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| Virginia information technologies agency and VirginiA Tech |
| VLDS Data Adapter Deployment Instructions |
| State Council on Higher Education in Virginia |
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| **12/6/2012** |

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| This document contains instructions for participating agencies to install the VLDS Data Adapter in their environment. |

# Exposure Database Preparation for Data Adapter Deployment

Prior to deploying the Data Adapter, the Exposure Database Administrator should do the following steps. The scripts will be provided to you.

## SCHEV

# 1. To create the DataAdapter role, run the file "MSSQLDataAdapterRoleTablesSCHEV.sql"

# 2. To create required indexes, run the file "IndexesSCHEV.sql"

## VEC

# 1. To create the DataAdapter role, run the file "MSSQLDataAdapterRoleTablesVEC.sql"

# 2. To create required indexes, run the file "IndexesVEC.sql"

# Windows Deployment Instructions

## Initial Installation Instructions

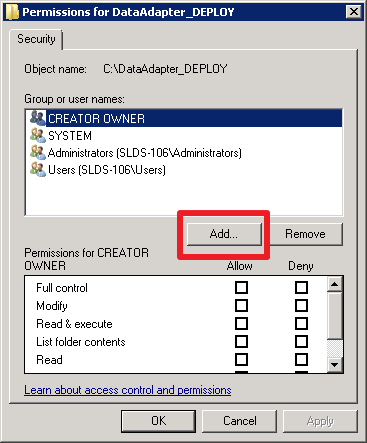
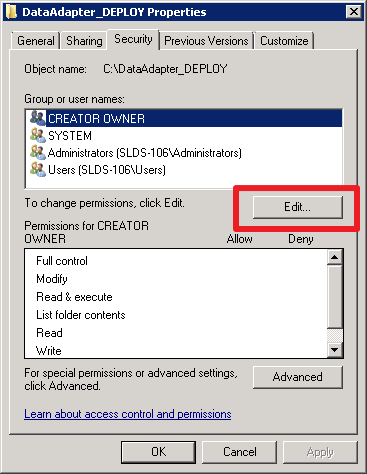
1. Verify the server has Java JRE 6 update 29 or higher installed.

Note: Java 7.x is not supported at this time.

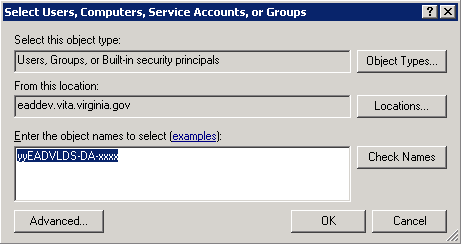
1. Move DataAdapter\_DEPLOY contents to desired installation folder

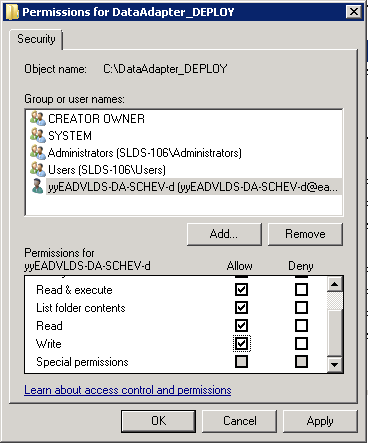
i.e. “C:\DataAdapter”.

1. If necessary – Modify the start.bat file to match your environment:
   1. Ports for the desired environment – See Data Adapter Port Settings
   2. Log Directory path. i.e. “C:\Data Adapter\Log Directory”.
2. Assign Data Adapter service account Read, Write, and Modify permissions to the log file directory. “C:\Data Adapter\Log Directory”.



1. Enter the Service account

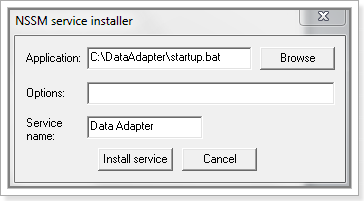




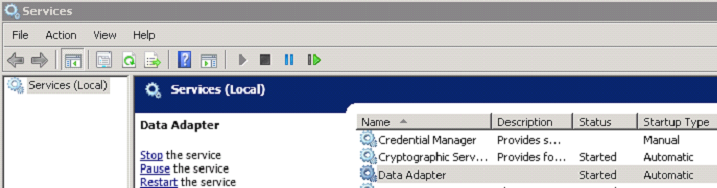
1. At some point in the near future, the Windows Data Adapter will be wrapped in a Windows Service. However, you will need to temporarily wrap this program in a third party service manager program until this function is embedded. We have tested NSSM (<http://nssm.cc/>) and the below steps can be followed for this third party product:
   1. Download the NSSM program to the desired installation folder (i.e. “C:\DataAdapter”);
   2. Navigate to this directory and type: nssm install <servicename>  , and press Enter

(i.e., : ‘nssm install “Data Adapter”’);

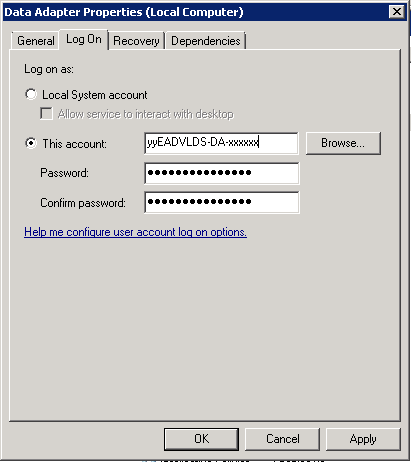
* 1. Enter application path and desired Service Name.



1. Verify the Service has been created.



1. Right Click on the Services, and under “Properties\Log On”, change the service to use the required service account



1. To access the web application, open a browser and explore to: <https://localhost:nonstandardport/VLDS>.
2. Configure the Data Adapter settings in accordance with the Data Adapter Configuration, included at the end of this document.

## Version Upgrade Instructions:

1. Stop the DataAdapter Windows service.
2. Delete the data adapter directory contents (i.e. “C:\DataAdapter”).
3. Copy the new files to the data adapter directory (i.e. “C:\DataAdapter”).
4. (If necessary) Modify to the start.bat with the correct ports - Data Adapter Port Settings.
5. Start the DataAdapter Windows service.
6. Verify the web application has started <https://[ServerName]:[nonstandardport]/VLDS>.
7. Configure the Data Adapter settings in accordance with the Data Adapter Configuration included at the end of this document.

# Data Adapter Port Settings

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|  | Production Environment: |
|  | SCHEV - 8090 8443 |
|  | VEC - 9090 9443 |
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**SCHEV-Prod:**

REM This Windows batch file can be used to start the DataAdapter on a Windows Machine.

REM

REM NOTE:

REM 1. Change the first 3 properties (logfile and ports) for your environment.

REM 2. The logfile property should be left without an extension. It will get an extension of ".log" applied automatically.

set LIBDIR=WEB-INF\lib

set CLASSPATH=%LIBDIR%\\*;

java -Dedu.vt.ipg.dataadapter.logfile="C:\Data Adapter\DataAdapterLogs\SCHEVDataAdapter" -Dedu.vt.ipg.dataadapter.website.portnum=8090 -Dedu.vt.ipg.dataadapter.webservices.portnum=8443 -Dedu.vt.ipg.dataadapter.runfrom=cmdline -Dedu.vt.ipg.dataadapter.clientcert=false -cp WEB-INF\lib\\*;WEB-INF\classes edu.vt.ipg.dataadapter.App

**VEC-Prod:**

REM This Windows batch file can be used to start the DataAdapter on a Windows Machine.

REM

REM NOTE:

REM 1. Change the first 3 properties (logfile and ports) for your environment.

REM 2. The logfile property should be left without an extension. It will get an extension of ".log" applied automatically.

set LIBDIR=WEB-INF\lib

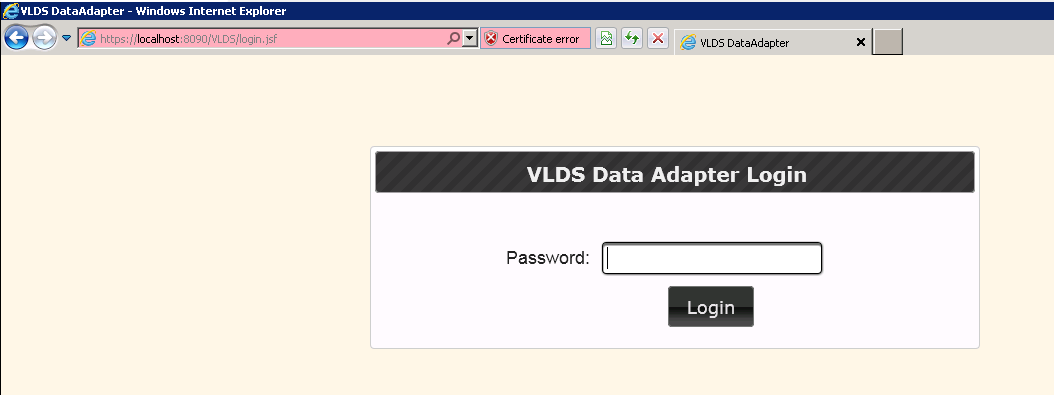
set CLASSPATH=%LIBDIR%\\*;

java -Dedu.vt.ipg.dataadapter.logfile="C:\Data Adapter\DataAdapterLogs\VECDataAdapter" -Dedu.vt.ipg.dataadapter.website.portnum=9090 -Dedu.vt.ipg.dataadapter.webservices.portnum=9443 -Dedu.vt.ipg.dataadapter.runfrom=cmdline -Dedu.vt.ipg.dataadapter.clientcert=false -cp WEB-INF\lib\\*;WEB-INF\classes edu.vt.ipg.dataadapter.App

# Data Adapter Configuration

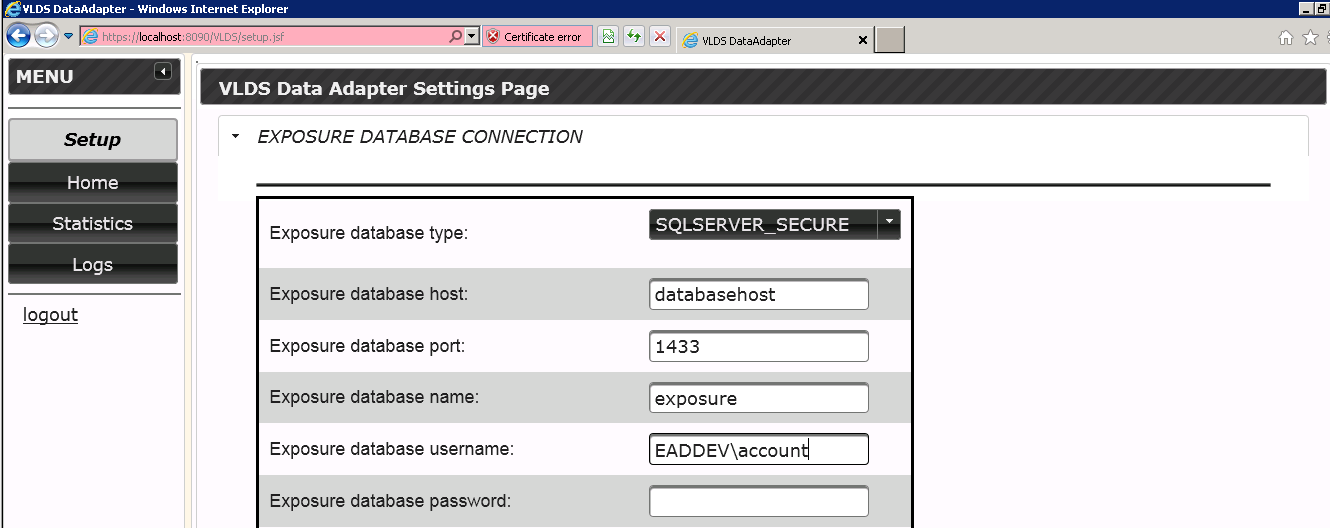
## Connecting the Data Adapter to the Exposure Database

1. Open a browser and navigate to: https://localhost:portnum/VLDS/



Note: Password is sent to the agency via separate correspondence

1. Once logged in, go to the Setup page.



1. Change the Database Type, Host, Port, Name, Username, Password and Schema to match the settings required by the Exposure Database . Click on the “Setup” button to apply, test and save.

**SCHEV**

Exposure database type: SQLSERVER

Exposure database host: WSQ00748.cov.virginia.gov

Exposure database port: 50000

Exposure database name: Z\_UR\_Expose

Exposure database username: \*\*\*\*\*\*\*\*

Exposure database password: \*\*\*\*\*\*\*\*

Exposure database schema: dbo,dataadapter

**VEC**

Exposure database type: SQLSERVER

Exposure database host: WSQ00748.cov.virginia.gov

Exposure database port: 50000

Exposure database name: Z\_UR\_Expose\_VEC

Exposure database username: \*\*\*\*\*\*\*\*

Exposure database password: \*\*\*\*\*\*\*\*

Exposure database schema: dbo,dataadapter