

Chart Review



Installation Guide

Version 2.0

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Department of Veterans Affairs (VA)

VINCI

Revision History

Table 1. Documentation revision history

Date	Revision	Description	Author
11/4/2014	1.0	<ul style="list-style-type: none">Initial version	<ul style="list-style-type: none">Brad Adams
1/25/2016	2.0	<ul style="list-style-type: none">Updated version	<ul style="list-style-type: none">Brad Adams



REF: This is an initial version of the installation manual

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Overview

How to Use this Guide

The *Chart Review Installation Guide* is designed to provide the Chart Review system administrator, with a typical step-by-step Windows deployment example. Similar tools and strategies can be used for a Linux deployment as well.



NOTE: This document is available in Microsoft Word (.doc).

Intended Audience

This manual is intended to assist a system administrator deploy Chart Review to a Windows server or similar server environment.

Disclaimers

This manual provides an overall explanation of Chart Review 2.0 deployment; however, no attempt is made to explain how the reader may access the VINCI environment or procure and view data within that environment. We suggest contacting VINCI management directly from the VA network at vaww.vinci.med.va.gov.





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Documentation Conventions

This manual uses several methods to highlight different aspects of the material:

- Various symbols are used throughout the documentation to alert the reader to special information. [Table](#) gives a description of each of these symbols:

Table 1. Documentation symbol descriptions

Symbol	Description
	NOTE/REF: Used to inform the reader of general information including references to additional reading material.
	CAUTION/RECOMMENDATION/DISCLAIMER: Used to caution the reader to take special notice of critical information.

Assumptions

This manual is written with the assumption that the reader is familiar with the following:

- SQL – there will be some references to SQL code in setting up the Chart Review and project databases.

References / Online Demo

Readers who wish to learn more about Chart Review should consult the following documents:

- *Chart Review Release Notes* (TBD)
- *Chart Review Installation Guide* (this guide; Word format)
- *Chart Review Technical Manual* (TBD)
- *Chart Review User Manual* (Word, PDF and HTML format – click help on the Chart Review Home page)
- *Chart Review Developer's Guide* (TBD)



ONLINE DEMO: A demo of Chart Review and its online help is available on the VA intranet at: <http://vhacdwwweb03:8080/chart-review/> Using a Fire Fox (ver > 30) browser, open Chart Review and, after logging in as admin/admin (project administrator features) or demo/demo (annotator features), access the help link at the top of the page.

1 System Prerequisites

1.1 Target Platforms

Chart Review can be deployed on the at least the following platforms:

- Windows
- Linux
- Mac OS

1.2 Required Tools

The following is a list of tools used in the deployment of Chart Review (see below for details):

- Java 7
- JDBC Accessible Database (i.e. MySQL Community Server 5.6)
- Web Container Service (i.e. Tomcat 7 service installer)

2 Install Java

Install Java 7 on the target platform.

Table 2: Setup Java

Item/Action	Description/Result
1) Run Java 7 Runtime	1. Can use all defaults.

3 Setup/Access Databases

ChartReview uses two databases (see User Manual, Introduction, System Architecture Must-Knows), one that is ChartReview specific (user, project info) and the project database (EHR data, clinical element configurations, schemas, process tasks, and annotations). These databases can be anything that is JDBC accessible. As examples in this document, we use MySQL for the ChartReview database, and SQLServer for the project database.

3.1 Chart Review Database Setup

Create a Chart Review specific database on the server machine (not a project database) to hold user, and project information.

Table 3: Chart Review Database Setup



Item/Action	Description/Result
1) Install MySQL Community 5.6	<ol style="list-style-type: none"> 1. Typical installation. 2. Can use all defaults.
2) Run MySQL Server Instance Configuration	<ol style="list-style-type: none"> 1. Server Machine. 2. Multifunctional Database. 3. Default Path. 4. Decision Support (DSS)/OLAP. 5. Enable TCP/IP Networking (Port Number: 3306). 6. Enable Strict Mode. 7. Standard Character Set. 8. Install as Windows Service (Service Name: MySQL). 9. Launch the MySQL Server automatically. 10. Root password “passw0rd”. 11. Enable root access from remote machines.
3) Create Database	<p><i>In MySQL:</i></p> <pre>create database chartreview;</pre>
4) Grant all Permissions to Root	<p><i>In MySQL:</i></p> <pre>grant all on chartreview.* to 'root'@'localhost' identified by 'passw0rd';</pre>

5) Install MySQL JDBC Sql Server Connector	<ol style="list-style-type: none"> 1. Put Sqljdbc_auth.dll in the Windows/System32 directory. 2. Put sqljdbc4.jar in the tomcat/lib directory.
6) Grant all Permissions to chartreview user	<p><i>In MySQL:</i></p> <pre>grant all on chartreview.* to 'chartreview'@'localhost' identified by 'password';</pre>

3.2 Project Database Access and Permissions

It is assumed that a project database already exists (i.e. other deployment environments may be similar to the VINCI environment where a SQLServer project database is created for each project by the VINCI data managers, having permissions specific to the users listed on an IRB). Get access to the project database and provide table creation permissions for the user all users that will create ChartReview projects in that database.

Table 4: Project Database Access and Permissions

Item/Action	Description/Result
1) Get Access to ChartReview database.	<p> The chartreview database will be accessed with the following Tomcat context information by default, unless a custom chart-review.xml context definition is provided (see Setup Web Container step 4 – defined the chart-review.xml context - for details about chart-review.xml context deployment):</p> <pre><Context> <Resource name="jdbc/chartReviewDS" auth="Container" type = "javax.sql.DataSource" username="chartreview" password="password" driverClassName="com.mysql.jdbc.Driver" url="jdbc:mysql://localhost:3306/chartreview validationQuery="select 1" maxActive="25" maxIdle="3"/> </Context></pre>
2) Get Permissions to add tables to the	<p> When ChartReview server initially boots up, it creates tables in the project database to hold the</p>

database.	annotation workflow process tasks, annotations, etc. The user who creates the project within ChartReview will need to have permissions in the project database to create tables.
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4 Web Container

VINCI services provides several application installations that allow researchers and research projects of different kinds to use the Chart Review tool against their project databases. Please contact vinci services at vinciservices@va.gov for help in getting access to the Chart Review application.

Glossary

TBD

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