



# DAD Setup Guide

For Users of Banner by Ellucian  
and the TouchNet Certified DataCenter

August 2012

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# Contents

<b>1.0 Database Access Descriptor (DAD) Setup for TouchNet Certified DataCenter Users</b> .....	<b>1</b>
1.1 Installation Requirements.....	1
<b>2.0 Configuring DAD Access</b> .....	<b>3</b>
2.1 Configuring the TouchNet DAD.....	3
2.2 Configuring the Virtual Host.....	6
2.3 Testing Your DAD Access.....	9
2.4 Completing Your DAD Setup.....	10



# 1.0 Database Access Descriptor (DAD) Setup for TouchNet Certified DataCenter Users

This guide is for the administrator whose TouchNet Solution includes the Banner Connect module and is hosted in the TouchNet Certified DataCenter.

In this guide, we assume that the reader has prior knowledge of software operations, host systems, web technologies and concepts, database management, and the database software used. This guide does not explain how to use operating systems on which your software may work, or specifics of any host system.

Your institution may require setup procedures beyond those described here. Check with your TouchNet implementation specialist for specific instructions.

## 1.1 Installation Requirements

Before starting DAD setup, you must install the TouchNet Commerce Interface on your Banner system. The TouchNet Commerce Interface consists of packages of stored procedures.

During setup of the TouchNet Banner Connect host integration module, load only the packages needed for your TouchNet Commerce solutions. Instructions for installing the TouchNet Commerce Interface are available in the TouchNet Host Integration Guide for Banner by Ellucian Users in the TouchNet DataCenter.



## 2.0 Configuring DAD Access

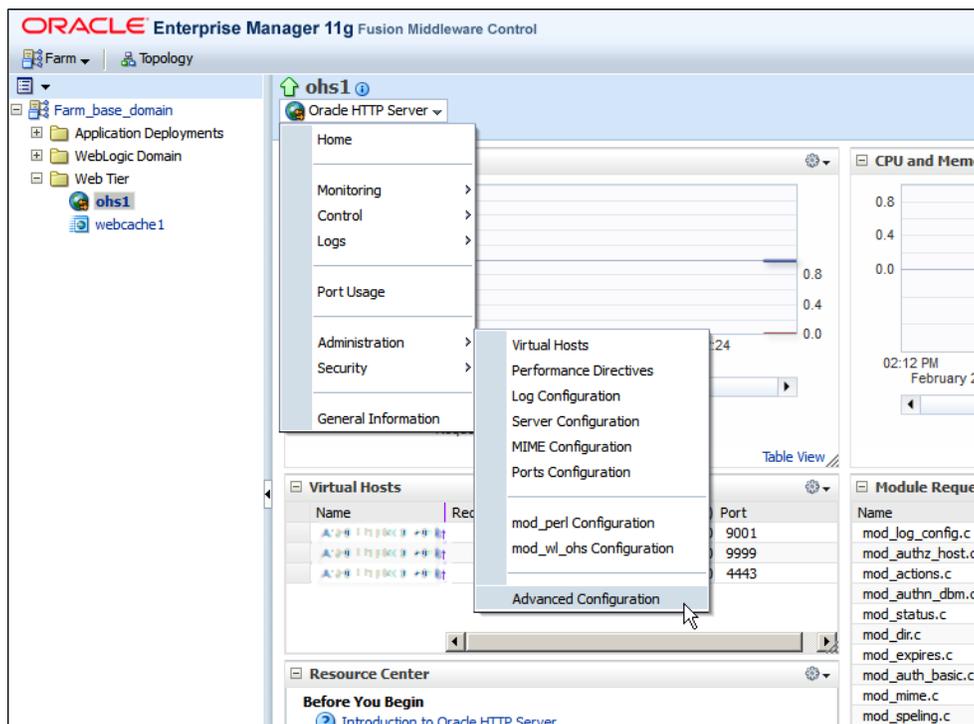
Complete the steps in this chapter to configure Fusion Middleware 11g and Oracle Web Tier for the TouchNet Database Access Descriptor (DAD).

**Note:** In this document, \$ORACLE\_HOME refers to the installation directory of the Fusion Web Tier. \$ORACLE\_INSTANCE refers to the installation directory of the Fusion Web Tier instance you have configured.

### 2.1 Configuring the TouchNet DAD

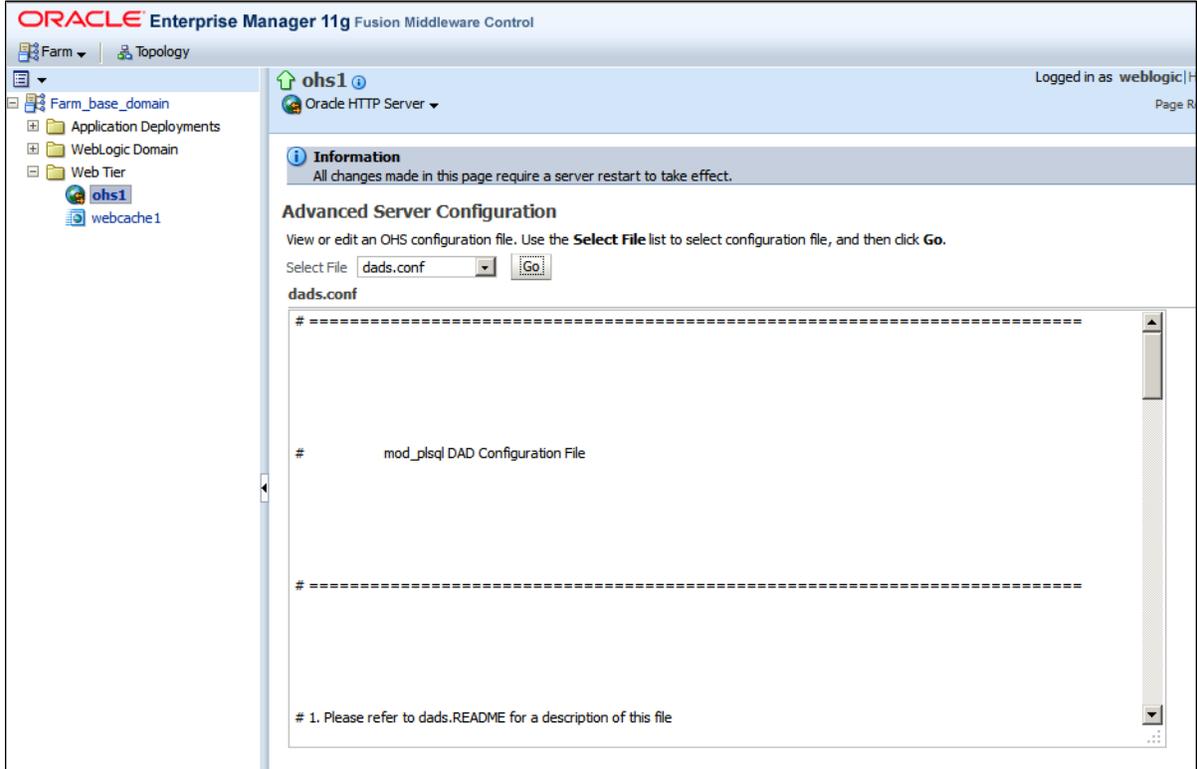
Complete these steps to add the TouchNet Database Access Descriptor (DAD) in Oracle Web Tier.

- 1 In a web browser, navigate to this URL:  
`http://<weblogic-server>:7001/em`
- 2 Log in as `weblogic/<password>`.
- 3 In the left-hand navigation, expand the Web Tier folder and click **ohs1**.
- 4 In the main panel, open the Oracle HTTP Server menu and select Administration > Advanced Configuration. The Advanced Server Configuration panel opens.



*Navigating in Web Tier to Advanced Configuration*

- 5 In the Select File drop-down list, select **dads.conf**. Click Go.



*DAD configuration on the Oracle HTTP Server*

- 6 Add the new DAD entry shown below.
- a In the PlsqlDatabasePassword line, replace <plain-text-password> with your password value.
  - b In the PlsqlDatabaseConnectionString line, replace the <oracle-server> and <SID> placeholders with your values.

```
<Location /pls/TNCOMMERCE >
  SetHandler pls_handler
  Order deny,allow
  Deny from all
  Allow from 198.187.196
  Allow from 127.0.0.1
  PlsqlDatabaseUsername TOUCHNET
  PlsqlDatabasePassword <plain-text-password>
  PlsqlDatabaseConnectionString <oracle-server>:1521:<SID> SIDFormat
  PlsqlAuthenticationMode Basic
  PlsqlSessionStateManagement StatelessWithFastResetPackageState
  PlsqlAlwaysDescribeProcedure Off
  PlsqlErrorStyle ModPlsqlStyle
  PlsqlNLSLanguage AMERICAN_AMERICA.AL32UTF8
</Location >
```

- 7 Click Apply. Changes will not take effect until the Oracle HTTP Server (OHS) is restarted in a later step.

**Note:** The Order, Deny and Allow directives are in place to disallow unauthorized access to this DAD.

**Note:** The Allow list will allow only the TouchNet DataCenter and localhost to access the DAD. When you test from a different computer, you must add a new “Allow from <ip>” line, where <ip> is the IP address of the computer you are testing from.

### *Obfuscating the DAD Password*

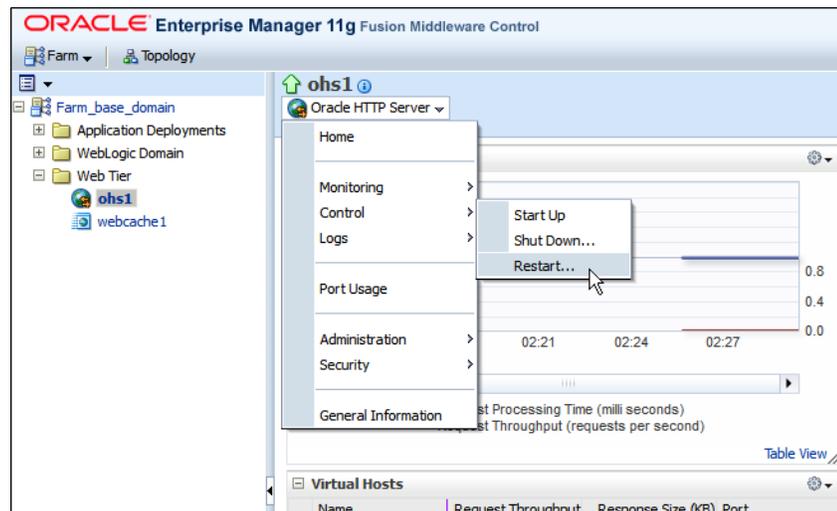
To obfuscate the DAD password in the *dads.conf* file, complete these steps.

- 1 Open a command prompt and enter these two commands:

```
> cd $ORACLE_HOME/bin
> perl dadTool.pl -f $ORACLE_
    INSTANCE/config/OHS/ohs1/mod_plsql/dads.conf
```

- 2 Restart the OHS. To do this:

- a From the Oracle HTTP Server menu, select Control > Restart...
- b Click Restart.

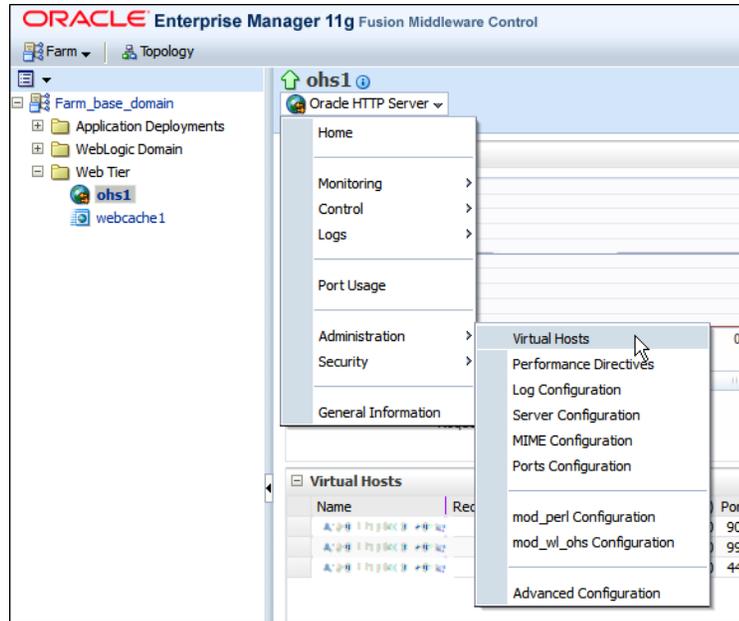


*Restarting the OHS*

## 2.2 Configuring the Virtual Host

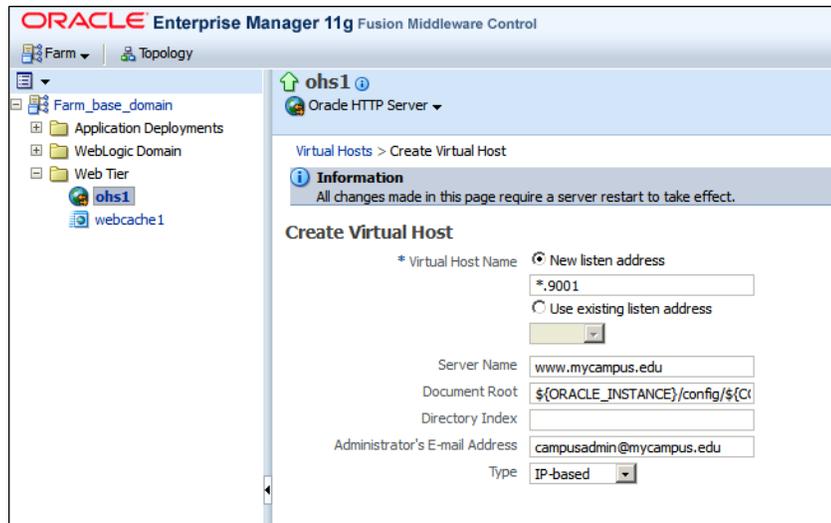
In Oracle Web Tier, complete these steps to configure the virtual host.

- 1 In the Oracle HTTP Server menu, select Administration > Virtual Hosts.



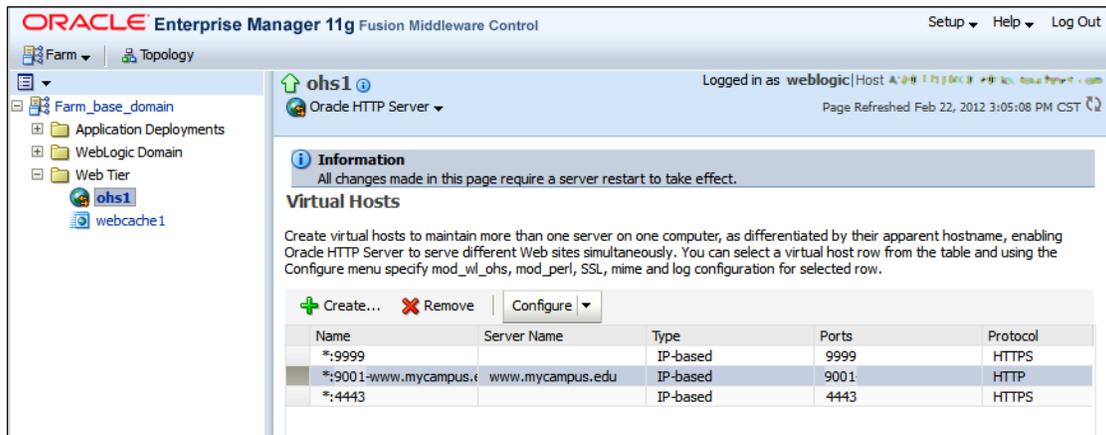
*Navigating to Virtual Hosts configuration*

- 2 Click the Create... button. The Create Virtual Host page opens.



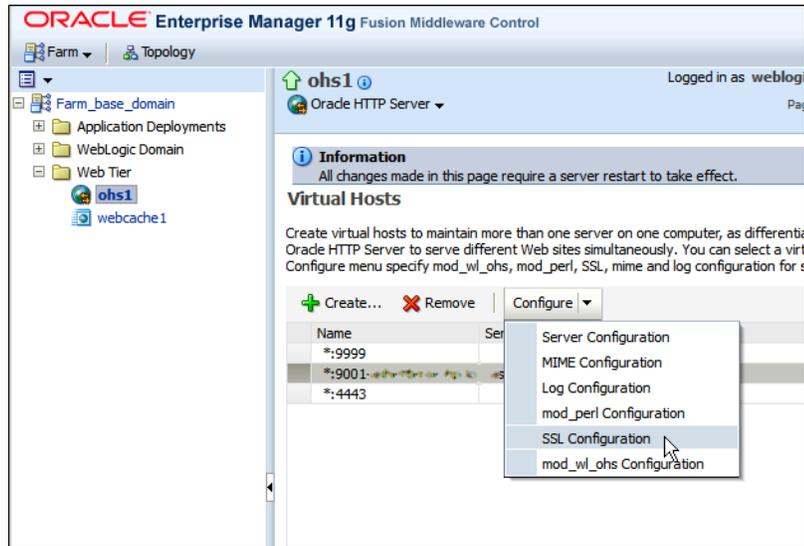
*Example values for a new virtual host*

- 3 In the Create Virtual Host panel, set values as follows. (Our examples and text will show port 9001.)
  - a Select the **New listen address** option.
  - b For the Virtual Host Name field, select a port number that is not currently in use on the server. This port number must be greater than 1024. Enter the name in the format:  
\*:<port number>
  - c In the Server name field, enter the name of the server for which you are creating the virtual host. Example:  
www.school.edu
  - d In the Document Root setting, enter the following string, including all double quote marks. (The line shown here includes a line break because of formatting limitations; you will enter this as a single string.)  
"\${ORACLE\_INSTANCE}/config/\${COMPONENT\_TYPE}/\${COMPONENT\_NAME}/htdocs"
  - e Leave the Directory Index field blank.
  - f In the Administrator's E-mail Address field, enter the administrative e-mail address for the virtual host.
  - g From the Type drop-down list, select **IP-based**.
- 4 Click OK. The Virtual Hosts panel displays.
- 5 In the list of virtual hosts, click to highlight the virtual host you created.



*Selecting your virtual host*

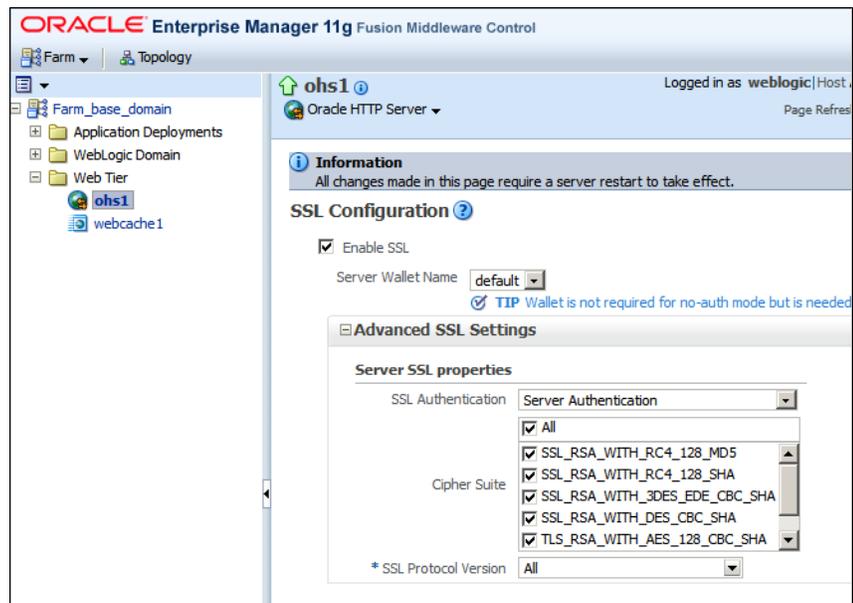
- 6 From the Configure drop-down list, select **SSL Configuration**.



Selecting SSL Configuration

- 7 Mark the **Enable SSL** checkbox.
- 8 In the Server Wallet Name drop-down list, select your wallet name. This can be the same wallet you have selected for other virtual hosts, such as the one created for sun Self-Service.

**Important!** Here, **default** is shown as the Wallet Name. Note that you cannot use the pre-packaged wallet created during your installation of the Oracle Fusion Web Tier 11g. You must use a Wallet that is signed by a Certificate Authority (CA).



Selecting the wallet name

- 9 Click OK.

**10** Restart the Oracle HTTP Server. To do this:

- a** From the Oracle HTTP Server menu, select Control > Restart...
- b** Click Restart.

You now have a new listening port using SSL to allow the TouchNet DataCenter to access the /pls/TNCOMMERCE DAD.

## 2.3 Testing Your DAD Access

To test your DAD configuration, open a browser and go to this URL, replacing <bracketed> values with the values configured with your virtual host.

```
https://<server>:<port>/pls/TNCOMMERCE/touchnet_
commerce.tran_alive_check_web
```

If the test is successful, you will see a blank page.

If the browser displays a message stating it cannot connect to the server and port, run a netstat command to see if the port is listening.

Windows users, enter this command at a command prompt:

```
> netstat -an | findstr 9001
```

Solaris users, enter this command at a command prompt:

```
> netstat -an | grep 9001
```

If the test is successful, you will see a line similar to this:

```
TCP 0.0.0.0:9001 0.0.0.0:0 LISTENING
```

## 2.4 Completing Your DAD Setup

To complete your DAD setup, you will configure your firewall and contact TouchNet.

### *Configuring Your Firewall*

Please configure your firewall for the port you selected for the virtual host to allow access from the TouchNet DataCenter. Allow: 198.187.196.0/24. Everything else should be denied access.

### *Contacting TouchNet*

Please notify TouchNet Customer Care of the IP address of the OHS and the port selected for your virtual host. TouchNet must configure our firewalls to allow outbound traffic from the TouchNet DataCenter to your server.