VHA Point of Service (Kiosks) Phase II

Installation Guide

For

Voluntary Service System Web Services

Version 0.01



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# Orientation

## How to Use this Manual

This manual provides installation instructions 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 the VSS Web Services.

## Disclaimers

This manual provides an overall explanation of VSS Web Services installation. 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 only 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 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 |
| HTTP | Hypertext Transport protocol used for exchanging information on the web |
| HTTPS | Hypertext Transport protocol used for exchanging encrypted information on the web |

## 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

## 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 described in this SDD 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. Thus, this SDD will not document user interface requirements. |
| 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 VSS Web Services:

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

# Preliminary Considerations

## VSS Web Services Server Requirements

The following minimum software tools are required in order to install and use VSS Web Services.

Table 2: Minimum Server Requirements

| ITEM | PACKAGE | VERSION |
| --- | --- | --- |
| Programming and build tools | Java | 1.7 |
|  | Maven | 3.0 |
| Apache CXF Framework | 2.0 |
|  |  |
|  |  |
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| Application Server | Apache Tomcat | 7.0 |

# Installation

**Step 1**

Download and install Java JDK 1.7 to the following folder

C:\data\dev\dev-tools\Java

**Step 2**

Download and install Apache Maven to the following folder

C:\data\dev\dev-tools\apache-maven-3.0

**Step 3**

Download and install Tomcat 7.0 to the following folder

C:\data\dev\dev-tools\apache-tomcat-7.0.57

**Step 4**

Create a Maven settings.xml file under the folder

C:\Users\<User Id>\.m2 with the local repository pointing to the

C:\data\dev\dev-projects\vps-mvn-repository folder

**Step 5**

Set up the following environment variables

set JAVA\_HOME=C:\data\dev\dev-tools\Java

set MAVEN\_HOME=C:\data\dev\dev-tools\apache-maven-3.0\apache-maven-3.0.4

set PATH=%PATH%;%JAVA\_HOME%\bin;C:\data\dev\dev-tools\apache-maven-3.0\apache-maven-3.0.4\bin

**Step 6**

Download the entire vss\_master project from the source repository to the following folder

C:\data\dev\dev-projects\vss-master

**Step 7**

Open a command window and cd to the

C:\data\dev\dev-projects\vss-master folder

**Step 8**

Type in the following command followed by the Enter key

mvn clean install

**Step 9**

Step 7 should build and compile successfully. Once the build is done, the file vss.war is created under the

C:\data\dev\dev-projects\vss-master\target folder.

**Step 10**

Deploy the vss.war file to the Apache Tomcat application server.

**Step 11**

Create the localhost.crt and localhost.key files (The certificates can be a self-signed certificate created using the OpenSSL tool in a non-production environment. For production, we must purchase a suitable certificate from a trusted certificate authority).

**Step 12**

Add the following entries to the server.xml file under the C:\data\dev\dev-tools\apache-tomcat-7.0.57\conf folder.

<Connector port="8443" maxHttpHeaderSize="8192"

maxThreads="150"

enableLookups="false" disableUploadTimeout="true"

acceptCount="100" scheme="https" secure="true"

SSLEnabled="true"

SSLCertificateFile="${catalina.base}/conf/localhost.crt"

SSLCertificateKeyFile="${catalina.base}/conf/localhost.key" />

**Step 13**

Restart the Tomcat application server by executing the startup.bat file under the C:\data\dev\dev-tools\apache-tomcat-7.0.57\bin folder.

## Installation Prerequisites

Java, Maven and Apache web server tools must be installed. The entire vss\_master maven project must be available for download from the source repository. SSL certificate and key files must be available for use.

## Installation of VSS Web Services

Compile and build the entire vss\_master project as mentioned in Step 9 of installation instaructions. This build will produce a vss.war file under the C:\data\dev\dev-projects\vss-master\target folder.

Copy the vss.war file to the C:\data\dev\dev-tools\apache-tomcat-7.0.57\webapps folder.

Restart the Tomcat application server by executing the startup.bat file under the C:\data\dev\dev-tools\apache-tomcat-7.0.57\bin folder.

## Sample Installation

# Post-Install

There are no post-install instructions for 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. |