VHA Point of Service (Kiosks) Phase II

Technical Manual

For

Voluntary Service System Web Services

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# 

## Orientation

### *How to Use this Manual*

This manual provides technical information for the Voluntary Service System (VSS) Web Services. This is in support of the kiosks’ user-interface that will allow a volunteer to log into VSS, enter his/her hours to the appropriate job assignment, and receive a meal voucher (if eligible).

### *Intended Audience*

The intended audience of this manual is the following stakeholders:

* Product Development (PD) development teams.
* Information Resource Management (IRM) system administrators at Department of Veterans Affairs (VA) sites who are responsible for computer management and system security.
* 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 VSS Web Services.

### *Disclaimers*

This manual provides an overall explanation of VSS Web Services functionality. This guide does not attempt to explain how the overall 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.

### *Commonly Used Terms*

Table 1: Commonly Used VSS Web Services Terms

| Term | Description |
| --- | --- |
| VSS | Veteran’s Point of Service |
| SOAP | Simple Object Access protocol, is a protocol specification for exchanging structured information in the implementation of web services |
| Apache-CXF | Framework for creating Web Services |
| Maven | Build tool from Apache |
|  |  |

### *Technical Information Online*

Project documentation for VPS Kiosks may be found in the Technical Services Project Repository (TSPR).

### *Help Prompts*

There are no online help prompts provided for VSS Web Services.

### *Data Dictionary*

| **Function** | **Table Name** |
| --- | --- |
| **Volunteer Personal Data** | **VtkVolunteers** |
| **Volunteer Organization** | **VtkVolunteerOrganizations** |
| **Voluntary Station Parameters** | **VtkVoluntaryStationParameters** |
| **Benefit Service** | **VtkBenefitingServices** |
| **Daily Volunteer Hours** | **VtkVlntrHoursDaily** |
| **Institution** | **VtkInstitutions\_tbl** |
| **Language** | **VtkLanguages** |
| **Meals Provided** | **VtkMealsProvided** |
| **NAC Status** | **VtkNACStatuses** |
| **State information** | **VtkState** |
| **Voluntary Services** | **VtkVoluntaryServices** |
| **Voluntary Service Types** | **VtkVoluntaryServiceTypes** |
| **Users** | **VtkUsers** |
| **Volunteer schedule work days** | **VtkVolunteerScheduleWorkdays** |
| **Database logger** | **VtkAuditLogKioskWebServices** |
| **Holidays** | **VtkHolidays** |

### *Assumptions*

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

| Group | Name | Description |
| --- | --- | --- |
| MS SQL Server Database | Authoritative Source for VSS Data | The existing VSS MS SQL Server database will continue to serve as the authoritative source for volunteer services. |
| VSS data changes | Implementation should require minimal changes to the VSS MS SQL Server database. Ideally, the underlying database changes should be so minimal that the existing kiosk-like workstations supporting VSS and the new VetLink Kiosks can work side-by-side without disruption as new VetLink Kiosks are introduced and legacy VSS workstations are decommissioned. |
| User Interface | KIOSK User Interface | The VSS Web Services will be consumed directly or indirectly by the Point of Service kiosk system. These Kiosks will be 100% responsible for creating the user interface components seen by end user volunteers. |
| Program Governance | Business Review | VSS PMO will review / approve design-development artifacts, to include iteration/release plans, design artifacts, traceability artifacts. Additionally, VSS 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. |

### *References*

The following references support the reader’s understanding of the operation and functioning of VPS 1\*4:

* *VSS Web Services Technical Manual (this guide)*
* *Veteran’s Point of Service (VPS) FY14 OIT PD BRD, Version 2.0 (May 2014)*
* *20090210 VHA Point-of-Service Initiative BRD*

# Introduction

The *VSS Web Services Technical Manual* provides descriptive information and instruction on the use of VSS Web Services. 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 Web Services that comprise this software.

## Product Overview

The VSS Web Services application is expected to support the following operations.

* getVolunteerShortDescriptions
* getVolunteers
* getVolunteer
* getVoluntaryStationParameters
* addDailyVolunteerHours
* editDailyVolunteerHours
* getMeals
* getPreviousVolunteerAssignments
* getVolunteerAssignments
* updateReprintedFlag

## Namespace Conventions

There is no namespace assigned to VSS Web Services.

# Implementation and Maintenance

The *VSS Web Services Installation Manual* provides detailed information regarding the installation of the VSS Web Services.

## Site Parameters

No site specific parameters are provided or required for VSS Web Services.

# Files

## Server Files

Table 2 Server Files Accessed by VSS Web Services

| **FILE NAME ..** |  |
| --- | --- |
| C:\<user id>\.m2\settings.xml | Maven settings file |
| C:\data\dev\dev-tools\apache-tomcat-7.0.54\conf\Catalina\localhost\vss.xml | JDBC configuration file to access the SQL Server database |
| C:\data\dev\dev-tools\apache-tomcat-7.0.54\webapps\vss.war | VSS Web archive file that is deployed on the Apache Tomcat server |
| C:\data\dev\dev-tools\apache-tomcat-7.0.54\bin\vss\_audit.log | VSS audit log which will be updated in case the audit logging to the database fails for any reason. |
| C:\data\dev\dev-tools\apache-tomcat-7.0.54\bin\vss\_error.log | VSS error log which will be updated in case the error logging to the database fails for any reason. |
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# Global Translation, Journaling and Protection

| **Method Name** | **DESCRIPTION** |
| --- | --- |
| getVolunteerShortDescriptions | gets a list of Volunteers who share the same volunteer identifying code. The Volunteer Information returned contains just enough information so the volunteer can identify herself/himself by volunteer name. The VSS database has the unusual characteristic that multiple volunteers may have the same identifying code. This '...ShortDescription' web service operation offers faster and lighter results. The intent is to use this web service operation in conjunction with the 'getVolunteer' call. That is, the correct volunteerId (not volunteerIdentifyingCode) returned in the getVolunteerShortDescriptions' result should be used in the 'getVolunteer' call. The 'getVolunteer' call then contains far more detailed Volunteer information. |
| getVolunteers | This method gets a list of fully-populated Volunteers who share the same volunteer identifying code - Multiple volunteers often share the same identifying code |
| getVolunteer | This method gets a fully-populated Volunteer with the unique volunteerId. Unlike the 'volunteer identifying code' which is often shared by many volunteers, the volunteerId is unique to each volunteer |
| getVoluntaryStationParameters | This is a utility method to get additional information about a particular volunteer station / institution |
| addDailyVolunteerHours | This method is used to add the hours worked for a particular volunteer at a particular station |
| editDailyVolunteerHours | This method is used to edit the hours worked for a particular volunteer at a particular station |
| getMeals | gets a list of MealsProvided that contains the core information needed to print out a meal ticket voucher. Invoking this web service operation launches the meal ticket availability calculation. Furthermore, if the meal ticket availability is positively determined, the MealsProvided record will be created in the database.Alternatively, if it is determined that a volunteer is not eligible for a meal ticket on a given day, then no MealsProvided record will be created. The meal eligibility determination is very precise, so it is absolutely necessary to invoke this web service operation before printing a meal ticket. Furthermore, subsequent calls to the web service operation using the same data will be handled as if the meal ticket printing failed and a reprint is being done. Also, once the getMeals operation successfully returns a list of MealsProvided, then this information will also be available thru the getVolunteer call. This method also accepts a Boolean parameter named retrieveExistingTicket which when set to true, retrieves an existing meal ticket back from the database. |
| getPreviousVolunteerAssignments | This method returns a list of assignments upon which the volunteer has worked on in the past. This utility method is available in the event that a Volunteer has not active assignments. |
| getVolunteerAssignments | This method returns a list of assignments for the volunteer. The same information is also returned as a subset of the getVolunteer method |
| updateReprintedFlag | This method accepts a HashMap containing a list of Mealsprovided Ids and a Boolean flag value. It updates the IsReprinted flag with the flag value on the VtkMealsProvided table based on the Id. It returns a Boolean true value if the update was successful. |
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There are no VSS Web Services Server files for which VPS is the custodial owner. Consequently, global translation, journaling and protection is not required.

## VSS Web Services

Table 3 VSS Web Services

Table 4 VSS Web Services

## Detailed Information

The VSS Web Services are developed using the Apache-CXF framework and the Java programming language. All database access is done using the Spring JDBC Template. All the method invocations are logged to the database using the Spring AOP method interceptor framework. In case the database auditing fails for any reason, the method invocations are logged to a file using the log4j utility. All errors are logged to the database. In case the database error logging fails for any reason, the errors are logged to a file using the log4j utility.

# Exported Options

There are no VistA M Server options associated with VSS Web Services.

# Archiving and Purging

## Archiving

There are no archiving procedures needed for VSS Web Services components.

## Purging

There are no purging procedures needed for VSS Web Services components.

# Callable Routines

VSS Web Services does not provide callable VistA M Server callable routines.

# External Interfaces

# External Relations

The following minimum package versions are required:



# Internal Relations

There are no internal relations for VSS Web Services.

# DBIA Agreements

There are no DBIA Agreements needed for VSS Web Services.

# Package-wide Variables

There are no package-wide variable associated with VSS Web Services.

# SAC Exemptions

There are no SAC Exemptions for VSS Web Services.

# Software Product Security

## Security Management

The VSS Web service is encrypted using SSL (Secure Sockets Layer) protocol. This ensures that data is exchanged securely over the network.

## Mail Groups and Alerts

## Remote Systems

### Connections

### Remote Data Views

## Interfaces

## Electronic Signatures

There are no electronic signatures used or required by VSS Web Services.

## Security Keys

No security keys are needed by VSS Web Services.

## File Security

There are no VistA M Server data files for which VSS Web Services is the custodial owner.

## Official Policies

There a no official policies pertinent to the VSS Web Services.

# Acronyms and Glossary

## Acronyms

Table 5: 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 |
| NSR | New Service Request |
| OED | Office of Enterprise Development |
| PMO | Program Management Office |
| POS | Point of Service |
| 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 |

## Glossary

Table 6: 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. |
| Kiosk | Implementation of a kiosk server at one TCP/IP domain. |
| Purge | The action/process of deleting a file or data from a file. |
| Security Key | A keyword which makes specific options accessible to an authorized user. |
| VetLink | The VPS Kiosk application composed of a kiosk client used by VA patients and staff to connect to a kiosk server. |