FAQ 1-BTZNOZ Banner 8 Steps for installing and configuring Oracle
WebLogic and Oracle Form Fusion

This note provides steps for installing and configuring Oracle WebLogic
and Oracle Form Fusion for a Banner 8 environment for Internet Native
Banner (INB) and Self Service Banner (SSB).

If you are setting up an SSB-only server, please see:
FAQ 1-Z7JOUC Steps for installing and configuring FMW 11g Oracle WebLogic
and Oracle Web Tier for an SSB-only Web Server

In this note the installation is performed on a Red Hat Linux v5 64-bit
server called wlserver.sct.com.
This note is applicable to Unix also.
For a Windows installation, see FAQ 1-CGMRKB

The oracle owner's $HOME is /aux/oracle
This is also the $ORACLE_BASE directory.
Before the installation verify $ORACLE_HOME is unset.
During the installation the MIDDLEWARE_HOME (/aux/oracle/middleware)
and ORACLE_HOME (/aux/oracle/middleware/as_1) will be set and configured.

These documents may also be reviewed:

+ FAQ 1-HV8ODJ Oracle Doc ID 854117.1 How to Install Fusion Middleware
11.1.1.1 / 11.1.1.2 Forms and Reports Only

+ Oracle® Fusion Middleware Installation Guide for Oracle Portal, Forms,
Reports and Discoverer
   11g Release 1 (11.1.1)
http://download.oracle.com/docs/cd/E15523_01/install.1111/e10421/install.
htm

+ FAQ 1-D7P7QX Banner 8 Oracle Reports 11g Configuration

+ FAQ 1-D3LWXP Oracle Doc ID 1083666.1 Location Of Different Reports
Configuration Files in Fusion
   Middleware Forms and Reports 11.1.1.1 and 11.1.1.2 Installations

==
Oracle Installation
==

===============================
JDK Install
===============================

For Red Hat Linux 64-bit you must install the Sun JDK 6 64-bit.
At the time of this writing the lastest version was 1.6.0_20.
The jdk-6u20-linux-x64-rpm.bin can be downloaded from
       http://java.sun.com/javase/downloads/widget/jdk6.jsp

JDK 1.6.0_20 can be installed by executing the jdk-6u20-linux-x64-rpm.bin
file.
The following directory will be created after successful installation of
the file.
        /usr/java/jdk1.6.0_20/bin

Add the following directory to the users' PATH by editing the
/etc/bash_profile.
Verify the correct version of java is installed.
      su - oracle
      which java
            /usr/java/jdk1.6.0_20/bin/java
      java -version
            java version "1.6.0_20"
            Java(TM) SE Runtime Environment (build 1.6.0_20-b02)
            Java HotSpot(TM) 64-Bit Server VM (build 16.3-b01, mixed
mode)

===============================
Oracle Fusion Download
===============================

At the time of this writing the latest version is 11.1.1.4.
Oracle may update the versions.

1. Download Oracle Portal, Forms, Reports, and Discoverer 11g Release 1

   For example, if you are downloading from http://edelivery.oracle.com
   for Linux x86-64 OS:

   Select Product Oracle Fusion Middleware
   Select "Oracle Fusion Middleware 11g Media Pack for Linux x86-64"
   version 11.1.1.4.0 (11.1.1.5 is the latest version as of this writing,
   but 11.1.1.5 does not include Forms)
      Oracle WebLogic Server 11gR1 (10.3.4) Generic and Coherence
            V24338-01.zip
      Oracle Portal, Forms, Reports and Discoverer 11g (11.1.1.2.0) for
   Linux x86-64
            V18772-01_1of4.zip
            V18772-01_2of4.zip
            V18772-01_3of4.zip
            V18772-01_4of4.zip
      Oracle Portal, Forms, Reports and Discoverer 11g Patch Set 3
   (11.1.1.4.0) for Linux x86-64
            V24456-01.zip

   or if OS is Solaris on Sparc:

   Select Product Oracle Fusion Middleware
   Select "Oracle Fusion Middleware 11g Media Pack for Oracle Solaris on
   SPARC (64" version 11.1.1.5.0
            Oracle WebLogic Server 11gR1 (10.3.4) Generic and Coherence
                V24338-01.zip

Oracle Portal, Forms, Reports and Discoverer 11g (11.1.1.2.0)
        for Sun Solaris SPARC (64-bit)
                        V18773-01_1of5.zip
                        V18773-01_2of4.zip
                        V18773-01_3of5.zip
                        V18773-01_4of5.zip
                        V18773-01_5of5.zip
                Oracle Portal, Forms, Reports and Discoverer 11g Patch Set 3
        (11.1.1.4.0) for Sun Solaris SPARC (64-bit)
                        V24457-01.zip

2. The 11.1.1.4 patch set can also be downloaded as Patch 11060983 from
   My Oracle Support.
   Download 11g Release 1 (11.1.1.4.0) Patch

NOTE: If you are installing WebLogic 10.3.3, please see FAQ 1-CGMRE7 –
Oracle Doc ID 1099203.1 FMW 11g Install and Configure Fails When Creating
Domain – oracle.as.provisioning.exception.ASProvWorkflowException

===============================
Install WebLogic
===============================

Install WebLogic from a VNC X-Windows client. Unzip the file and execute
        java -d64 -jar wls1034_generic.jar

Welcome Screen
        Hit Next
Choose Middleware Home Directory
        Create a new Middleware Home – /aux/oracle/middleware
        Hit Next
Register for Security Updates
        Hit Next to bypass (this is not a mandatory step)
Choose Install Type
        Select Typical

        [NOTE: A "Typical" install will install Oracle Coherence in
          WebLogic 10.3.3 and above. Coherence requires separate
          licensing. Check your license agreement for products licensed.
          If you are unsure of your products licensed and you license
          WebLogic from SunGardHE, contact your SunGardHE Account Manager.
          If you do not want Oracle Coherence to be installed with WebLogic
          10.3.3 or above, select the "Custom" install option and then
          uncheck Coherence.]
        If you choose CUSTOM you will need these components:
            - Core Application Server
            - Administration Console
            - Configuration Wizard and Upgrade Framework
            - WebLogic SCA
            - WebLogic JDBC Drivers
            - Third Party JDBC Drivers
            - WebLogic Server Clients

```
                - WebLogic Web Serve Plugins


        Hit Next
JDK Selection
        Select the 1.6.0_20 version
        Hit Next
Choose Product Installation Directories
        WebLogic Server - /aux/oracle/middleware/wlserver_10.3
        Hit Next
Installation Summary
        Hit Next
Installation Complete
        Uncheck Run Quickstart
        Hit Next

***Important: If you do *not* uncheck "Run Quickstart", WebLogic and
Forms Reports will not install successfully
because a WebLogic default domain will be installed ****

==============================
Install Forms Reports
==============================

1. Install 11.1.1.2 Forms and Reports

   From a VNC or X-Windows client, unzip the files and execute
      cd Disk1
      ./runInstaller

   Specify Inventory Directory screen (this may not come up)
      Directory: /aux/oracle/oraInventory
      Group name: dba
      (If prompted, run the createCentralInventory.sh as directed.)
   Welcome Screen
      Hit Next
   Select Installation Type
      Select Install Software - Do Not Configure
      Hit Next
   Prerequisite Checks
      Hit Next when all checks are green
            If you receive an error like
                  Checking for openmotif-2.2.3; not found; failed
            Install the missing rpm
                  yum install openmotif*
   Specify Installation Location
      Oracle Middleware Home Location - /aux/oracle/middleware
      Oracle Home directory - as_1
   Specify Security Updates
      Hit Next
   Installation Summary
      Hit Install
   Installation Progress
      When 100% complete, Hit Next


                              4
```

```
    Run oracleRoot.sh when prompted
    Installation Complete
       Hit Finish


2. Install 11.1.1.4 Forms and Reports

   From a VNC or X-Windows client, unzip the files and execute
      cd Disk1
      ./runInstaller

   Welcome Screen
      Hit Next
   Specify Installation Location
      Oracle Middleware Home Location - /aux/oracle/middleware
      Oracle Home directory - as_1
   Specify Security Updates
      Hit Next
   Installation Summary
      Hit Install
   Installation Progress
      When 100% complete, Hit Next
   Run oracleRoot.sh when prompted
   Installation Complete
      Hit Finish


3. Configure Forms and Reports

   From a VNC or X-Windows client
      cd $ORACLE_HOME/bin
      ./config.sh

   Welcome Screen
      Hit Next
   Select Domain
      Select Create Domain
            User Name: weblogic
            Password: manager1
            Confirm: manager1
            Domain Name: ClassicDomain
      Hit Next
   Specify Security Updates
      Hit Next
   Specify Installation Location
      Oracle Middleware Home Location - /aux/oracle/middleware
      Oracle Home directory - as_1
      WebLogic Server Location - /aux/oracle/middleware/wlserver_10.3
      Oracle Instance Location - /aux/oracle/middleware/asinst_1
      Oracle Instance Name - asinst_1
      Hit Next
   Configure Components
      Select these boxes
            Oracle Forms
            Oracle Reports
```

```
            Enterprise Manager
            Oracle Web Cache

            Clustered

   Note Forms Builder and Reports Builder are not supported by SungardHE
   on Linux.
   Forms Builder and Reports Builder are only supported on Windows by
   SungardHE.

   Configure Ports
      Auto Port Configuration
      Hit Next
   Specify Proxy Details
      Do Not Use Proxy Settings
      Hit Next
   Specify Application OID
      Unselect Use Application Level Identity Store
      Hit Next
   Installation Summary
      Hit Configure
   Configuration Process
      When all Progress steps are Success, Hit Next
   Installation Complete
      Hit Save to save the configuration urls to a desired location
      Hit Finish


===============================
Setup ORACLE_HOME environment
===============================


Edit /etc/oratab file and add this line
      BAN8F:/aux/oracle/middleware/as_1:N


Edit /local/bin/oraenv to include environment specific variables.
An example is attached which sets the following variables for the BAN8F
environment:
      LD_LIBRARY_PATH
      TNS_ADMIN
      TWO_TASK
      MIDDLEWARE_HOME
      ORACLE_INSTANCE (a/k/a INSTANCE_HOME)
      DOMAIN_HOME
      BANNER_HOME

export $ORACLE_BASE=/aux/oracle
export
LD_LIBRARY_PATH=$ORACLE_HOME/jdk/jre/lib/amd64/native_threads:$ORACLE_HOM
E/jdk/jre/lib/amd64/server:$ORACLE_HOME/jdk/jre/lib/amd64:$ORACLE_HOME/li
b
export TNS_ADMIN=$ORACLE_BASE/local/network/admin
export TWO_TASK=dbServer_ban8.sct.com
export MIDDLEWARE_HOME=$ORACLE_BASE/middleware
export ORACLE_INSTANCE=$MIDDLEWARE_HOME/asinst_1
```

```
export INSTANCE_HOME=$ORACLE_INSTANCE
export DOMAIN_HOME=$MW_HOME/user_projects/domains/ClassicDomain
export PATH=$PATH:$ORACLE_INSTANCE/bin
```

```
===============================
Apply Oracle Patch
===============================
```
For the Linux 64-bit platform apply patch
    LINUX-X86-64_111070_RESULT_CACHE_PATCH_P9473270.ZIP
to the WebLogic server to avoid this error with the compile of
GUQINTF.fmb:
```
      *** ASSERT at file pdw1.c, line 4061
      PSDGON missing. Can't get object number
      Source Location = XNSPC0P99_2010_05_27_08_41_16__AB[71, 7]
      *** ASSERT at file pdw1.c, line 4061
      PSDGON missing. Can't get object number
      Source Location = XNSPC0P110_2010_05_27_08_41_16__AB[50, 7]
```

See FAQ 1-PA4UAA Oracle Doc ID 1276725.1 - Compilation Error Oracle
Fusion 11g Forms: "internal error [*** ASSERT at file pdw1.c, line 4062;
PSDGON missing." For more information.

Other platforms will also have patch_p9473270 available since this is a
Generic bug.

Add this directory to Oracle's .bash_profile
```
      PATH=$PATH:$ORACLE_HOME/OPatch
```
Stop any web services which may be running
```
      opmnctl stopall
```
Stop WebLogic in case it is running
```
      . $DOMAIN_HOME/bin/setDomainEnv.sh
      $DOMAIN_HOME/bin/stopWebLogic.sh
```
Apply patch
```
      cd $ORACLE_BASE/patches/9473270
      opatch apply
```

(Although the patch instructions do not indicate any post-installation
steps, it has been found that applying the patch alone will not prevent
the PSDGON errors until the relink step is done:)

Relink the Oracle forms binaries:
```
      cd $ORACLE_HOME/forms/lib
      make -f ins_forms.mk frmcmp_install
      make -f ins_forms.mk frmbld_install
      make -f ins_forms.mk frmcmpb_install
      make -f ins_forms.mk frmweb_install
```

```
===============================
Relax Permissions
===============================
```

According to "Oracle Doc ID 834626.1 Is Changeperm.sh Script
Available/Necessary For 11.1.0.X"

changePerm.sh is not needed on 11g. However testing has shown that
changes are needed in order to compile forms
as a user in the DBA group. So to compile forms as a ban8 user instead of
oracle user, execute these
commands as the oracle user.

chmod 755 $ORACLE_INSTANCE
chmod 755 $ORACLE_INSTANCE/bin
chmod 755 $ORACLE_INSTANCE/bin/frmcmp_batch.sh
chmod 755 $ORACLE_HOME/bin/frmcmp_batch
chmod 755 $ORACLE_INSTANCE/config
chmod 644 $ORACLE_INSTANCE/config/tnsnames.ora

```
==============================
Edit tnsnames.ora file
==============================
```
The $ORACLE_INSTANCE/bin/frmcmp_batch.sh sets the TNS_ADMIN to
$ORACLE_INSTANCE/config
Edit the $ORACLE_INSTANCE/config/tnsnames.ora and add the Banner 8
database service.

```
dbServer_ban8.sct.com =
  (DESCRIPTION =
    (SDU=8192)
    (ADDRESS_LIST =
        (ADDRESS =
          (PROTOCOL = TCP)
          (HOST = dbServer.sct.com)
          (PORT = 1521)
        )
    )
    (CONNECT_DATA = (SID=SEED) (SERVER=DEDICATED)
    )
  )
```

```
===========================================================================
INB Configuration
===========================================================================
```

```
==============================
Copy files from database server
to OFM server
==============================
```

Banner keymap file

Copy the fmrpcweb.res from your Banner Database
      $BANNER_HOME/install/
to the directory
      $ORACLE_INSTANCE/config/FormsComponent/forms/admin/resource/US
and rename the file to
      fmrweb_utf8.res

```
===============================
Copy Banner jar files
===============================
Copy Needed Banner jar files from your Banner Database
      $BANNER_HOME/general/java

to the directory
      $ORACLE_HOME/forms/java

banspecial.jar
banicons.jar
bannerui.jar
banorep_10_1_2_3.jar
bannersso.jar

sbanspecial.jar
sbanicons.jar
sbannerui.jar
sbanorep_10_1_2_3.jar
sbannersso.jar




===============================
Compile Forms
===============================


The strip_source=yes option is no longer valid in Forms Fusion 11g (see
Defect 1-FV0U0D).  Subsequently you will need to modify each shell file
(bat file in Windows) in order to compile Banner forms. Example modified
scripts are attached for your convenience. The scripts are current as of
6/10/2010 but some scripts may have been changed with Banner upgrades to
include new forms.


Copy all fmb, pll, mmb files to /aux/ban8/fmb.
Verify you can connect to the Banner database
      sqlplus baninst1/password
Execute the Banner compile script (eg genform.shl).
      su - ban8
      genform.shl
Move the resulting fmx,plx, and mmx files to /aux/ban8/fmx.
Note that NLS_LANG should be unset. If NLS_LANG is set this error may be
encountered when compiling pll files:
  FRM-30312: Failed to compile the library.

===============================
Start WebLogic Server
===============================


To avoid being prompted for the weblogic password a boot.properties file
can be create in
$DOMAIN_HOME/servers/AdminServer/security
For example
      boot.properties
```

```
        username=weblogic
        password=manager1
The password in the file will be encrypted once weblogic is started.


To start WebLogic,  a script similar to the example startWebLogic
attached can be used.


To execute,
        su - oracle
        startWebLogic >>startWebLogic.log 2>&1 &


To stop WebLogic, a script similar to the example stopWebLogic attached
can be used.


==============================
Start NodeManager
==============================


To execute,
        su - oracle
        startNodeManager >>startNodeManager.log 2>&1 &


There is no script to stop NodeManager.  This command can be used to find
the PID
and then execute a Unix kill -9 command on the PID
ps -elf |grep NodeManager |grep -v grep |awk '{print $3 " " $4 " " $15}'


==============================
Start opmnctl web services
==============================
The oraenv file attached to this FAQ adds the $ORACLE_INSTANCE/bin
directory to oracle's
PATH so this command can be executed from oracle's $HOME.
        su - oracle
        opmnctl startall


==============================
Scripts to Start and Stop all Processes
==============================


To start WebLogic and NodeManager and Opmnctl, WLS_FORMS, WLS_REPORTS,
and BannerApps, the example start and stop scripts attached can be used.
(revised 6/9/11).



==============================
Forms Configuration
==============================


Using a browser,
   http://wlServer.sct.com:7001/em
Login as weblogic/manager1


Expand the Forms folder and click Forms > web Configuration
```

Click Create to create a new Section to connect to the Banner database.
      Section Name: dbServer_ban8
      Comments: Banner 8 database

In the Show drop down box, in the lower part of the page, Select All.
The parameters listed below are required for Banner to function as
designed.
Other parameters may be changed besides the ones listed below for
customers to customize as desired.
All parameters are described in
  FAQ 1-BZBPJV Oracle Doc ID 118632.1 Webforms Parameter Overview

Change these values using the Override button.
      envFile = dbServer_ban8.env
      form = guainit.fmx
      width 1040
      height 738
      separate frame = true
      colorScheme=blaf
      background = ' '
      logo = ' '
      archive=banspecial.jar,banicons.jar,bannerui.jar,banorep_10_1_2_3.j
ar,frmwebutil.jar,frmall.jar
      jpi_mimetype application/x-java-applet
            (remove the version in order to allow for different versions
of JPI to connect).

Click Apply to save Changes

Add this value using the Add button.
      workingDirectory= /aux/ban8/fmx
[Note: Adding workingDirectory here avoids the need to copy the plx files
to the $ORACLE_HOME/forms directory due to an Oracle bug (FRM-40039:
Cannot attach library goqrpls while opening form GUAINIT - Oracle base
bug 9356983), as was directed in a previous version of this FAQ. For a
description of workingDirectory, please see FAQ 1-GD9WKB - Oracle Doc ID
551511.1 - What is Difference between the Forms_path and the working
directory.]

Click Apply to save Changes

```
Click Forms > Environment Configurations > Duplicate File
     Environment File: default.env
     Name: dbServer_ban8.env

Change this value:
     FORMS_PATH=/aux/ban8/fmx
Add these values:
     TWO_TASK=dbServer_ban8.sct.com
     NLS_LANG=AMERICAN_AMERICA.AL32UTF8
     LOCAL=dbServer_ban8.sct.com [if using reports]
     FORMS_USERNAME_CASESENSITIVE=1
```

[set if using the 11g case sensitivity option for passwords. If the database has "SEC_CASE_SENSITIVE_LOGIN = TRUE" set in the init.ora then FORMS_USERNAME_CASESENSITIVE also needs to be set to 1.]

```
==============================
Forms Font Configuration
==============================
Using a browser,
  http://wlServer.sct.com:7001/em
Login as weblogic/manager1

Expand the Forms folder and click Forms
At the top of Right frame select Forms drop down -- Font and Icon Mapping
Change the value
  default.fontMap.defaultFontname = Dialog
to
  default.fontMap.defaultFontname = Arial Unicode MS
Click Apply

Now restart WLS_FORMS
On the left hand frame open -- WebLogic Domain -- ClassicDomain --
cluster_forms
At the top of Right frame select WebLogic Cluster drop down -- Control --
Shutdown
At the top of Right frame select WebLogic Cluster drop down -- Control --
Startup
```

See also **FAQ 1-B9BDB1 - How can I configure Banner 8 for defaultFontname of Verdana and Arial Unicode MS to deal with small fonts**

```
===============================
Configure Web Output URL
===============================


Logon to Banner as BASELINE.
Execute the GUAUPRF Form from the Banner Main Menu.
Click on Directory Options.
Scroll down to the field which has the Description
Web Output URL
```

Enter the following URL. The 9010 port and DAD (dbServer_ban8) will be
created in the "Configure SSB" section in this FAQ.
        http://wlserver.sct.com:9010/dbServer_ban8/

===============================
Test the INB Connection
===============================

The HTTP server port (OHS_LISTEN_PORT) can be found in the
$ORACLE_HOME/install/portlist.ini.
The HTTP server port must be used for Forms and Reports integration.
In the example below the HTTP server port is 8888.

        http://wlserver.sct.com:8888/forms/frmservlet?config=dbServer_ban8

==
SSB Configuration
==

===============================
DAD Configuration
===============================

Using a browser,
   http://wlServer.sct.com:7001/em
Login as weblogic/manager1

Expand Web Tier and click on Ohs1
From the "Oracle HTTP Server" drop down, select
Administration > Advanced Configuration > dads.conf > Go

Add these lines to configure a DAD connecting as www_user

<Location /dbServer_ban8>
    SetHandler pls_handler
    Order allow,deny
    Allow from All
    AllowOverride None
    PlsqlDatabaseUsername www_user
    PlsqlDatabasePassword u_pick_it
    PlsqlDatabaseConnectString dbServer.sct.com:1521:BAN8 SIDFormat
    PlsqlAuthenticationMode Basic
    PlsqlNLSLanguage AMERICAN_AMERICA.AL32UTF8
    PlsqlDefaultPage homepage.htm
    PlsqlBeforeProcedure twbklist.p_main
    PlsqlAlwaysDescribeProcedure Off
    PlsqlErrorStyle DebugStyle
    PlsqlFetchBufferSize 245
    PlsqlAlwaysDescribeProcedure off
    PlsqlSessionStateManagement StatelessWithFastResetPackageState
    </Location>

Click Apply

```
Click httpd.conf > Go
Add these lines to configure a port for SSB.


Listen 9010


<VirtualHost YourwlServerIPAddress:9010>
    ServerName wlServer.sct.com
    DocumentRoot "/aux/ban8/webdocs"
    DirectoryIndex homepage.htm
</VirtualHost>


Click Apply


To obfuscate the DAD password in the dads.conf file:
      su - oracle
      cd $ORACLE_HOME/bin
      perl dadTool.pl -f
$ORACLE_INSTANCE/config/OHS/ohs1/mod_plsql/dads.conf

[There is an open defect on Solaris for obfuscating the DAD password:
See FAQ 1-S57FEO Oracle Doc ID 1253885.1 Core Dump Trying to Obfuscate
DAD Passwords Using dadTool.pl in Solaris Box]


Restart the web services
      su - oracle
      opmnctl restartproc


===============================
Create DAD User
===============================


Create a DAD user on the database server:
  su - oracle
  sqlplus /nolog
  SQL> conn sys as sysdba;
  SQL>    password: <return>
  SQL> grant connect,resource to WWW_USER identified by u_pick_it;
  SQL> alter user WWW_USER default tablespace DEVELOPMENT;
  SQL> alter user WWW_USER temporary tablespace TEMP;


Edit the files  gurgrth.sql and gurgrtw.sql in $BANNER_LINKS and verify
these lines exist in
Each file:
grant execute on &&1 to SYS;
grant execute on &&1 to WWW_USER;
grant execute on &&1 to BAN_DEFAULT_WEBPRIVS;
      [or USR_DEFAULT_WEBPRIVS – see Defect 1-Q25A4F - SSB is failing
      with - FORBIDDEN YOU DON'T HAVE PERMISSION TO ACCESS - or PROCEDURE
       DOESN'T EXIST after 11g upgrade)


Run the following scripts documented in the FAQ below to grant
permissions to packages to the above users.
  FAQ 1-A8UUX How can I recompile all the Banner database procedures
(xxxdbpr.sql)
```

```
===============================
Create Webdocs directory
===============================


In a webdocs directory on your OFM 11g server (referred to above in the
httpd.conf file as "/aux/ban8/webdocs"), create all the subdirectories
listed below and copy all files listed from your database server's
$BANNER_HOME directory.

css --> All files that end with .css from $BANNER_HOME/wtlweb/htm.
css/images --> All files from $BANNER_HOME/wtlweb/htm/images.
css/jquery -->  autocomplete.css from $BANNER_HOME/wtlweb/htm/jquery.
js --> All files from $BANNER_HOME/wtlweb/js.
facgifs --> All files $BANNER_HOME/facweb/gif.
fachelp --> All files from $BANNER_HOME/facweb/htm.
stugifs --> All files from $BANNER_HOME/stuweb/gif.
stuhelp --> All files from $BANNER_HOME/stuweb/htm.
wtlgifs --> All files from $BANNER_HOME/wtlweb/gif.
wtlhelp --> All files from $BANNER_HOME/wtlweb/htm.
wtlhelp/images --> All files from $BANNER_HOME/wtlweb/htm/images.

[Note: Directory list above may not be complete.
     Please review the latest Middle Tier Guide Appendix A-5 for a section
      on creating the"Web Server Directory Setup"
     It should list the complete list of directories.
     This FAQ may also help
      FAQ CMS-4569 - What should the directory structure look like on iAS
      for Banner Self Service?]

Copy the homepage.htm from the wtlhelp subdirectory to the webdocs
directory.
Edit the homepage.htm file.
Set the PL/SQL agent virtual path in the homepage.htm file.
For example,
<meta http-equiv="refresh"
content="0;URL=http://wlserver.sct.com:9010/dbServer_ban8/twbkwbis.P_GenM
enu?name=homepage">

===============================
Test the SSB Connection
===============================

http://wlServer.sct.com:9010/dbServer_ban8/twbkwbis.P_GenMenu?name=homepa
ge
```

```
===============================
Setting SSB to Use Web Cache
===============================


[Problems have been seen when trying to use the default web cache port,
8090, for SSB, so these instructions have been changed to set up a new
web cache port for SSB]


Using a browser,
   http://wlServer.sct.com:7001/em
Login as weblogic/manager1


Expand Web Tier and click on webcache1
From the "Web Cache" drop down, select
Administration > Ports Configuration


Click on "Create"
      Port Type:  NORM
      IP Address: ANY
      Port:       8099


Click OK, then Apply.


Expand Web Tier and click on webcache1
From the "Web Cache" drop down, select
Administration > Origin Servers


Click on "Create"
Enter Host wlServer.sct.com
      Port 9010


Click OK, then Apply.


From the "Web Cache" drop down, select
Administration > Sites


Go down to "Site to Server Mapping"


Click on "Create"
Enter Host Pattern: wlServer.sct.com
      Port Pattern: 8099
      Prefix: [leave blank]


Under "All Origin Servers" select wlServer.sct.com:9010 and move it over
over to the "Selected Origin Servers" box.


Click OK and Apply.



Restart Web Cache
From the "Web Cache" drop down, select
Control > Restart
```

```
==================================
Edit the homepage.htm for Web Cache
==================================


Edit the homepage.htm file in the webdocs directory.
Change the port from 9010 to 8099.
For example,
<meta http-equiv="refresh"
content="0;URL=http://wlserver.sct.com:8099/dbServer_ban8/twbkwbis.P_GenM
enu?name=homepage">



=======================================
Test the SSB Connection with Web Cache
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http://wlServer.sct.com:8099



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See Also
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FAQ 1-C0W7P7 - Installing Banner online help - bannerOH.war with Oracle
WebLogic and Oracle Form Fusion - OFM

FAQ 1-D7P7QX Banner 8 Oracle Reports 11g Configuration

FAQ 1-XCX2ZY Oracle Doc ID 989118.1 Tuning and Load Balancing - How to
Manually Create a New WLS Forms Managed Server in 11g (11.1.1.2 and Above)
```