

**Virtual Patient Record (VPR) 1.1**

**Technical Manual**

**September 2011**

**(revised July 2012)**

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Department of Veterans Affairs

Health Systems Design and Development

VA Health Information Technology

# Revision History

| **Date** | **Patch or Version** | **Page** | **Description** | **Project Manager** | **Author** |
| --- | --- | --- | --- | --- | --- |
| 7/30/2012 | VPR\*1.0\*1 | 27 | Updated [checksum](#Checksums) for VPRDPSOR | Deb Migliore | Ruth Markham |
| 6/13/2012 | VPR\*1.0\*1 | 5-7  11 | Updated Clinical Procedures ICRs in [External Relationships](#ExternalRel) ,renumbered the table, increased row height when necessary; changed revised date;  fixed typo | Deb Migliore | Ruth Markham |
| 5/18/2012 | VPR\*1.0\*1 | 2 | Added a paragraph about the VPR proxy | Deb Migliore | Ruth Markham |
| 5/15/12 | VPR\*1.0\*1 | All | Changed header colors from blue to black;  Corrected formatting issues;  Added hyperlinks to revision history;  Updated [Overview](#_Overview) to reflect changes with NwHN;  Added new extract routines for [Clinical Observations](#CLiO), [Clinical Procedures](#ClinProc), [Insurance](#Insurance), [Exams](#Exams), [Skin Tests](#SkinTests), [Patient Education](#Education);  Renamed Pharmacy extract [Medications](#Medications);  Renamed Pharmacy Inpatient extract to [Inpatient Meds](#MedsIn);  Renamed Pharmacy Outpatient extract [Outpatient Meds](#MedsOut);  Added [Non-VA Meds](#MedsNonVA) and [IV Fluids/Infusions](#MedsIV) extracts;  Added section for [Implementation & Maintenance](#_Implementation_&_Maintenance);  Added section for [patch description](#_Patch_VPR*1.0*1);  Modified list of new routines;  Updated [Routines List](#_Routine_List) with new and modified extract routines;  Added section for [Security Keys](#_Security_Keys);  Updated [External relationships](#_External_Relationships) table;  Added section for [Files](#_Files);  Updated [Routine List table](#RoutineList) with new/changed routines and reordered elements alphabetically;  Removed elements predecessor, successor, code from [VPRDPL](#Problems) routine because they were never populated; | Deb Migliore | Ruth Markham |
|  |  |  | Added elements acknowledgement [m], provider, and service to [VPRDOR](#Orders) routine;  Added element category to [VPRDPXHF](#HealthFactors);  Added element encounter to [VPRDXIM](#Immunizations) routine; Added elements clinicStop, provider and type to [VPRDSDAM](#Appointments) routine (clinicStop was inadvertently missed in the previous version of this TM);  Added elements category, images and parent to [VPRDTIU](#Documents) routine;  Updated [Checksums](#_Checksums) table;  Added section [Options](#_Options) section;  Added a [Glossary](#_Glossary) section; |  |  |
| 08/08/11 | VPR\*1\*0 |  | VPR version 1.0 Release | Deb Migliore | Ruth Markham |

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# Overview

This document provides technical information for Virtual Patient Record (VPR) version 1.0.

VPR Version 1.0 is a foundation software package component of the Health Management Platform architecture. This architecture is part of the scope of the Health Informatics Initiative.

VPR extracts patient data from domains at local and remote VistA sites to provide a cached view of patient charts. It provides normalized fields with common field names and data structures across domains. VPR includes two remote procedure calls (RPCs), one comprised of routines that extract data from VistA and the other that returns the current version number for VPR.

The VPR RPC for data extraction was initially installed in the Nationwide Health Information Network (NwHIN) namespace, which was called NHIN, and the NwHIN client has been using most of the extract routines in production to get and share data.

At this time, the VPR RPCs will be installed in its own VPR namespace and renumbered as VPR version 1.0. NwHIN can continue to use the extract routines in its NHIN namespace, but will need to access VPR v1.0, or subsequent versions as they are released, in order to take advantage of future enhancements to the extract routines.

The VPR RPC for data extraction was initially installed in the Nationwide Health Information Network (NwHIN) namespace, and the NwHIN client had been using most of the extract routines in production to get and share data. After the VPR RPCs were installed in their own namespace with VPR 1.0, NwHIN began to use VPR to take advantage of future enhancements to the extract routines.

# Implementation & Maintenance

## Patch VPR\*1.0\*1

This patch will correct two reported issues with VPR 1.0, and make additional data domains available:

* Clinical Observations (CLiO)
* Clinical Procedures
* Inpatient Medications (complex orders)
* Insurance (from Integrated Billing)
* PCE Exams, Patient Education, and Skin Tests
* Women’s Health Pregnancy Log, returned as a condition with the Problem List if the patient is currently pregnant

Seven routines in this patch are new, have not previously been released:

VPRDIB [Insurance Policies](#Insurance) extract   
VPRDMC [Procedures (Medicine/Cardiology)](#ClinProc) extract

VPRDMDC [Observations (CLiO)](#CLiO) extract

VPRDPSOR [Medications, by order](#MedsByOrder) extract

VPRDPXAM [Exams](#Exams) extract

VPRDPXED [Education Topics](#Education) extract

VPRDPXSK [Skin Tests](#SkinTests) extract

**Important:** Do not terminate the VPR Application Proxy from file 200. It must remain active for NwHIN to work. Please check your entry to make sure it looks similar to what is listed below.

NAME: VPR,APPLICATION PROXY             DATE ENTERED: SEP 08, 2011

SECONDARY MENU OPTIONS: VPR APPLICATION PROXY

 User Class: APPLICATION PROXY           ISPRIMARY: Yes

PROVIDER KEY (c): 0

## Remote Procedure Calls

|  |  |
| --- | --- |
| **Remote Procedure Call** | **M Entry Point** |
| VPR GET PATIENT DATA | GET^VPRD |
| VPR DATA VERSION | VERSION^VPRD |

The VPR DATA VERSION RPC gets the value of the current version from VPR, and returns it as a string. Any application with the appropriate Data Base Integration Agreements (DBIAs) can use this RPC to extract the version from VPR.

The VPR GET PATIENT DATA RPC retrieves data from VistA, and returns it as XML in a ^TMP global. Any application with the appropriate Data Base Integration Agreements (DBIAs) can use this RPC to extract data from VistA.

Input parameters can be specified to determine the type and amount of data that will be extracted from VistA:

* Internal entry number from Patient file #2 [optionally DFN;ICN for remote calls] [required]
* The kind(s) of data to extract, which may include:
  + Allergy/Reaction
  + Appointments
  + Consults
  + Demographics
  + Documents
  + Education Topics
  + Exams
  + Flags (Patient Record Flags)
  + Health Factors
  + Immunizations
  + Insurance Policies
  + Labs
  + Labs by Accession
  + Labs by Order/Panel
  + Medications
  + Medications by order
  + Observations (CLiO)
  + Orders
  + Problems
  + Procedures
  + Procedures (Medicine/Cardiology)
  + Radiology Exams
  + Skin Tests
  + Surgical Procedures
  + Visits/Encounters
  + Vitals
* The date/time from which to begin searching for data [optional].
* The date/time at which to end searching for data [optional].
* The maximum number of items to return per data type [optional].
* The identifier of a single item to return [optional, but TYPE must also be defined when used].
* List of name-value pairs, further refining the search.

The output from this RPC is a text array formatted as XML in the temporary global ^TMP("VPR",$J,n).

## Security Keys

The VPR RPC package contains no security keys.

# External Relationships

The following Database Integration Agreements (DBIAs) cover the use of the following routines and global references.

| # | DBIA | Global Reference  ICR # | Package |
| --- | --- | --- | --- |
| 1 | ^ORA(102.4) | 5679 | Care Management |
| 2 | ^MDC(704.101\*) | 5748 | Clinical Procedures |
| 3 | ^MDC(704.102\*) | 5809 | Clinical Procedures |
| 4 | ^MDC(704.117\*) | 5810 | Clinical Procedures |
| 5 | ^MDC(704.118\*) | 5811 | Clinical Procedures |
| 6 | MDPS1 | 4230 | Clinical Procedures |
| 7 | GMRCGUIB | 2980 | Consult Request Tracking |
| 8 | GMRCSLM1 | 2740 | Consult Request Tracking |
| 9 | GMRVUT0 | 1446 | Gen. Med. Rec. - Vitals |
| 10 | GMVRPCM | 5702 | Gen. Med. Rec. - Vitals |
| 11 | ^DIC(31) | 733 | HINQ |
| 12 | XUSAP | 4677 | Kernel |
| 13 | ^LR | 525 | Laboratory |
| 14 | ^LAB(61) | 524 | Laboratory |
| 15 | ^LRO(68) | 1963 | Laboratory |
| 16 | ^LRO(69) | 2407 | Laboratory |
| 17 | LR7OR1 | 2503 | Laboratory |
| 18 | LR7OU1 | 2955 | Laboratory |
| 19 | ^OR(100) | 5771 | Order Entry/Results Reporting |
| 20 | ^ORD(100.98) | 873 | Order Entry/Results Reporting |
| 21 | ^ORD(101.43) | 2843 | Order Entry/Results Reporting |
| 22 | ORCD | 5493 | Order Entry/Results Reporting |
| 23 | ORQ1 | 3154 | Order Entry/Results Reporting |
| 24 | ORQ12 | 5704 | Order Entry/Results Reporting |
| 25 | ORX8 [EN] | 871 | Order Entry/Results Reporting |
| 26 | ORX8 [$$OI, $$VALUE] | 2467 | Order Entry/Results Reporting |
| 27 | ORX8 [$$PKGID] | 3071 | Order Entry/Results Reporting |
| 28 | PSOORRL | 2400 | Outpatient Pharmacy |
| 29 | ^AUPNVSIT | 2028 | PCE Patient Care Encounter |
| 30 | ^AUTTHF | 4295 | PCE Patient Care Encounter |
| 31 | ^PXRMINDX | 4290 | PCE Patient Care Encounter |
| 32 | PXAPI | 1894 | PCE Patient Care Encounter |
| 33 | PXPXRM | 4250 | PCE Patient Care Encounter |
| 34 | ^AUPNPROB | 5703 | Problem List |
| 35 | GMPLUTL2 | 2741 | Problem List |
| 36 | ^RADPT | 2480 | Radiology/Nuclear Medicine |
| 37 | ^RARPT | 5605 | Radiology/Nuclear Medicine |
| 38 | ^DGS(41.1) | 3796 | Registration |
| 39 | ^DGSL(38.1) | 767 | Registration |
| 40 | ^DIC(42) | 723 | Registration |
| 41 | ^DPT | 5708 | Registration |
| 42 | ^DPT | 5597 | Registration |
| 43 | DGPFAPI | 3860 | Registration |
| 44 | VADPT2 | 325 | Registration |
| 45 | ^DIC(40.7) | 557 | Scheduling |
| 46 | ^SRF(130) | 5675 | Surgery |
| 47 | ^SRO(136) | 4872 | Surgery |
| 48 | SROESTV | 3533 | Surgery |
| 49 | ^TIU(8925.1) | 5677 | Text Integration Utilities |
| 50 | ^TIU(8925.1) | 2321 | Text Integration Utilities |
| 51 | ^TIU(8926.1) | 5678 | Text Integration Utilities |
| 52 | TIUCNSLT | 5546 | Text Integration Utilities |
| 53 | TIUCP | 3568 | Text Integration Utilities |
| 54 | TIULQ | 2693 | Text Integration Utilities |
| 55 | TIULX | 3058 | Text Integration Utilities |
| 56 | TIUSROI | 5676 | Text Integration Utilities |
| 57 | TIUSRVLO | 2834 | Text Integration Utilities |
| 58 | TIUSRVLO | 2865 | Text Integration Utilities |
| 59 | TIUSRVR1 | 2944 | Text Integration Utilities |
| 60 | ^WV(790.05) | 5772 | Women’s Health |

# Files

There are no files released with VPR at this time.

# Routines

## Routine List

The VPR RPC includes the following routines:

| **#** | **Routine** | **Description** |
| --- | --- | --- |
| 1 | VPRD | VPR GET PATIENT DATA RPC: responds to requests for data and serves as a broker, calling the appropriate VPR data extract routines to gather the requested data.  VPR DATA VERSION RPC: returns a string identifying the current version of the VPR data extracts. |
| 2 | VPRDGMPL | Problems Extract: responds to requests for problem list and pregnancy data and returns XML-formatted results for the following attributes:   * acuity * comment [m] * entered * exposure [m] * facility * history * icd * id * location * name * onset * problemType * provider * removed * resolved * sc * service * status * unverified * updated |
| 3 | VPRDGMRA | Allergy/ Reaction Extract: responds to requests for reaction data and returns XML-formatted results for the following attributes:   * comment [m] * drugClass [m] * drugIngredient [m] * entered * facility * id * localCode * mechanism * name * reaction [m] * removed * severity * source * type * verified * vuid |
| 4 | VPRDGMRC | Consults Extract: responds to requests for consultation data and returns XML-formatted results for the following attributes:   * document [m] * facility * id * name * orderID * procedure * requested * result * service * status * type |
| 5 | VPRDGMV | Vitals Extract: responds to requests for vital measurements data and returns XML-formatted results for the following attributes:   * entered * facility * location * measurement [m]   + id   + vuid   + name   + value   + units   + metricvalue   + metricUnits   + high   + low   + qualifier [m] * removed [m] * taken |
| 6 | VPRDGPF | Flags Extract: responds to requests for patient record flag data and returns XML-formatted results for the following attributes (only returns flags that are currently active):   * approvedBy * assigned * category * content * document * id * name * origSite * ownSite * reviewDue * type |
| 7 | VPRDIB | Insurance Policies Extract: responds to requests for insurance data and returns XML-formatted results for the following attributes (only policies that are currently active are returned):   * company   + id   + name   + address   + telecom * effectiveDate * expirationDate * groupName * groupNumber * id * insuranceType * relationship * subscriber |
| 8 | VPRDLR | Labs Extract: responds to requests for chemistry results and returns XML-formatted results for the following attributes:   * collected * comment * facility * groupName * high * id * interpretation * labOrderID * localName * loinc * low * orderID * result * resulted * sample * specimen * status * test * type * units * vuid |
| 9 | VPRDLRA | Labs By Accession Extract: responds to requests for lab results grouped by accession and returns XML-formatted results for the following attributes:   * collected * comment * document * facility * groupName * id * labOrderID * name * resulted * sample * specimen * status * type * value   + high   + id   + interpretation   + localName   + loinc   + low   + result   + test   + units   + vuid |
| 10 | VPRDLRO | Lab Panel Extract: responds to requests for lab results grouped by order/panel and returns XML-formatted results for the following attributes:   * collected * comment * facility * groupName * id * order * resulted * sample * specimen * status * type * value   + high   + id   + interpretation   + loinc   + low   + result   + test   + units   + vuid |
| 11 | VPRDMC | Clinical Procedure Extract: responds to requests for medicine/cardiology procedure data, directly or via the Procedures extract, and returns XML-formatted results for the following attributes:   * category * consult * dateTime * document [m] * encounter * facility * hasImages * id * interpretation * location * name * order * provider * requested * status * type |
| 12 | VPRDMDC | Observations (CLiO) Extract: responds to requests for clinical observation data and returns XML-formatted results for the following attributes (only verified observations are returned):   * bodySite * comment * entered * facility * id * location * method * name * observed * position * product * quality * range * status * units * value * vuid |
| 13 | VPRDOR | Orders Extract: responds to requests for order data and returns XML-formatted results for the following attributes:   * acknowledgement [m] * content * entered * facility * group * id * location * name * provider * service * start * status * stop |
| 14 | VPRDPROC | Procedures Extract: responds to requests for procedure data. The domain is a combination of the Surgery, Radiology, and Clinical Procedures packages. Please refer to VPRDSR, VPRDRA, and VPRDMC in this table for attribute information. |
| 15 | VPRDPS | Medications Extract: responds to requests for medication data and returns XML-formatted results for attributes based on the type of medication. See the next four table entries for attribute details. |
| 15a | VPRDPS: Inpatient (unit dose) Meds | Medications Extract/Inpatient (unit dose) Meds returns XML-formatted results for the following attributes:   * currentProvider * dose [m]   + conjunction   + dose   + doseStart   + doseStop   + duration   + noun   + order   + route   + schedule   + units   + unitsPerDose * facility * form * id * IMO * location * medID * name * ordered * orderID * orderingProvider * parent * pharmacist * product [m]   + class   + code   + concentration   + name   + order   + role   + vaGeneric   + vaProduct * sig * start * status * stop * vaStatus * vaType |
| 15b | VPRDPS: Non-VA Meds | Medications Extract/Non-VA Meds returns XML-formatted results for the following attributes:   * currentProvider * dose [m]   + noun   + route   + schedule   + units   + unitsPerDose * facility * form * id * location * medID * name * ordered * orderID * orderingProvider * product [m]   + class   + code   + concentration   + name   + role   + vaGeneric   + vaProduct * sig * start * status * stop * type * vaStatus * vaType |
| 15c | VPRDPS: Outpatient Meds | Medications Extract/Outpatient Meds returns XML-formatted results for the following attributes:   * currentProvider * daysSupply * dose [m]   + conjunction   + dose   + doseStart   + doseStop   + duration   + noun   + route   + schedule   + units   + unitsPerDose * expires * facility * fill [m] * fillCost * fillsAllowed * fillsRemaining * form * id * lastFilled * location * medID * name * ordered * orderID * orderingProvider * pharmacist * prescription * product [m]   + class   + code   + concentration   + name   + role   + vaGeneric   + vaProduct * ptInstructions * quantity * routing * sig * start * status * stop * supply * type * vaStatus * vaType |
| 15d | VPRDPS: IV Fluids/ Infusions | Medications Extract/IV Fluids/Infusions Meds returns XML-formatted results for the following attributes:   * currentProvider * dose [m] * facility * id * ivLimit * location * medID * name * ordered * orderID * orderingprovider * pharmacist * product   + class   + code   + concentration   + name   + ordItem   + role   + vaGeneric   + vaProduct * rate * start * status * stop * vaStatus * vaType |
| 16 | VPRDPSOR | Medications By Order Extract: responds to requests for medication data by order data and returns XML-formatted results for attributes corresponding to the type of medication. This routine returns data in the same four formats as VPRDPS, the exception being that inpatient medications may be returned with multiple doses instead of one dose per medication. See previous entry for VPRDPS for details. |
| 17 | VPRDPT | Demographics Extract: responds to requests for patient demographic data and returns XML-formatted results for the following attributes:   * address * alias [m] * bid * died * disability [m] * dob * ethnicity [m] * exposure [m] * facility [m] * familyName * flag [m] * fullName * gender * givenNames * icn * id * lrdfn * maritalStatus * race [m] * religion * sc * scPercent * sensitive * ssn * support [m] * telecom * veteran |
| 18 | VPRDPXAM | Exams Extract: responds to requests for patient exam data and returns XML-formatted results for the following attributes:   * comment * dateTime * encounter * facility * id * name * result |
| 19 | VPRDPXED | Education Topics Extract: responds to requests for patient education data and returns XML-formatted results for the following attributes:   * comment * dateTime * encounter * facility * id * name * result |
| 20 | VPRDPXHF | Health Factors Extract: responds to requests for health factor data and returns XML-formatted results for the following attributes:   * category * comment * encounter * facility * id * name * recorded * severity |
| 21 | VPRDPXIM | Immunizations Extract: responds to requests for immunization data and returns XML-formatted results for the following attributes:   * administered * comment * contraindicated * cpt * encounter * facility * id * location * name * provider * reaction * series |
| 22 | VPRDPXSK | Skin Tests Extract: responds to requests for skin test data and returns XML-formatted results for the following attributes:   * comment * dateTime * encounter * facility * id * name * result |
| 23 | VPRDRA | Radiology Exams Extract: responds to requests for radiology exam data, directly or via the Procedures extract, and returns XML-formatted results for the following attributes:   * case * category * dateTime * document [m] * encounter * facility * hasImages * id * imagingType * interpretation * location * modifier [m] * name * order * provider * status * type |
| 24 | VPRDSDAM | Appointments Extract*:* responds to requests for future scheduled visits and returns XML-formatted results for the following attributes:   * apptStatus * clinicStop * dateTime * facility * id * location * patientClass * provider * service * serviceCategory * type * visitString |
| 25 | VPRDSR | Surgical Procedures Extract: responds to requests for surgery data, directly or via the Procedures extract, and returns XML-formatted results for the following attributes:   * category * dateTime * document [m] * encounter * facility * id * modifier [m] * name * opReport * otherProcedure [m] * provider * status * type |
| 26 | VPRDTIU | Documents Extract: responds to requests for documents and returns XML-formatted results for the following attributes:   * category * clinician [m] * content * documentClass * encounter * facility * id * images * localTitle * loinc * nationalTitle * nationalTitleRole * nationalTitleService * nationalTitleSetting * nationalTitleSubject * nationalTitleType * parent * referenceDateTime * status * subject * type |
| 27 | VPRDVSIT | Visits/Encounters Extract:responds to requests for visit data (inpatient and outpatient encounters) and returns results in XML-format for the following attributes (only primary, non-historical visits are returned):   * creditStopCode * dateTime * document [m] * facility * id * location * patientClass * provider [m] * reason * service * serviceCategory * stopCode * type * visitString   For admissions only:   * arrivalDateTime * departureDateTime * provider [m] * roomBed * specialty |

## Example

The following text paragraph contains a snippet of data that the VPRDGMV routine returned in response to a VPR GET PATIENT DATA RPC call for information about test-patient 229:

<vital>

<entered value='3050316.115625' />

<facility code='998' name='ABILENE (CAA)' />

<location code='158' name='7A GEN MED' />

<measurements>

<measurement id='14871' vuid='4500634' name='BLOOD PRESSURE' value='168/68' high

='210/110' low='100/60' />

<measurement id='14869' vuid='4500636' name='PULSE' value='72' high='120' low='60' >

<qualifiers>

<qualifier name='RADIAL' vuid='4688678' />

</qualifiers>

</measurement>

<measurement id='14872' vuid='4500635' name='PAIN' value='1' />

<measurement id='14870' vuid='4688725' name='RESPIRATION' value='18' high='30' low='8' >

<qualifiers>

<qualifier name='SPONTANEOUS' vuid='4688706' />

</qualifiers>

</measurement>

<measurement id='14868' vuid='4500638' name='TEMPERATURE' value='99' units='F' metricValue='37.2' metricUnits='C' high='102' low='95' >

<qualifiers>

<qualifier name='ORAL' vuid='4500642' />

</qualifiers>

</measurement>

</measurements

<taken value='3050316.1' />

</vital>

## Checksums

The following table contains checksums for the VPR routines VPR GET PATIENT DATA.

|  |  |  |
| --- | --- | --- |
| **#** | **Routine** | **Checksum** |
| 1 | VPRD | 28899728 |
| 2 | VPRDGMPL | 27790775 |
| 3 | VPRDGMRA | 22392321 |
| 4 | VPRDGMRC | 10880986 |
| 5 | VPRDGMV | 41671211 |
| 6 | VPRDGPF | 5569926 |
| 7 | VPRDIB | 12692505 |
| 8 | VPRDLR | 24712747 |
| 9 | VPRDLRA | 76300469 |
| 10 | VPRDLRO | 27350157 |
| 11 | VPRDMC | 58328454 |
| 12 | VPRDMDC | 44678829 |
| 13 | VPRDOR | 13221791 |
| 14 | VPRDPROC | 10570617 |
| 15 | VPRDPS | 18817165 |
| 16 | VPRDPSI | 41207623 |
| 17 | VPRDPSO | 15569449 |
| 18 | VPRDPSOR | 39128356 |
| 19 | VPRDPT | 70553505 |
| 20 | VPRDPXAM | 9620825 |
| 21 | VPRDPXED | 9831355 |
| 22 | VPRDPXHF | 10068928 |
| 23 | VPRDPXIM | 15857859 |
| 24 | VPRDPXSK | 9706647 |
| 25 | VPRDRA | 41770325 |
| 26 | VPRDSDAM | 20114385 |
| 27 | VPRDSR | 30371946 |
| 28 | VPRDTIU | 80235055 |
| 29 | VPRDVSIT | 89381077 |
| 30 | VPRPI << post install routine | 300624 |

# Options

|  |  |
| --- | --- |
| **Name** | **Description** |
| VPR APPLICATION PROXY | This option allows the VPR connector proxy access to the VistA system. |

# Glossary

|  |  |
| --- | --- |
| **Term** | **Description** |
| CLiO | Clinical Observations |
| HMP | Health Management Platform |
| PCE | Patient Care Encounter |
| RPC | Remote Procedure Call |
| VistA | Veterans (Health) Information System Technology Architecture |
| VPR | Virtual Patient Record |