

**VHA Point of Service (Kiosks) Phase II**  
**Technical Manual**  
**For**  
**Enhancement VPS 1\*3**



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

**Approved: February 2015**

## Revision History

Creation Date	Version No.	Description/Comments	Author(s)	Reviewer(s)	Review Type	Issue Date
02/10/2015	0.01	Initial draft.	Carolyn Wheless			
02/26/2015	0.02	Add MRAR instance structure information	C. Wheless			
3/16/2015	0.03	Minor edits for typographical errors. (11/09/2015: Removed Harris Logo - ManTech PMO Team)	C. Wheless			

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# Orientation

## ***How to Use this Manual***

This manual provides instructions on the use of VPS 1\*3 remote procedure calls (RPCs) to access Veterans Health Information Systems and Technology Architecture (VistA) as a data source for VHA Point of Service (Kiosks).

## ***Intended Audience***

The intended audience of this manual is the following stakeholders:

- Product Development (PD) VistA legacy development teams.
- Information Resource Management (IRM) system administrators at Department of Veterans Affairs (VA) sites who are responsible for computer management and system security on VistA M Servers.
- Information Security Officers (ISOs) at VA sites responsible for system security.
- Health Product Support (HPS) Information Technology (IT) Specialists who provide application support to VA end-users.

## ***Legal Requirements***

There are no special legal requirements involved in the use of VPS 1\*3 RPCs.

## ***Disclaimers***

This manual provides an overall explanation of VPS 1\*3 functionality. This guide does not attempt to explain how the overall VistA programming system is integrated and maintained.



**DISCLAIMER:** The appearance of any external hyperlink references in this manual does not constitute endorsement by the Department of Veterans Affairs (VA) of this Website or the information, products, or services contained therein. The VA does not exercise any editorial control over the information you may find at these locations. Such links are provided and are consistent with the stated purpose of this VA Intranet Service.

## ***Documentation Conventions***

The following symbols are used throughout this document to alert the reader to special information.



**NOTE/REF:** Used to denote general information including references to additional reading material.



**CAUTION / RECOMMENDATION / DISCLAIMER:** Used to caution the reader to take special notice of critical information.

Snapshots of computer online displays (screen captures) and computer source code are shown in non-proportional font and are enclosed within a box. User responses to displayed prompts are **bold italic** typeface. Software reserved words are displayed in **bold** font.

References to “<Enter>” within the screen captures indicate that the user should press the <Enter> key on the keyboard. Other special keys are represented within <> angle brackets and indicate the user should press the indicated key on the keyboard. For example, <PF1> directs the user to press the PF1 key on the keyboard.

The following conventions are used to display test data:

- Social Security Numbers (SSN) for test patients are prefixed with five zero digits e.g. 000009999.
- Patient names are formatted as [Application Name]PATIENT,[N] e.g. VPSPATIENT, ONE.
- User names are formatted as [Application Name]USER[N] e.g. VPSUSER, ONE.



This guide refers to the M programming language as M. Under the 1995 American National Standards Institute (ANSI) standard, M is the primary name of the MUMPS programming language, and MUMPS is considered an alternate name.

## Commonly Used Terms

Table 1: Commonly Used VPS 1\*3 Terms

Term	Description
Client	A single term used interchangeably to refer to a user, the workstation (i.e., PC), and the portion of the program that runs on the workstation.
Component	A software object that contains data and code. A component may or may not be visible.
GUI	The Graphical User Interface application that is developed for the client workstation.
Host	The term Host is used interchangeably with the term Server.
Server	The computer where the data and the RPC Broker remote procedure calls (RPCs) reside.

## Technical Information Online

Project documentation for VPS Kiosks may be found in the Technical Services Project Repository (TSPR). Other online technical information from M Server-based software file, routine and global documentation may be generated using Kernel, MailMan and VA FileMan utilities.

## Help Prompts

There are no online help prompts provided for VPS 1\*3.

## Data Dictionary

Technical information on VistA M Server-based files is stored in the VA FileMan Data Dictionary. The VA FileMan List File Attributes option on the Data Dictionary Utilities submenu may be used to view the attributes of VistA M Server files.

## Assumptions

This guide is written with the assumption that the reader is familiar with:

- Kernel – VistA M Server software
- Remote Procedure Call (RPC) Broker – VistA Client/Server software
- VA FileMan data structures and terminology – VistA M Server software
- Microsoft Windows
- M programming language

## References

The following references support the reader's understanding of the operation and functioning of VPS 1\*3:

- *VPS 1-3 Technical Manual (this guide)*
- *RPC Broker Release Notes*
- *RPC Broker Developer's Guide*
- *RPC Broker Systems Management Guide*
- *RPC Broker TCP/IP Supplement, Patch XWB\*1.1\*35 and XWB\*1.1\*44*
- *RPC Broker Technical Manual*
- *RPC Broker User Guide*
- *Veteran's Point of Service (VPS) FY14 OIT PD BRD, Version 2.0 (May 2014)*
- *20090210 VHA Point-of-Service Initiative BRD*
- *Health Summary User Manual, Version 2.7 (August 2014)*
- *Text Integration Utilities (TIU) Technical Manual, TIU\*1\*263 (Jun3 2014)*

These references may be downloaded from the [VA Software Document Library \(VDL\) Website](#).

# 1 Introduction

The *VPS 1\*3 Technical Manual* provides descriptive information and instruction on the use of VPS 1\*3 Remote Procedure Calls (RPCs) within VA's Veterans Health Information Systems and Technology Architecture (VistA) environment. This document is intended for systems managers—Information Resource Management (IRM) personnel who are responsible for implementing and maintaining this software, application programmers, and developers. It acquaints system managers with the software structure and functionality of the VPS RPC routines and files that comprise this software.

## 1.1 Product Overview

VPS 1\*3 provides RPCs that interface VetLink with VAs Medication Review and Allergy Review (MRAR) process, and supports the VA National Medication Reconciliation Directive. VPS 1\*3 RPCs provide real-time storage of patient self-reported medication and allergy data entered at the Kiosk to

VistA VPS MRAR data files. Additionally, VPS 1\*3 returns this collected MRAR data to VetLink to allow clinic staff and clinicians to view, update and verify the patient’s self-reported MRAR data.

In addition, VPS 1\*3 provides the RPCs to support MRAR statistical analysis to report on the time required to complete patient MRAR reviews, reasons for incomplete reviews, and other clinic efficient use variables. VPS 1\*3 also provides the capability for Veteran Affairs Medical Center (VAMC) Clinical Coordinators to create MRAR patient data objects (PDOs) that may be embedded into Text Integration Utilities (TIU) notes.

## 1.2 Namespace Conventions

VPS is the namespace assigned to VPS 1\*3.

# 2 Implementation and Maintenance

The *VPS 1\*3 Installation Manual* provides detailed information regarding the installation of VPS\*1.0\*3.

## 2.1 Site Parameters

No site specific parameters are provided or required for VPS 1\*3.

# 3 Files

## 3.1 VistA M Server Files

VPS 1\*3 reads data from and writes data to VistA M Server files owned and maintained by VPS. The following table lists the VistA M Server VPS files and global references used by VPS 1\*3 RPCs.

*Table 2 VPS 1\*3 VistA M Server Files*

FILE NAME AND NUMBER	GLOBAL REFERENCE	SUMMARY DESCRIPTION
VPS ALLERGY DISCREPANCY INDICATORS #853.3	^VPS(853.3)	This file contains a list of the various indicators that Vecna will send to VistA for the capture of discrepancies between patient reported allergies and the allergy data on file for the patient. A fundamental objective of MRAR is to identify allergy data omissions and medication adherence discrepancies. The Kiosk (patient facing) and the staff-facing interface allows a veteran, staff, or provider to change an allergy status (e.g., allergic to non-allergic).
VPS CONFIG HISTORY #853	^VPS(853)	This file stores all the changes made to a Kiosk's configuration parameters and facilitates 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

FILE NAME AND NUMBER	GLOBAL REFERENCE	SUMMARY DESCRIPTION
		behavior amongst the Vetlink KIOSK groups or Clinics. Data in this file is populated via RPC call(s) made by the Vetlink client.
VPS MED DISCREPANCY INDICATORS #853.7	^VPS(853.7	This file contains a list of the various indicators that Vetlink will send to VistA for the accurate capture of medication discrepancies between patient report medications and medication data on file for the patient. A fundamental objective of MRAR is to identify allergy data omissions and medication adherence discrepancies. The Kiosk (patient facing) and the staff-facing interface allows a veteran, staff, or provider to change a medication status (e.g. from 'NO, not taking' to 'Yes, taking as written').
VPS MRAR PDO #853.5	^VPS(853.5	<p>This file stores patient MRAR data for the (VPS) kiosk application. Data is stored to the files using VPS remote procedure calls that are invoked by the Vetlink Kiosk (patient-facing) or staff-facing client interface. Each patient MRAR review is saved by Vetlink and then sent to VistA, using RPC Broker, for storage.</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>

In addition to Vista M Server files in the VPS namespace, VPS 1\*3 reads data from files in the external namespaces shown in the following table.

*Table 3 External Vista M Server Files Accessed by VPS 1\*3*

FILE NAME AND NUMBER	GLOBAL REFERENCE
PATIENT ALLERGIES FILE	^GMR(120.8

## 3.2 MRAR Instance Structure

The central structure in the VPS MRAR PDO file #853.5 is the MRAR instance sub-file #853.51. A patient may have multiple instances of MRAR sessions. The data collected in MRAR session is stored in an instance structure. **Edits to the MRAR instance should not be made in FileMan.** All edits and updates to an MRAR instance should be made through VetLink or the staff-facing Kiosk application.

The overall structure of an MRAR instance consists of 5 primary nodes. Sub-nodes (files) of each primary node are shown indented under their parent node.

- 853.51 MRAR instance fields
  - 853.8121 MRAR CONDUCTED WITH
- 853.52 ALLERGIES
  - 853.57 REACTIONS
  - 853.58 ALLERGY COMMENTS PATIENT
  - 853.56 ALLERGY COMMENTS STAFF VIEW
  - 853.523 ALLERGY COMMENTS VET VIEW
  - 853.525 ALLERGY CHANGED INDICATORS
  - 853.526 ALLERGY CONFIRMED INDICATORS
  - 853.527 ALLERGY DISCREPANCY INDICATORS
- 853.53 ADDITIONAL ALLERGIES
  - 853.531 ADD ALLERGY VET
  - 853.59 ADD ALLERGY PROVIDER
- 853.54 MEDICATIONS
  - 853.5423 MEDICATION COMMENTS PATIENT
  - 853.5424 MEDICATION COMMENTS STAFF
  - 853.5425 MEDICATION COMMENTS VET VIEW
  - 853.5452 MED DISCREPANCY INDICATORS
  - 853.5454 MED CHANGED INDICATORS
  - 853.5455 MED CONFIRMED INDICATORS

853.55 ADDITIONAL MEDICATIONS

853.557 ADD MED COMMENTS-STAFF VIEW

853.5512 ADD MED COMMENTS-VET VIEW (Multiple-853.5512), [AMCOMM2;0]

The following table shows the complete structure of a VPS MRAR PDO instance.

FIELD NUMBER	FIELD NAME, GLOBAL LOCATION
.01	TRXN DATE/TIME (RDX), [0;1]
.02	DEVICE ID (F), [0;2]
.03	KIOSK GROUP (F), [0;3]
.04	ENCOUNTER CLINIC (P44'), [0;4]
.05	APPT DATE/TIME (D), [0;5]
.06	PROVIDER (P200'), [0;6]
.12	MRAR SESSION ID (NJ10,0), [0;11]
.13	INTERFACE MODULE (S), [0;12]
1	AR INITIATED DT (D), [1;1]
2	AR COMPLETED DT (D), [1;2]
5	AR INCOMPLETE DT (D), [1;5]
6	AR INCOMPLETE REASON TYPE (S), [1;6]
7	AR SESSION OUTCOME (S), [1;7]
8	ADD ALLERGY INITIATED DT (D), [2;3]
9	ADD ALLERGY COMPLETED DT (D), [2;4]
10	ALLER CHANGE COMPLETED DT (D), [1;8]
11	ALLER CHANGE INITIATED DT (D), [1;9]
12	AR FREE TEXT USED (S), [1;12]
13	AR FREE TEXT COMPLETED DT (D), [1;13]
14	VET VIEW ADD ALLERGY COMP DT (D), [1;14]
15	VET VIEW ADD ALLER INIT DT (D), [1;15]
16	VET VIEW CHANGE ALLER COMP DT (D), [1;16]
17	VET VIEW CHANGE ALLER INIT DT (D), [1;17]
18	MR CHANGE REASON INITIATED DT (D), [5;14]
19	OTH ALLERGY UNK PATIENT (S), [2;1]
20	NO KNOWN DRUG ALLERGIES (S), [2;2]
21	MRAR CONDUCTED WITH (Multiple-853.5121), [MRARWITH;0] .01 MRAR CONDUCTED WITH (S), [0;1]
22	MR MULTIPLE SESSIONS (S), [5;3]
23	MR FREE TEXT USED (S), [5;15]
24	VET VIEW CHG DOD MED COMP DT (D), [6;1]
25	VET VIEW CHG DOD MED INIT DT (D), [6;2]
26	VET VIEW CHG NONVA MED COMP DT (D), [6;3]
27	VET VIEW CHG NONVA MED INIT DT (D), [6;4]
28	VET VIEW CHG LOCAL MED COMP DT (D), [6;5]
29	VET VIEW CHG LOCAL MED INIT DT (D), [6;6]

30	ALLERGIES (Multiple-853.52), [ALLERGY;0] .01 ALLERGY ENTRY # (NJ10,0X), [0;1] .02 LOCAL ALLERGY ID (P120.8'), [0;2] .03 REMOTE ALLERGY ID (NJ10,0), [0;3] .05 REMOTE ALLERGY NAME (F), [0;5] .06 AR PATIENT RESPONSE (S), [0;6] .07 REACTIONS (Multiple-853.57), [REACTIONS;0] .01 REACTION ENTRY # (NJ10,0), [0;1] .02 LOCAL REACTION ID (P120.83'), [0;2] .03 REMOTE REACTION ID (NJ10,0), [0;3] .04 REMOTE REACTION NAME (F), [0;4] .09 REMOTE FACILITY (P4'), [0;8]
1	ALLERGY COMMENTS PATIENT (Multiple-853.58), [ACOMM1;0] .01 ALLERGY COMMENTS PATIENT (W), [0;1]
2	ALLERGY COMMENTS STAFF VIEW (Multiple-853.56), [ACOMM2;0] .01 ALLERGY COMMENTS STAFF VIEW (Wx), [0;1]
3	ALLERGY COMMENTS VET VIEW (Multiple-853.523), [ACOMM3;0] .01 ALLERGY COMMENTS VET VIEW (Wx), [0;1]
4	ALLERGY DOD (S), [0;7]
5	ALLERGY CHANGED INDICATORS (Multiple-853.525), [ACHG;0] .01 ALLERGY CHANGED (P853.3'), [0;1]
6	ALLERGY CONFIRMED INDICATORS (Multiple-853.526), [ACNFR;0] .01 ALLERGY CONFIRMED (P853.3'), [0;1]
7	ALLERGY DISCREPANCY INDICATORS (Multiple-853.527), [ADISCR;0] .01 ALLERGY DISCREPANCY (P853.3'), [0;1]
12	ALLERGY CHANGED (P853.3'), [0;22]
13	ALLERGY CONFIRMED (P853.3'), [0;23]
14	ALLERGY DISCREPANCY (P853.3'), [0;24]
16	ALLERGY-MARK FOR FOLLOWUP (S), [0;26]
31	VET VIEW CHG REMOT MED COMP DT (D), [6;7]
32	VET VIEW CHG REMOT MED INIT DT (D), [6;8]
33	WEB ID (F), [7;1]
40	ADDITIONAL ALLERGIES (Multiple-853.53), [ALLERGYADD;0] .01 ADDITIONAL ALLERGIES ENTRY # (MNJ10,0), [0;1] 1 ADD ALLERGY-VET (Multiple-853.531), [1;0] .01 ADD ALLERGY-VET (Wx), [0;1] 1.5 ADD ALLERGY-PROVIDER (Multiple-853.59), [2;0] .01 ADD ALLERGY-PROVIDER (Wx), [0;1] 2 ADD ALLERGY REACTION (STAFF) (F), [0;3] 3 ADD ALLERGY ADDED BY (S), [0;4] 4 ADD ALLERGY-MARK FOR FOLLOWUP (S), [0;5] 5 ADD ALLERGY NOT KNOWN (S), [0;2]

50 MEDICATIONS (Multiple-853.54), [MEDS;0]  
.01 MEDICATION ENTRY # (NJ10,0X), [0;1]  
1 PRESCRIPTION ID (NJ10,0), [0;2]  
2 PROVIDER NAME (F), [0;3]  
3 FILL LOCATION (P4'), [0;4]  
4 LAST FILL DATE (D), [0;5]  
5 DAYS SUPPLIED (NJ3,0), [0;6]  
6 # REFILLS LEFT (NJ2,0), [0;7]  
7 NEXT FILL DATE (D), [0;8]  
8 MED EXPIRE DATE (D), [0;9]  
9 MED ID (NJ10,0), [0;10]  
10 MEDICATION NAME (F), [0;11]  
11 MR PRESET PATIENT RESPONSE (S), [0;12]  
12 RX STATUS (S), [0;13]  
13 MED SIG (F), [SIG;1]  
14 MED DOSAGE (F), [0;14]  
15 MED DOSAGE FORM (F), [0;15]  
16 MEDS-MARK FOR FOLLOWUP (S), [0;16]  
17 MED ROUTE (F), [0;17]  
18 MED IMAGE INDICATOR (S), [0;18]  
19 MED FINISHING PERSON (F), [2;1]  
20 NATIONAL DRUG SID (F), [3;1]  
21 NON-VA (S), [0;21]  
22 MAX REFILLS (NJ2,0), [0;22]  
23 MEDICATION COMMENTS PATIENT (Multiple-853.5423), [MEDCOM;0]  
.01 MEDICATION COMMENTS PATIENT (Wx), [0;1]  
24 MEDICATION COMMENTS STAFF VIEW (Multiple-53.5424), [MEDCOM2;0]  
.01 MEDICATION COMMENTS STAFF VIEW (Wx), [0;1]  
25 MEDICATION COMMENTS VET VIEW (Multiple-853.5425), [MEDCOM3;0]  
01 MEDICATION COMMENTS VET VIEW (Wx), [0;1]  
26 RX PATIENT STATUS (F), [2;2]  
27 RX NUMBER (NJ9,0), [0;19]  
28 RX OUTPATIENT ID (NJ9,0), [0;20]  
29 RX SC FLAG (S), [2;3]  
30 MEDICATION DISCREPANCY (P853.7'), [1;1]  
31 MEDICATION CHANGED (P853.7'), [1;2]  
32 MEDICATION CONFIRMED (P853.7'), [1;3]  
33 CANCEL DT (D), [2;4]  
34 CMOP STATUS (S), [2;5]  
35 COUNSELED FLAG (S), [2;6]  
36 COUNSELING UNDERSTOOD FLAG (S), [2;7]  
37 DIVISION SID (F), [4;1]  
38 ENTERED BY (F), [4;2]  
39 MED ISSUE DT (D), [4;3]  
40 COPAY TRANSACTION (F), [5;1]  
41 EBILL ACTION NUMBER (NJ9,0), [5;2]  
42 ETL BATCH ID FAILURE (NJ9,0), [5;3]  
43 RELEASE DT (D), [2;8]  
44 QUANTITY SUPPLIED (NJ12,2), [2;9]  
45 MED REMOTE (S), [3;2]  
46 REMOTE MED FACILITY (F), [3;3]  
47 DRUG NAME W/O DOSE (F), [2;10]  
48 HIGH RISK MED CLASS (F), [6;1]  
49 HIGH RISK MED NAME (F), [6;2]  
50 HIGH RISK MED YEAR (NJ4,0), [6;3]  
51 MED IMAGE (S), [6;4]  
52 MED DISCREPANCY INDICATORS (Multiple-853.5452), [MDISCR;0]  
.01 MED DISCREPANCY (P853.7'), [0;1]  
53 MED CHANGED INDICATORS (Multiple-853.5454), [MCHG;0]  
.01 MED CHANGED (P853.7'), [0;1]

60	ADDITIONAL MEDICATIONS (Multiple-853.55), [MEDSADD;0] .01 ADDITIONAL MEDICATIONS ENTRY # (MNJ10,0), [0;1] 1 PATIENT-FACING ADD MEDICATION (F), [0;2] 2 STAFF VIEW ADD MEDICATION (F), [1;1] 3 VET VIEW ADD MEDICATION (F), [1;2] 4 VET PLANS TO DISCUSS ADD MED (S), [1;3] 5 ADD MED FREQUENCY (PATIENT) (S), [0;3] 6 ADD MED DIRECTIONS (PATIENT) (F), [0;4] 7 ADD MED COMMENTS-STAFF VIEW (Multiple-853.557), [AMCOMM;0] .01 ADD MED COMMENTS-STAFF VIEW (Wx), [0;1] 8 ADD MED DOSE (STAFF) (F), [1;4] 9 ADD MEDS-MARK FOR FOLLOW-UP (S), [1;5] 10 ADD MED INDICATION (STAFF) (F), [2;1] 11 ADD MED TIME (PATIENT) (S), [0;5] 12 ADD MED COMMENTS-VET VIEW (Multiple-853.5512), [AMCOMM2;0] .01 ADD MED COMMENTS-VET VIEW (Wx), [0;1]
70	PDO FIRST INVOKED DT (D), [4;1]
72	PDO INVOCATION ERROR (S), [4;3]
73	PDO NEXT INVOKED DT (D), [4;4]
74	STAFF MODULE COMPLETED DT (D), [4;5]
76	STAFF MODULE SIGNED DT (D), [4;7]
77	MR INITIATED DT (D), [5;1]
78	MR COMPLETED DT (D), [5;2]
80	MR CHANGE MED INITIATED DT (D), [5;4]
81	MR CHANGE MED COMPLETED DT (D), [5;5]
82	MR CHANGE REASON COMPLETED DT (D), [5;6]
83	MR INCOMPLETE REASON TYPE (S), [5;7]
84	MR FREE TEXT SECTION DONE DT (D), [5;8]
85	MR SESSION OUTCOME (S), [5;9]
86	MR ADD MED INITIATED DT (D), [5;10]
87	MR ADD MED COMPLETED DT (D), [5;11]
88	VET VIEW ADD MED INITIATED DT (D), [5;12]
89	VET VIEW ADD MED COMPLETED DT (D), [5;13]
92	VET VIEW CHG ALL MED INIT DT (D), [5;16]
93	VET VIEW CHG ALL MED COMP DT (D), [5;17]
95	MR INCOMPLETE DT (D), [5;19]
105	TIU NOTE (P8925'), [4;8]

## 4 Global Translation, Journaling and Protection

Journaling, global translation and protection of VistA M Server files for which VPS 1\*3 is the custodial owner is provided by nightly extracts to the Corporate Data Warehouse (CDW).

## 5 Routines

Table 4 VPS1\*3 VistA Routines

ROUTINE NAME	DESCRIPTION
VPSMRAR1	Procedures and function calls to store patient's MRAR instance data

ROUTINE NAME	DESCRIPTION
	values and create the patient's MRAR PDO.
VPSMRAR2	Procedures and functions to store a patient's allergy data to VPS MRAR files.
VPSMRAR3	Procedure and functions to store a patient's additional allergy data to VPS MRAR files.
VPSMRAR4	Procedures and functions to store a patient's medication data to VPS MRAR files.
VPSMRAR5	Procedures and functions to store a patient's additional medication data to VPS MRAR files..
VPSMRAR7	Procedures and functions to store a patient's allergy reaction data to VPS MRAR files.
VPSMRAR9	Procedures and function to read an identified patient's MRAR clinical data.
VPSPDO1	Procedures and function calls to read a patient's MRAR clinical data to provide PDO output.
VPSMRARU	Procedures and functions to update an identified patient's most recent MRAR clinical data with the applicable TIU document internal entry number (IEN).
VPSPARAM	Procedures and functions to store outpatient clinic kiosk configuration parameters used to define clinic kiosk functionality and devices.

## 5.1 VPS 1\*3 RPCs

The VPS 1\*3 routines are executed by remote procedure calls through VistA RPC Broker. The following table lists the VPS 1\*3 RPCs giving the RPC tag and routine name used for invocation

*Table 5 VPS 1\*3 RPCs - Tags and Routines*

RPC NAME	TAG	ROUTINE
VPS WRITE MRAR PDO	WRITE	VPSMRAR1
VPS WRITE KIOSK PARAMETERS	WRITE	VPSPARAM
VPS GET MRAR PDO	GET	VPSPDO1
VPS GET LAST MRAR	GET	VPSMRAR9
VPS UPDATE LAST MRAR TIU IEN	UPDATE	VPSMRAR3

## Detailed VPS 1\*3 RPC Information

Details on the input parameters and the output produced by each of the VPS 1\*3 RPCs may be obtained from a FileMan inquiry to the REMOTE PROCEDURE file # 8994.

## 5.2 MRAR Patient Data Object and Health Summary Report

A patient data object (PDO) is dynamically created and available in the Computerized Patient Record System (CPRS). VPS\*1\*3 provides a TIU Document Definition for the VPS MRAR PDO object. This object when accessed invokes the \$TIU^VSPDO1 M (MUMPS) run routine passing in the patient's identifier. The VPS M language run routine VSPDO1 routine reads the VPS MRAR PDO file to create the MRAR PDO object.

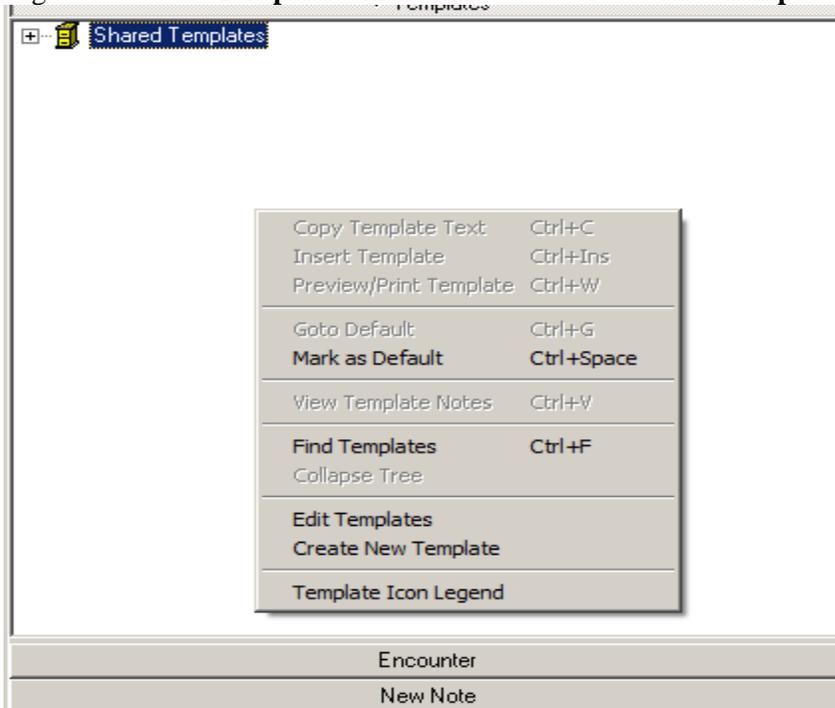
### 5.2.1 Insert VPS MRAR PDO into CPRS TIU Note

To insert the patient's VPS MRAR PDO object into a CPRS Note, create or edit a TIU template.

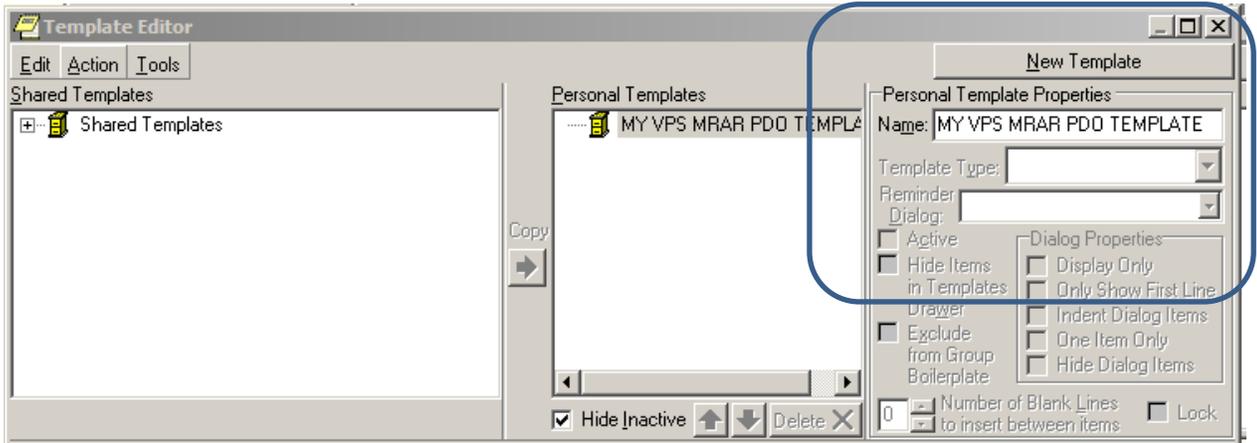
1. Select a patient in CPRS.
2. Click the **Notes** tab.
3. Click the **Template** dropdown list:



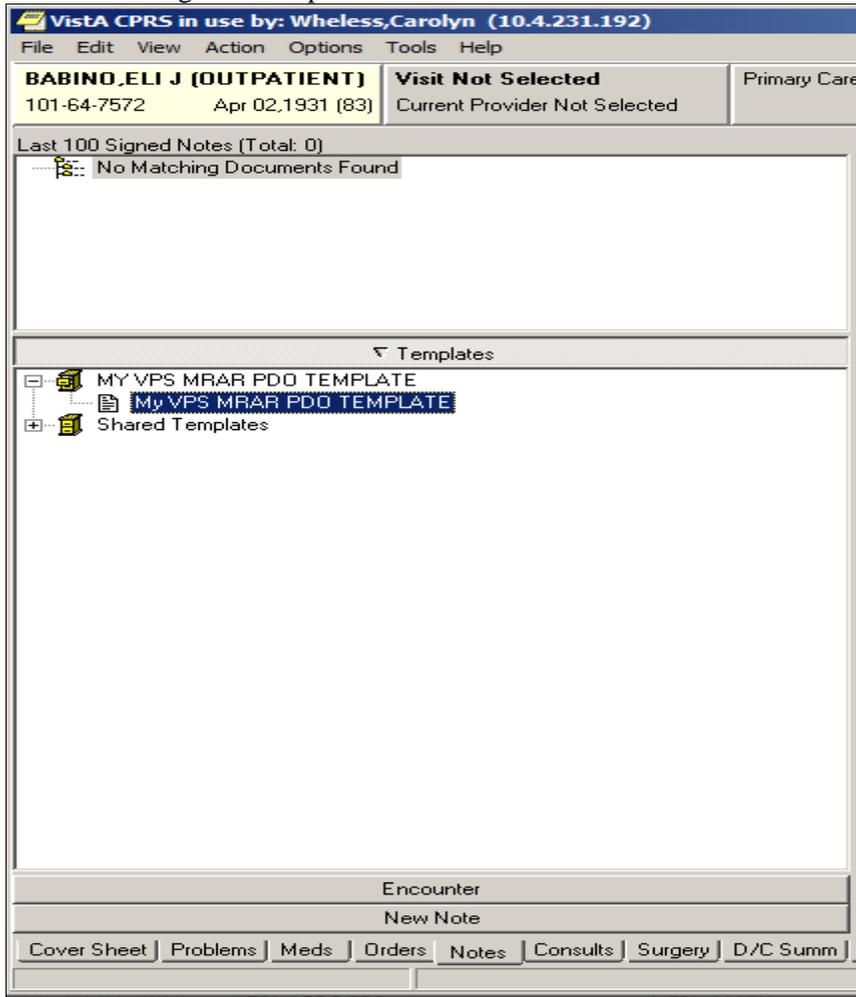
4. Right-click in the **Template** window and select **Create New Template** entry.



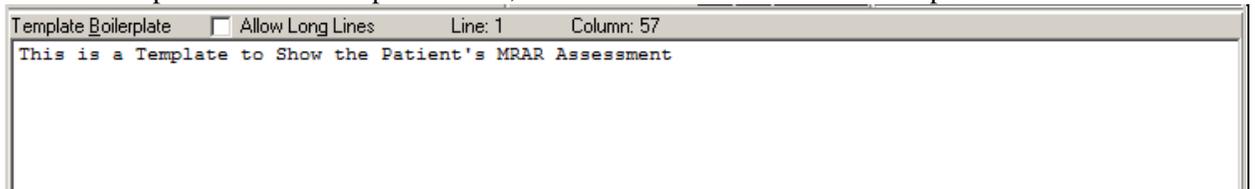
5. In the top section of the Template Editor window, enter a name for the template e.g., **MY VPS MRAR PDO TEMPLATE**. Click the **OK** button.



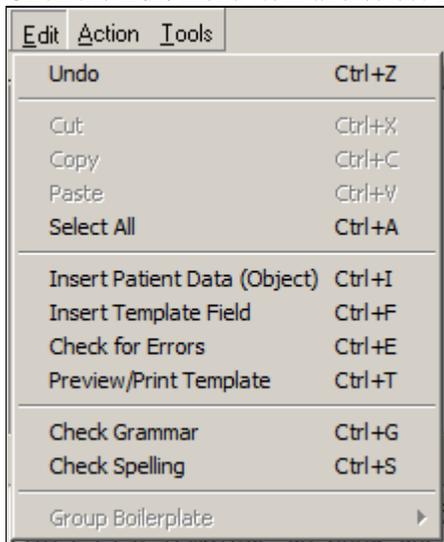
- A personal template folder is created with a blank MyVPS MRAR PDO TEMPLATE.as shown in the following screen capture.



- Right-click the "My VPS MRAR PDO TEMPLATE and select "Edit Template" from the list.
- In the lower portion of the Template Editor, enter text to be included in the template.



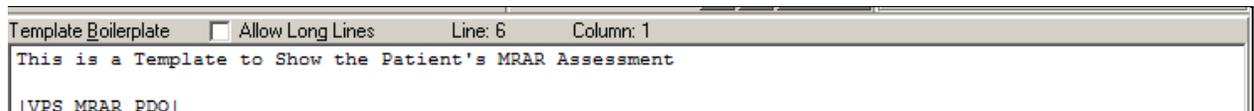
9. Click the **Edit** menu item and select **Insert Patient Data (Object)**.



10. Choose **VPS Mrar PDO** from the list.

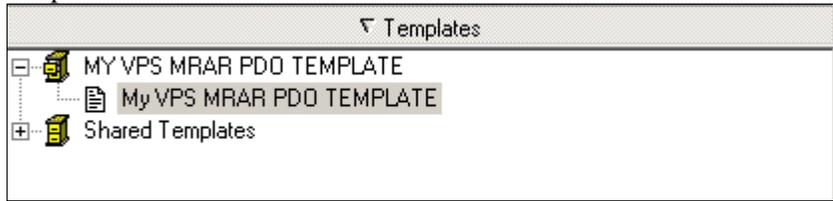


The reference to the VPS MRAR PDO will appear at the current cursor location in the lower portion of the Template Editor as shown in the next screen capture.



When finished entering text and/or other PDO objects, click the **OK** button

- To create a TIU document using the “My VPS MRAR PDO TEMPLATE”, double-click the template name.



Select the Visit Location from the “Location for Current Activities dialog box.

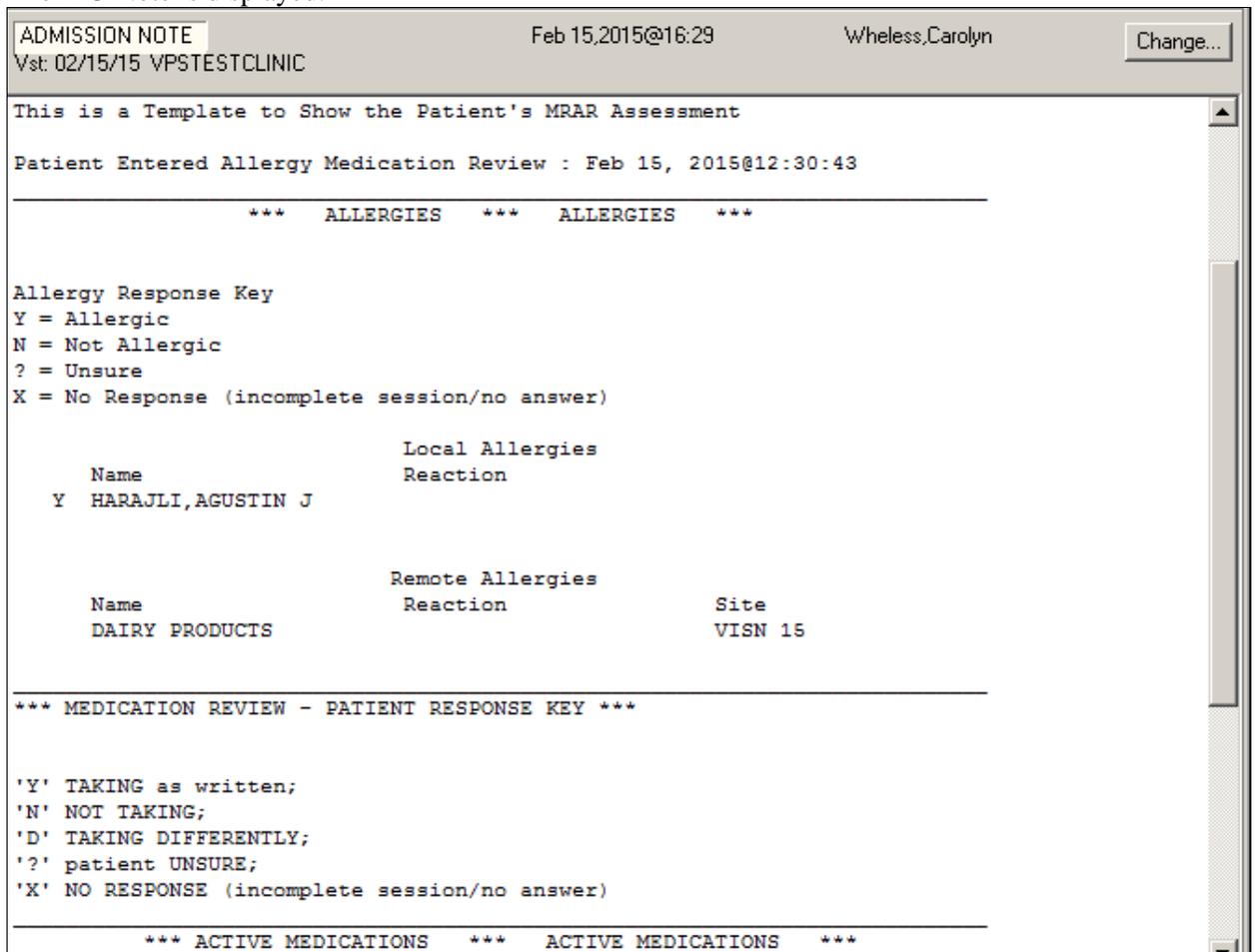
Select the Date//Time of Visit.

Click **OK** button.

Select the Progress Note Title from the Progress Note Properties dialog box.

Click **OK** button.

- The TIU Note is displayed.



## 5.2.2 VPS MRAR Ad Hoc Health Summary

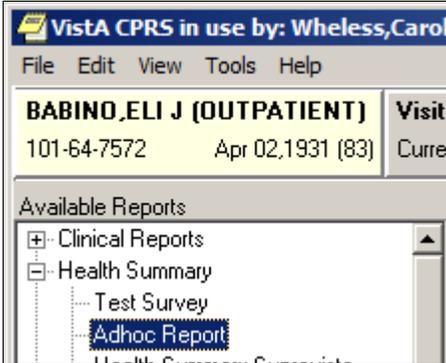
The following instructions and screen shots provide an example of viewing and printing a VPS MRAR Ad Hoc Health Summary Report.

- Login to CPRS and select a patient with an MRAR assessment.

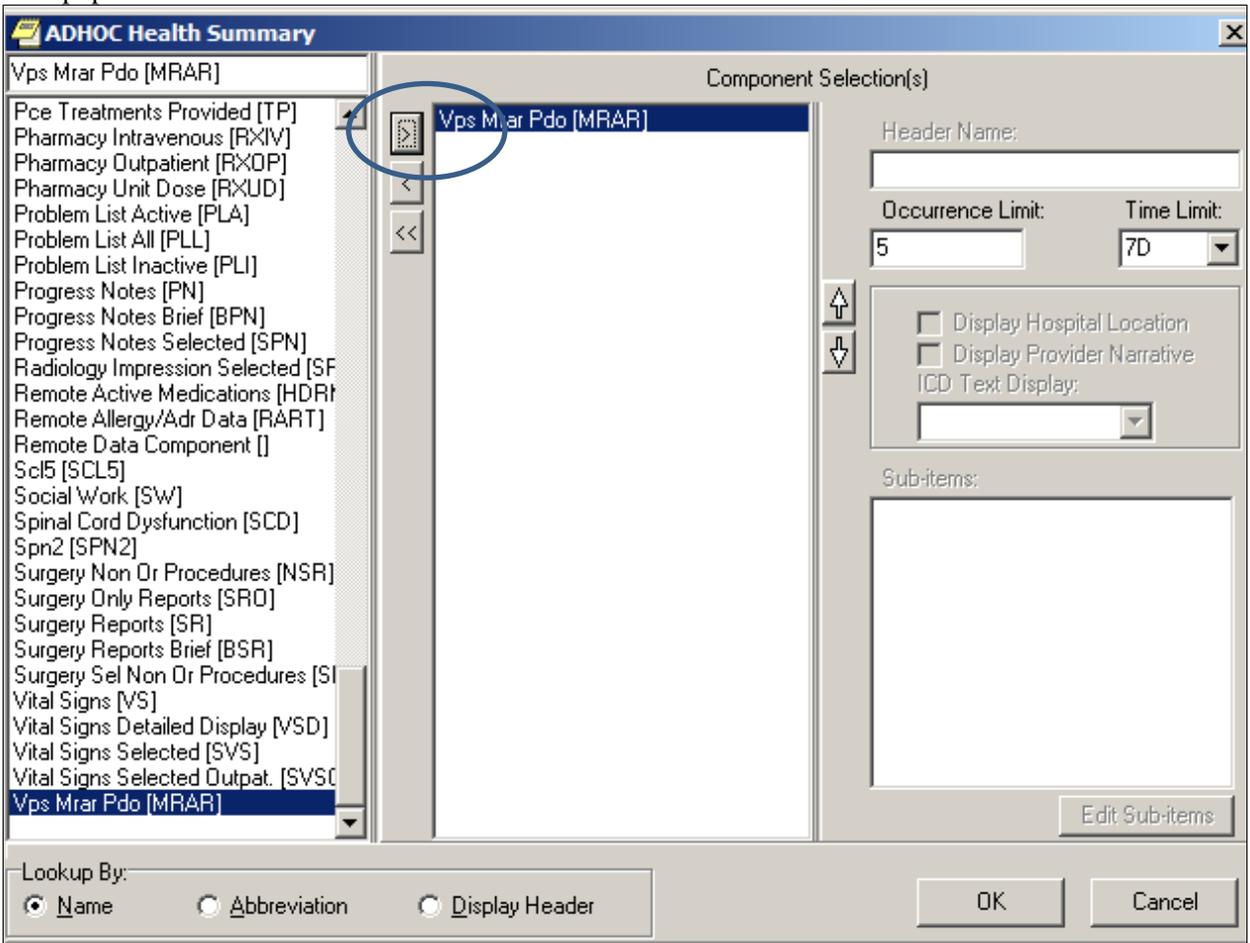
- Click the Reports tab displayed at the bottom of the CPRS window.



- Click Health Summary in the left-menu and then click Adhoc Report



- Scroll to the bottom of the ADHOC Health Summary list and Click the **Vps Mrar Pdo (MRAR)** entry. Click the right-arrow to select the component. The occurrence limit and time limit are auto-populated with the allowed values.



5. Click the **OK** button to view the report on the screen.
6. To print the report right-click in the report window and select Print.  
Exported Options

There are no VistA M Server options exported with VPS 1\*3. However, VPS 1\*3 requires the VPS KIOSK INTERFACE context (option menu).

## **6 Archiving and Purging**

### **6.1 Archiving**

There are no archiving procedures needed for VPS 1\*3 RPC components.

### **6.2 Purging**

There are no purging procedures needed for VPS 1\*3 RPC components.

## **7 Callable Routines**

VPS 1\*3 does not provide callable VistA M Server callable routines.

## **8 External Interfaces**

There are no interfaces to VPS 1\*3 RPCs other than those provided by the VistA M Server and VistA RPC Broker.

## **9 External Relations**

The following minimum package versions are required:

- VA FileMan V. 22.0,
- Kernel V. 8.0,
- Kernel Toolkit V. 7.3,
- CPRS V. 29,
- RPC Broker V. 1.1
- VPS\*1.0\*2

Sites should verify that all patches to these packages have been installed.

## **10 Internal Relations**

There are no internal relations for VPS 1\*3.

# 11 DBIA Agreements

The VistA Database Administrator (DBA) maintains a list of Integration Agreements (IAs) or mutual agreements between custodial owners allows the use of internal entry points or other software-specific features that are not open for unrestricted use.

## 11.1 DBIA Agreements – Custodial Package

1. Sign on to **FORUM** system
2. Go to the **DBA Menu**
3. Select the **Integration Agreements Menu** option
4. Select the **Custodial Package Menu** option
5. Choose the **Active by Custodial Package** Option
6. When prompted for a package, enter *VA Point of Service (Kiosks)*
7. All current IAs to which VA Point of Service (Kiosks) is custodian are listed.

## 11.2 DBIA Agreements – Subscriber Package

1. Sign on to the **FORUM** system
2. Go to the **DBA Menu**
3. Select the **Integration Agreements Menu** option
4. Select the **Subscriber Package Menu** option
5. Select the **Print ALL by Subscriber Package** Option
6. When prompted with “Select PACKAGE NAME,” enter *VA Point of Service (Kiosks)*
7. When prompted with “START WITH SUBSCRIBING PACKAGE,” ENTER *VA Point of Service (Kiosks)*
8. All current IAs to which VPS VA Point of Service (Kiosks) is a subscriber are listed

# 12 Package-wide Variables

There are no package-wide variable associated with VPS 1\*3.

# 13 SAC Exemptions

There are no SAC Exemptions for VPS 1\*3.

# **14 Software Product Security**

## **14.1 Security Management**

No security keys required for used of VPS 1\*3 RPCs.

## **14.2 Mail Groups and Alerts**

There are no mail groups or alerts provided in VPS 1\*3 RPCs.

## **14.3 Remote Systems**

### **14.3.1 Connections**

There are no direct remote system connections to VPS 1\*3 RPCs. Access to VPS 1\*3 run routines is provided through the VistA RPC Broker and the underlying VistA M Server.

### **14.3.2 Remote Data Views**

Remote Data views are not supported by VPS 1\*3 RPCs.

## **14.4 Interfaces**

There are no non-VA products embedded in or required by VPS 1\*3 RPCs, other than those proved by the underlying operating system and VistA RPC Broker.

## **14.5 Electronic Signatures**

There are no electronic signatures used or required by VPS 1\*3 RPCs.

## **14.6 Security Keys**

No security keys are exported with the RPC Broker software.

## 14.7 File Security

Table 6 VPS 1\*3 File Security

File Numbers	File Names	DD	RD	WR	DEL	LAYGO
853	VPS CONFIG HISTORY					
853.3	VPS ALLERGY DISCREPANCY INDICATORS					
853.5	VPS MRAR PDO					
853.7	VPS MED DISCREPANCY INDICATORS					

## 14.8 Official Policies

As per the Software Engineering Process Group/Software Quality Assurance (SEPG/SQA) Standard Operating Procedure (SOP) 192-039—Interface Control Registration and Approval (effective 01/29/01), application programmers must not alter any HealthVet VistA Class I software code.

# 15 Acronyms and Glossary

## 15.1 Acronyms

Table 7: List of Acronyms

Term	Definition
AVS	After Visit Summary
BR	Business rule
CBO	Chief Business Office
CCOW	Clinical Context Object Workgroup
CPRS	Computerized Patient Record System
DFN	Data file number
HIPAA	Health Insurance Portability and Accountability Act
DBIA	Database Integration Agreement
IB	Integrated Billing
ICR	Integration Control Registrations
IEN	Internal entry number
GUI	Graphical user interface
MUMPS/M	Massachusetts General Hospital Utility Multi-Programming System
NSR	New Service Request
OED	Office of Enterprise Development
PDO	Patient Data Object

Term	Definition
PIMS	Patient Information Management System
PMO	Program Management Office
POS	Point of Service
PPOC	Print at Point of Collection
RPC	Remote Procedure Call
RSD	Requirements Specification Document
SACC	Standards and Conventions Committee
SSOi	Single Sign On and Patient Context Management
TCP/IP	Transmission Control Protocol/Internet Protocol
VistA	Veteran's Health Information Systems and Technology Architecture
VISN	Veterans Integrated Service Network
VHA	Veterans Health Administration
VPS	Veterans Point Of Service
VSS	Voluntary Service System

## 15.1.1 Glossary

*Table 8: Glossary*

Term	Definition
Access Code	The unique sequence of characters assigned to the user by the site system manger. The access code in conjunction with the verify code is used to identify authorized users.
Application	A collection of computer programs and files developed specifically to meet the requirements of a user or group of users.
Archive	The process of moving data that is no longer actively used to a separate storage for long-term retention.
Computerized Patient Record System (CPRS)	A suite of clinical applications in VistA that provide access to a patient's Electronic Medical Record (EMR).
E-VPS	The set of VistA patches implementing features identified by VHA Point of Service (Kiosks) Phase II Enhancement VPS.
Field	A data element in a file.
FileMan	The VistA database manager.
Global	A collection of variables (fields) stored on disk that persist beyond routine or process completion. M VistA Server Globals are records stored in structured data files by M.
Kernel	A set of utilities that support data processing on VistA M Servers.
Kiosk	Implementation of a kiosk server at one TCP/IP domain.
M	Massachusetts (General Hospital) Utility Multi-Programming System, formerly known as MUMPS.
Option	Commands presented to a computer user by an applications. Typically, options are presented on a menu and have specific entry and exit actions.
Purge	The action/process of deleting a file or data from a file.
Procedure	A re-useable part of a computer program that performs a single function.

<b>Term</b>	<b>Definition</b>
Required Field	A field which must have a data value entered by the user or passed as a parameter to computer program or subroutine.
Reminder Definition	Pre-defined sets of findings used to identify patients that should receive tests or treatments specific to diagnosed patient conditions. Reminder definitions specify criteria such as diagnoses, procedures, health factors, medications, or demographic variables used to identify affected patients.
RPC	Remote Procedure Call is an inter-process communication protocol that allows invocation of a program subroutine or procedure to execute in shared network space.
Routine	A set of commands and arguments related, stored and executed as a single M program.
Security Key	A keyword which makes specific options accessible to an authorized user.
Remote Procedure	A remote procedure is a procedure that can be executed by another program executing on a remote computer or another program process area.
Verify Code	A unique code which server as a second level of user authentication for accessing a VistA M Server.
VetLink	The VPS Kiosk application composed of a kiosk client used by VA patients and staff to connect to a kiosk server.