE
    ==>FACILITY [8P:4] ^ ^ ^ ^ ^ ^ ^
    ==>^ ^ ^ ^ ^ ^ (#12) ALLERGY CHANGED
    ==>[22P:853.3] ^ (#13) ALLERGY CONFIRMED
    ==>[23P:853.3] ^ (#14) ALLERGY DISCREPANCY
    ==>[24P:853.3] ^ ^ (#16) ALLERGY-MARK FOR
    ==>FOLLOWUP [26S] ^

```

^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,ACOMM1,0)=^853.58^^ (#1) ALLERGY COMMENTS
 PATI
 ENT
 ^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,ACOMM1,D3,0)= (#.01) ALLERGY COMMENTS
 ==>PATIENT [1W] ^
 ^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,ACOMM2,0)=^853.56^^ (#2) ALLERGY COMMENTS
 STAF
 F VIEW
 ^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,ACOMM2,D3,0)= (#.01) ALLERGY COMMENTS STAFF
 ==>VIEW [1W] ^
 ^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,ACOMM3,0)=^853.523^^ (#3) ALLERGY COMMENTS
 VET
 VIEW
 ^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,ACOMM3,D3,0)= (#.01) ALLERGY COMMENTS VET
 ==>VIEW [1W] ^
 ^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,REACTIONS,0)=^853.57A^^ (#.07) REACTIONS
 ^VPS(853.5,D0,MRAR,D1,ALLERGY,D2,REACTIONS,D3,0)= (#.01) REACTION ENTRY #
 ==>[1N] ^ (#.02) LOCAL
 ==>REACTION ID [2P:120.83] ^
 ==>(#.03) REMOTE REACTION ID
 ==>[3N] ^ (#.04) REMOTE
 ==>REACTION NAME [4F] ^
 ^VPS(853.5,D0,MRAR,D1,ALLERGYADD,0)=^853.53A^^ (#40) ADDITIONAL ALLERGIES
 ^VPS(853.5,D0,MRAR,D1,ALLERGYADD,D2,0)= (#.01) ADDITIONAL ALLERGIES ENTRY #
 ==>[1N] ^ ^ (#2) ADD ALLERGY REACTION
 ==>(STAFF) [3F] ^ (#3) ADD ALLERGY ADDED
 ==>BY [4S] ^ (#4) ADD ALLERGY-MARK FOR
 ==>FOLLOWUP [5S] ^
 ^VPS(853.5,D0,MRAR,D1,ALLERGYADD,D2,1,0)=^853.531^^ (#1) ADD ALLERGY-VET
 ^VPS(853.5,D0,MRAR,D1,ALLERGYADD,D2,1,D3,0)= (#.01) ADD ALLERGY-VET [1W] ^
 ^VPS(853.5,D0,MRAR,D1,ALLERGYADD,D2,2,0)=^853.59^^ (#1.5) ADD ALLERGY-PROVIDER
 ^VPS(853.5,D0,MRAR,D1,ALLERGYADD,D2,2,D3,0)= (#.01) ADD ALLERGY-PROVIDER [1W]
 ==>^
 ^VPS(853.5,D0,MRAR,D1,MEDS,0)=^853.54A^^ (#50) MEDICATIONS
 ^VPS(853.5,D0,MRAR,D1,MEDS,D2,0)= (#.01) MEDICATION ENTRY # [1N] ^ (#1)

```

==>REMOTE PRESCRIPTION ID [2N] ^ (#2) REMOTE
==>PROVIDER NAME [3F] ^ (#3) REMOTE FILL
==>LOCATION [4P:4] ^ (#4) REMOTE LAST FILL
==>DATE [5D] ^ (#5) REMOTE DAYS SUPPLIED [6N]
==>^ (#6) REMOTE # REFILLS LEFT [7N] ^ (#7)
==>REMOTE NEXT FILL DATE [8D] ^ ^ (#9) REMOTE
==>MED ID [10N] ^ (#10) REMOTE MEDICATION NAME
==>[11F] ^ (#11) MR PRESET PATIENT RESPONSE
==>[12S] ^ (#12) REMOTE RX STATUS [13S] ^
==>(#14) REMOTE MED DOSAGE [14F] ^ (#15)
==>REMOTE MED DOSAGE FORM [15F] ^ (#16)
==>MEDS-MARK FOR FOLLOWUP [16S] ^ (#17) REMOTE
==>MED ROUTE [17F] ^ (#18) MED IMAGE INDICATOR
==>MR [18S] ^ (#19) MED IMAGE INDICATOR STAFF
==>VIEW [19S] ^ (#20) MED IMAGE INDICATOR VET
==>VIEW [20S] ^ (#21) REMOTE NON-VA [21S] ^
==>(#22) REMOTE MAX REFILLS [22N] ^
^VPS(853.5,D0,MRAR,D1,MEDS,D2,1)= (#30) MEDICATION DISCREPANCY [1P:853.7] ^
==>(#31) MEDICATION CHANGED [2P:853.7] ^ (#32)
==>MEDICATION CONFIRMED [3P:853.7] ^
^VPS(853.5,D0,MRAR,D1,MEDS,D2,MEDCOM,0)=^853.5423^^ (#23) MEDICATION COMMENTS
P
ATIENT
^VPS(853.5,D0,MRAR,D1,MEDS,D2,MEDCOM,D3,0)= (#.01) MEDICATION COMMENTS
==>PATIENT [1W] ^
^VPS(853.5,D0,MRAR,D1,MEDS,D2,MEDCOM2,0)=^853.5424^^ (#24) MEDICATION
COMMENTS
STAFF VIEW
^VPS(853.5,D0,MRAR,D1,MEDS,D2,MEDCOM2,D3,0)= (#.01) MEDICATION COMMENTS STAFF
==>VIEW [1W] ^
^VPS(853.5,D0,MRAR,D1,MEDS,D2,MEDCOM3,0)=^853.5425^^ (#25) MEDICATION
COMMENTS
VET VIEW
^VPS(853.5,D0,MRAR,D1,MEDS,D2,MEDCOM3,D3,0)= (#.01) MEDICATION COMMENTS VET
==>VIEW [1W] ^

```

```

^VPS(853.5,D0,MRAR,D1,MEDS,D2,SIG)= (#13) REMOTE SIG [1F] ^
^VPS(853.5,D0,MRAR,D1,MEDSADD,0)=^853.55^^ (#60) ADDITIONAL MEDICATIONS
^VPS(853.5,D0,MRAR,D1,MEDSADD,D2,0)= (#.01) ADDITIONAL MEDICATIONS ENTRY #
    ==>[1N] ^ (#1) PATIENT-FACING ADD
    ==>MEDICATION [2F] ^ (#5) ADD MED FREQUENCY
    ==>(PATIENT) [3S] ^ (#6) ADD MED DIRECTIONS
    ==>(PATIENT) [4F] ^ (#11) ADD MED TIME
    ==>(PATIENT) [5S] ^
^VPS(853.5,D0,MRAR,D1,MEDSADD,D2,1)= (#2) STAFF VIEW ADD MEDICATION [1F] ^
    ==>(#3) VET VIEW ADD MEDICATION [2F] ^ (#4)
    ==>VET PLANS TO DISCUSS ADD MED [3S] ^ (#8)
    ==>ADD MED DOSE (STAFF) [4F] ^ (#9) ADD
    ==>MEDS-MARK FOR FOLLOW-UP [5S] ^
^VPS(853.5,D0,MRAR,D1,MEDSADD,D2,2)= (#10) ADD MED INDICATION (STAFF) [1F] ^
^VPS(853.5,D0,MRAR,D1,MEDSADD,D2,AMCOMM,0)=^853.557^^ (#7) ADD MED COMMENTS-
STA
FF VIEW
^VPS(853.5,D0,MRAR,D1,MEDSADD,D2,AMCOMM,D3,0)= (#.01) ADD MED COMMENTS-
STAFF
    ==>VIEW [1W] ^
^VPS(853.5,D0,MRAR,D1,MEDSADD,D2,AMCOMM2,0)=^853.5512^^ (#12) ADD MED
COMMENTS-
VET VIEW
^VPS(853.5,D0,MRAR,D1,MEDSADD,D2,AMCOMM2,D3,0)= (#.01) ADD MED COMMENTS-VET
    ==>VIEW [1W] ^
^VPS(853.5,D0,MRAR,D1,MRARWITH,0)=^853.5121S^^ (#21) MRAR CONDUCTED WITH
^VPS(853.5,D0,MRAR,D1,MRARWITH,D2,0)= (#.01) MRAR CONDUCTED WITH [1S] ^

```

Figure 11 – Medication Review and Allergy Review Storage Structure

3.2.2.3 MRAR Configuration Update History Data Dictionary

MRAR application requires site's specific Kiosk Parameters. These parameters are stored in Kiosk Server. The updates to the Kiosk Parameters are sent to VistA for historical storage and will be used for data analyzing purposes. The following Figure 12 shows VistA Data Dictionary for VPS CONFIG HISTORY.

STANDARD DATA DICTIONARY #853 -- VPS CONFIG HISTORY FILE
--

STORED IN ^VPS(853, (10 ENTRIES) SITE: [REDACTED] UCI: VAB
,VAA

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
-----------------	---------------	--------------------	--------------

This file stores all the changes made to Kiosk's configuration parameters to facilitate aggregate business intelligence. The current values of Kiosk's parameters are stored in Vetlink's KIOSK database. The business and administrative parameters are used to configure and direct MRAR behavior amongst the Vetlink KIOSK groups or Clinics. Data in this file is populated via RPC call(s) made by the Vetlink client.

DD ACCESS:
RD ACCESS:
WR ACCESS:
DEL ACCESS:
LAYGO ACCESS:
AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)
CROSS

REFERENCED BY: PARAMETER TYPE(B), CLINIC(C), KIOSK GROUP(D)

853,.01 PARAMETER TYPE 0;1 SET (Required)

'K' FOR KIOSK GROUP;
'C' FOR CLINIC;
LAST EDITED:MAY 07, 2013
HELP-PROMPT: Choose the Parameter Type.

DESCRIPTION: When Vetlink makes changes to Kiosk's parameters, the changes are made for a Kiosk Group or a clinic. This field identifies this type (Kiosk Group or Clinic). For Parameter Type "K", KIOSK GROUP field (#.03) will contain the Kiosk Group otherwise CLINIC field (#.02) will contain the Clinic.

CROSS-REFERENCE: 853^B

1)= S ^VPS(853,"B",\$E(X,1,30),DA)=""
2)= K ^VPS(853,"B",\$E(X,1,30),DA)
853,.02 CLINIC 0;2 POINTER TO HOSPITAL LOCATION FILE (#44
)

LAST EDITED: MAY 07, 2013

HELP-PROMPT: Select the Clinic.

DESCRIPTION: This field identifies the clinic for which the changes to the Kiosk Parameters were made.

CROSS-REFERENCE: 853^C

1)= S ^VPS(853,"C",\$E(X,1,30),DA)=""
2)= K ^VPS(853,"C",\$E(X,1,30),DA)
853,.03 KIOSK GROUP 0;3 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<2) X

LAST EDITED: MAY 07, 2013

HELP-PROMPT: Enter the Kiosk Group (2-30 characters).

DESCRIPTION: This field identifies the Kiosk Group for which the changes to the Kiosk Parameters were made.

CROSS-REFERENCE: 853^D

1)= S ^VPS(853,"D",\$E(X,1,30),DA)=""

2)= K ^VPS(853,"D",\$E(X,1,30),DA)

853,20 PARAM INSTANCE PARAM;0 DATE Multiple #853.01

DESCRIPTION: This multiple contains transactions sent to
VistA by Vetlink. The transactions contain
changes made to Kiosk parameters in Vetlink for
a Kiosk Group or a Clinic.

853.01,.01 TRXN DATE/TIME 0;1 DATE (Required)

INPUT TRANSFORM:S %DT="ETX" D ^%DT S X=Y K:X<1 X S:\$G(X) DINUM=
X

LAST EDITED: APR 01, 2013

HELP-PROMPT: Enter the transaction date/time.

DESCRIPTION:

 This is the date/time of the transaction.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE:853.01^B

1)= S ^VPS(853,DA(1),"PARAM","B",\$E(X,1,30),DA)
=""

2)= K ^VPS(853,DA(1),"PARAM","B",\$E(X,1,30),DA)

853.01,1 PDO INVOCABLE PERIOD 1;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>7)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: JUN 03, 2013

HELP-PROMPT: Type a number between 0 and 7, 0 decimal digits.

DESCRIPTION: This is the PDO invocation period in days. The last MRAR of the patient can only be invoked within this period. If this field is empty, the default value is 3 days. This period cannot exceed the time limit set by the TIME LIMIT AR COMPLETE (#16) and TIME LIMIT MR COMPLETE (#17) fields.

853.01,2 AR ENABLED DT 1;2 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: MAR 11, 2013

HELP-PROMPT: Enter the date/time the Allergy Review was enabled.

DESCRIPTION: This is the date/time stamp the Allergy Review module was enabled on a Kiosk Group or a Clinic.

853.01,3 MR ENABLED DT 1;3 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: JAN 23, 2013

HELP-PROMPT: Enter the date/time the Medication Review was enabled.

DESCRIPTION: This is the date-time stamp the Medication Review module was enabled on a Kiosk Group or a Clinic.

853.01,4 AUDIT ENABLED DT 1;4 DATE

INPUT TRANSFORM:S %DT="ESTX" D ^%DT S X=Y K:X<1 X

LAST EDITED: APR 02, 2013

HELP-PROMPT: Enter the date/time the MRAR was audited.

DESCRIPTION: This is the date/time stamp the MRAR was
 audited to determine if AR/MR/AMR were in
 enabled/disabled state.

853.01,5 AR FREE TEXT ENABLED 1;5 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: APR 02, 2013

HELP-PROMPT: Is Free Text enabled for the AR module?

DESCRIPTION: This field indicates whether the free-text
 feature for a patient to comment on an existing
 allergy is enabled or disabled for the
 patient-facing Allergy Review module on a Kiosk
 Group or a Clinic.

853.01,6 MR FREE TEXT ENABLED 1;6 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: APR 02, 2013

HELP-PROMPT: Is Free Text enabled for the MR module?

DESCRIPTION: This field indicates whether the free-text
 feature for a patient to comment on an existing
 medication is enabled or disabled for the
 patient-facing Medication Review module on a
 Kiosk Group or a Clinic.

853.01,7 TIME LIMIT TOO LATE ARRIVAL 2;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: MAY 02, 2013

HELP-PROMPT: Type a number between 0 and 9999, 0 decimal
 digits.

DESCRIPTION: This is the number in minutes that the system
 will use to determine whether or not the
 patient arrived too late for an appointment.
 e.g., patient arrived at 1:20pm for 1:00pm
 appointment, if this field is set to 10 minutes
 (check-in time is stopped at 1:10pm), this
 patient was too late for appointment. "Too
 Late" patient won't be checked in and will be
 directed to clerk.

853.01,8 TIME LIMIT TOO EARLY ARRIVAL 2;2 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: MAY 06, 2013

HELP-PROMPT: Type a number between 0 and 9999, 0 decimal
 digits.

DESCRIPTION: This is the number in minutes that the system
 will use to determine whether or not the
 patient arrived too early for an appointment.
 e.g., patient arrived at 2:30pm for 4:00pm
 appointment, if this field is set to 60 minutes
 (check-in time is opened at 3:00pm), this
 patient was too early for appointment. "Too
 Early" patient won't be checked in and will be
 directed to clerk. This field must be set to a

number greater than TIME LIMIT NOT EARLY
ENOUGH, otherwise the patient will never be
able to be checked in.

853.01,9 TIME LIMIT NOT EARLY ENOUGH 2;3 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>9999)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: MAY 06, 2013

HELP-PROMPT: Type a number between 0 and 9999, 0 decimal
digits.

DESCRIPTION: This is the number in minutes that the system
will use to determine whether or not the
patient arrived early enough for an
appointment. e.g., patient arrived at 12:50pm
for 1:00pm appointment, if this field is set to
15 minutes (check-in time is stopped at
12:45pm), this patient didn't arrive early
enough. "Not Early Enough" patient won't be
checked in and will be directed to clerk. This
field must be set to a number less than TIME
LIMIT TOO EARLY ARRIVAL, otherwise the patient
will never be able to be checked in.

853.01,10DESIRED AMR SESSION COMPLETED 3;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>100)!(X<0)!(X?.E1"."3.N) X

LAST EDITED: MAR 11, 2013

HELP-PROMPT: Type a number between 0 and 100, 2 decimal
digits.

DESCRIPTION: This is a percentage value set by an
administrator to mark the target lower bound of
Allergy Medication Review sessions that should

be completed at the clinic on the Kiosk.

853.01,11 DESIRED AMR TIME COMPLETED 3;2 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>999)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: APR 24, 2013

HELP-PROMPT: Type a number between 0 and 999, 0 decimal
digits.

DESCRIPTION: This is time in seconds set by an administrator
to mark the target upper bound of time a
patient takes to complete Allergy Medication
Review at the clinic on the Kiosk.

853.01,12DESIRED AR SESSION COMPLETED 3;3 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>100)!(X<0)!(X?.E1"."3.N) X

LAST EDITED: APR 24, 2013

HELP-PROMPT: Type a number between 0 and 100, 2 decimal
digits.

DESCRIPTION: This is a percentage value set by an
administrator to mark the target lower bound of
Allergy Review sessions that should be
completed at the clinic on the Kiosk.

853.01,13 DESIRED AR TIME COMPLETED 3;4 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>999)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: APR 24, 2013

HELP-PROMPT: Type a number between 0 and 999, 0 decimal
digits.

DESCRIPTION: This is time in seconds set by an administrator

to mark the target upper bound of time a patient
takes to complete Allergy Review at the clinic
on the Kiosk.

853.01,14 DESIRED MR SESSION COMPLETED 3;5 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>100)!(X<0)!(X?.E1"."3.N) X

LAST EDITED: APR 24, 2013

HELP-PROMPT: Type a number between 0 and 100, 2 decimal
digits.

DESCRIPTION: This is a percentage value set by an
administrator to mark the target lower bound of
Medication Review sessions that should be
completed at the clinic on the Kiosk.

853.01,15 DESIRED MR TIME COMPLETED 3;6 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>999)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: APR 24, 2013

HELP-PROMPT: Type a number between 0 and 999, 0 decimal
digits.

DESCRIPTION: This is time in seconds set by an administrator
to mark the target upper bound of time to
complete Medication Review at the clinic on the
Kiosk.

853.01,16 TIME LIMIT AR COMPLETE 4;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>7)!(X<1)!(X?.E1"."1.N) X

LAST EDITED: APR 12, 2013

HELP-PROMPT: Type a number between 1 and 7, 0 decimal

digits.

DESCRIPTION: This is the time limit in days in which a patient can re-invoke and continue to edit an incomplete Allergy Review.

853.01,17 TIME LIMIT MR COMPLETE 4;2 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>7)!(X<1)!(X?.E1"."1.N) X

LAST EDITED: MAR 11, 2013

HELP-PROMPT: Type a number between 1 and 7, 0 decimal digits.

DESCRIPTION: This is the time limit in days in which a patient can re-invoke and continue to edit an incomplete Medication Review.

853.01,18 TIME LIMIT AMR COMPLETE 4;3 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>7)!(X<1)!(X?.E1"."1.N) X

LAST EDITED: APR 24, 2013

HELP-PROMPT: Type a number between 1 and 7, 0 decimal digits.

DESCRIPTION: This is the time limit in days in which a patient can re-invoke and continue to edit an incomplete Allergy and Medication Review

853.01,19 LOW USE THRESHOLD PDO 5;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>100)!(X<0)!(X?.E1"."3.N) X

LAST EDITED: APR 23, 2013

HELP-PROMPT: Type a number between 0 and 100, 2 decimal digits.

DESCRIPTION: This is the percentage number that the system will use to monitor an acceptable level of physicians ignoring step to create TIU Note via PDO Invocation. The acceptable level is determined by measuring this number against the mean number of PDO not invoked by physicians. PDO in this context is a patient's module output that can be pulled by VetLink based on the stored MRAR in VistA. e.g., out of 100 Staff-Interface reviews, physicians failed to invoke PDO to create TIU Note in 15 reviews thus the mean number of PDO not invoked is 15% and if the LOW USE THRESHOLD PDO set to 10%, the system will detect an unacceptable level of reviews without TIU Note created via PDO Invocation.

853.01,22 ALLERGY DISCREP UCL NO AR 6;1 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>99)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: APR 24, 2013

HELP-PROMPT: Type a number between 0 and 99, 0 decimal digits.

DESCRIPTION: This is the upper control limit set locally for a tolerable mean allergy discrepancies identified by provider when the patient did not identify discrepancies during Allergy Review.

853.01,23ALLERGY DISCREP UCL POST AR 6;2 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>99)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: APR 12, 2013

HELP-PROMPT: Type a number between 0 and 99, 0 decimal digits.

DESCRIPTION: This is the upper control limit set locally for a tolerable mean of allergy discrepancies identified by provider post Allergy Review.

853.01,24 MED DISCREP UCL NO MR 6;3 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>99)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: APR 12, 2013

HELP-PROMPT: Type a number between 0 and 99, 0 decimal digits.

DESCRIPTION: This is the upper control limit set locally for a tolerable mean of medication discrepancies identified by provider when the patient did not identify discrepancies during Medication Review.

853.01,25 MED DISCREP UCL POST MR 6;4 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>99)!(X<0)!(X?.E1"."1.N) X

LAST EDITED: APR 12, 2013

HELP-PROMPT: Type a number between 0 and 99, 0 decimal digits.

DESCRIPTION: This is the upper control limit set locally for a tolerable mean of medication discrepancies identified by provider post Medication Review.

853.01,50 AMR INCOMPLETE REASON TYPE AMRREASON;0 SET Multiple #853.011

DESCRIPTION: This multiple stores LOW USE THRESHOLD AMR

setting value by AMR Incomplete Reason Type.
Each AMR Incomplete Reason Type potentially has
different setting value for LOW USE THRESHOLD
AMR.,01 AMR INCOMPLETE REASON TYPE
0;1 SET

'1' FOR AMR can't start, patient is too early,t
oo late,or not early enough;
'2' FOR Patient walked away or time limit expir
ed;
'3' FOR Patient selected to exit AMR;
'4' FOR Patient selected to bypass AMR;
'5' FOR Service Failure;

INPUT TRANSFORM:S DINUM=X Q

LAST EDITED: MAY 10, 2013

HELP-PROMPT: Choose AMR Incomplete Reason Type.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE:853.011^B

1)= S ^VPS(853,DA(2),"PARAM",DA(1),"AMRREASON",
"B",\$E(X,1,30),DA)=""

2)= K ^VPS(853,DA(2),"PARAM",DA(1),"AMRREASON",
"B",\$E(X,1,30),DA) 853.011,1 LOW USE THRESHOLD
AMR 0;2 NUMBER

INPUT TRANSFORM:K:+X'=X!(X>100)!(X<0)!(X?.E1"."3.N) X

LAST EDITED: APR 30, 2013

HELP-PROMPT: Type a number between 0 and 100, 2 decimal
digits.

DESCRIPTION: This is the percentage number that the system will use to monitor an acceptable level of AMR non-completion. The acceptable level is determined by measuring this number against the mean number of AMR non-completions for an AMR incomplete reason type. e.g., out of 100 patient AMR non-completions, 15 patients decide to bypass the review thus the mean number for this reason type is 15% and if the Low Use Threshold AMR is set to 10%, the system will detect an unacceptable level of AMR non-completions where too many patients by passing review.

853.01,60 AR INCOMPLETE REASON TYPE ARREASON;0 SET Multiple #853.012

DESCRIPTION: This multiple stores LOW USE THRESHOLD AR setting value by AR Incomplete Reason Type. Each AR Incomplete Reason Type potentially has different setting value for LOW USE THRESHOLD AR.,01 AR INCOMPLETE REASON TYPE 0;1 SET

'1' FOR AR can't start, patient is too early, too late, or not early enough;
'2' FOR Patient walked away or time limit expired;
'3' FOR patient selected to exit AR;
'4' FOR Patient selected to bypass AR;

'5' FOR Service Failure;

INPUT TRANSFORM:S DINUM=X Q

LAST EDITED: MAY 10, 2013

HELP-PROMPT:Choose AR Incomplete Reason Type.

DESCRIPTION:This field contains description of reason why
AR module couldn't be completed.

The AR Incomplete Reason Type is one of the followings: 1. The AR module could not be started because patient arrived TOO EARLY, TOO LATE, or NOT EARLY ENOUGH at the device. 2. Either the patient walked away in the middle of the Allergy Review or the TIME LIMIT AR COMPLETE time expired. 3. The patient selected to exit the Allergy Review. 4. The patient selected to bypass the Allergy Review. 5. Service failure of VetLink at the site.

See TIME LIMIT TOO LATE ARRIVAL, TIME LIMIT TOO EARLY ARRIVAL, and TIME LIMIT NOT EARLY ENOUGH fields for definition of TOO LATE, TOO EARLY, and NOT EARLY ENOUGH.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE:853.012^B

1)= S ^VPS(853,DA(2),"PARAM",DA(1),"ARREASON","
B",\$E(X,1,30),DA)=""

2)= K ^VPS(853,DA(2),"PARAM",DA(1),"ARREASON","
B",\$E(X,1,30),DA)

3 853.012,1 LOW USE THRESHOLD AR 0;2
NUMBER

INPUT TRANSFORM:K:+X'=X!(X>100)!(X<0)!(X?.E1"."3.N) X

LAST EDITED: MAY 10, 2013

HELP-PROMPT:Type a number between 0 and 100, 2 decimal digits.

DESCRIPTION:This is the percentage number that the system will use to monitor an acceptable level of AR non-completion. The acceptable level is determined by measuring this number against the mean number of AR non-completions for an AR incomplete reason type. e.g., out of 100 patient AR non-completions, 15 patients decide to bypass the review thus the mean number for this reason type is 15% and if the Low Use Threshold AR is set to 10%, the system will detect an unacceptable level of AR non-completion where too many patients by passing review.

853.01,70 MR INCOMPLETE REASON TYPE MRREASON;0 SET Multiple #853.013

DESCRIPTION:This multiple stores LOW USE THRESHOLD MR setting value by MR Incomplete Reason Type. Each MR Incomplete Reason Type potentially has different setting value for LOW USE THRESHOLD MR.

853.013,.01 MR INCOMPLETE REASON TYPE 0;1 SET

'1' FOR MR can't start, patient is too early,to

o late,or not early enough;

'2' FOR Patient walked away or time limit expired;

'3' FOR Patient selected to exit MR;

'4' FOR Patient selected to bypass MR;

'5' FOR Service Failure;

INPUT TRANSFORM:S DINUM=X Q

LAST EDITED: MAY 10, 2013

HELP-PROMPT:Choose MR Incomplete Reason Type.

DESCRIPTION:

This field contains description of reason why MR module couldn't be completed.

The MR Incomplete Reason Type is one of the followings: 1. The MR module could not be started because patient arrived TOO EARLY, TOO LATE, or NOT EARLY ENOUGH at the device. 2. Either the patient walked away in the middle of the Medication Review or the TIME LIMIT AR COMPLETE time expired. 3. The patient selected to exit the Medication Review. 4. The patient selected to bypass the Medication Review. 5. Service failure of VetLink at the site.

See TIME LIMIT TOO LATE ARRIVAL, TIME LIMIT TOO EARLY ARRIVAL, and TIME LIMIT NOT EARLY ENOUGH fields for definition of TOO LATE, TOO EARLY, and NOT EARLY ENOUGH.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE:853.013^B

1)= S ^VPS(853,DA(2),"PARAM",DA(1),"MRREASON",
B", \$E(X,1,30),DA)=""

2)= K ^VPS(853,DA(2),"PARAM",DA(1),"MRREASON", B",\$E(X,1,30),DA)	
853.013,1	LOW USE THRESHOLD MR 0;2 NUMBER
INPUT TRANSFORM:K:+X'=X!(X>100)!(X<0)!(X?.E1"."3.N) X	
LAST EDITED: APR 30, 2013	
HELP-PROMPT:Type a number between 0 and 100, 2 decimal digits.	
DESCRIPTION:	
This is the percentage number that the system will use to monitor an acceptable level of MR non-completion. The acceptable level is determined by measuring this number against the mean number of MR non-completions for an MR incomplete reason type. e.g., out of 100 patient MR non-completions, 15 patients decide to bypass the review thus the mean number for this reason type is 15% and if the Low Use Threshold MR is set to 10%, the system will detect an unacceptable level of MR non-completionse where too many patients by passing review.	
FILES POINTED TO	FIELDS
HOSPITAL LOCATION (#44)	CLINIC (#.02)

Figure 12 – MRAR Configuration Update History Data Dictionary

3.2.2.4 MRAR Configuration Update History Storage Structure

The following Figure 13 shows detail information of storage structure for the VPS CONFIG HISTORY file.

GLOBAL MAP DATA DICTIONARY #853 -- VPS CONFIG HISTORY FILE

SEP 17,2014@15:39:02 PAGE 1

STORED IN ^VPS(853, (10 ENTRIES) SITE: [REDACTED] UCI: VAB
,VAA

This file stores all the changes made to Kiosk's configuration parameters to facilitate aggregate business intelligence. The current values of Kiosk's parameters are stored in Vetlink's KIOSK database. The business and administrative parameters are used to configure and direct MRAR behavior amongst the Vetlink KIOSK groups or Clinics. Data in this file is populated via RPC call(s) made by the Vetlink client.

CROSS

REFERENCED BY: PARAMETER TYPE(B), CLINIC(C), KIOSK GROUP(D)
^VPS(853,D0,0)= (#.01) PARAMETER TYPE [1S] ^ (#.02) CLINIC [2P:44] ^ (#.03)
==>KIOSK GROUP [3F] ^

^VPS(853,D0,PARAM,0)=^853.01D^^ (#20) PARAM INSTANCE

^VPS(853,D0,PARAM,D1,0)= (#.01) TRXN DATE/TIME [1D] ^

^VPS(853,D0,PARAM,D1,1)= (#1) PDO INVOCABLE PERIOD [1N] ^ (#2) AR ENABLED DT
==>[2D] ^ (#3) MR ENABLED DT [3D] ^ (#4) AUDIT ENABLED
==>DT [4D] ^ (#5) AR FREE TEXT ENABLED [5S] ^ (#6) MR
==>FREE TEXT ENABLED [6S] ^

^VPS(853,D0,PARAM,D1,2)= (#7) TIME LIMIT TOO LATE ARRIVAL [1N] ^ (#8) TIME
==>LIMIT TOO EARLY ARRIVAL [2N] ^ (#9) TIME LIMIT NOT
==>EARLY ENOUGH [3N] ^

^VPS(853,D0,PARAM,D1,3)= (#10) DESIRED AMR SESSION COMPLETED [1N] ^ (#11)
==>DESIRED AMR TIME COMPLETED [2N] ^ (#12) DESIRED AR
==>SESSION COMPLETED [3N] ^ (#13) DESIRED AR TIME
==>COMPLETED [4N] ^ (#14) DESIRED MR SESSION COMPLETED

```

==>[5N] ^ (#15) DESIRED MR TIME COMPLETED [6N] ^
^VPS(853,D0,PARAM,D1,4)= (#16) TIME LIMIT AR COMPLETE [1N] ^ (#17) TIME LIMIT
==>MR COMPLETE [2N] ^ (#18) TIME LIMIT AMR COMPLETE
==>[3N] ^
^VPS(853,D0,PARAM,D1,5)= (#19) LOW USE THRESHOLD PDO [1N] ^
^VPS(853,D0,PARAM,D1,6)= (#22) ALLERGY DISCREP UCL NO AR [1N] ^ (#23) ALLERGY
==>DISCREP UCL POST AR [2N] ^ (#24) MED DISCREP UCL NO
==>MR [3N] ^ (#25) MED DISCREP UCL POST MR [4N] ^
^VPS(853,D0,PARAM,D1,AMRREASON,0)=^853.011S^^ (#50) AMR INCOMPLETE REASON
TYPE
^VPS(853,D0,PARAM,D1,AMRREASON,D2,0)= (#.01) AMR INCOMPLETE REASON TYPE [1S]
==>^ (#1) LOW USE THRESHOLD AMR [2N] ^
^VPS(853,D0,PARAM,D1,ARREASON,0)=^853.012S^^ (#60) AR INCOMPLETE REASON TYPE
^VPS(853,D0,PARAM,D1,ARREASON,D2,0)= (#.01) AR INCOMPLETE REASON TYPE [1S] ^
==>^ (#1) LOW USE THRESHOLD AR [2N] ^
^VPS(853,D0,PARAM,D1,MRREASON,0)=^853.013S^^ (#70) MR INCOMPLETE REASON TYPE
^VPS(853,D0,PARAM,D1,MRREASON,D2,0)= (#.01) MR INCOMPLETE REASON TYPE [1S] ^
==>^ (#1) LOW USE THRESHOLD MR [2N] ^

```

Figure 13 - MRAR Configuration Update History Storage Structure

3.2.2.5 Appointment Status Integration Data Dictionary

To implement Appointment Status Integration, a new VistA file will be created to hold a temporary appointment data to reflect appointments displayed in VetLink's appointment queue. The main purpose of this file is to filter out "non-changed" appointments during on-demand retrieval request by VetLink to update its appointments queue.

The following Figure 14 shows VistA Data Dictionary for this new file.

STANDARD DATA DICTIONARY #853.9 -- VPS APPOINTMENTS QUEUE FILE			
AUG 2 2013@13:26:33 PAGE 1 STORED IN ^VPS(853.9, (4			
ENTRIES) SITE: [REDACTED]			
DATA	NAME	GLOBAL	DATA
ELEMENT	TITLE	LOCATION	TYPE

This file is a temporary file containing appointments for a given date range in which initially populated by "VPS GETALL APPOINTMENTS" RPC. This temporary file represents appointment queue displayed in VetLink's VPS Patient Appointment Queue application.			
This temporary file will be updated periodically by VetLink's VPS Patient			

Appointment Queue by calling "VPS GET UPDATED APPOINTMENTS" RPC.

The main purpose of this file is to minimize number of records returned to the VetLink application. The "VPS GET UPDATED APPOINTMENTS" RPC will use this file to filter out the non-modified appointments displayed in the VetLink's VPS Patient Appointment Queue.

DD ACCESS:
WR ACCESS:
DEL ACCESS:
LAYGO ACCESS:
AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCL.)

CROSS
REFERENCED BY: QUEUE ID(B)

CREATED ON: JUL 18,2013

RD ACCESS:

853.9,.01 QUEUE ID 0;1 NUMBER (Required)

INPUT TRANSFORM: K:+X'=X!(X>9999999999)!(X<1)!(X?.E1"."1.N) X S:
\$D(X) DINUM=X

LAST EDITED: JUL 19, 2013

HELP-PROMPT: Type a number between 1 and 9999999999, 0
decimal digits.

DESCRIPTION: This field contains a unique Queue ID
Provided by VetLink at the time a record is
stored in the file.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE: 853.9^B
1)= S ^VPS(853.9,"B",\$E(X,1,30),DA)=""
2)= K ^VPS(853.9,"B",\$E(X,1,30),DA)

853.9,1 APPOINTMENT FROM DATE 0;2 DATE (Required)

INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:X<1 X
LAST EDITED: AUG 01, 2013
HELP-PROMPT: Enter Appointment From Date.
DESCRIPTION: This is the Appointment From Date in which the
appointments for the queue was retrieved.

853.9,2 APPOINTMENT THROUGH DATE 0;3 DATE (Required)

INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:X<1 X
LAST EDITED: AUG 01, 2013
HELP-PROMPT: Enter Appointment Through Date.
DESCRIPTION: This is the Appointment Through Date in which
the appointments for the queue was retrieved.

853.9,10 APPOINTMENTS 1;0 POINTER Multiple #853.91

INDEXED BY: CLINIC & APPOINTMENT DATE/TIME & PATIENT (C)

853.91,.01 CLINIC 0;1 POINTER TO HOSPITAL LOCATION FILE (#
44)

LAST EDITED: JUL 19, 2013
HELP-PROMPT: Select the Clinic for this appointment.
DESCRIPTION: This is the clinic associated with the
appointment.

CROSS-REFERENCE: 853.91^B
1)= S ^VPS(853.9,DA(1),1,"B",\$E(X,1,30),DA)="

2)= K ^VPS(853.9,DA(1),1,"B",\$E(X,1,30),DA)

RECORD INDEXES: C (#1063)

853.91,1 APPOINTMENT DATE/TIME 0;2 DATE

INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:X<1 X
LAST EDITED: JUL 19, 2013
HELP-PROMPT: Enter Appointment Date/Time.
DESCRIPTION: This is the Date/Time of a patient's
appointment in the clinic.

RECORD INDEXES: C (#1063)

853.91,2 PATIENT 0;3 POINTER TO PATIENT FILE (#2)

LAST EDITED: JUL 19, 2013
HELP-PROMPT: Select the patient.
DESCRIPTION: This is the patient for whom the appointment
data relates.

RECORD INDEXES: C (#1063)

853.91,3 APPOINTMENT TYPE 0;4 POINTER TO APPOINTMENT TYPE FILE (#4
09.1)

LAST EDITED: JUL 19, 2013
HELP-PROMPT: Select the Appointment Type.
DESCRIPTION: This is the type of appointment the patient
is scheduled for at the time the field being
populated.

This time-sensitive (As-Of) version is
essential to filter the non-changed
appointments thus minimize number of records
returned to the VPS Appointment Queue.

853.91,4 PRINTED APPOINTMENT STATUS 0;5 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>50!(\$L(X)<1) X
LAST EDITED: JUL 19, 2013
HELP-PROMPT: Answer must be 1-50 characters in length.
DESCRIPTION: This field contains what the user will see in
the VPS Appointment Queue at the time this
field is being populated. This printed
version is an extension of Appointment Status
Name and Status indicator such as
"NON-COUNT", "ACT REQ", "FUTURE", "CHECK IN",
or "CHECK OUT".

This time-sensitive (As-Of) version is
essential to filter the non-changed
appointments thus minimize number of records
returned to the VPS Appointment Queue.

FILES POINTED TO FIELDS

APPOINTMENT TYPE (#409.1) APPOINTMENTS:APPOINTMENT TYPE (#3)

HOSPITAL LOCATION (#44) APPOINTMENTS:CLINIC (#.01)

PATIENT (#2) APPOINTMENTS:PATIENT (#2)

Subfile #853.91

Record Indexes:

C (#1063) RECORD REGULAR IR LOOKUP & SORTING
Short Descr: Index of Sub File 853.91 on CLINIC, APPOINTMET DT, PATIENT
Description: Given Clinic, Appointment Date/Time, and Patient, user can
use this index to retrieve appointment record in the vps

```

appointment queue.
Set Logic: S ^VPS(853.9,DA(1),1,"C",X(1),X(2),X(3),DA)="
Kill Logic: K ^VPS(853.9,DA(1),1,"C",X(1),X(2),X(3),DA)
Whole Kill: K ^VPS(853.9,DA(1),1,"C")
X(1): CLINIC (853.91,.01) (Subscr 1) (forwards)
X(2): APPOINTMENT DATE/TIME (853.91,1) (Subscr 2) (forwards)
X(3): PATIENT (853.91,2) (Subscr 3) (forwards)

```

Figure 14 – VistA VPS Appointments Queue File Data Dictionary Entry

3.2.2.6 Appointment Status Integration Storage Structure

The following Figure 15 shows detail information of storage structure for the Appointment Queue file.

This file is a temporary file containing appointments for a given date range in which initially populated by "VPS GETALL APPOINTMENTS" RPC. This temporary file represents appointment queue displayed in VetLink's VPS Patient Appointment Queue application.

This temporary file will be updated periodically by VetLink's VPS Patient Appointment Queue by calling "VPS GET UPDATED APPOINTMENTS" RPC.

The main purpose of this file is to minimize number of records returned to the VetLink application. The "VPS GET UPDATED APPOINTMENTS" RPC will use this file to filter out the non-modified appointments displayed in the VetLink's VPS Patient Appointment Queue.

Storage tree

^DD is stored in [VAA].

^DIC is stored in [VAA].

^|"VAA"|VPS is stored in [VAA].

^|"VAA"|VPS(853.9,0) = 1="VPS APPOINTMENTS QUEUE", 2=853.9, 3=highest IEN, 4=# of entries

^|"VAA"|VPS(853.9,"B",QUEUE ID,D0)
(cross-reference)

^|"VAA"|VPS(853.9,D0,0) = 1=QUEUE ID, 2=APPOINTMENT FROM DATE, 3=APPOINTMENT THROUGH DATE

^|"VAA"|VPS(853.9,D0,1,0) = 1="APPOINTMENTS", 2=853.91, 3=highest IEN, 4=# of entries

^|"VAA"|VPS(853.9,D0,1,"B",CLINIC,D1)
(cross-reference)

^|"VAA"|VPS(853.9,D0,1,"C",...) (cross-reference on Field CLINIC (.01), Field APPOINTMENT DATE/TIME (1) and Field PATIENT (2))

^|"VAA"|VPS(853.9,D0,1,D1,0) = 1=CLINIC, 2=APPOINTMENT DATE/TIME, 3=PATIENT, 4=APPOINTMENT TYPE, 5=PRINTED APPOINTMENT STATUS

853.91, 1: APPOINTMENT DATE/TIME

853.9, 1: APPOINTMENT FROM DATE

853.9, 2: APPOINTMENT THROUGH DATE

853.91, 3: APPOINTMENT TYPE

853.9, 10: APPOINTMENTS

```

853.91, .01: CLINIC
853.91, 2: PATIENT
853.91, 4: PRINTED APPOINTMENT STATUS
853.9, .01: QUEUE ID
Traditional cross-reference(s) on single field(s)
Cross-reference named "B" on Field QUEUE ID (.01)
S ^VPS(853.9,"B",$E(X,1,30),DA)=""
New-Style cross-reference(s)
Cross-reference named "C" on Field CLINIC (.01) in file APPOINTMENTS (853.91), Field
APPOINTMENT DATE/TIME (1) in file APPOINTMENTS (853.91) and Field PATIENT (2) in file
APPOINTMENTS (853.91)
S ^VPS(853.9,DA(1),1,"C",X(1),X(2),X(3),DA)=""
Traditional cross-reference(s) on single field(s)
Cross-reference named "B" on Field CLINIC (.01)
S ^VPS(853.9,DA(1),1,"B",$E(X,1,30),DA)=""

```

Figure 15 – VistA VPS Appointments Queue File Storage Structure

3.2.2.7 Clinical Survey Questionnaire Data Dictionary

The VPS*1*5 system will provide RPCs to store Clinical Screening Questionnaires (CSQ) and patient responses into a VistA file. The following Figure 16 shows VistA Data Dictionary and Storage Structure for this file.

STANDARD DATA DICTIONARY #853.8 -- VPS CLINICAL SURVEY FILE			
AUG 25,2014@14:02:19 PAGE 1			
STORED IN ^VPS(853.8, *** NO DATA STORED YET *** SITE: [REDACTED]			
A.GOV UCI: VAB,VAA			
DATA	NAME	GLOBAL	DATA
ELEMENT	TITLE	LOCATION	TYPE

This is the Clinical Survey Questionnaire data file for VA Point of Service (VPS) Kiosk application. VetLink (patient-facing or staff-facing) uses Remote Procedure Call (RPC) API to store the patient response as well as the question in the survey.			
The data stored in this file is sorted by patient and by survey. Each patient will have multiple surveys and each survey contains multiple questions and responses.			
DD ACCESS: @			
RD ACCESS: @			
WR ACCESS: @			
DEL ACCESS: @			
LAYGO ACCESS: @			
AUDIT ACCESS: @			
(NOTE: Kernel's File Access Security has been installed in this UCI)			

CROSS

REFERENCED BY: PATIENT(B)

CREATED ON: AUG 25,2014 by POSTMASTER

853.8,.01 PATIENT 0;1 POINTER TO PATIENT FILE (#2)
(Required)

INPUT TRANSFORM: S DINUM=X Q

LAST EDITED: AUG 25, 2014

HELP-PROMPT: Select the patient who entered the
questionnaire.

DESCRIPTION: This is the patient who entered the
questionnaire.

TECHNICAL DESCR: Since this value is DINUM, this field
represents the root IEN for this file as well.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE: 853.8^B

1)= S ^VPS(853.8,"B",\$E(X,1,30),DA)=""

2)= K ^VPS(853.8,"B",\$E(X,1,30),DA)

853.8,1 QUESTIONNAIRE 1;0 Multiple #853.81

DESCRIPTION: This multiple represents all surveys for the
patient.

853.81,.01 QUESTIONNAIRE ID 0;1 NUMBER (Required)

INPUT TRANSFORM: K:+X'=X!(X>999999999)!(X<1)!(X?.E1"."1.N) X

LAST EDITED: AUG 25, 2014

HELP-PROMPT: Type a number between 1 and 999999999, 0
decimal digits.

DESCRIPTION: This is the questionnaire ID represents the
questionnaire template built by and stored in
VetLink.

CROSS-REFERENCE: 853.81^B

1)= S ^VPS(853.8,DA(1),1,"B",\$E(X,1,30),DA)=""

2)= K ^VPS(853.8,DA(1),1,"B",\$E(X,1,30),DA)

853.81,1 QUESTIONNAIRE NAME 0;2 FREE TEXT

(Required) INPUT TRANSFORM: K:\$L(X)>60!(\$L(X)<3) X

LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter Questionnaire Name.
DESCRIPTION: This Questionnaire Name represents the
questionnaire built by and stored in VetLink.

853.81,2 DATE/TIME TAKEN 0;3 DATE

INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:X<1 X
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter Date/Time the questionnaire was taken.
DESCRIPTION: This is the date/time the survey was taken by
the patient.

853.81,3 DATE/TIME LAST MODIFIED 0;4 DATE

INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:X<1 X
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter Date/Time the questionnaire last
modified.
DESCRIPTION: This is the Date/Time the survey was modified
by patient or staff.

853.81,4 INTERVIEWER STAFF 0;5 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter the staff who interviewed the patient.
DESCRIPTION: This is the staff who interviewed the patient
during the survey.

853.81,5 SURVEY CALCULATED VALUE 1;1 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>250!(\$L(X)<1) X
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter calculated value for the survey.
DESCRIPTION: This is the calculated value for the whole
survey generated by Vetlink.

853.81,6 COMPLETION STATUS 2;1 SET

'C' FOR COMPLETED;
'T' FOR INCOMPLETE;
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter completion status for the
questionnaire.
DESCRIPTION: This field indicates whether or not the
survey was completed.

853.81,7 PATIENT SAFETY 2;2 SET

'Y' FOR YES;
'N' FOR NO;
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter whether or not this is Patient Safety
Questionnaire.
DESCRIPTION: This field indicates whether or not the
survey is a patient safety.

853.81,8 IMMEDIATE ACTION 2;3 SET

'Y' FOR YES;
'N' FOR NO;
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter whether or not the questionnaire
requires immediate action.
DESCRIPTION: This field indicates whether or not the
survey requires immediate action.

853.81,9 QUESTIONNAIRE INTERNAL NAME 4;1 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>250!(\$L(X)<1) X
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter Questionnaire Internal Name.
DESCRIPTION: This is the internal Questionnaire name
generated by Vetlink.

853.81,10 QUESTIONNAIRE VERSION 0;6 NUMBER

INPUT TRANSFORM: K:\$L(X)>3!(\$L(X)<1) X
LAST EDITED: AUG 25, 2014
HELP-PROMPT: Enter version number of the questionnaire.
DESCRIPTION: This is the version number of the
questionnaire used for the survey.

853.81,20 QUESTIONS 3;0 Multiple #853.811

DESCRIPTION: This multiple represents all questions for
the survey.

853.811,.01 QUESTION 0;1 NUMBER (Required)

INPUT TRANSFORM: K:+X'=X!(X>9999)!(X<1)!(X?.E1"."1.N) X
LAST EDITED: AUG 25, 2014

HELP-PROMPT: Type a number between 1 and 9999, 0 decimal digits.

DESCRIPTION: This is the sequential number which represents the question.

TECHNICAL DESCR:
This is a DINUM value.

CROSS-REFERENCE: 853.811^B
1)= S ^VPS(853.8,DA(2),1,DA(1),3,"B",\$(X,1,30),DA)=""

2)= K ^VPS(853.8,DA(2),1,DA(1),3,"B",\$(X,1,30),DA)

853.811,1 QUESTION PRESENTED 1;1 FREE TEXT

INPUT TRANSFORM:K:\$(X)>250!(\$(X)<1) X

LAST EDITED: AUG 25, 2014

HELP-PROMPT: Enter question presented in the questionnaire (must be 1-250 characters).

DESCRIPTION: This represents each question presented in the questionnaire.

853.811,2 RESPONSE PROVIDED 2;1 FREE TEXT

INPUT TRANSFORM:K:\$(X)>250!(\$(X)<1) X

LAST EDITED: AUG 25, 2014

HELP-PROMPT: Enter response provided to the question (must be 1-250 characters).

DESCRIPTION: This is the patient response for each question presented in the questionnaire.

853.811,3 QUESTION CALCULATED VALUE 3;1 FREE TEXT

INPUT TRANSFORM:K:\$(X)>250!(\$(X)<1) X

LAST EDITED: AUG 25, 2014

HELP-PROMPT: Enter calculated value for the question (must be 1-250 characters).

DESCRIPTION: This is calculated value for each question generated by VetLink.

FILES POINTED TO

FIELDS

NEW PERSON (#200)

QUESTIONNAIRE:INTERVIEWER STAFF (#4)

PATIENT (#2)

PATIENT (#.01)

Figure 16 - VistA VPS Clinical Survey file Data Dictionary

3.2.2.8 Clinical Survey Questionnaire Storage Structure

The following Figure 17 shows detail information of storage structure for the Clinical Survey file.

This is the Clinical Survey Questionnaire data file for VA Point of Service (VPS) Kiosk application. VetLink (patient-facing or staff-facing) uses Remote Procedure Call (RPC) API to store the patient response as well as the question in the survey.

The data stored in this file is sorted by patient and by survey. Each patient will have multiple surveys and each survey contains multiple questions and responses.

Storage tree

^DD is stored in [VAB].

^DIC is stored in [VAB].

^|"VAB"|VPS is stored in [VAB].

^|"VAB"|VPS(853.8,0) = 1="VPS CLINICAL SURVEY", 2=853.8, 3=highest IEN, 4=# of entries

^|"VAB"|VPS(853.8,"B",PATIENT,D0) (cross-reference)

^|"VAB"|VPS(853.8,D0,0) = 1=PATIENT

^|"VAB"|VPS(853.8,D0,1,0) = 1="QUESTIONNAIRE", 2=853.81, 3=highest IEN, 4=# of entries

^|"VAB"|VPS(853.8,D0,1,"B",QUESTIONNAIRE ID,D1) (cross-reference)

^|"VAB"|VPS(853.8,D0,1,D1,0) = 1=QUESTIONNAIRE ID, 2=QUESTIONNAIRE NAME, 3=DATE/TIME TAKEN, 4=DATE/TIME LAST MODIFIED, 5=INTERVIEWER STAFF

^|"VAB"|VPS(853.8,D0,1,D1,1) = 1=SURVEY CALCULATED VALUE

^|"VAB"|VPS(853.8,D0,1,D1,2) = 1=COMPLETION STATUS, 2=PATIENT SAFETY, 3=IMMEDIATE ACTION

^|"VAB"|VPS(853.8,D0,1,D1,3,0) = 1="QUESTIONS", 2=853.811, 3=highest IEN, 4=# of entries

^|"VAB"|VPS(853.8,D0,1,D1,3,"B",QUESTION,D2) (cross-reference)

^|"VAB"|VPS(853.8,D0,1,D1,3,D2,0) = 1=QUESTION

^|"VAB"|VPS(853.8,D0,1,D1,3,D2,1) = 1=QUESTION PRESENTED

^|"VAB"|VPS(853.8,D0,1,D1,3,D2,2) = 1=RESPONSE PROVIDED

^|"VAB"|VPS(853.8,D0,1,D1,3,D2,3) = 1=QUESTION CALCULATED VALUE

853.81, 6: COMPLETION STATUS

853.81, 3: DATE/TIME LAST MODIFIED

853.81, 2: DATE/TIME TAKEN

853.81, 8: IMMEDIATE ACTION

853.81, 4: INTERVIEWER STAFF

853.8, .01: PATIENT

853.81, 7: PATIENT SAFETY

853.811, .01: QUESTION

853.811, 3: QUESTION CALCULATED VALUE

853.811, 1: QUESTION PRESENTED

853.8, 1: QUESTIONNAIRE

853.81, .01: QUESTIONNAIRE ID

853.81, 1: QUESTIONNAIRE NAME

853.81, 20: QUESTIONS

853.811, 2: RESPONSE PROVIDED

853.81, 5: SURVEY CALCULATED VALUE

<p>Traditional cross-reference(s) on single field(s) Cross-reference named "B" on Field PATIENT (.01) S ^VPS(853.8,"B",\$(X,1,30),DA)=""</p> <p>Traditional cross-reference(s) on single field(s) Cross-reference named "B" on Field QUESTIONNAIRE ID (.01) S ^VPS(853.8,DA(1),1,"B",\$(X,1,30),DA)=""</p> <p>Traditional cross-reference(s) on single field(s) Cross-reference named "B" on Field QUESTION (.01) S ^VPS(853.8,DA(2),1,DA(1),3,"B",\$(X,1,30),DA)=""</p>
--

Figure 17 – VistA VPS Clinical Survey Storage Structure

3.2.3 User Interface Data Mapping

This section is not applicable. The VPS*1*3, VPS*1*4, and VPS*1*5 systems are machine-to-machine interface only.

3.2.3.1 Application Screen Interface

This section is not applicable. The VPS*1*3, VPS*1*4, and VPS*1*5 systems are machine-to-machine interface only.

3.2.3.2 Application Report Interface

This section is not applicable. The VPS*1*3, VPS*1*4 and VPS*1*5 systems are machine-to-machine interface only.

3.2.3.3 Unmapped Data Element

No unmapped data elements are created by the VPS*1*3, VPS*1*4 and VPS*1*5 patches enhancement.

3.3 Conceptual Infrastructure Design

3.3.1 System Criticality and High Availability

VPS*1*3, VPS*1*4, and VPS*1*5 systems are RPC development projects. VPS*1*5 system is also using HL7 interface to provide VetLink with Appointment Status updates from VistA in real-time. Both RPC and HL7 interface will not impact the current system criticality and high availability.

3.3.2 Special Technology

No special technology is required for VPS*1*3, VPS*1*4, and VPS*1*5.

3.3.3 Technology Locations

VPS*1*3, VPS*1*4, and VPS*1*5 will be located on VistA production servers across VAMC facilities.

3.3.4 Conceptual Infrastructure Diagram

3.3.4.1 Location of Environments and External Interfaces

Figure 18 depicts the environments and external interfaces for VPS*1*3, VPS*1*4, and VPS*1*5 systems. VistA server is shown as RPCs provider and acted as HL7 client while VetLink is shown as RPCs consumer and acted as HL7 server.

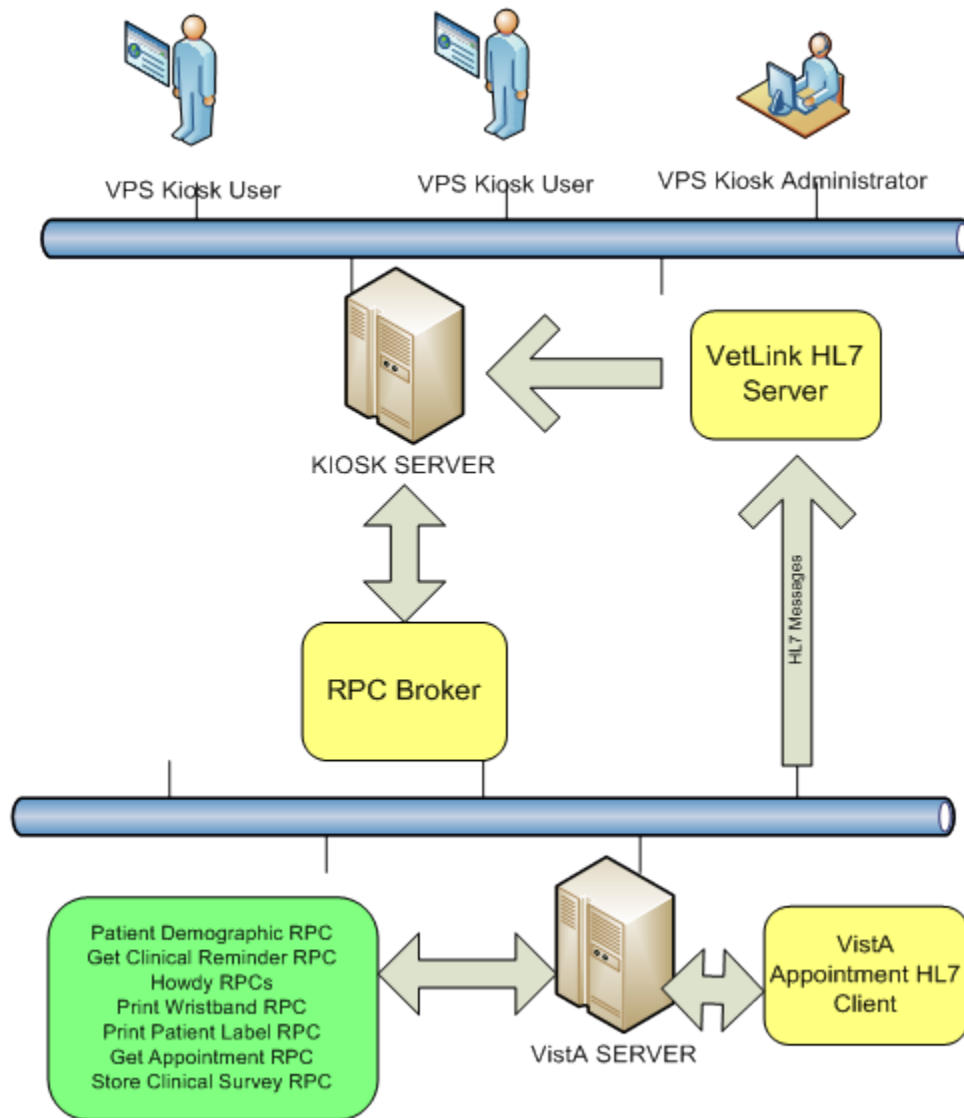


Figure 18 – VPS*1*3, VPS*1*4, and VPS*1*5 Environments and External Interfaces

3.3.4.2 Conceptual Production String Diagram

This section is not applicable to VPS*1*3, VPS*1*4, and VPS*1*5.

4 System Architecture

4.1 Hardware Architecture

No hardware changes are required for the VPS*1*3, VPS*1*4, and VPS*1*5 efforts.

4.2 Software Architecture

The VPS*1*3, VPS*1*4, and VPS*1*5 systems will consist of multiple VPS integration modules. The following tables describe each module that comprises the completed system.

*Table 3 – VPS*1*3 Components*

Medication Review and Allergy Review	
Patient Facing Application	Enable the patient to accurately report, verify, and comment on their medications and allergies; Improved communication between patient and provider
Staff Facing Application	Improve documentation of Medication Reconciliation activities; More efficient use of VA staff time and resources; Improved communication between patient and provider
CPRS User	Enable provider to retrieve MRAR as PDO in TIU Note

*Table 4 – VPS*1*4 Components*

Howdy Computerized Phlebotomy Lab process Integration	
Traditional Howdy	Allows scanning of the patient Veteran Identification Card (VIC) with accessioning of ordered lab tests and immediate printing of specimen labels.
Howdy PPOC	Allows scanning of the patient VIC with accessioning of ordered lab test but no printing of specimen labels. Labels are printed at the time the phlebotomist collects the specimen.
Both Howdy Versions	Captures tracking times for turn-around times.
Specimen / Wristband Label (VistA Printing Phase 2)	
Specimen and Wristband Label	Allows kiosk or staff user the ability to print Wristband and specimen labels. This includes barcodes in instances where none yet exists.
Clinical Reminder Integrating Kiosks (CRIK)	
Patient's perspective	Enables the patient to accurately discuss and verify their past and current health status with their clinician.
Staff's perspective	Allows staff to view and verify patient health history and review any Clinical Reminders that are listed as "Due Now" during the current visit
Clinician's perspective	Allows the clinician to access the patient's current and past Clinical Reminders history
Enhanced VPS Get Patient Demographics RPC	
Additional Data	This RPC adds additional data elements to the current call and/or creates an additional call specific to the grouping of information (i.e., an Orders only RPC) being requested from VistA. Examples include the patient's service-connected status, previous appointments, other meta-data relating to appointments (canceled date, user who canceled appointment, reason for cancelation, etc...), information about orders, consults, etc...

Patient's perspective	This additional information will be leveraged to present information to patients about their healthcare encounter (where applicable), inform patients the next steps to take as it relates to their encounter, and provide patients with additional access to their personal record.
Staff's perspective	This additional information will be used by VetLink to provide administrative staff with more information about the patients presenting for care. Additionally, it will be leveraged to present information to staff about the next steps to take as it relates to their encounter.

*Table 5- VPS*1*5 Components*

Appointment Status Integration	
Appointment Status Retrieval	This is a RPC that can be called to retrieve appointments with changed statuses.
Appointment Status Notification	When status of an appointment changed in VistA, this event subscriber component will send an HL7 message to VetLink.
Clinical Survey	
Store Clinical Screening Questionnaires (CSQ)	This RPC stores the CSQ and patient response in VistA
Patient's perspective	Allowing patient to accurately self-report on areas of concern by completing the appropriate questionnaire during their clinic visit.
Staff's perspective	Provide the ability for a staff/ Patient to conduct/complete Clinic Screening Questionnaires (e.g., Mental Health, Homelessness) on the VetLink kiosk or a VetLink tablet.
Clinician's perspective	Help identify any preventative care actions needed by the clinical staff during the current visit and/or perform any necessary interventions or referrals.

4.3 Network Architecture

No network changes are required for the VPS*1*3, VPS*1*4, and VPS*1*5 efforts.

4.4 Service Oriented Architecture / ESS

VPS*1*3, VPS*1*4, and VPS*1*5 systems are collection of public APIs (VistA RPCs). Figure 18 – VPS*1*3, VPS*1*4, and VPS*1*5 Environments and External Interfaces illustrates the interconnections and external interfaces in VPS system as a whole.

4.5 Enterprise Architecture

VPS*1*3, VPS*1*4, and VPS*1*5 systems adhere to the VA Technical Reference Model (TRM)/ Standards Profile (SP) the same way previous patches adhere to the approved standards and rules.

The current TRM/SP is located at [VA Enterprise Architecture \(EA\) v2.1](#).

5 Data Design

5.1 DBMS Files

No new DBMS files or fields are created or modified in the VPS*1*3, VPS*1*4, and VPS*1*5 efforts.

5.2 Non-DBMS Files

VPS*1*4 system do not require any non-DBMS file. However VPS*1*3 will require VistA files to store MRAR information and Kiosk Parameters update history. VPS*1*5 also will require a VistA file to store temporary appointments sent to VetLink for Appointment Status Integration and another Vista file to store Clinical Screening Questionnaires and patient responses for CSQ effort.

Section Database Information above details the data dictionary and storage structure for these files.

5.3 Data View

This section is not applicable to this development effort.

6 Detailed Design

6.1 Hardware Detailed Design

VPS*1*3, VPS*1*4, and VPS*1*5 systems are RPC development project. No new hardware is required for this effort.

6.2 Software Detailed Design

6.2.1 Conceptual Design

VPS*1*3, VPS*1*4, and VPS*1*5 RPCs will be developed using standard VistA RPC development techniques. The underlying codes will be written in the M language. Those RPCs, HL7 protocol and routines will be packaged as standard KIDS build.

6.2.1.1 Product Perspective

Figure 18 – VPS*1*3, VPS*1*4, and VPS*1*5 Environments and External Interfaces shows VPS*1*3, VPS*1*4, and VPS*1*5 in perspective with other related VPS components.

6.2.1.1.1 User Interfaces

Not applicable. VPS*1*3, VPS*1*4, and VPS*1*5 systems are machine-to-machine interface only.

6.2.1.1.2 Hardware Interfaces

Not applicable. VPS*1*3, VPS*1*4, and VPS*1*5 systems are RPC development effort only.

6.2.1.1.3 Software Interfaces

As with any other RPC development effort, the VPS*1*3, VPS*1*4, and VPS*1*5 patches enhancement will interface with VistA Kernel and FileMan.

6.2.1.1.4 Communications Interfaces

The communications architecture for this application utilizes the VA Wide Area Network (WAN) for access to the local VistA system via RPC Broker software.

6.2.1.1.5 Memory Constraints

There are no special memory constraints other than the existing memory constraints associated with any RPC development effort or executing RPC in VistA environment.

6.2.1.1.6 Special Operations

There are no special operations associated with VPS*1*3, VPS*1*4, and VPS*1*5 development effort.

6.2.1.2 Product Features

Table 2 – Functional Requirements describes product features developed in the VPS*1*3, VPS*1*4 and VPS*1*5 patches enhancement effort.

6.2.1.3 User Characteristics

Not applicable because all software is machine-to-machine only.

6.2.1.4 Dependencies and Constraints

VPS*1*3, VPS*1*4, and VPS*1*5 systems have no special dependencies and constraints that will limit the developer's options other than existing dependencies and constraint of VistA RPC development tool.

6.2.2 Specific Requirements

6.2.2.1 Database Repository

There is no special database repository required for VPS*1*4. VPS*1*3 will require new VistA files to store MRAR information and Kiosk Parameters update history. VPS*1*5 will require new VistA files to store appointments sent to VetLink for Appointment Status Integration and another file to store Clinical Survey Questionnaire and patient response for CSQ effort.

The systems will interact with existing VistA database. The RPCs will retrieve and update data stored in VistA database using standard mechanism.

6.2.2.2 System Features

Table 4 – VPS*1*4 Components and Table 5- VPS*1*5 Components detail VPS*1*4 and VPS*1*5 system features.

6.2.2.3 Design Elements - Remote Procedure Call (RPC)

6.2.2.3.1 Required Parameters

In the event that a required input parameter is missing in an RPC call, the system will return the error message "Required parameter missing" and will identify the missing parameter.

6.2.2.3.2 Medication Review and Allergy Review

MRAR allows Veterans and/or staff to report, verify, and comment on patients' medications and allergies. VPS*1*3 system provides RPCs for MRAR applications to store MRAR information and Kiosk Parameters update history.

6.2.2.3.2.1 Store Medication Review and Allergy Review RPC

Table 6 below describes Store MRAR data RPC.

Table 6 – VPS WRITE MRAR PDO RPC

RPC Name	VPS WRITE MRAR PDO
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.7.1, section 2.6.7.2, section 2.6.7.3
Input Parameters	<ol style="list-style-type: none"> 1. Patient Identifier Type <ol style="list-style-type: none"> a. Parameter Type: LITERAL b. Valid Type: <ul style="list-style-type: none"> • SSN (Social Security Number) • DFN (Vista Patient Internal ID) • ICN (VHA Integration Control Number) • VIC/CAC (Veterans Identifier Card/Common Access Card) 2. Patient Identifier Value for the Patient ID type <ol style="list-style-type: none"> a. Parameter type: LITERAL 3. Interface Module <ol style="list-style-type: none"> a. Parameter Type: LITERAL b. Valid Value: S for Staff-facing, P for Patient-facing 4. MRAR data to store <ol style="list-style-type: none"> a. Parameter Type: LIST ARRAY
Result	<p>MRAR data with update indicator (success or failed)</p> <p>Return Value Type: ARRAY</p> <p>Result Format:</p> <p>VPSPDO(1.n) = FIELD NAME^IENS^DATA^Result Indicator</p> <p>Result Indicator</p> <p>Success: 1 indicates the RPC successfully updates the MRAR field with the given value</p> <p>Failed: 99^exception message</p>
Routine Name	<p>ROUTINE: VPSMRAR1</p> <p>TAG: WRITE</p>
Data Dictionary & Global References	<p>File#: 853.5</p> <p>Global: ^VPS(853.5)</p>
Related Integration Agreements	None

6.2.2.3.2.2 Store Kiosk Parameters Update RPC

Table 7 below describes Store Kiosk Parameters Update RPC.

Table 7 – VPS WRITE KIOSK PARAMETERS

RPC Name	VPS WRITE KIOSK PARAMETERS
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.7.4
Input Parameters	<ol style="list-style-type: none"> 1. Parameter Type <ul style="list-style-type: none"> • Input Parameter Type: LITERAL • Valid Type: K for Kiosk Group, C for Clinic 2. Parameter Value <ul style="list-style-type: none"> • Input Parameter Type: LITERAL 3. Parameters to store <ul style="list-style-type: none"> • Input Parameter Type: ARRAY • Format: PARAM(1..n) = FIELDNAME^FIELD VALUE
Result	<p>PARAMETERS data with update indicator (success or failed)</p> <p>Return Value Type: ARRAY</p> <p>Result Format:</p> <p>VPSPARAM(1.n) = FIELD NAME^FIELD VALUE^Result Indicator</p> <p>Result Indicator</p> <p>Success: 1 indicates the RPC successfully updates the PARAMETER field with the given value</p> <p>Failed: 99^exception message</p>
Routine Name	<p>ROUTINE: VPSPARAM</p> <p>TAG: WRITE</p>
Data Dictionary & Global References	<p>File#: 853</p> <p>Global: ^VPS(853)</p>
Related Integration Agreements	None

6.2.2.3.2.3 Medication Review and Allergy Review Retrieval RPC

Table 8 below describes the MRAR data retrieval RPC.

Table 8 – VPS GET MRAR PDO RPC

RPC Name	VPS GET MRAR PDO
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.7.5
Input Parameters	<ol style="list-style-type: none"> 1. Patient Identifier Type <ol style="list-style-type: none"> a. Parameter Type: LITERAL b. Valid Type: <ul style="list-style-type: none"> o SSN (Social Security Number) o DFN (VistA Patient Internal ID) o ICN (VHA Integration Control Number) o VIC/CAC (Veterans Identifier Card/Common Access Card) 2. Patient Identifier Value for the Patient ID type <ol style="list-style-type: none"> a. Parameter type: LITERAL
Result	List of MRAR PDO Data Return Value Type: ARRAY Result Format: VPSPDO(1.n) = MRAR data as Free Text or Error Message
Routine Name	ROUTINE: VPSMRAR1 TAG: WRITE
Data Dictionary & Global References	File#: 853.5 Global: ^VPS(853.5)
Related Integration Agreements	None

6.2.2.3.2.4 Medication Review and Allergy Review Retrieval PDO

MRAR PDO routine is designed to return MRAR data as PDO so that it can be retained as patient TIU Note. Table 9 below describes the MRAR PDO.

Table 9 – Medication Review and Allergy Review PDO

PDO	S X=\$\$TIU^VPSPDO1(DFN,"^TMP("VPSPDO1","\$,J)")
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.7.5
Input Parameters	1. Patient IEN (DFN) Parameter Type: LITERAL
Result	List of MRAR PDO Data Return Value Type: ARRAY Result Format: VPSPDO(1.n) = MRAR data as Free Text or Error Message
Routine Name	ROUTINE: VPSMRAR1 TAG: WRITE
Data Dictionary & Global References	File#: 853.5 Global: ^VPS(853.5)
Related Integration Agreements	None

6.2.2.3.2.5 Update LAST MRAR TIU IEN RPC

Using VPS GET MRAR and TIU Note RPCs, TIU NOTE VetLink MRAR application may generate patient's last MRAR. In order to attach the newly created TIU Note with the MRAR data, Update Last MRAR TIU IEN RPC will be created. This RPC will update the patient's last MRAR with the TIU NOTE IEN. Table 10 below describes the Update last MRAR TIU IEN RPC.

Table 10 – VPS UPDATE LAST MRAR TIU IEN RPC

RPC Name	VPS UPDATE LAST MRAR TIU IEN
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.7.6
Input Parameters	<ol style="list-style-type: none"> 1. Patient Identifier Type Parameter Type: LITERAL Valid Type: <ul style="list-style-type: none"> • SSN (Social Security Number) • DFN (Vista Patient Internal ID) • ICN (VHA Integration Control Number) • VIC/CAC (Veterans Identifier Card/Common Access Card) 2. Patient Identifier Value for the Patient ID type Parameter type: LITERAL 3. TIU NOTE IEN
Result	<p>1 for successfully update the last patient MRAR with TIU NOTE IEN</p> <p>0^exception for problem updating the last patient MRAR with TIU Note IEN</p>
Routine Name	<p>ROUTINE: VPSMRAR3</p> <p>TAG: UPDATE</p>
Data Dictionary & Global References	<p>File#: 853.5</p> <p>Global: ^VPS(853.5)</p>
Related Integration Agreements	None

6.2.2.3.3 Howdy Computerized Phlebotomy Lab Process Integration

This system integrates the Howdy traditional queued printing (non-Bar Code Expansion) and non-queued (Bar-Code Expansion) Print at Point of Collection (PPOC) functionality into VetLink. This capability provides improved/enhanced patient satisfaction with check-in and lab collection activities. The following RPCs are required for the Howdy Integration.

6.2.2.3.3.1 Get Howdy Sites RPC

Table 11 below describes Get Howdy Sites RPC.

Table 11 – VPS GET HOWDY SITES RPC

RPC Name	LRHY GET SITES
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.2.1
Input Parameters	None
Result	<p>List of Howdy Site File Return Value Type: ARRAY Result Format: VPSHY(0) = 1 (Success) or -1 (Fail) flag ^ Error Message VPSHY(1..n) = HOWDY SITE FILE IEN ^ HOWDY SITE FILE NAME</p> <p>Example: VPSHY(0) = 1 VPSHY(1) = 2 ^ VAMC SITE ONE VPSHY(2) = 5 ^ VAMC SITE TWO</p> <p>If site not found VPSHY(0) = -1 ^ NO SITE FOUND</p>
Routine Name	ROUTINE: LRHYRP01 TAG: GETSITES
Data Dictionary & Global References	File#: 69.86 Global: ^LRHY(69.86
Related Integration Agreements	Integration Agreement with Howdy package is required Global: ^LRHY(69.86,"B",NAME,D0)

6.2.2.3.3.2 Get Howdy Site Printers RPC

Table 12 below describes Get Howdy Site Label Printers RPC.

Table 12 – VPS GET HOWDY SITE LABEL PRINTERS

RPC Name	LRHY GET SITE PRINTERS
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.2.2
Input Parameters	Howdy Site File IEN (Internal Entry Number) Parameter Type: LITERAL
Result	<p>List of Howdy Site's Printers Return Value Type: ARRAY Result Format: VPSHY(0) = 1 (Success) or -1 (Fail) flag ^ Error Message VPSHY(1..n) = HOWDY DEVICE IEN ^ HOWDY DEVICE NAME</p> <p>Example: VPSHY(0) = 1 VPSHY(1) = 2 ^ HOWDY PRINTER ONE VPSHY(2) = 5 ^ HOWDY PRINTER TWO</p> <p>If site not found VPSHY(0) = -1 ^ SITE NOT SELECTED If device not found VPSHY(0) = -1 ^ NO DEVICE FOUND</p>
Routine Name	ROUTINE: LRHYRP01 TAG: GETHYPRT
Data Dictionary & Global References	<p>File#: 69.86 (Howdy Site File) Global: ^LRHY(69.86)</p> <p>File#: 3.5 (Device) Global: ^%ZIS(1)</p>
Related Integration Agreements	<p>New Integration Agreement with HOWDY package is required File #69.86 Global: ^LRHY(69.86,D0,10,"B",NAME,D0)</p> <p>DBIA# 2963 File #3.5 (DEVICE) Global: %ZIS(1, Usage: CONTROLLED SUBS</p>

6.2.2.4 Get Howdy Bingo Board RPC

Table 13 below describes Get Howdy Bingo Board RPC.

Table 13 – VPS GET HOWDY BINGO BOARD RPC

RPC Name	LRHY GET BINGO BOARD
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.2.3
Input Parameters	Howdy Site File IEN (Internal Entry Number) Parameter Type: LITERAL
Result	<p>List of Howdy Site's Printers Return Value Type: ARRAY Result Format: VPSHY(0) = 1 (Success) or -1 (Fail) flag ^ Error Message VPSHY(1..n) = BINGO BOARD DEVICE IEN ^ BINGO BOARD NAME</p> <p>Example: VPSHY(0) = 1 VPSHY(1) = 2 ^ HOWDY BINGO BOARD ONE VPSHY(2) = 5 ^ HOWDY BINGO BOARD TWO</p> <p>If site not found VPSHY(0) = -1 ^ SITE NOT SELECTED If device not found VPSHY(0) = -1 ^ NO BINGO BOARD DEVICE FOUND</p>
Routine Name	ROUTINE: LRHYRP01 TAG: GETBINGO
Data Dictionary & Global References	<p>File#: 69.86 (Howdy Site File) Global: ^LRHY(69.86)</p> <p>File#: 3.5 (Device) Global: ^%ZIS(1)</p>
Related Integration Agreements	<ol style="list-style-type: none"> 1. New Integration Agreement with HOWDY package is required Global: ^LRHY(69.86,D0,54,"B",NAME,D0) 2. DBIA# 2963 File #3.5 (DEVICE) Global: %ZIS(1, Usage: CONTROLLED SUBS

6.2.2.5 Howdy Patient Check-in RPC

Table 14 below describes Howdy Patient Check-in RPC

Table 14 – VPS HOWDY PATIENT CHECK-IN RPC

RPC Name	LRHY PATIENT CHECK-IN
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.2.4 , section 2.6.2.5, section 2.6.2.6
Input Parameters	<ul style="list-style-type: none"> c. Patient Identifier Type d. Parameter Type: LITERAL e. Valid Type: <ul style="list-style-type: none"> • SSN (Social Security Number) • DFN (Vista Patient Internal ID) • ICN (VHA Integration Control Number) • VIC/CAC (Veterans Identifier Card/Common Access Card) f. Patient Identifier Value for the Patient ID type g. Parameter type: LITERAL h. Howdy Site IEN i. Parameter Type: LITERAL j. Howdy type <ul style="list-style-type: none"> a. Parameter Type: LITERAL b. 1 = Traditional; 2 = PPOC k. Label Printer Device IEN <ul style="list-style-type: none"> a. Parameter Type: LITERAL l. Bingo Board Device IEN <ul style="list-style-type: none"> a. Parameter Type: LITERAL
Result	<p>Result Format:</p> <p>RESULT(0) = Success or Fail flag</p> <p>Success Example:</p> <p>RESULT(0) = 0^HOWDY GREETINGS</p> <p>RESULT(1..N) = ORDER DATE^ORDER NUMBER</p> <p>Error:</p> <p>RESULT(0) = -1^No record for this person</p> <p>RESULT(0) = -1^No Lab Data Available... Please check with clerk at the Desk.</p> <p>RESULT(0) = -1^Please check with clerk at the Desk" (when multiple orders)</p> <p>RESULT(0) = -1^No Orders found. Please check with clerk at the Desk" (when no orders for the date range)</p>
Routine Name	ROUTINE: LRHYRP02 TAG: PTCHKIN
Data Dictionary & Global References	^LRHY(69.86 ^LRO(69 ^LAB(60 ^LAB(62 ^DPT

Related Integration Agreements	<ol style="list-style-type: none"> 1. New Integration Agreement with HOWDY package is required File #69.86 Global: ^LRHY(69.86, Routine: LRHYBLD 2. DBIA# 2407 File: #69 Global: ^LRO(69,D0,1, Global: ^LRO(69,D0,1,"AA" Global: ^LRO(69,D0,1,D1,2,"B" Global: ^LRO(69,D0,1,D1,2, Global: ^LRO(69,"C", Usage: Controlled Subscription 3. New Integration Agreement with LAB package is required Global: ^LRO(69,D0,1,D1,4 4. DBIA# 10054 Global: ^LAB(60,D0,0 Usage: Supported 5. DBIA# 2389 Global: ^LAB(62,D0,0 Usage: Private 6. DBIA# 10035 Global: ^DPT(D0,"LR" Usage: Supported 7. DBIA# 558 Routine: PT^LRX Usage: Private
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6.2.2.5.1 Specimen / Wristband Label (VistA Printing Phase 2)

VPS*1*4 will provide RPCs that print patient wristband labels and patient labels to be affixed on specimens. This will provide improved clinic staff productivity by eliminating the need to access a separate VistA session to generate print jobs. The following RPCs will be called by VetLink to print those labels.

6.2.2.5.1.1 Print Wristband Label RPC

Table 15 below describes Print Wristband Label RPC.

Table 15 – VPS PATIENT WRISTBAND PRINT RPC

RPC Name	VPS PATIENT WRISTBAND PRINT
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.4.3
Input Parameters	<ol style="list-style-type: none">1. Patient IEN<ol style="list-style-type: none">a. Parameter Type: LITERAL2. Bar Code Type<ol style="list-style-type: none">a. Parameter Type: LITERALb. Valid Type:<ul style="list-style-type: none">• SSN (Social Security Number)• EDIPI (Electronic Data Interchange Personal Identifier)3. Output Device (Name of the Vista printer used to print wristband label) Parameter type: LITERAL
Result	Successful or Failure Message <ol style="list-style-type: none">a. Return Value Type: SINGLE VALUEb. Success Message: 0m. Failure Message: -1^Error Message Example Failure Message: -1^NO DEVICE SENT -1^NO PATIENT SENT -1^PATIENT 100 NOT FOUND -1^NO WARD -1^DEVICE IN USE – TRY LATER
Routine Name	ROUTINE: VPSWRIST TAG: WRISTB
Data Dictionary & Global References	^DPT

Related Integration Agreements	1. DBIA# 10061 Routine/References: INP^VADPT Usage : SUPPORTED
	2. DBIA# 10035 File #2 (PATIENT) Global: ^DPT Usage: SUPPORTED
	3. DBIA# 5905 Routine/References: SET^DGPWB \$\$DIVISION^DGPWB Usage: PRIVATE
	4. DBIA# 2119 Routine/References: OPEN^%ZISUTL USE^%ZISUTL CLOSE^%ZISUTL Usage: SUPPORTED
	5. DBIA# 5888 Routine/References:RPCVIC^DPTLK Usage: SUPPORTED
	6. DBIA# 2701 Routine/References: \$\$GETDFN^MPIF001 Usage: SUPPORTED

6.2.2.5.1.2 Print Patient Label to affix on Specimen Container RPC

Table 16Table 16 below describes Print Patient Label RPC. This label will be affixed on Specimen container.

Table 16 – VPS PRINT PATIENT LABEL RPC

RPC Name	VPS PRINT PATIENT LABEL
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.4.1

Input Parameters	<ol style="list-style-type: none"> 1. Patient IEN <ol style="list-style-type: none"> a. Parameter Type: LITERAL 2. Bar Code Type <ol style="list-style-type: none"> a. Parameter Type: LITERAL b. Valid Type: <ul style="list-style-type: none"> • SSN (Social Security Number) • EDIPI (Electronic Data Interchange Personal Identifier) 3. Include Location Flag (Print Location Type) <ol style="list-style-type: none"> a. Parameter type: LITERAL b. Valid Type: <ul style="list-style-type: none"> • 1 : Include Location on the label • 0: Exclude Location on the label 4. Label Count (How many labels to print) <ol style="list-style-type: none"> a. Parameter type: LITERAL b. Valid Type: 1 to 250 5. Lines per label (maximum lines per label) <ol style="list-style-type: none"> a. Parameter type: LITERAL b. Valid Type: 6 to 25 6. Output Device (Name of the VistA printer used to print wristband label) <ol style="list-style-type: none"> a. Parameter type: LITERAL
Result	<ol style="list-style-type: none"> 1. Successful or Failure Message <ol style="list-style-type: none"> a. Return Value Type: SINGLE VALUE b. Success Message: 0 b. Failure Message: -1^Error Message Example Failure Message: -1^NO DEVICE SENT -1^NO PATIENT SENT -1^PATIENT 100 NOT FOUND -1^WARD LOCATION IS UNDEFINED -1^LABEL COUNT IS UNDEFINED -1^LINES PER LABEL IS UNDEFINED -1^DEVICE IN USE – TRY LATER -1^INVALID NUMBER OF LABELS COUNT -1^INVALID NUMBER OF LINES PER LABEL
Routine Name	ROUTINE: VPSRLBLS TAG: LABEL
Data Dictionary & Global References	^DPT

Related Integration Agreements	<ol style="list-style-type: none"> DBIA# 10061 Routine/References: INP^VADPT Usage : SUPPORTED DBIA# 10035 File #2 (PATIENT) Global: ^DPT(Usage: SUPPORTED DBIA# 5904 Routine/References: START^DGPLBL Usage: PRIVATE DBIA# 2119 Routine/References: OPEN^%ZISUTL USE^%ZISUTL CLOSE^%ZISUTL Usage: SUPPORTED DBIA# 5888 Routine/References: RPCVIC^DPTLK Usage: SUPPORTED DBIA# 2701 Routine/References: \$\$GETDFN^MPIF001 Usage: SUPPORTED
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6.2.2.5.1.3 VistA Printers Retrieval RPC

The following Table 17 describes Output Device retrieval RPC to return list of the first 20 VistA printers starting with an input device so that the RPC can be used in the VPS Kiosk application for printer selection. This RPC may be called repetitively starting with the last device to get the desired printer.

Table 17 – ORWU DEVICE RPC

RPC Name	ORWU device
Enhancement Category	EXISTING RPC
RTM(RSD)	RSD section 2.6.4.4
Input Parameters	<ol style="list-style-type: none"> Start From Device (Return list of devices start with this value) <ol style="list-style-type: none"> Parameter Type: LITERAL Direction Flag (Return in ascending or descending order) <ol style="list-style-type: none"> Parameter Type: LITERAL Valid Value: <ul style="list-style-type: none"> 1: Ascending Order -1: Descending Order
Result	<ol style="list-style-type: none"> List of 20 printers start with the "Start From Device" input parameter <ol style="list-style-type: none"> Return Value Type: ARRAY
Routine Name	ROUTINE: ORWU TAG: DEVICE

Data Dictionary & Global References	^%ZIS(1)
Related Integration Agreements	<ol style="list-style-type: none"> 1. DBIA# 10114 File #3.5 (DEVICE) Global: ^%ZIS(1) Usage: Supported 2. DBIA# 1837 Remote Procedure: ORWU DEVICE Custodial package: ORDER ENTRY/RESULTS REPORTING Usage : PRIVATE 3. DBIA# 10035 File #2 (PATIENT) Global: ^DPT(Usage: SUPPORTED 4. DBIA# 5904 Routine/References: START^DGPLBL Usage: PRIVATE 5. DBIA# 2119 Routine/References: OPEN^%ZISUTL USE^%ZISUTL CLOSE^%ZISUTL Usage: SUPPORTED 6. DBIA# 5888 Routine/References: RPCVIC^DPTLK Usage: SUPPORTED 7. DBIA# 2701 Routine/References: \$\$GETDFN^MPIF001 Usage: SUPPORTED

6.2.2.5.2 Detailed Processes of Clinical Reminders Integrating Kiosks (CRIK) – Phase 1

To integrate with Clinical Reminders, VPS*1*4 will provide RPCs that extract a patient's 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.

6.2.2.5.2.1 Get Clinical Reminders RPC

Table 18 below describes Get Clinical Reminders RPC.

Table 18 – Get Clinical Reminders RPC

RPC Name	VPS GET CLINICAL REMINDERS
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.1
Input Parameters	<ol style="list-style-type: none"> 1. Patient IEN <ol style="list-style-type: none"> a. Parameter Type: LITERAL 2. Division IEN <ol style="list-style-type: none"> a. Parameter type: LITERAL 3. Service IEN <ol style="list-style-type: none"> a. Parameter type: LITERAL 4. Location IEN <ol style="list-style-type: none"> a. Parameter type: LITERAL 5. User Class IENs <ol style="list-style-type: none"> a. Parameter type: LITERAL 6. User IEN <ol style="list-style-type: none"> a. Parameter type: LITERAL
Result	<ol style="list-style-type: none"> 1. If successful returns a list of "Due Now" Clinical Reminders for a given patient <ol style="list-style-type: none"> a. Return Value Type: Array b. Result Format: RESULT(1..n) = IEN^NAME^DUE DATE^LASTDATE^PRIORITY^STATUS IEN : Clinical Reminder Internal Entry Number NAME: Clinical Reminder Name DUE DATE: Reminder Due Date LASTDATE: Last Performed Date PRIORITY: Priority Status: Status c. Example: 518085^Colorectal Cancer Screen^DUE NOW^2^1 518080^Influenza Vaccine ^3031023.1115^3021023.1115^1^1 46^Hepatitis C Antibody Testing^DUE NOW^2^1 120^CO-DEPRESSION SCREEN/FU ASSESSMENT^DUE NOW^2^1
Routine Name	ROUTINE: VPSPTCR TAG: REMIND
Data Dictionary & Global References	

Related Integration Agreements	<ol style="list-style-type: none"> 1. DBIA# 2263 Routine/References: GETLST^XPAR GETWP^XPAR Usage : SUPPORTED 2. DBIA# 2051 Routine/References: FIND1^DIC Usage : SUPPORTED 3. DBIA# 2056 Routine/References: GET1^DIQ Usage : SUPPORTED 4. DBIA# 2182 Routine/References: MAIN^PXR Usage: CONTROLLED SUBSCRIPTION 5. DBIA# 3333 Routine/References: CATREM^PXRMAP10 Usage: CONTROLLED SUBSCRIPTION
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6.2.2.5.3 Detailed Processes of Enhanced VPS Get Patient Demographics RPC

VPS*1*1 currently exchanges/provides VetLink basic patient demographic data such as name, address, gender, and insurance coverage. VPS*1*4 will expand the demographic data provided to VetLink. The addition data provided in VPS*1*4 will enhance the ability of outpatient clinic staff to respond to patient questions and health care concerns.

6.2.2.5.3.1 Enhanced Get Patient Demographics RPC

Table 19 below describes the Enhanced Get Patient Demographics RPC.

Table 19 – Enhanced Get Patient Demographics

RPC Name	VPS ENHANCED GET PATIENT DEMOGRAPHICS
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.1
Input Parameters	<ul style="list-style-type: none">• Patient Identifier Type<ul style="list-style-type: none">a. Parameter Type: LITERALb. Valid Type:<ul style="list-style-type: none">• SSN (Social Security Number)• DFN (VistA Patient Internal ID)• ICN (VHA Integration Control Number)• VIC/CAC (Veterans Identifier Card/Common Access Card)• Patient Identifier Value for the Patient ID type<ul style="list-style-type: none">a. Parameter type: LITERAL• Categories: multiple group of fields to return.<ul style="list-style-type: none">a. Parameter Type: LITERALb. Valid Groups:<ul style="list-style-type: none">1 - Appointment (Date Range)2 - Lab Orders (Date Range)3 – Consults4 – Radiology (Date Range)5 - Problem6 – Patient Characteristicsc. Date Range Format: FILEMAN FROM DATE:FILEMAN TO DATEd. Each category is delimited by “;” <p>Input Parameter Format: PATIENT ID TYPE^PATIENT ID^CATEGORIES</p> <p>Sample Input parameter with date range SSN 555555555 1:3140101:3141231;6;3;2:3140601:3140630</p> <p>For patient with SSN 555555555 return</p> <ul style="list-style-type: none">a. appointments start from 1/1/2014 to 12/31/2014b. patient demographic informationc. Patient's consultsd. Lab orders start from 6/1/2014 to 6/20/2014

Result	<p>If successful returns a list of demographic, enrollment, and clinic data including scheduled appointment, order, consult, imaging, and auditing information for the identified patient</p> <p>Return Value Type: ARRAY</p> <p>Result Format: VPSARR(1..n) = FILE^IEN^FLD^FLDVAL FILE : File Number IEN : Internal Entry Number FLD: Field Number FLDVAL: Field Value</p> <p>Example: ELIGIBILITY STATUS DATE VPSARR(1) = 2^100^.3612^3001231 MEANS TEST STATUS VPSARR(2) = 2^3^.14^EXEMPT</p> <p>Error Format VPSARR(1) = -1 ^ Error Message</p> <p>Error Example: VPSARR(1)= -1^SSN, DFN,ICN,OR VIC/CAC IS REQUIRED</p>
Routine Name	ROUTINE: VPSRPC1 TAG: GETGRPS
Data Dictionary & Global References	<p>Global References:</p> <ul style="list-style-type: none"> ^AUPNPROB("AC",) ^AUPNPROB ^AUTNPOV ^DPT ^DIC(5 ^DIC(8 ^DIC(9.4 ^DIC(21 ^DIC(22 ^DIC(23 ^DIC(31 ^DG(391 ^DGEN(27.11 ^DGMT(408.31 ^DG(408.32 ^LAB(60 ^LAB(62.5 ^LEX(757.01 ^LRO(69 ^IBA(354 ^ICD9 ^PXD(811.9 ^ORD(100 ^SC ^SD(409.2 ^RAO(75.1 ^VA(200 ^%ZIS(1 <p>New Fields to return PATIENT(#2): ELIGIBILITY STATUS DATE #.3612 MEANS TEST STATUS #.14 PERIOD OF SERVICE (.32,2) FUGITIVE FELON FLAG #1100.01 PATIENT TYPE #391</p>

	<p> 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) CURRENT STATUS (2.001,1) DATE OF ENROLLMENT (2.011, .01) OPT OR AC (2.011,1) SERVICE (2.011,2) DATE OF DISCHARGE (2.011,3) REASON FOR DISCHARGE (2.011,4) REVIEW DATE (2.011,5) CONFIDENTIAL ADDRESS ACTIVE #.14105 CONFIDENTIAL STREET [LINE 1] #.1411 CONFIDENTIAL STREET [LINE 2] #.1412 CONFIDENTIAL STREET [LINE 3] #.1413 CONFIDENTIAL ADDRESS CITY #.1414 CONFIDENTIAL ADDRESS STATE #.1415 CONFIDENTIAL ADDRESS COUNTY #.14111 CONFIDENTIAL ADDRESS ZIP CODE #.1416 CONFIDENTIAL ADDR POSTAL CODE #.14115 CONFIDENTIAL ADDR COUNTRY #.141165 CONFIDENTIAL START DATE #.1417 CONFIDENTIAL END DATE #.1418 CONFIDENTIAL PHONE NUMBER START DATE #. CONFIDENTIAL ADDRESS CATEGORY (MULTIPLE 2.141, .01) LABORATORY REFERENCE #63 MISSING PERSON DATE #.153 MISSING OR INELIGIBLE #.16 MISSING PERSON TWX SOURCE #.1657 MISSING PERSON TWX CITY #.1658 MISSING PERSON TWX STATE #.1659 SERVICE CONNECTED (MULTIPLE 2.04,3) SC AWARD DATE #.3012 EFF. DATE COMBINE SC% EVAL #.3014 UNEMPLOYABLE #.305 VESTED STATUS (COMPUTED) </p> <p>ACTIVITY DATE</p> <p> ADDRESS CHANGED DT/TM #.1113 TEMPORARY ADDRESS CHANGE DT/TM #.12113 CONFIDENTIAL ADDR CHANGE DT/TM #.14112 RESIDENCE NUMBER CHANGE DT/TM #.1321 PAGER NUMBER CHANGE DT/TM #.1113 CELLULAR NUMBER CHANGE DT/TM #.139 EMAIL ADDRESS CHANGE DT/TM #.136 E-CONTACT CHANGE DATE/TIME #.3322 E2-CONTACT CHANGE DATE/TIME #.3322 DESIGNEE CHANGE DATE/TIME #.3323 PRIMARY NOK CHANGE DATE/TIME #.2121 SECONDARY NOK CHANGE DATE/TIME #.2122 </p> <p>RATED DISABILITIES (#2.04)</p> <p> SERVICE CONNECTED #.2 EXTREMITY AFFECTED #4 DISABILITY % #2 SERVICE CONNECTED #3 </p>
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	ORIGINAL EFFECTIVE DATE #5 CURRENT EFFECTIVE DATE #6 APPOINTMENTS (#2.98) APPOINTMENT DATE/TIME #.001 CLINIC #.01 STATUS #3 NOSHOW/CANCELLED BY #14 NO SHOW/CANCELLED DATE/TIME #15 CANCELLATION REASON #16 CANCELLATION REMARKS #17 PATIENT ENROLLMENT (#27.11) PRIMARY ELIGIBILITY CODE #.361 SERVICE CONNECTED? #.301 SERVICE CONNECTED PERCENTAGE #.302 AEL;0 ENROLLMENT DATE #.1 EFFECTIVE DATE #.08 ENROLLMENT PRIORITY #7 SOUTHEAST ASIA CONDITIONS ("E",13) LABORATORY ORDER ENTRY (\$69) DATE/TIME OF COLLECTION #5.5 TEST/PROCEDURE #.01 ORDER # (NUMBER) #9.5 URGENCY #1 STATUS #8 BILLING PATIENT (#354) COPAY INCOME EXEMPTIONS STATUS #0.4 REMINDER DEFINITION (#811.9) PRIORITY #1.91 PRINT NAME #1.2 INACTIVE FLAG #1.6 USAGE #103 OTHER EXPRESSIONS (#757.01) CANCELLATION REASONS(\$409.2) MEANS TEST STATUS (#408.32) ICD DIAGNOSIS (#80) LABORATORY TEST (#60) DISABILITY CONDITION(#31) PRIMARY ELIGIBILITY CODE (#8) PERIOD OF SERVICE (#23) POW PERIOD (#22) BRANCH OF SERVICE (#23) ANNUAL MEANS TEST (\$408.31) HARDSHIP #.2 PROBLEM (#90000011) DIAGNOSIS #.01 DATE LAST MODIFIED #.03 PROVIDER NARRATIVE #.05 FACILITY #.06 DATE ENTERED #.08 STATUS #.12 PROBLEM #1.01 CONDITION #1.02
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	ENTERED BY #1.03 RECORDING PROVIDER #1.04 RESPONSIBLE PROVIDER #1.05 PROVIDER NARRATIVE (#99999999.27)
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Related Integration Agreements	<ol style="list-style-type: none"> 1. DBIA# 10061 Routine: VADPT Usage : SUPPORTED 2. DBIA# 10035 File #2 (PATIENT) Global: ^DPT Usage: SUPPORTED 3. DBIA# 4433 Routine: SDAMA301 Usage: SUPPORTED 4. DBIA# 10114 File #1 (DEVICE) Global: ^%ZIS(1 Usage: SUPPORTED 5. DBIA# 248 File #4.2 (DOMAIN) Global: ^DIC(4.2 Usage: CONTROLLED SUBS 6. DBIA# 10056 File #5 (STATE) Global: ^DIC(5 Usage: SUPPORTED 7. DBIA# 10048 File #9.4 (PACKAGE) Global: ^DIC(9.4 Usage: SUPPORTED 8. DBIA# 427 File #8 (ELIGIBILITY CODE) Global: ^DIC(8 Usage: CONTROLLED SUBS 9. DBIA# 913 File #21 (PERIOD OF SERVICE) Global: ^DIC(21 Usage: CONTROLLED SUBS 10. DBIA# 935 File #22 (POW PERIOD) Global: ^DIC(22 Usage: CONTROLLED SUBS 11. DBIA# 1385 File #23 (BRANCH OF SERVICE) Global: ^DIC(23 Usage: CONTROLLED SUBS 12. DBIA# 2462 File #27.11 (PATIENT ENROLLMENT) Global: ^DGEN(27.11 Usage: CONTROLLED SUBS 13. DBIA# 142 File #31 (DISABILITY CONDITION) Global: ^DIC(31 Usage: CONTROLLED SUBS
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	<p>14. DBIA# 10040 File #44 (HOSPITAL LOCATION) Global: ^SC Usage: SUPPORTED</p> <p>15. DBIA# 5388 File #80 (ICD DIAGNOSIS) Global: ^ICD9(Usage: SUPPORTED</p> <p>16. DBIA# 10060 File #200 (NEW PERSON) Global: ^VA(200 Usage: SUPPORTED</p> <p>17. DBIA# 1112 File #391 (PATIENT TYPE) Global: ^DG(Usage: CONTROLLED SUBS</p> <p>18. DBIA# 968 File #408.31 (ANNUAL MEANS TEST) Global: ^DGMT(408.31 Usage: PRIVATE</p> <p>19. DBIA# 4941 File #408.32 (MEANS TEST STATUS) Global: ^DG(408.32 Usage: CONTROLLED SUBS</p> <p>20. DBIA# 457 File #757.01 (EXPRESSIONS) Global: ^GMP(757.01 Usage: SUPPORTED</p> <p>21. DBIA# 2182 Routine/References: PXR Usage: CONTROLLED SUBS</p> <p>22. DBIA# 326 File #9000011 (PROBLEM) Global: ^AUPNPROB Usage: PRIVATE</p> <p>23. DBIA# 5905 Routine/References: SET^DGPWB DIVISION^DGPWB Usage : PRIVATE</p> <p>24. DBIA# 5888 Routine/References: RPCVIC^DPTLK Usage : SUPPORTED</p> <p>25. DBIA# 2701 Routine/References: GETDFN^MPIF001 Usage: SUPPORTED</p> <p>26. DBIA# NEW REQUEST Routine/References: PCDETAIL^ORWPT1 Usage: PRIVATE</p>
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	<p>27. DBIA# 1671 Routine/References: LIST^ORQQCN Usage: CONTROLLED SUBS</p> <p>28. DBIA# 1672 Routine/References: DETAIL^ORQQCN Usage: CONTROLLED SUBS</p> <p>29. DBIA# 2043 Routine References: EN1^RAO7PC1 Usage: SUPPORTED</p>
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6.2.2.5.3.2 Get2 Patient Demographics RPC

Table 20 below describes the Get2 Patient Demographics RPC.

This RPC is modified to return additional patient demographic fields as described in the Enhanced patient Demographic RPC.

Table 20 – GET2 PATIENT DEMOGRAPHICS RPC

RPC Name	VPS GET2 PATIENT DEMOGRAPHICS
Enhancement Category	modified RPC
RTM(RSD)	RSD section 2.6.1

Input Parameters	<p>4. Patient Identifier Value for the Patient ID type a. Parameter type: LITERAL</p> <p>5. Patient Identifier Type a. Parameter Type: LITERAL b. Valid Type: <ul style="list-style-type: none"> o SSN (Social Security Number) o DFN (VistA Patient Internal ID) o ICN (VHA Integration Control Number) o VIC/CAC (Veterans Identifier Card/Common Access Card) </p> <p>Input Parameter Format: PATIENT ID^ PATIENT ID TYPE</p> <p>Sample Input parameter DFN 5555</p> <p>For patient with DFN return information for all categories 1 - Appointment (Date Range) 2 - Lab Orders (Date Range) 3 - Consults 4 - Radiology (Date Range) 5 - Problem 6 - Patient Characteristics</p> <p>Starting date in the date range will be defaulted to the default values used in CPRS. Ending date will be defaulted as the end-date (last FileMan valid date)</p>
Result	Same as VPS ENHANCED GET PATIENT DEMOGRAPHICS
Routine Name	ROUTINE: VPSRPC1 TAG: GETDATA2
Data Dictionary & Global References	Same as VPS ENHANCED GET PATIENT DEMOGRAPHICS
Related Integration Agreements	Same as VPS ENHANCED GET PATIENT DEMOGRAPHICS

6.2.2.5.3.3 Get Patient Demographics RPC

Table 21 below describes the Get Patient Demographics RPC.

This RPC is modified to return additional patient demographic fields as described in the Enhanced Patient Demographic RPC.

Table 21 – GET PATIENT DEMOGRAPHICS RPC

RPC Name	VPS GET PATIENT DEMOGRAPHICS
Enhancement Category	modified RPC
RTM(RSD)	RSD section 2.6.1

Input Parameters	<p>Patient SSN Parameter type: LITERAL</p> <p>Input Parameter Format: PATIENT SSN</p> <p>Sample Input parameter 555667777</p> <p>For patient with SSN 555667777 return information for all categories Appointment (Date Range) Lab Orders (Date Range) Consults Radiology (Date Range) Problem Patient Characteristics</p> <p>Starting date in the date range will be defaulted to the default values used in CPRS. Ending date will be defaulted as the end-date (last FileMan valid date)</p>
Result	Same as VPS ENHANCED GET PATIENT DEMOGRAPHICS
Routine Name	<p>ROUTINE: VPSRPC1 TAG: GETDATA</p>
Data Dictionary & Global References	Same as VPS ENHANCED GET PATIENT DEMOGRAPHICS
Related Integration Agreements	Same as VPS ENHANCED GET PATIENT DEMOGRAPHICS

6.2.2.5.4 Detailed Processes of Appointment Status Integration

The goal of this integration is to synchronize VetLink and VistA appointments so that VetLink will be able to display VistA current appointments and their statuses in VetLink application. Two methods are employed to full-fill the requirements. The first is the retrieval method (on demand) using Get Appointment RPCs.; Another is using the HL7 interface to send HL7 appointment messages (real time) to VetLink.

6.2.2.5.4.1 Get Appointments RPC

This RPC is designed to return appointments for a given date range for a specific Appointment Queue and also store the appointments into a temporary file. The second RPC, Get Changed Appointment, will use this temporary file to filter out the “non status changed” appointments.

Table 22 below describes the Get Appointment RPC.

Table 22 – GET APPOINTMENTS

RPC Name	VPS GET APPOINTMENTS
Enhancement Category	New RPC
RTM(RSD)	RSD section 2.6.5.3
Input Parameters	<p>QUEUE ID: Representing the VetLink's appointment queue Parameter type: LITERAL</p> <p>From Date Parameter type: LITERAL Fileman Date Format</p> <p>Through Date Parameter type: LITERAL Fileman Date Format</p>
Result	<p>Global array containing all appointments for given date range. Format: TODO^APPOINTMENT ID^<FIELDS SECTION></p> <p>TODO: Instruct VetLink to add the appointments or notify for any error</p> <p>APPOINTMENT ID: Represent appointment record in VPS Appointment queue</p> <p>FIELDS SECTION: Depend on TODO, this could be either appointment field values or error message. Format: CLINIC IEN^CLINIC NAME^APPT DATE^DFN^PATIENT NAME^SSN^EMAIL ADDRESS^APPT TYPE IEN^APPT TYPE NAME^STATUS IEN^STATUS NAME^PRINTED STATUS^CHECK-IN DATE^CHECK-OUT DATE</p>
Routine Name	ROUTINE: VPSAPPT TAG: GET
Data Dictionary & Global References	<p>Files: #853.9 (VPS APPOINTMENT QUEUE) #2.98 (Patient Appointment)</p> <p>Global References: ^DPT</p>

Related Integration Agreements	<ol style="list-style-type: none"> 1. DBIA #10035 Global: ^DPT Usage: Supported 2. DBIA #4433 Routine: SDAMA301 Usage: Supported
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6.2.2.5.4.2 Get Changed Appointments RPC

This RPC is designed to minimize number of appointments returned to VetLink by filtering out the “non status changed” appointments. While the ‘VPS Get Appointments’ RPC initializes the VetLink’s appointment queue, this RPC should be called to refresh the contents of the queue.

Table 23 below describes Get Changed Appointments RPC.

Table 23 – GET CHANGED APPOINTMENTS

RPC Name	VPS GET CHANGED APPOINTMENTS
Enhancement Category	New RPC
RTM(RSD)	RSD section 2.6.5.3
Input Parameters	QUEUE ID: Representing the VetLink's appointment queue Parameter type: LITERAL
Result	Global array containing the new, updated and deleted appointments. Format: TODO^APPOINTMENT ID^<FIELDS SECTION> TODO: Instruct VetLink to add the appointments or notify for any error APPOINTMENT ID: Represent appointment record in VPS Appointment queue FIELDS SECTION: Depend on TODO, this could be either appointment field values or error message. Format: CLINIC IEN^CLINIC NAME^APPT DATE^DFN^PATIENT NAME^SSN^EMAIL ADDRESS^APPT TYPE IEN^APPT TYPE NAME^STATUS IEN^STATUS NAME^PRINTED STATUS^CHECK-IN DATE^CHECK-OUT DATE
Routine Name	ROUTINE: VPSAPPT TAG: GETCHG
Data Dictionary & Global References	Files: #853.9 (VPS APPOINTMENT QUEUE) #2.98 (Patient Appointment) Global References: ^DPT
Related Integration Agreements	a. DBIA #10035 Global: ^DPT Usage: Supported b. DBIA #4433 Routine: SDAPI^SDAMA301 Usage: Supported

6.2.2.5.4.3 VPS SEND APPOINTMENT

For real-time update, VPS*1*5 will subscribe to SDAM APPOINTMENT EVENTS. When any event fires, the VPS SEND APPOINTMENT will be triggered and send HL7 message to VetLink's HL7 Server. Table 24 below describes the subscriber protocol and Section 6.2.2.5.10 shows how the protocol could be created.

Table 24 – VPS SEND APPOINTMENT PROTOCOL

Protocol	VPS SEND APPOINTMENT
Enhancement Category	New Protocol
RTM(RSD)	RSD section 2.6.5.1 and 2.6.5.2
Message Sent	CLINIC IEN^CLINIC NAME^APPT DATE^DFN^PATIENT NAME^SSN^EMAIL ADDRESS^APPT TYPE IEN^APPT TYPE NAME^STATUS IEN^STATUS NAME^PRINTED STATUS^CHECK-IN DATE^CHECK-OUT DATE
Result	Acknowledgement from HL7 Server
Routine Name	ROUTINE: VPSEND TAG: EN
Data Dictionary & Global References	Files: #853.9 (VPS APPOINTMENT QUEUE) #2.98 (Patient Appointment) Global References: ^DPT
Related Integration Agreements	1. DBIA #10035 Global: ^DPT Usage: Supported 2. DBIA #4433 Routine: SDAPI^SDAMA301 Usage: Supported

6.2.2.5.5 Detailed Processes of Clinical Survey Questionnaires

The goal of this integration is to have the ability to store and query data in VistA, the VPS Clinical Screening Questionnaire files.

6.2.2.5.5.1 Save Clinical Survey Questionnaire RPC

The VPS SAVE CLINICAL SURVEY RPC is designed to save clinical survey questionnaire entered for a given patient. Table 25 below describes the VPS SAVE CLINICAL SURVEY RPC.

Table 25 – VPS SAVE CLINICAL SURVEY

RPC Name	VPS SAVE CLINICAL SURVEY
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.6.2
Input Parameters	<ol style="list-style-type: none"> 1. Patient IEN <ol style="list-style-type: none"> a. Parameter Type: LITERAL 2. Questionnaire IEN <ol style="list-style-type: none"> a. Parameter Type: LITERAL 3. Questionnaire Name <ol style="list-style-type: none"> a. Parameter Type: LITERAL 4. Date and Time Taken <ol style="list-style-type: none"> a. Parameter Type: LITERAL 5. Date and Time Last Modified <ol style="list-style-type: none"> a. Parameter Type: LITERAL 6. Interviewer Staff <ol style="list-style-type: none"> a. Parameter Type: LITERAL 7. Questions Presented <ol style="list-style-type: none"> n. Parameter Type: ARRAY 8. Responses Provided <ol style="list-style-type: none"> a. Parameter Type: ARRAY 9. Calculated Values <ol style="list-style-type: none"> a. Parameter Type: ARRAY 10. Survey Calculated Value <ol style="list-style-type: none"> a. Parameter Type: LITERAL 11. Completion Status <ol style="list-style-type: none"> a. Parameter Type: LITERAL 12. Patient Safety Flag <ol style="list-style-type: none"> a. Parameter Type: LITERAL 13. Immediate Action Indicator <ol style="list-style-type: none"> a. Parameter Type: LITERAL
Result	<p>Result Format:</p> <p>RESULT(0) = Success or Fail flag</p> <p>RESULT(1) = Survey Data IEN</p> <p>Example:</p> <p>RESULT(0) = 1 (Success)</p> <p>RESULT(1) = 100</p> <p>If error</p> <p>RESULT(0) = -1 ^ Error Message</p>
Routine Name	<p>ROUTINE: VPSSRVY1</p> <p>TAG: SAVERPC</p>
Data Dictionary & Global References	<p>File: VPS CLINICAL SURVEY (#853.8)</p> <p>Global: ^VPS(853.8)</p>
Related Integration Agreements	TBD

6.2.2.5.5.2 Get Clinical Survey Questionnaire RPC

The VPS GET CLINICAL SURVEY RPC is designed to return questionnaire survey data for a given patient. RPC can return data for specific Questionnaire IENs, Name, Date range for when Survey was taken, or based on number of last occurrences. Table 26 below describes the VPS GET CLINICAL SURVEY RPC.

Table 26 – VPS GET CLINICAL SURVEY RPC

RPC Name	VPS GET SURVEY DATA
Enhancement Category	NEW RPC
RTM(RSD)	RSD section 2.6.6.3
Input Parameters	<ol style="list-style-type: none"> 1. Patient IEN <ol style="list-style-type: none"> o. Parameter Type: LITERAL 2. Questionnaire IEN <ol style="list-style-type: none"> a. Parameter Type: LITERAL 3. Questionnaire Name <ol style="list-style-type: none"> a. Parameter Type: LITERAL 4. Date From <ol style="list-style-type: none"> a. Parameter Type: LITERAL 5. Date To <ol style="list-style-type: none"> a. Parameter Type: LITERAL 6. No Of Occurrences <ol style="list-style-type: none"> a. Parameter Type: LITERAL
Result	<p>Result Format:</p> <p>RESULT(0) = Success or Fail flag</p> <p>RESULT(1,3....n) = Survey Data IEN ^ Patient DFN ^ Patient Name ^ Questionnaire IEN ^ Questionnaire Name ^ Date and Time Taken ^ Date and Time Last Modified ^ Staff Interviewer IEN ^ Staff Interviewer Name ^ Survey Calculated Value ^ Patient Safety Flag</p> <p>RESULT(2,4....n+1) = Question ^ Response ^ Calculated value</p> <p>Example:</p> <p>RESULT(0) = 1 (Success) ^ 2 (No of questionnaires found)</p> <p>RESULT(1) = 2 ^ 100 ^ TEST, PATIENT ^ 20 ^ PTSD Survey ^ 8/20/14 3:15pm ^ 8/20/14 4:00pm ^ ^ ^ 5 ^ Yes</p> <p>RESULT(2) = Are you a smoker? ^ Yes ^ 1 ^ How many packs per week? ^ 3 ^ 1</p> <p>If unsuccessful:</p> <p>RESULT(0) = -1 ^ Patient not found</p> <p>RESULT(0) = -1 ^ No questionnaires found</p>
Routine Name	ROUTINE: VPSSRVY2 TAG: GETRPC
Data Dictionary & Global References	File: VPS CLINICAL SURVEY (#853.8) Global: ^VPS(853.8)
Related Integration Agreements	TBD

6.2.2.5.5.3 Get Clinical Survey Questionnaire PDO

This code is designed to return questionnaire survey data for a given patient as PDO and Health Summary in CPRS, in formatted text. Code can return data for specific Questionnaire IENs, Name, Date range for when Survey was taken, or based on number of last occurrences. Table 27 below describes the VPS GET CLINICAL SURVEY PDO

Table 27 - VPS GET CLINICAL SURVEY PDO

PDO	S X=\$\$GETRPT^VPSSRVY3(DFN,"^TMP("VPSSRVY3",,\$J))
Enhancement Category	NEW CODE
RTM(RSD)	RSD section 2.6.6.3
Input Parameters	1. Patient IEN a. Parameter Type: LITERAL
Result	<p>Result Format: The name of the global array where each line of Questionnaire output will be stored</p> <p>RESULT(0) = Success or Fail flag</p> <p>RESULT(1....n) = Formatted Questionnaire data</p> <p>Example:</p> <p>RESULT(0) = 1 (Success) ^ 2 (No of questionnaires found)</p> <p>RESULT(1) = Patient Name: TEST, PATIENT</p> <p>RESULT(2) = Questionnaire IEN: 20</p> <p>RESULT(3) = Questionnaire Name: PTSD Survey</p> <p>RESULT(4) = Date and Time Taken: 8/20/14 3:15pm</p> <p>RESULT(5) = Date and Time Last Modified: 8/20/14 4:00pm</p> <p>RESULT(6) = Questions and Answers:</p> <p>RESULT(7) = Are you a smoker? Yes</p> <p>RESULT(8) = How many packs per week? 3</p> <p>If unsuccessful:</p> <p>RESULT(0) = -1 ^ Patient not found</p> <p>RESULT(0) = -1 ^ No questionnaires found</p>
Routine Name	ROUTINE: VPSSRVY3 TAG: GETRPT
Data Dictionary & Global References	File: VPS CLINICAL SURVEY (#853.8) Global: VPS(853.8)
Related Integration Agreements	TBD

6.2.2.5.6 Patient Data Object

To implement requirement 2.6.7.6 (Medication Review and Allergy Review PDO) and 2.6.6.3 (Clinical Survey Questionnaire PDO), routines will be created for those PDOs (see Table 9 – Medication Review and Allergy Review PDO and Table 27 - VPS GET CLINICAL SURVEY PDO). Figure below shows how these PDOs could be created.

- Go into the option *Create Objects* and select the action Create:

```

Select TIU Maintenance Menu Option: 2 Document Definitions (Manager)

    --- Manager Document Definition Menu ---
    1      Edit Document Definitions
    2      Sort Document Definitions
    3      Create Document Definitions
    4      Create Objects

Select Document Definitions (Manager) Option: 4 Create Objects

START WITH OBJECT: FIRST// <Enter>.....

```

```

Objects                               Mar 09, 1997 16:10:12      Page: 1 of 3
                                Objects
+
1      ACTIVE MEDICATIONS              Status
2      ALLERGIES/ADR                   A
3      BASELINE LIPIDS                  A
4      BLOOD PRESSURE                   A
5      CURRENT ADMISSION                 A
6      FASTING BLOOD GLUCOSE            A
7      HEMOGLOBIN A1C                   A
8      INR VALUE                        A
9      LABS ADMISSION ABNORMAL           A
10     LABS ADMISSION ALL                A
11     NOW                              A
12     PATIENT AGE                       A
13     PATIENT DATE OF BIRTH             A
14     PATIENT DATE OF DEATH             A
+      ?Help    >ScrollRight  PS/PL PrintScrn/List  +/-    >>>
      Find      Detailed Display      Copy
      Change View      Try              Quit
      Create      Owner
Select Action: Next Screen// <Enter>

```

```

Object                               Mar 1997      Page: 2 of 3
                                16:13:44
+
1      PATIENT HEIGHT                  Statu
5      PATIENT NAME                     s      A
1      PATIENT RACE                     A
6      PATIENT                         A
1      RELIGION                        A
7      PATIENT SEX                      A
1      PATIENT SSN                      A
8      PROTHROMBIN TIM                  A
1      PROTHROMBIN E COLLECTE           A
9      PULSE                           A
2      RESPIRATION                      A
0      SGOT                            A
2      TEMPERATURE                     A
1      TODAY'S                          A
2      ?Hel    >ScrollRigh  PS/PL      +/-    >>
      Find      PrintScrn/List      Cop
      Change      Detailed Display    y
      View      Try
Select Action: Next Screen//

```

- Select the action Create.

					Statu
1	ACTIVE				S
2	MEDICATIONS				A
3	ALLERGIES/ADR				
+					
	?Help	>ScrollRight	PS/PL PrintScrn/List	+/-	>>
	Find		Detailed Display	Copy	
	Change View		Try	Quit	
	Create		Owner		
Select Action: Next Screen// CR Create					

- Enter the VPS MRAR PDO
- Delete the default owner CLINICAL COORDINATOR with an @ sign and enter your own name as the personal owner. This enables you to continue editing the object.

```
Enter Document Definition Name to add as New Entry: VPS MRAR PDO
CLASS OWNER: CLINICAL COORDINATOR Replace @
PERSONAL OWNER: CPRSPROVIDER,EIGHT MAM
Entry added
```

- The new object appears at the top of the list.
- Scroll right (>) to see that you are the owner.

+ Select the action Detailed Display and select your new entry.

+ **NOTE:** You can do this in one step by entering DET=(entry number):

Object		Mar 05, 1997 15:03:12	Page: 2 of 3		
				Status	
84	VPS MRAR PDO			I	
85	WBC-DATE/TIME			A	
+					
	?Help	>ScrollRight	PS/PL PrintScrn/List	+/-	>>
	Find		Detailed Display	Copy	
	Change View		Try	Quit	
	Create		Owner		
Select Action: Next Screen// DET=84 Detailed Display					

- The Detailed Display screen appears, showing your entry.
- Select the action Technical Fields.

Detailed		Mar 05, 1997 15:03:58	Page: 1 of 1
Basic			
Name:	VPS MRAR		
Abbreviation			
: Print	VPS MRAR PDO		
Name:	OBJECT		
Type	599		
:			
IFN	NO		
:	INACTIVE		
National	CPRSPROVIDER,EIGH		
Technical Fields			
Object			
+ ?Hel	>ScrollRigh	PS/PL	+/- >>
p		PrintScrn/List	Delete
Find		Detailed Display	Find
(Items Se Mnem		Technical Fields	Quit
(Boilerplat MenuTxt)		(Upload)	
Select Action: Quit// TE TECHNICAL FIELDS			

- For VPS MRAR PDO, enter the object method: S
X=\$\$TIU^VPSPDO1(DFN,"^TMP("VPSPDO1",\$J)")

OBJECT METHOD: S X=\$\$TIU^VPSPDO1(DFN,"^TMP("VPSPDO1",\$J)")

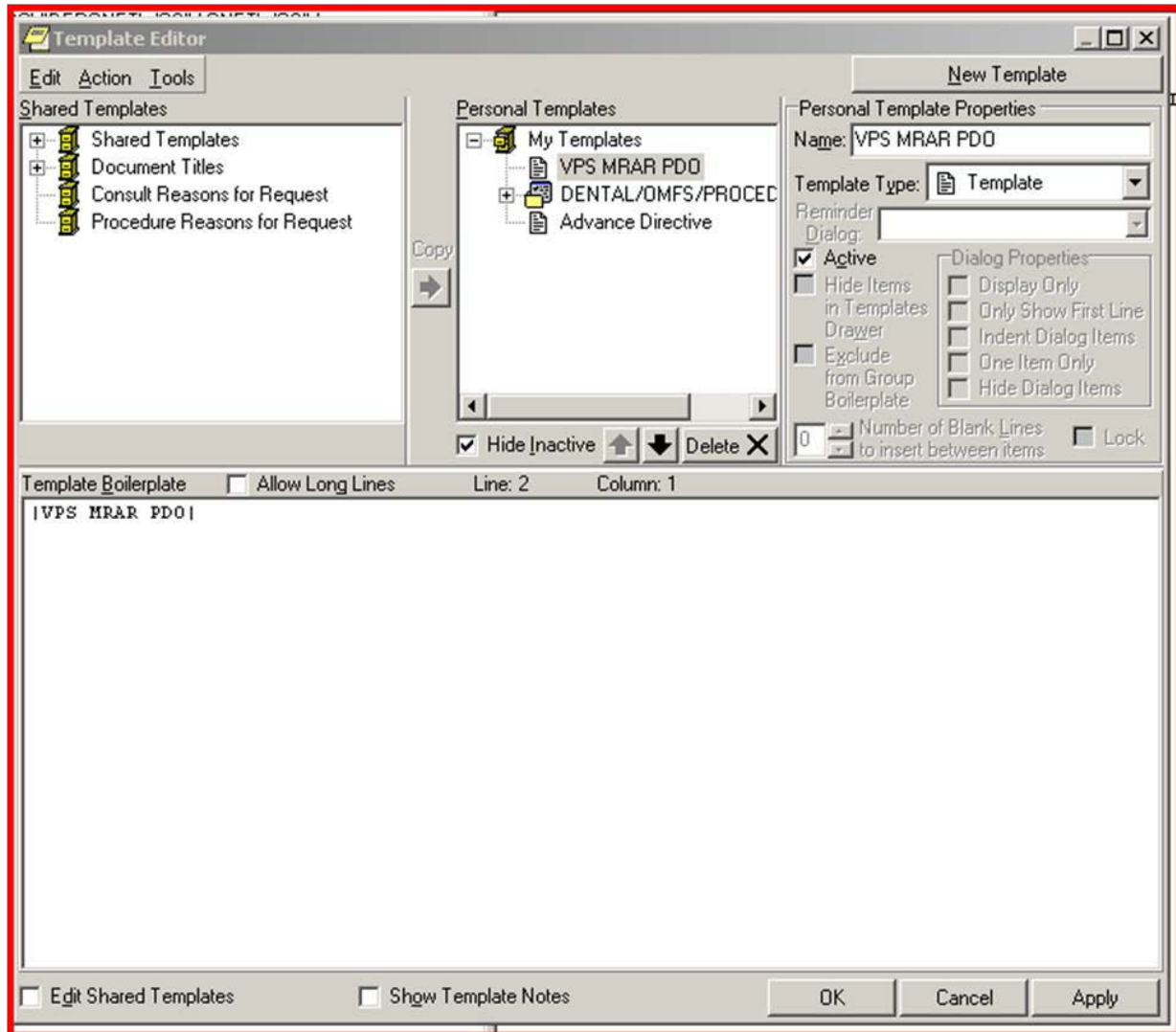
- For VPS Clinical Survey Questionnaire PDO, enter the object method: S
X=\$\$GETPRT^VPSSRVY3(DFN,"^TMP("VPSSRVY3",\$J)")

OBJECT METHOD: S
X=\$\$GETPRT^VPSSRVY3(DFN,"^TMP("VPSSRVY3",\$J)")

6.2.2.5.7 CPRS TIU Note

The following steps describe how the VPS MRAR PDO or CLINICAL SURVEY PDO could be used as a template in CPRS.

- In CPRS' Template Editor, enter Template name and the object in the Template Boilerplate.



- Create a new Note and select a title associated with the note.

Progress Note Properties

Progress Note Title: MEDICATION REVIEW

MEASURE <SCI FUNCTIONAL INDEPENDENCE MEASURE>
MEDICATION <MEDICATION REVIEW>
MEDICATION REVIEW
NOTE <AMBULATORY/OUTPATIENT CARE NOTE>
NOTE <ARRHYTHMIA CLINIC NOTE>
NOTE <CARDIOLOGY NOTE>
NOTE <CARE COORDINATION HOME TELEHEALTH DISCHARGE N

Date/Time of Note: Jan 8, 2013@10:28

Author: Imagprovideronetwork, Onetwosix - PROVIDER

OK Cancel

- Drag and drop the template to the Note text box.

The screenshot displays the VistA CPRS interface for a patient named PATIENT_0NEONEEIGHTFIVE (INPATIENT). The patient's primary care team is unassigned, and the attending physician is IMAGPROVIDERONETWOSIX. The interface shows a list of notes on the left, including a 'New Note in Progress' and several 'All unsigned notes' and 'All signed notes'. A template titled 'MEDICATION REVIEW' is being applied to the note. The template content includes a 'PATIENT FACILITATED ALLERGY MEDICATION REVIEW' section, a 'REVIEW CONDUCTED WITH: SPOUSE' section, and a 'Patient-entered allergy reactions/comments' section. The template also includes a 'Patient Response Key' section with instructions for using 'Y', 'N', 'D', '?', and 'X' to indicate patient responses. The bottom of the interface shows a navigation bar with tabs for Cover Sheet, Problems, Meds, Orders, Notes, Consults, Surgery, D/C Summ, Labs, and Reports.

Health Summary Report

The following steps show how Health Summary report could be created based on the CSQ PDO.

- Create a HS Component and add the GETPRT^VPSSRVY3

Select Health Summary Maintenance Menu Option: **2 Create/Modify Health Summary Components**

Select COMPONENT: ?

Answer with HEALTH SUMMARY COMPONENT NUMBER, or NAME, or ABBREVIATION, or DEFAULT HEADER NAME

Do you want the entire HEALTH SUMMARY COMPONENT List? Y (Yes)

Choose from:

500001 Medication Reconciliation
 500002 Remote Allergy/ADR Data
 500003 Medication Worksheet
 500004 Active/Pending/Expired Meds
 500005 Remote Active Medications
500006 CSQ HS Type

You may enter a new HEALTH SUMMARY COMPONENT, if you wish Answer must be 3-30 **characters** in length.

Select COMPONENT: 500006 **CSQ HS Type**

NAME: CSQ HS Component//

PRINT ROUTINE: GETPRT;VPSSRVY3//

ABBREVIATION: CSQ//

DESCRIPTION:

1>Clinical Survey Questionnaire

EDIT Option:

TIME LIMITS APPLICABLE:

- Create Health Summary Type and add HS component created in previous step.

Select Health Summary Maintenance Menu Option: **6 Create/Modify Health Summary Type**

Select Health Summary Type: **CSQ HS Type**

OK? YES// **CSQ HS Typ**

NAME: **CSQ HS Type//**

TITLE: **CSQ HS Type//**

SUPPRESS PRINT OF COMPONENTS WITHOUT

DATA: SUPPRESS SENSITIVE PRINT DATA:

Do you wish to review the Summary Type structure before continuing? NO// y YES

HEALTH SUMMARY TYPE INQUIRY

Type Name: CSQ HS Type

Title: CSQ HS Type HS Type

Owner: POSTMASTER

SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:

SUPPRESS SENSITIVE PRINT DATA:

Abb	Ord	Component Name	Max Occ	Time	Hos Loc	ICD Text	Pro Nar	CPT Mod	Selection
CSQ	1	CSQ HS Type	Max						

- Add HS Type to CPRS Health Summary Select GUI Parameters Option: **HS GUI Health Summary Types**

Allowable Health Summary Types may be set for the following:

```

2   User          USR    [choose from NEW PERSON]
4   System        SYS    [REDACTED]

```

Enter selection: 4 System T [REDACTED]

Setting Allowable Health Summary Types for System: TRN.FO-ALBANY.MED.VA.GOV
Select Sequence: ?

Sequence	Value
1	BRIEF CLINICAL
2	INPATIENT
3	OUTPATIENT
4	CAMP CPRS HEALTH SUMMARY
5	EDUCATION
6	COMPREHENSIVE MED LIST
7	REMOTE CLINICAL DATA (4Y)
8	IMMUNIZATIONS AND SKIN TESTS
9	EXAMS AND HEALTH FACTORS
10	REMOTE CLINICAL DATA (1Y)
11	REMINDERS DUE
12	REMOTE DIS SUM/SURG/PROD (12Y)
13	REMOTE LABS ALL (1Y)
14	REMOTE LABS ALL (3M)
15	REMOTE CLINICAL DATA (3M)
16	REMOTE LABS LONG VIEW (12Y)
17	MED LIST OUTPT (PAST 3Y)
18	MED LIST INPT (PAST 3 M)
19	REMOTE ONCOLOGY VIEW
20	REMOTE CLINICAL DATA (4Y)

Enter RETURN to continue or '^' to exit:

```

22    REMOTE TEXT REPORTS (3M)
25    REMOTE LABS ALL (1Y)
29    REMOTE LABS ALL (1Y)
30    REMOTE MEDS/LABS/ORDERS (1Y)
31    SURGERY REPORTS
35    REMOTE OUTPATIENT MEDS (6M)
36    CARDIOLOGY REPORTS
37    DIABETIC TELERETINAL IMAGING
39    Medication Reconciliation
41    Medication Worksheet
47    REMOTE DATA - CLINICAL 10Y
48    GMTS HS ADHOC OPTION

```

49 CSQ HS Type

- Now, the HS component could be viewed in CPRS' Health Summary Report.

6.2.2.5.8 Options

There are no new options required for the VPS*1*3, VPS*1*4, and VPS*1*5 development effort.

6.2.2.5.10 Protocols

To implement requirement 2.6.5.1 and 2.6.5.2 of the RSD, VPS*1*5 system will require a new HL7 Appointment protocol to subscribe to SDAM APPOINTMENT EVENTS. HL7 Sending Application, Receiving Application, and Logical Link need to be created for HL7 interface to work.

Figure 19 below shows VPS SEND APPT protocol settings. This protocol will be entered as one of the subscribers of SDAM APPOINTMENT EVENT.

Select PROTOCOL NAME: VPS SEND APPT VPS SEND APPT TO VETLINK NAME: VPS SEND APPT// ITEM TEXT: VPS SEND APPT TO VETLINK Replace Select SYNONYM: PRINT NAME: DISABLE: LOCK: DESCRIPTION: 1> PROHIBITED TIMES: TYPE: action// FILE LINK: COST: Select ITEM: PACKAGE: EXIT ACTION: ENTRY ACTION: D EN^VPSSSEND//

Figure 19 – VPS Send Appointment Protocol

Figure 20 below shows VPS SEND APPT added as a subscriber to SDAM APPOINTMENT EVENTS.

Select PROTOCOL NAME: SDAM APPOINTMENT EVENTS	Appointment
Event Driver	
NAME: SDAM APPOINTMENT EVENTS Replace	
ITEM TEXT: Appointment Event Driver Replace	
Select SYNONYM:	
...	
COST:	
Select ITEM: VPS SEND APPT//	
ITEM: VPS SEND APPT//	
MNEMONIC:	
SEQUENCE:	
MODIFYING ACTION:	
FORMAT CODE:	
DISPLAY NAME:	
PROMPT:	
DEFAULT:	
HELP:	
MODE:	
Select ITEM:	
PACKAGE: SCHEDULING//	

Figure 20 – Scheduling Event Driver Protocol

HL7 interface requires HL7 messages to have sending application, receiving application and logical link. Figure 21 below shows how to create Sending and Receiving application.

7.2 Interface Detailed Design

7.2.1 VPS System and VistA (Update)

This section provides notional views of interactions between the front-end kiosk accessed by the patient, the kiosk server, the RPC Broker, and the VistA applications supporting the registration, check-in (Howdy), CSQ and clinical applications.

Figure 24 provides a notional view of the interactions between the VPS system and the Vista data for update purposes. Select fields may be updated by the Veteran via the server.

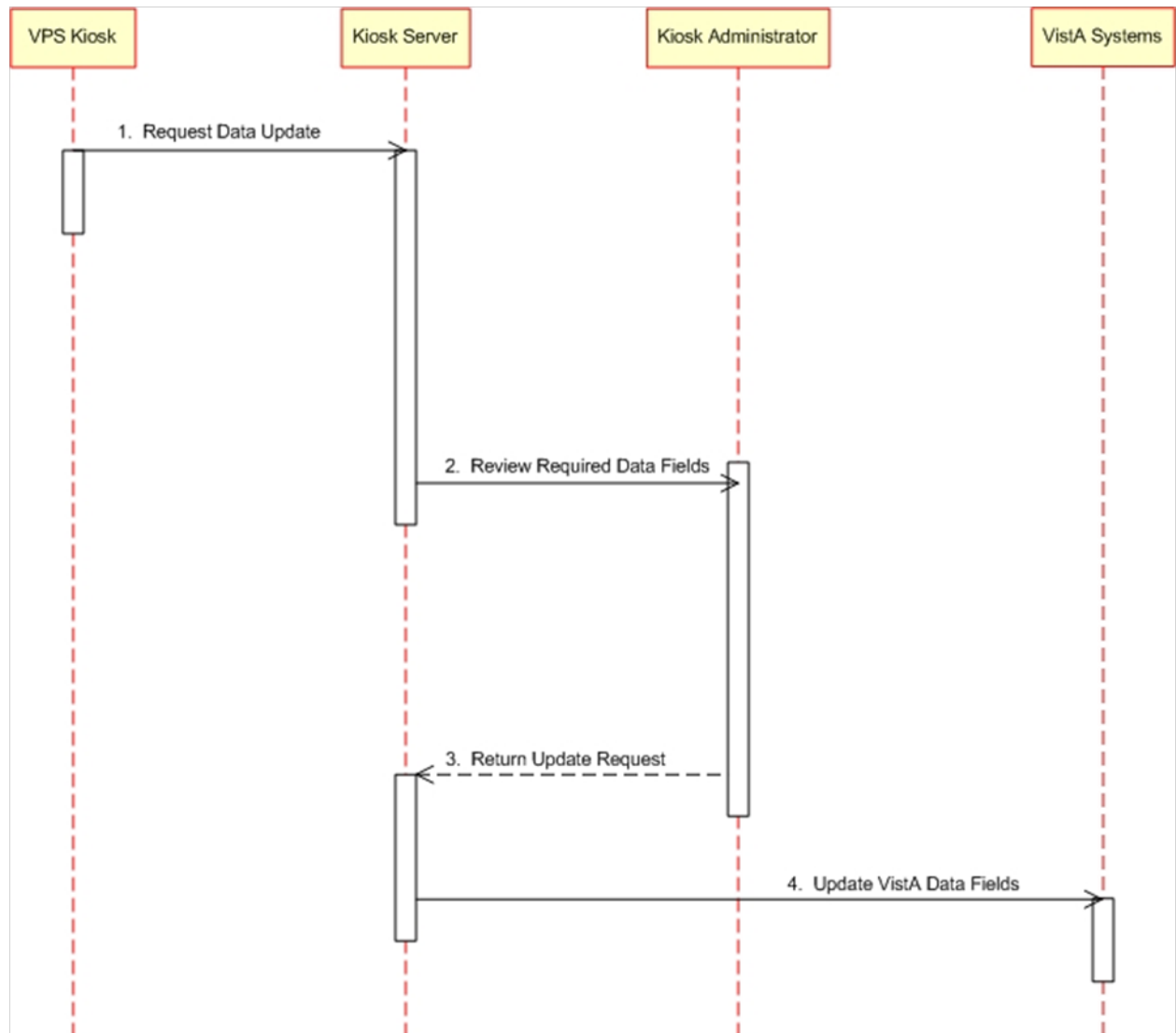


Figure 24 – VPS and VistA Interface (Update)

7.2.2 VPS and Vista – Access/Read

The kiosk server will utilize the RPC Broker to access and retrieve VistA data as appropriate (see Figure 25). Patient data will be temporarily stored on the kiosk server for utilization during the patient's session. Timing and retention of data on the server will be function and implementation specific. Patient record

retrieval will utilize various patient identifier such as SSN, DFN, ICN, and VIC/CAC to pull information from the determined VistA system. The same technique is used by other RPCs such as Get Appointments, and Clinical Reminder.

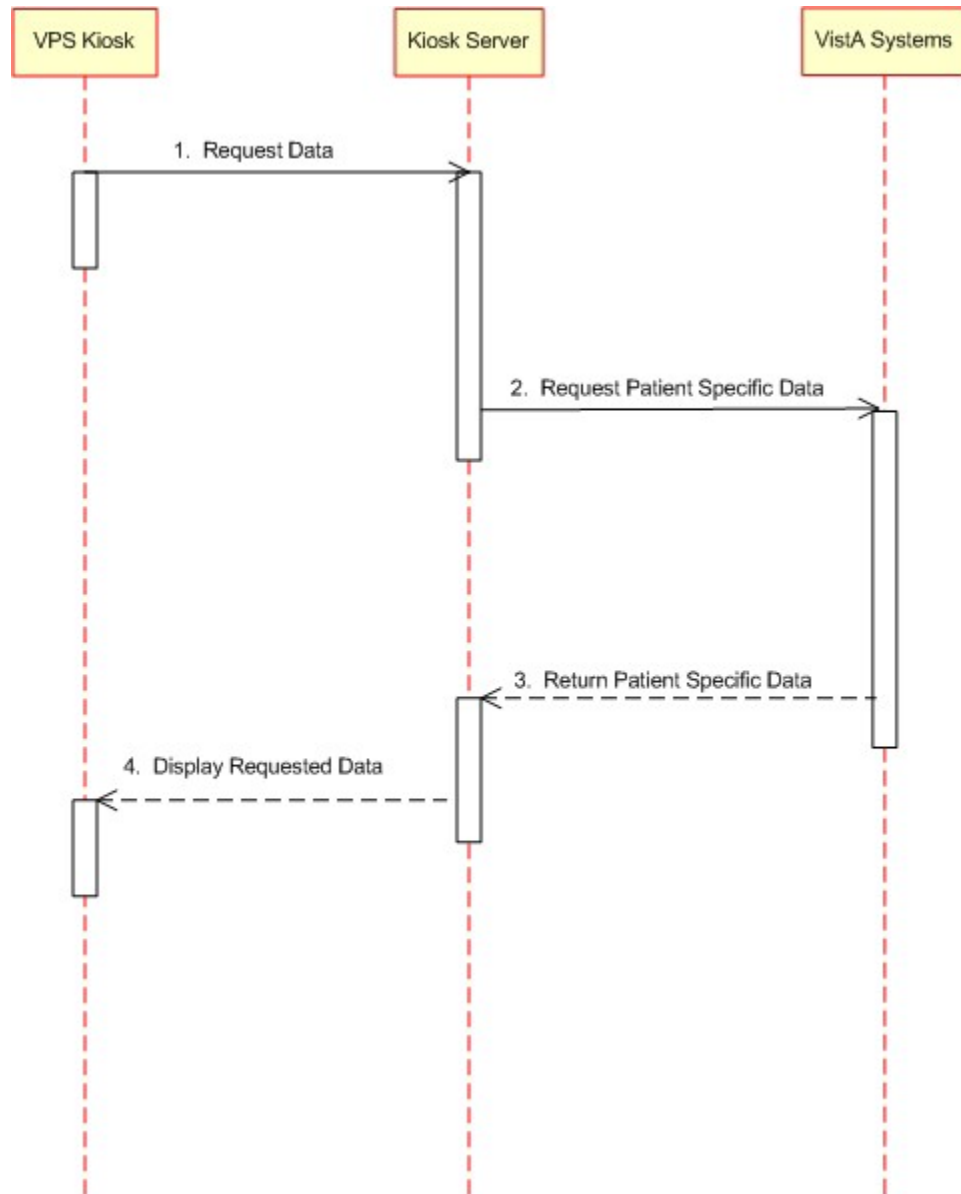


Figure 25 – VPS and VistA Interface (Access/Read)

7.2.3 VistA to VetLink HL7 Interface

To update VetLink with status changes of appointment entered in VistA in real time, VPS*1*5 utilizes HL7 Interface. A VistA HL7 Client sends appointment update to VetLink in HL7 message format. VetLink's HL7 Server reads and parses the message then notify Kiosk Server to update appointment queue. Figure 26 below depicts the interaction process.

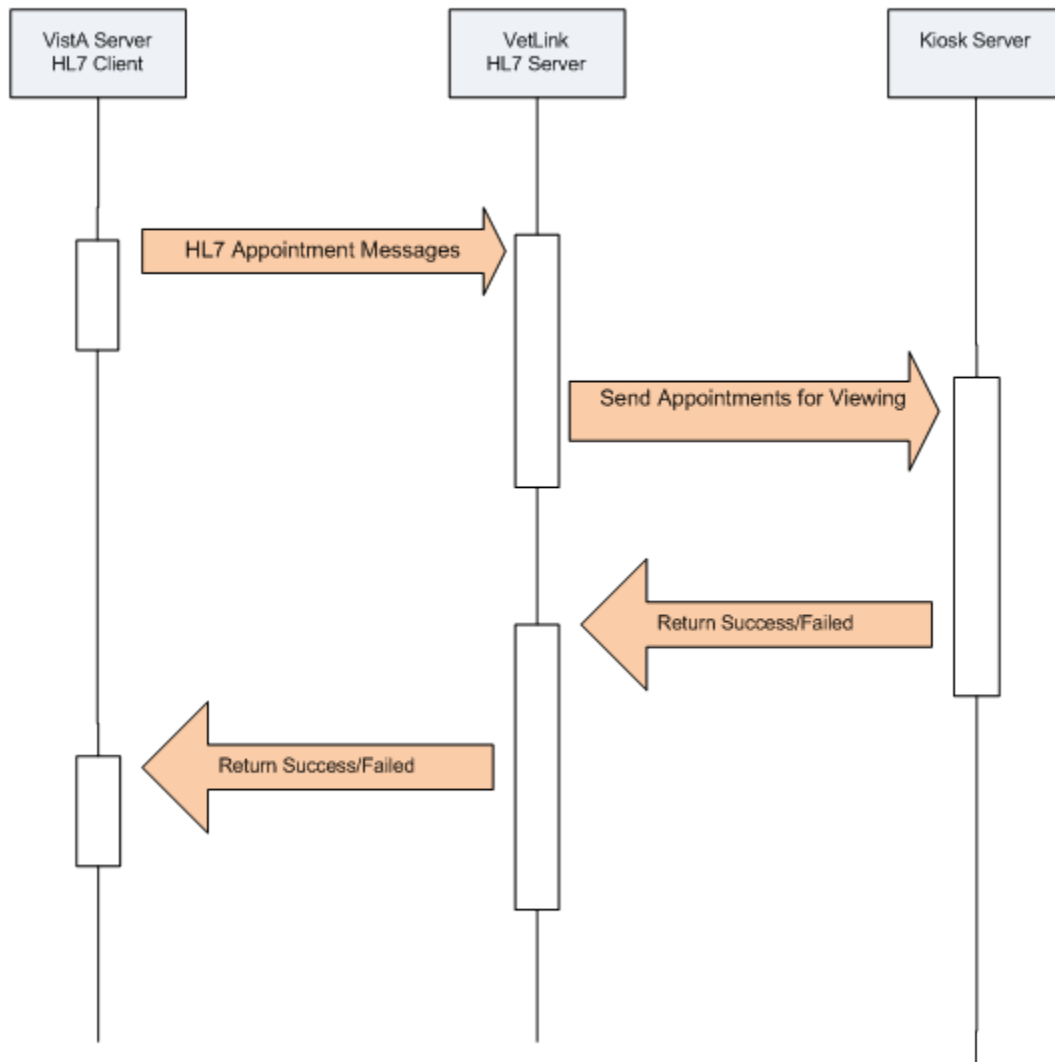


Figure 26 – VistA to VetLink HL7 Interface

8 Human-Machine Interface

There is no human-to-machine interface introduced with VPS*1*4 and VPS*1*5. All interaction is machine-to-machine.

8.1 Interface Design Rules

8.2 Inputs

8.3 Outputs

8.4 Navigation Hierarchy

9 Security and Privacy

As with previous patches, VPS*1*3, VPS*1*4, and VPS*1*5 will comply with all privacy and security features as mandated by VA, Federal, State, and Local regulations. The System will comply with federal guidelines on [PHI \(HIPAA\)](#) and will adhere to all [VA requirements for Release of Information \(ROI\)](#).

Attachment A – Approval Signatures

The following members of the governing IPT are required to sign. Please annotate signature blocks accordingly.

IPT Chair / IT Project Manager (

Date:

Business Sponsor (

Date:

A. Additional Information

A.1. RTM

RTM is not available at this time.

A.2. Packaging and Installation

Packaging and Installation document is not available at this time.

A.3. Design Metrics

Design Metrics is not available at this time.

A.4. Acronym List and Glossary

Table 28 – Glossary of Terms

Term	Meaning
AVS	After Visit Summary
BRD	Business Requirements Document
CAC	Common Access Card
CBO	Chief Business Office
CBOC	Community Based Outpatient Clinics
CDW	Corporate Data Warehouse
CPRS	Computerized Patient Record System
CRIK	Clinical Reminders Integrating Kiosks
DBIA	Integration Agreement between Subscriber and Custodial packages. The agreements are stored in VA FORUM database
DFN	VistA Patient Internal ID
ESS	Environment and External Interface
GUI	Graphic User Interface
HIPAA	Health Insurance Portability and Accountability Act of 1996
ICD	International Classification of Diseases
ICN	VHA Integration Control Number
IOC	Initial Operating Capability
IT	Information Technology
PIMS	Patient Information Management Systems
PPOC	Print at Point of Collection
MRAR	Medication Review and Allergy Review
MT	Means Test
NIST	National Institute of Standards and Technology
NPI	National Provider Identifier
OED	Office of Enterprise Development
OHI	Office of Health Information
OI&T	Office of Information Technology

Term	Meaning
PDO	Patient Data Object
PHI	Protected Health Information
RPC	Remote Procedure Call
ROI	Release of Information
RSD	Requirements Specification Document
SDD	System Design Document
SOA	Service Oriented Architecture
SQA	Software Quality Assurance
SRS	System Requirements Specification
SSN	Social Security Number
SSO	Single Sign On
TRM/SP	Technical Reference Model/Standards Profile
VA	Department of Veterans Affairs
VAMC	VA Medical Center
VHA	Veterans Health Administration
VIC	Veteran Identification Card
VISN	Veterans Integrated Service Network
VistA	Veterans Health Information System and Technology Architecture
VPS	VA Point of Service

A.5. Required Technical Documents