Department of Veterans Affairs

Automated Surgical Risk Calculator (ASRC)

Installation Guide



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Revision History

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| --- | --- | --- | --- |
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# Introduction

This document provides installation and setup steps for the Prototype Automated Surgical Risk Calculator Tool (“the Tool”). It includes steps for both the Java-based Web Application and the supporting VistA patch. It is intended for software developers and system administrators.

## Additional Resources

The complete Automated Surgical Risk Calculator documentation is provided in the project’s GitHub repository (<https://github.com/VHAINNOVATIONS/ASRCM>).

# Installation Manual

## Pre-requisites

The Tool requires both an Application Server to run the Java Web Application and an instance of VistA. The pre-requisites for both servers are included below.

### Application Server Pre-requisites

The Application Server requires a Windows 2012 server with 2 Gigabytes (GiB) of free space available on the C: drive.

The Tool installation requires Administrator privileges on the Windows Server.

### VistA Server Pre-requisites

TBD

## Pre-installation Tasks

### Installation Parameters Table

The following table contains installation parameters referenced throughout this document. Please fill it out before performing the installation.

| Parameter | Example Value | Actual Value |
| --- | --- | --- |
| Installation Files Directory | C:\Users\jsmith\Downloads\ASRCM‑0.1 |  |
| Server DNS Name | asrcdev.myhost.com |  |

### Install Microsoft .NET Framework 3.5

If the Microsoft .NET Framework 3.5 is not installed on the Windows Application Server, install it using standard Microsoft tools (e.g., Server Manager Roles and Features).

### Download Installation Files

Please follow the below steps to download all necessary files for the installation.

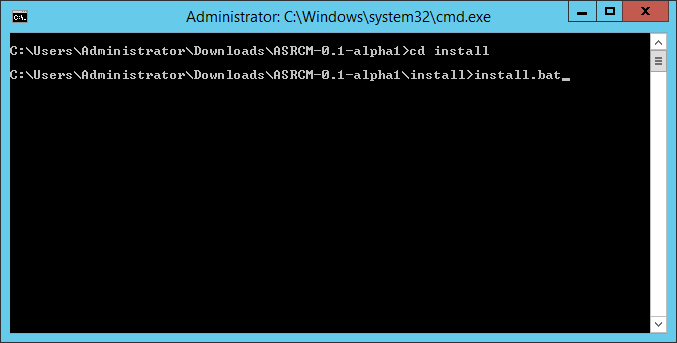
1. Download the desired release zip file from the project’s GitHub repository (<https://github.com/VHAINNOVATIONS/ASRCM/releases/>).
2. Extract the zip file to the *Installation Files Directory* from the Installation Parameters Table.
3. Download the latest Windows x64 Java SE Development Kit 7 from Oracle (<http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>) and place it in the install directory within the *Installation Files Directory*.
4. Download the Glassfish 3.1.2.2 installer from Oracle (<http://dlc.sun.com.edgesuite.net/glassfish/3.1.2.2/release/glassfish-3.1.2.2-web-windows.exe>) and place it in the install directory within the *Installation Files Directory*.
5. Download the MySQL 5.6.21 installer from Oracle (<http://dev.mysql.com/downloads/file.php?id=454044>) and place it in the install directory within the *Installation Files Directory*.

### Build srcalc.war

Refer to the Developer Guide for instructions on assembling the Web Application Archive, srcalc.war. Transfer srcalc.war to the install directory within the *Installation Files Directory*.

## Installation Procedure

Please follow the below steps to install the Tool on the Windows Application Server.

1. Run the Java SE Development Kit installer downloaded in Section 2.2.3 above. You may accept all the default configuration options.
2. Add a system Environment Javariable JAVA\_HOME pointing to the Java Development Kit (JDK) installation directory (e.g., C:\Program Files\Java\jdk1.7.0\_40).
3. Open an Administrator Command Prompt in the *Installation Files Directory*.
4. Change directory to the install directory.
5. Run install.bat.  
   
6. Wait for the installer to complete. Installation is automatic.
7. Optional: the installer creates a Glassfish Administrative user called “admin” with a password of “AsrcAdminGf”. If desired, you may change this password now using the admin console running at <http://localhost:4848/>.
8. If necessary, create a Windows Firewall rule to allow inbound traffic on port 80.

## Post-installation

After installation, open a web browser and browse to <http://[servername]/srcalc/>, replacing [servername] with the *Server DNS Name* from the Installation Parameters Table. If the installation has succeeded, you should be presented with a login screen to the tool.

## Uninstall or Roll-back

As a brand-new prototype application, no roll-back procedure is applicable.

To uninstall the application, perform the following steps:

1. Run the following command: C:\asrc\glassfish3\uninstall.exe -j "C:\Program Files\Java\jdk1.7.0\_71"
2. Uninstall *MySQL Server 5.6* and *MySQL Connector J* using Windows *Programs and Features*.

# Additional Information

## Acronym Glossary

| Acronym | Meaning |
| --- | --- |
| ASRC | Automated Surgical Risk Calculator |
| ASRCM | Automated Surgical Risk Calculator for Mortality |
| JDK | Java Development Kit |
| VistA | Veterans Health Information Systems and Technology Architecture |

## Contact Information

The following developers may be contacted to assist with installation:

* David Tombs, Java Developer, 321.608.0919, [David@libertyITS.com](mailto:David@libertyITS.com)
* Jeff Swesky, VistA Developer, 904.207.8560, [Jeff.Swesky@hp.com](mailto:Jeff.Swesky@hp.com)