VCS Foundation

VCS Console

Installation, Configuration and Invocation Guide

For software version: 4.0.9-1

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1 Preface

IMPORTANT!

The VCS Console Installation, Configuration and Invocation Guide is an internal document, not to be shared with customers.

1.1 Purpose of This Document

This document provides the guidelines on how to install the VCS Console and its environment setup.

This includes:

Application installation, start up and shut down procedures.

Applying and modifying application properties through the application configuration file.

This document explains how to install, configure and operate the VCS Console.

1.2 Using This Document

Section 2 provides an introduction to the functionality of the VCS Console.

The process for installing the VCS Console, including any prerequisites, is explained in section 3, while the method for uninstalling is detailed in section 5.

Section 8 contains information relating to the configuration of the VCS Console and the start-up and shut down procedures are explained in section 9.

For detailed configuration information, refer to the appendices.

1.3 Applicability

This document is intended for Cisco engineers and customer support personnel who are involved with the installation, configuration and on-going engineering support for VCS Console.

It is expected that the reader has a good understanding of the target operating system for the installation of VCS Console.

1.4 References

Table 1 lists documents and other reference sources containing information that may be essential to understanding topics in this document.

List any relevant documents in the public domain, such as DVB specs and so on. Include external release notes if they are available.

Table 1 References

No.	Designation	Title
1.	SSR-USR-911	Java ICI
2.	SSR-USR-912	Tomcat ICI
3.	EDCS-1316776-2	VCS Console design spec
4.		MySql installation and Configuration guide
5.	EDCS-1543571	Service Directory Installation and API Guide

2 Introduction to VCS Console

VCS Console is a based on the pluggable architecture, where multiple modules can be integrated and deployed together. VCS Console provides unified look & feel and login, consistent behavior and integrated workflows.

3 Installing VCS Console

This section describes how to install VCS Console and included modules on the target machine.

3.1 VCS Console Prerequisites

This section details the prerequisite requirements for the installation of VCS Console.

3.1.1 Java and Tomcat

Table 2 VCS Console Prerequisites Software

Component	Platform	Description
Sun Java 1.7.0_05	RHEL 6.4	The Java Runtime Environment (J2RE) provides the Java Virtual Machine and other components required to run applications written in the Java programming language. **Use 64bit only**
Apache Tomcat 7.0.42	RHEL 6.4	Apache Tomcat is the official Reference Implementation for the Java Servlet and JavaServer Pages technologies.
Oracle Enterprise Edition 11.2.0.2.0	RHEL 6.4	Oracle EE DB is used by applications for data storage.
MySQL 5.6.27-2	RHEL 6.4	MySQL DB is used by applications for data storage.**(Use either Oracle or MySQL)**
Service Directory 1.1.0-11	RHEL6.4	For cloud deployment or in general for Console as service This is a must.
Blin 6.0.0.2	RHEL6.4	Dependent rpm for creating folders
Ndsps 3.1.0-1	RHEL6.4	Dependent rpm for creating users

Java and Tomcat installation files, and the Java and Tomcat Installation, Configuration and Invocation Guide (document SSR-USR-911) are all available from the Third Party Software Download area on Black Widow.

For MySql and Service Directory installation please refer the section 5 and 6.

Apart from these the rpms required are mentioned in the below link

http://wikicentral.cisco.com/display/VCBURD/Developer+Notes+-+Setting+up+Foundation+Core+nodes#DeveloperNotes-SettingupFoundationCorenodes-FoundationCore1.5.01

The order of rpm's installation for VCSConsole is

- CSCOlabcerts(Not for production)
- Service Directory
- VCSConsole

> **Note**
>
> **CATALINA_HOME** needs to be set appropriately for VCS Console to work properly.
>
> If on installing **JAVA 64** bit rpm the folder name shows up as java64 then change the **java_vcsconsole** to point to /usr/java64/jdk1.7.0_05

3.1.2 Flash Player

The VCSConsole supports modules development in both flash and html/XWT.

The VCS Console requires a Flash application when any application developed on Flex is added as a plugin. Use Flash Player 11.1.102.55 plug-in. Install the application from the following locations, based on user profile.

Cisco Employee: download the Flash Player from BlackWidow

(http://BlackWidow) and ensure that the "Customer License" pack which is generated from the Cisco Costing Model is passed to the customer.

Customer: download directly from Adobe (http://adobe.com), and accept the license terms as part of the installation.

Note:

On accessing the application for the first time, you will be prompted to install the Flash Player, if it is not already installed.

If the correct version is unable to be found, please contact administrator who will advise on a suitable version.

3.1.3 Browser Pre-Requisites

- **Firefox** : Version 34
- **FF ESR** : ESR Version 31
- **Internet Explorer** : Version 9, 10 and 11
- **Chrome** : Version 39
- **Safari** : Version 7

Recommended resolution to run VCS Console is **1024*768** or higher.

> **Note:** Pop-up blocker should be disabled for non IE browsers. Otherwise VCS Console launch will not be possible

3.2 Installation File Structure

Following is the directory structure of VCS Console:

```
|____opt
| |____vcs -> /opt/web/installed/vcsconfig-x.y.z-n
| |____web
| | |____vcsconsole -> /opt/web/installed/vcsconsole-x.y.z-n
| | |____installed
| | | |____vcscoreservice-x.y.z-n
| | | |____vcsconfig-x.y.z-n
| | | | |____conf
| | | | | |____config.properties
| | | | |____bin
| | | |____wmbservice-x.y.z-n
| | | |____vcsconsole-x.y.z-n
| | | | |____conf
| | | | |____webapps
| | | | | |____offerui -> /opt/nds/offerui/webapp/
| | | | | |____scheduleui -> /opt/nds/scheduleui/webapp/
| | | | | |____monitorui -> /opt/nds/monitorui/webapp/
| | | | | |____wmbservice -> /opt/web/installed/wmbservice-x.y.z-n/webapps/wmbservice
| | | | | |____vcscoreservice -> /opt/web/installed/vcscoreservice-x.y.z-n/webapps/vcscoreservice
| | | | | |____ECMS_UI.war -> /opt/web/installed/ECMSMgrUI-x.y.z/webapps/ECMSMgrUI-x.y.z.war
| | | | | |____nTEDProvUI.war -> /opt/web/installed/ProvisioningMgrUI-x.y.z/webapps/ProvisioningMgrUI-x.y.z.war
| | |____wmb-x.y.z-n
| | | |____undeploy
| | | |____error
| | | |____deploy
| | | |____commonnavigregistry
| | | |____success
| |____data
| | |____vcsschemacreator -> /opt/data/installed/vcsschemacreator-x.y.z-n
| | |____vcsdatahandler -> /opt/data/installed/vcsdatahandler-x.y.z-n
| | |____installed
| | | |____vcsschemacreator-x.y.z-n
| | | | |____conf
| | | | |____sql
| | | | |____scripts
| | | | |____logs
| | | | |____lib
| | | |____vcsdatahandler-x.y.z-n
| | | | |____conf
| | | | |____scripts
| | | | |____logs
| | | | |____lib
| | | | |____data
| |____nds
| | |____vcsconsole -> /opt/web/vcsconsole
| | |____offerui -> /opt/nds/installed/offerui-x.y.z-n
| | |____scheduleui -> /opt/nds/installed/scheduleui-x.y.z-n
| | |____monitorui -> /opt/nds/installed/monitorui-x.y.z-n
| | |____installed
| | | |____bin_env-x.y.z-n
| | | |____ndsps-x.y.z-n
| | | |____logviewer-x.y.z-n
| | | |____monitorplus-x.y.z-n
| | | |____scheduleui-x.y.z-n
| | | |____monitorui-x.y.z-n
| | | |____offerui-x.y.z-n
| | |____rpms
```

Figure 1 Dynamic Packaging Directory Structure

For Linux the root installation structure of the application is as mentioned below

The VCS Console contains the local/personal files at:

/opt/web/vcsconsole/conf

- server.xml
- catalina.properties
- logging.properties
- web.xml

The VCS Console contains the init script config file **nds_vcsconsole.cfg** at:

/opt/web/vcsconsole/docs/sample

The VCS Console init scripts are installed in:

/opt/web/vcsconsole/utils

The exploded structure of VCS Console war would be available at:

/opt/web/vcsconsole/webapps

The VCS Console setenv.sh script is installed in:

/opt/web/vcsconsole/bin

3.3 Installing VCS Console

This is the standard procedure for installing VCS Console packaged for the following operating systems:

3.3.1 Linux RHEL 6.4

Use the Red Hat Package Manager (RPM) to install the VCS Console on the linux platform.

3.3.1.1 Installing the VCS Console

Follow the below steps to install VCS Console

1. Copy the application RPM to /opt/nds/rpms/ OR any folder of your choice
2. Install the downloaded RPM by entering the following statement in the command line:

```
rpm -ivh vcsconsole-4.0.9-1_noarch_noarch.rpm
```

> **Notes**
>
> 1. The versions mentioned in the rpm examples will change based on the actual release version
> 2. User should login as root user to install rpm.

3. To check that the RPM has installed successfully, enter the following statement in the command line:

```
rpm -qa | grep vcsconsole
```

This returns a list of the VCS Console RPMs that are installed on the machine. The RPM you have just installed should be present in this list.

> **Note** It is not mandatory to login as root user to query the installed rpm. Any user can run this query.

4. One new file has to be added in /opt/cisco/vcs/ namely- security.properties. Copy the below content and create the file and place it in the location.

```
SSLType=TwoWayAuthentication
TrustStoreFile=/opt/cisco/vcs/certs/genericTruststore.jks
TrustStorePasswd=lab@dmin
KeyStoreFile=/opt/cisco/vcs/certs/genericKeystore.jks
KeyStorePasswd=lab@dmin
BasicAuthentication=true
BasicUsername=restful
BasicPasswd=conductor
VerifyHostname=false
IgnoreHttpsHost=true
ProtocolVersion=TLSv1
```

The genericTruststore.jks and genericKeystore.jks are Self-Signed keystore included to handle SSL authentication.

> **Note**
>
> **For testing environment**
>
> CSCOlabcerts rpm can be installed (from Blackwidow) which will place genericTruststore.jks and genericKeystore.jks in /opt/cisco/vcs/certs folder and default password would be lab@dmin.
>
> **For Production**
>
> The operator must replace trust and keystore file with the keystore and truststore provided by the Legal Department and must be generated with the same name(genericTruststore.jks and genericKeystore.jks)

5. Run the script **vcsutils** which is under /opt/vcs/bin.

ORACLE

Before following the below steps create a user with a password for ORACLE

eg:

create user <username> identified by <password>;

grant connect,resource,dba to <username>;

The script has 4 different operations to perform

1. To update the **config.properties** with DB data and the DB(oracle) used

./vcsutils.sh -updateProperties -dbhost <DBHOST> -dbport <DBPORT> -dbsid <SID> -dbuser <DB USER> -dbpassword <DB Password> -dbtype oracle

2.To create schema i.e. when vcsconsole is installed the very first time

./vcsutils.sh -*createSchema*

3. To update the schema i.e. when vcsconsole is already installed but the schema alone has undergone change

./vcsutils.sh -updateSchema

4. To populate the DB with default data use

./vcsutils.sh -populateDB

MySQL

For MySQL DB setup go through MYSQL ICI guide available on Blackwidow

1. The **config.properties** file update command is as below

vcsutils.sh -updateProperties -dbhost $vmIp -dbport 3306 -dbsid mysql dbuser xmpdba -dbpassword xmpdba -dbtype mysql

2.To create schema i.e. when vcsconsole is installed the very first time

./vcsutils.sh -*createSchema*

3. To update the schema i.e. when vcsconsole is already installed but the schema alone has undergone change

./vcsutils.sh –updateSchema

4. To populate the DB with default data use

./vcsutils.sh -populateDB

3.4 Upgrade Instructions

The Upgrade is made simpler with the new Tomcat deployment proposal wherein the new one can be added as a new instance alongside the existing version and tested before old one is taken disconnected.

3.4.1.1 Upgrading VCSConsole

1. Follow the below steps to Upgrade VCS Console.

> **Note** Before proceeding further, stop VCS Console by following steps mentioned under section 7

1. Identify the component version previously installed that is targeted to be un-installed from the system.
2. Verify the corresponding RPM component versions previously installed; enter the following statement in the command line:

```
#rpm -qa | grep vcsconsole
```

3. This returns a list of the nds RPMs that are installed on the machine. Identify the RPM filename that you wish to uninstall.
4. Uninstall that RPM by entering the following statement in the command line:

```
#rpm --nodeps -e <rpm-name>
```

5. To check that the RPM has successfully uninstalled, enter the following statement in the command line:

```
rpm -qa | grep nds
```

6. The uninstalled version should not be listed in the output.
7. Navigate to /opt/web/installed/ folder and delete the directory with the name vcsconsole-<version>.
8. Navigate to /opt/web/ folder and delete the existing soft link with the name vcsconsole.
9. Install the latest release of VCSConsole as explained earlier. This should create back the active link pointing to the latest release.
10. Start the VCSconsole service and launch the UI

3.4.1.2 Upgrading VCSConsole without uninstalling existing release

> **Note** These instructions assume that the engineer wants to retain the previous installation of VCSConsole and proceed with the new release.

1. Follow the below steps to Upgrade VCS Console without uninstalling the existing release.

> **Note** Before proceeding further, stop VCS Console by following steps mentioned under section 7.

2. Navigate to /opt/web/ folder and delete the existing soft link with the name vcsconsole.

   Install the latest release of VCSConsole as explained earlier. This should create back the active link pointing to the latest release.

3. Start the VCSConsole service and launch the UI

> **IMPORTANT!**
>
> Please refer to the document DLVRY-RFX-505 (New Tomcat Webapps Deployment Proposal)

3.5 Platform Hardening

Platform hardening improves the security of operating systems running Cisco software by stopping services that are not necessary for successful operation.

Three profiles of hardening are defined at Cisco:

- **Hardening Profile A:** (Cisco default) most secure, this profile provides the minimum level of OS services needed to run most Cisco products.
- **Hardening Profile B:** less secure, this profile includes all services in Profile A, plus other services required to run products that will not run with Profile A hardening.
- **Hardening Profile C:** least secure, this profile includes Profile B, plus web-based infrastructure services.

VCS Console is designed to run under Hardening Profile A.

Hardening information (*DLVRY-USR-1001-CSNS: Platform Hardening User Guide*) for all platforms can be found on BlackWidow. For further information, refer to your Cisco customer representative.

4 Setup XMP User Management Database

4.1 Non CAB Oracle EE Installation & Configuration - Post Installation

> **IMPORTANT!**
>
> Ignore this section for CAB Oracle EE installation.

1. Untar the dbinstall.tar file that has come included in software package to the following location /opt/web/vcsconsole/dbinstall
2. Change directory to /opt/web/vcsconsole/dbinstall using command

```
cd /opt/web/vcsconsole/dbinstall
```

3. Locate Install.sh file and run the file using command

```
./Install.sh
```

4. The script will start installation of Oracle instance
5. Please provide the input as and when the script asks
6. Please provide the password for user sysdba on request (recommended sysdba as password)
7. Please provide the password for xmpdba user on request (recommended xmpdba as password)
8. Set environment variable ORACLE_HOME and ORACLE_SID in Oracle user profile

```
export ORACLE_HOME=/common/oracle/base/product/11.2.0/dbhome_1/
export ORACLE_SID=WCS
PATH=$ORACLE_HOME/bin:$PATH; export PATH
```

9. Once environment variables are set, switch user to oracle
10. Execute the following command:

```
./sqlplus / as sysdba
```

11. Once you are logged in, execute the following command on sql prompt to start the oracle instance:

```
startup;
```

12. Once started, execute the following command to unlock the user xmpdba created while installing oracle:

```
Alter user xmpdba identified by xmpdba account unlock;
```

13. Exit the prompt by executing the following command:

```
exit;
```

14. Switch back to root user and set the environment variables for root as well by executing the following commands:

```
export ORACLE_HOME=/common/oracle/base/product/11.2.0/dbhome_1/
export ORACLE_SID=WCS
PATH=$ORACLE_HOME/bin:$PATH; export PATH
```

15. Once done, execute the following command to start the listener:

```
./lsnrctl start WCSTNS
```

16. This will start the oracle db to listen for connections.

4.2 XMP Schema creation

After creating user and schema run below scripts to setup the DB for user management.

1. Execute below shell script to update the config.properties with the DB connection url, port, user credentials and the kind of DB (**oracle/mysql**) used.

```
sh /opt/vcs/bin/vcsutils.sh -updateProperties -dbhost <DBHOST> -dbport
<DBPORT> -dbsid <SID> -dbuser <DB USER> -dbpassword <DB Password> -
dbtype <oracle/mysql>
```

2. Execute below shell script to create tables, indexes and constraints required by XMP UM component.

```
sh /opt/vcs/bin/vcsutils.sh -createSchema
```

3. Execute below shell script to populate the contents of DB.

```
sh /opt/vcs/bin/vcsutils.sh - populateDB
```

5 Configuring MYSQL for VCSConsole

Please refer to the MySQL ICI guide available along with other VCSConsole release documentation.

6 Installing Service Directory for VCSConsole

Please refer to the Service Directory Installation and API Guide available at blackwidow.

> **IMPORTANT!**
>
> Service Directory should be installed before installing VCSConsole.

7 Uninstalling VCS Console

This section details the standard procedure for uninstalling the VCS Console for the following operating systems:

- Linux, via the Red Hat Package Manager (RPM)

Note It is recommended to only ever uninstall the component version up to one version before the current installed version and up to two before the new. This is to aid in contingency processes should you need to revert back to a previously installed version.

7.1 Linux

Use the Red Hat Package Manager (RPM) to uninstall Catalog Import on the Linux platform.

Note The Linux uninstall process only removes files and folders from the system that have been installed using the RPM. Manually created folders remain. Files created during live operations also remain on the system.

If files or folders exist that are not removed during the RPM uninstall process, the higher level folders to which they belong also remain if they were created by the RPM during installation.

Files and folders not removed by the uninstall process need to be removed manually from the system.

It is common for the contents of certain folders created by an RPM installation to be modified when an application runs. When the RPM is uninstalled, these modified folders may or may not be deleted, depending on how the folder was modified. This could mean that, for example, run folders (including active config files) are not deleted.

7.1.1 Uninstalling the VCS Console

2. Follow the below steps to uninstall VCS Console.

Note Before proceeding further, stop VCS Console by following steps mentioned under section 7.

1. Identify the component version previously installed that is targeted to be uninstalled from the system.
2. Verify the corresponding RPM component versions previously installed; enter the following statement in the command line:

```
#rpm -qa | grep vcsconsole
```

This returns a list of the nds RPMs that are installed on the machine. Identify the RPM filename that you wish to uninstall.

3. Uninstall that RPM by entering the following statement in the command line:

```
#rpm -e <rpm-name>
```

The RPM name has the following structure:

```
vcsconsole-<version>_noarch.noarch
```

4. To check that the RPM has successfully uninstalled, enter the following statement in the command line:

```
rpm -qa | grep vcsconsole
```

The uninstalled version should not be listed in the output.

5. Navigate to /opt/web/installed/ folder and delete the directory with the name *vcsconsole*-<version>, *wmbservice*-<version>, *vcscoreservice*-<version>, *vcsconfig*-<version>.
6. Navigate to /opt/data/installed/ folder and delete the directory with the name *vcsschemacreator*-<version>, *vcsdatahandler*-<version>
7. Navigate to /opt/web/ folder and delete the existing soft link with the name *vcsconsole*.

> **Note** Steps 5 and 6 must be mandatorily followed to delete all data relevant to the old installation and enable fresh creation of folders and links during latest installation.

In case user does not want to uninstall the previous installation and proceed with the new installation then the user need to check that the link “vcsconsole” in /opt/web/ folder is pointing to the right version of VCS Console installation, and then proceed with the module installations.

8 VCS Console Configuration

This section describes the post-installation configuration required for VCS Console.

> **IMPORTANT!**
>
> For post-installation configuration changes please refer to the document DLVRYRFX-505 (New Tomcat Webapps Deployment Proposal)

8.1 System Configuration

> **Note** Before proceeding forward, please ensure that your linux system is properly configured to run rmi service and Service Directory:
>
> There first entry in /etc/hosts file should be:
>
> <ip-address> <machine-name>
>
> <ip-address-of-SD> vcsdirsvc
>
> The <machine-name> above and the HOSTNAME (configured in /etc/sysconfig/network file) should be same.
>
> **Note** User should be logged in as root to copy these files.

Please see more details on content of this file in see "**Error! Reference source not found.**," page 23.

9 VCS Console Start Up/Shut Down

9.1 Linux

Below is the startup and shut down instruction of vcsconsole.

9.1.1 Start Up

Once configuration is done, enter following command at the terminal to start user management server:

```
#service nds_vcsconsole start
            OR
#service vcsconsole start
```

Note To launch VCS Console, tomcat server shall start without any error. There may be error, if any of the dependencies & configurations is not set/defined correctly i.e. Dependent DB instance is not running, RMI Services is not up & running.

9.1.2 Shut Down

Enter following command at the terminal to stop VCS Console:

```
#service nds_vcsconsole stop
            OR
#service vcsconsole stop
```

9.2 Manual Invocation

9.2.1 Start Up

Navigate to */opt/web/installed/vcsconsole-<version>/utils* and invoke the init script by entering the following command at the terminal:

```
#./nds_vcsconsole start
```

9.2.2 Shut Down

To stop the Catalog Import, navigate to */opt/web/installed/vcsconsole-<version>/utils* and invoke the init script by entering the following command at the terminal:

```
#./nds_vcsconsole stop
```

10 Using VCS Console

Start VCSConsole, refer to section 7 for more information on how to start VCS Console.

> **Note** To launch VCS Console, tomcat server shall start without any error. There may be error, if any of the dependencies & configurations is not set/defined correctly i.e. Dependent DB instance is not running, RMI Services is not up & running.

VCS Console can be invoked by typing in the following URL, in the web browser:
<Address or hostname>:6605/vcsconsole

```
IMPORTANT!
The <port> must be between 6600 to 6609, as configured in
server.xml file. Here we consider the port number to be 6605.
```

The login page is displayed, from where you can log into the application using the Administrator username and password.

> **Note** The username and password defined during UMS installation would be required to login and access the modules in VCS Console.

10.1.1 Help Files

Once you are successful in login into VCS Console, you can get access to help files anytime by selecting the '**Help->Help Topics**' option at the top right side to main screen.

10.1.2 Module Versions

Once you are successful in login into VCS Console, you can get access to versions of VCS Console & integrated module by selecting the '**Help->About VCS Console**' option at the top right side to main screen.

11 Disable SSL Authentication

VCSConsole by default supports SSL authentication, below steps to be followed to disable it.

1. Comment following SSL HTTP connector in /opt/web/vcsconsole/conf/server.xml tomcat configuration file.

```
<Connector port="6605"
protocol="org.apache.coyote.http11.Http11Protocol"
maxThreads="150" scheme="https" secure="true"
clientAuth="false" sslProtocol="TLSv1.2,TLSv1.1,TLSv1"
keystoreFile="/opt/cisco/vcs/certs/genericKeystore.jks"
keystorePass="lab@dmin"
   truststoreFile="/opt/cisco/vcs/certs/genericTruststore.jks"
truststorePass="lab@dmin" maxSavePostSize="2097152"/>
```

   To

```
<!--Connector port="6605"
protocol="org.apache.coyote.http11.Http11Protocol"
maxThreads="150" scheme="https" secure="true"
clientAuth="false" sslProtocol="TLSv1.2,TLSv1.1,TLSv1"
keystoreFile="/opt/cisco/vcs/certs/genericKeystore.jks"
keystorePass="lab@dmin"
   truststoreFile="/opt/cisco/vcs/certs/genericTruststore.jks"
truststorePass="lab@dmin" maxSavePostSize="2097152"/-->
```

2. Uncomment following HTTP connector in /opt/web/vcsconsole/conf/server.xml tomcat configuration file.

```
<!--Connector port="6605" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" /-->
```

3. To

```
<Connector port="6605" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
```

4. Comment following security tags in /opt/web/vcsconsole/webapps/vcsconsole/WEB-INF/web.xml VCSConsole web app configuration file.

```
<security-constraint>
      <web-resource-collection>
          <web-resource-name>NDS Console</web-resource-name>
          <url-pattern>/messagebroker/*</url-pattern>
          <web-resource-name>NDS Console</web-resource-name>
          <url-pattern>/request/*</url-pattern>
      </web-resource-collection>
      <user-data-constraint>
```

```
            <transport-guarantee>CONFIDENTIAL</transport-guarantee>
        </user-data-constraint>
    </security-constraint>

    <login-config>
        <auth-method>CLIENT-CERT</auth-method>
        <realm-name>NDS Console</realm-name>
    </login-config>
```

5. To

```
<!-- security-constraint>
        <web-resource-collection>
            <web-resource-name>NDS Console</web-resource-name>
            <url-pattern>/messagebroker/*</url-pattern>
            <web-resource-name>NDS Console</web-resource-name>
            <url-pattern>/request/*</url-pattern>
        </web-resource-collection>
        <user-data-constraint>
            <transport-guarantee>CONFIDENTIAL</transport-guarantee>
        </user-data-constraint>
    </security-constraint>

    <login-config>
        <auth-method>CLIENT-CERT</auth-method>
        <realm-name>NDS Console</realm-name>
    </login-config -->
```

6. Launch VCSConsole, invoke by typing in the following URL, in the web browser:

Error! Hyperlink reference not valid. <Address or hostname>:6605/vcsconsole

11.1 Module Specific Change

Modules which require bypassing of SSL authentication are required to update their configuration files as stated below

7. 1. Update /opt/nds/installed/<moduleName> /webapp/WEB-INF/flex/proxy-config.xml configuration file as

```
    <default-channels>
        <channel ref="my-secure-amf"/>
    </default-channels>
```

To

```
    <default-channels>
        <channel ref="my-amf"/>
        <channel ref="my-secure-amf"/>
```

```
    </default-channels>
```

8. Update opt/nds/installed/<moduleName> /webapp/WEB-INF/ flex/remoting-config.xml configuration file as

```
    <default-channels>
        <channel ref="my-secure-amf"/>
    </default-channels>
```

To

```
   <default-channels>
        <channel ref="my-amf"/>
       <channel ref="my-secure-amf"/>
    </default-channels>
```

Appendix A Appendices

These appendices contain the following information.

Appendix A describes the acronyms and technical terminology used in this document.

Appendix B Glossary

The following table covers the acronyms and technical terminology used in this document.

Term	Definition
J2RE	Java 2 Runtime Environment

Appendix C VCS Console Configuration Reference

Table 3 VCS Console config.properties - parameter descriptions

Parameter	Default Value	Value Type	Mandatory?	Description	Customer
connectionPoolSize	50	Integer	Yes	This setting controls the size of the DB connection pool.	Generic
testOnBorrow	true	Boolean	Yes	The indication of whether objects will be validated before being borrowed from the pool.	Generic
validationQuery	select 1 from dual	String	Yes	The SQL query that will be used to validate connections from pool before returning them to the caller. This query MUST be an SQL SELECT statement.	Generic
password		String	Yes	The password file location.	Generic
driverClassName	oracle.jdbc.driver.OracleDriver	String	Yes	The fully qualified Java class name of the JDBC driver to be used.	Generic
url	jdbc:oracle:thin:@//<host>:1521/CABHE	String	Yes	The connection URL to be passed to JDBC driver to establish a connection.	Generic
username		String	Yes	The connection username to be passed to JDBC driver to establish a connection.	Generic
dbport	1521	String	Yes	DB port	Generic
dbhost		String	Yes	DB host name/IP	Generic
dbtype		String	Yes	The DB used should be specified.VCSConsole supports oracle or mysql.	Generic

Change History

Revision 18.00

Revision date: 03 Feb 2016

Location	Change
	Updated the document Added proper versions to all the software's used

Revision 17.00

Revision date: 6 Jan 2016

Location	Change
	Updated the document Added keystore updates

Revision 16.00

Revision date: 21 Sept 2015

Location	Change
	Updated the document

Revision 15.00

Revision date: 24 July 2015

Location	Change
	Updated the document

Revision 14.00

Revision date: 7 July 2015

Location	Change
	Updated the document

Revision 13.00

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Location	Change
	Updated the document

Revision 12.00

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Location	Change
	Updated the document

Revision 11.00

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Revision 10.00

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Location	Change
	Updated the document

Revision 9.00

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Location	Change
	Updated the document

Revision 8.00

Revision date: 19 Aug 2014

Location	Change
	Change in sections 3.3.1.1 and 4.3.1.1

Revision 7.00

Revision date: 19 Aug 2014

Location	Change
	Updated Appendix C, added new variable data. Change in sections 3.3.1.1 and 4.3.1.1

Revision 6.00

Revision date: 17 Jun 2014

Location	Change
	Updated the document

Revision 5.00

Revision date: 5 Jun 2014

Location	Change
3.3 & 4.3	Included CAB DB setup for VCSConsole.

Revision 4.00

Revision date: 15 May 2014

Location	Change
	Final version

Revision 3.00

Revision date: 14 March 2014

Location	Change
	Initial draft, included EDCS doc number.