



## Online Work Readiness Assessment (OWRA) Deployment Installation Guide Summer 2011



### 1. SCOPE

This document describes the installation of the Online Work Readiness Assessment (OWRA) in a State, Tribe, or county hosting environment.

### 2. IDENTIFICATION

A full identification of the system to which this document applies is listed below:

- Title: Temporary Assistance to Need Families, Online Work Readiness Assessment (OWRA)
- Version Number: 3.0.0

### 3. GENERAL DESCRIPTION

The Online Work Readiness Assessment (OWRA Intake, Assessment, Self Sufficiency Plan, and Reporting Modules) are being provided to interested States, Tribes, and counties for use in their own operating (program and technical) environment. The OWRA tool is intended for use by case managers in assessing strengths and barriers to work activities, and provides general guidance on next steps, relative to strengths and barriers revealed during the questionnaire/ assessment with the customer. User accounts are administered through a separate interface but share the same database with the application. A separate Administrative interface is provided for customizing the encryption aspects of the database.

- OWRA application major components are:
  1. Online data collection;
  2. Print view of the interview;
  3. Self Sufficiency Plan (Assessment/Recommendations)
  4. Reports; and
  5. Password-protection/user management.
- OWRA Administration Interface
  1. OWRA admin interface provides capability to select or deselect encryption of customers' personally identifiable information (includes first and last name, social security number, date of birth, and full residential and mailing addresses).

### 4. OPERATING SITE

TANF-OWRA Release 3.0.0 will be installed into the State, Tribe, or county located at:

- *[Dependent upon State, Tribe, or county – may be hosted locally/centrally or outsourced]*

### 5. REFERENCED DOCUMENTS

- OWRA Technical Aspects Overview is being provided to interested entities.
- OWRA Customization Instructions is also being provided to interested entities.



## 6. INSTALLATION OVERVIEW

The product will be installed per the described approach within this section.

### 6.1 DESCRIPTION

Installation of TANF OWRA version 3.0.0 consists of a zip file for documentation (noted in the referenced documents above), owra-3.0.0.war file, owraAdmin-3.0.0.war file, and owra.sql database script file.

### 6.2 TRAINING

No specific training is required for this installation.

### 6.3 TASKS

The following tasks will be accomplished by the State, Tribe, or county staff:

- The release will be installed as described; and
- Stakeholders will be notified.

### 6.4 SITE-SPECIFIC INFORMATION

#### 6.4.1 Schedule

The schedule below is provided as a sample of steps to be followed; timelines to be determined by State, Tribe, or county staff:

- Determine how the application will be implemented; State, Tribe, or county administered; and implications for load handling;
- Determine hardware set up for application;
- Determine security requirements:
  - HIPAA implications for health and personally identifying information;
  - Customize encryption as necessary;
- Deploy application to test/stage;
- Determine and secure DNS and domain names;
- Set up users and hierarchy;
- Consider help desk support;
- Customize application (encryption, recommendations, etc.) per instructions noted in OWRA Customization Instructions;
- Test application;
- Deploy to production; and
- Inform users of URL/account information.



#### 6.4.2 Hardware Inventory

The following hardware is expected to be available on site to support the installation of OWRA:

Table 2.4.2: Hardware Inventory

Hardware	Description	Purpose
Database Server	MySQL v5.5 on a RedHat Linux server was used for pilot	To house OWRA data
Java Application Server	Sun GlassFish Enterprise Server v2.1.1 on a RedHat server was used for pilot	To run the Java Web Application

#### 6.4.3 Software Inventory

The following software is expected to be available on site to support the configuration and installation of the OWRA:

Table 2.4.3: Software Inventory

Software	Version	Purpose
Modern Browser with Javascript enabled and pop-up blocker off	<ul style="list-style-type: none"><li>• Internet Explorer 7 or higher</li><li>• Firefox 3 or higher</li><li>• Safari 3 or higher</li></ul>	Allows users to access OWRA application (as well as user account interface)
Java	v1.6 (Java 6)	Coding of the system
Database: OWRA is database agnostic, works with relational databases	MySQL v5.5 was used for pilot	To serve as data repository for OWRA data, user accounts

#### 6.4.4 Installation Procedures

It is assumed that the staff deploying the application understands how to deploy a Java Web Application to a Java application server. The exact procedure depends on the specific Java application server, but are typically straightforward for applications packaged as .war files (such as OWRA). The following steps are based on the Glassfish Java Application server and MySQL database server used in the pilot. Others will be similar. Additional guidance on Configuring JDBC Resources for GlassFish 2 is found in Appendix A, and Appendix B contains addition guidance on MySQL database creation.

This application requires the MySQL Connector driver version 5.5.14. If necessary the mysql-connector-java-5.1.14-bin.jar must be copied into the Glassfish lib directory.



The installation consists of these activities:

1. Once the database is setup, run the owra.sql and transfer all the data into the database.
2. Create a database connection Pool (via the Glassfish administration console):  
Name: owra  
Resource Type: javax.sql.ConnectionPoolDataSource  
Database Vendor: MySQL  
Initial and Minimum Pool Size: 1  
Connection Validation: required  
Connection Information:  
User: Supplied by the Database Administrator  
Password: Supplied by the Database Administrator  
ServerName: TMSMYSQLTEST1  
Port: 3306  
Database: owra  
  
Test the connection pool using the built in database ping.
3. Create a JDBC Resource  
JNDI Name: jdbc/owra  
Pool Name: Select the pool created in step 1  
Status: Enabled  
Selected Targets: stage
4. Follow the steps to customize the database to create the departments within the State and customize the recommendations (see OWRA Customization Instructions). This step must be performed prior to running the OWRA system.
5. Copy the security jar (US\_export\_policy.jar, local\_policy.jar) files to JAVAHOME/jre/lib/security folder (where JAVA-HOME is the path to the server's Java runtime installation).
6. Deploy the owraAdmin-3.0.0.war file on the application server.
7. Deploy the owra-3.0.0.war file on the same application server.

#### 6.4.5 Installation Checkout

Once the installation is complete, the software will be checked for proper operation as follows:

1. Login to owraAdmin site with owraAdmin / OWRAP@\$w0rd credentials.
2. Create a user account to login to the OWRA application after specifying the data encryption options.
3. Login to owra application with the credentials created in step 2.



## APPENDIX A:

### Configuring JDBC Resources for GlassFish 2.x

Copy the jar containing the JDBC driver into the GlassFish lib directory (directly under the location where GlassFish was installed). Make sure to do this before the following steps. For Oracle, the jar is ojdbc14.jar. For MySQL, the jar is mysql-connector-java-5.1.6-bin.jar. These can be found in the TANF-OWRA library folder.

Restart the Glassfish server and log in to the management console (<http://hostname:4848>)

There are 2 main steps.

1. Create a connection pool (will be used by the realm only)
2. Create a JDBC resource

#### Step 1: Create a connection pool

- In the pane on the left, click on JDBC under Resources. Click on Connection Pools (see Figure 1 below).

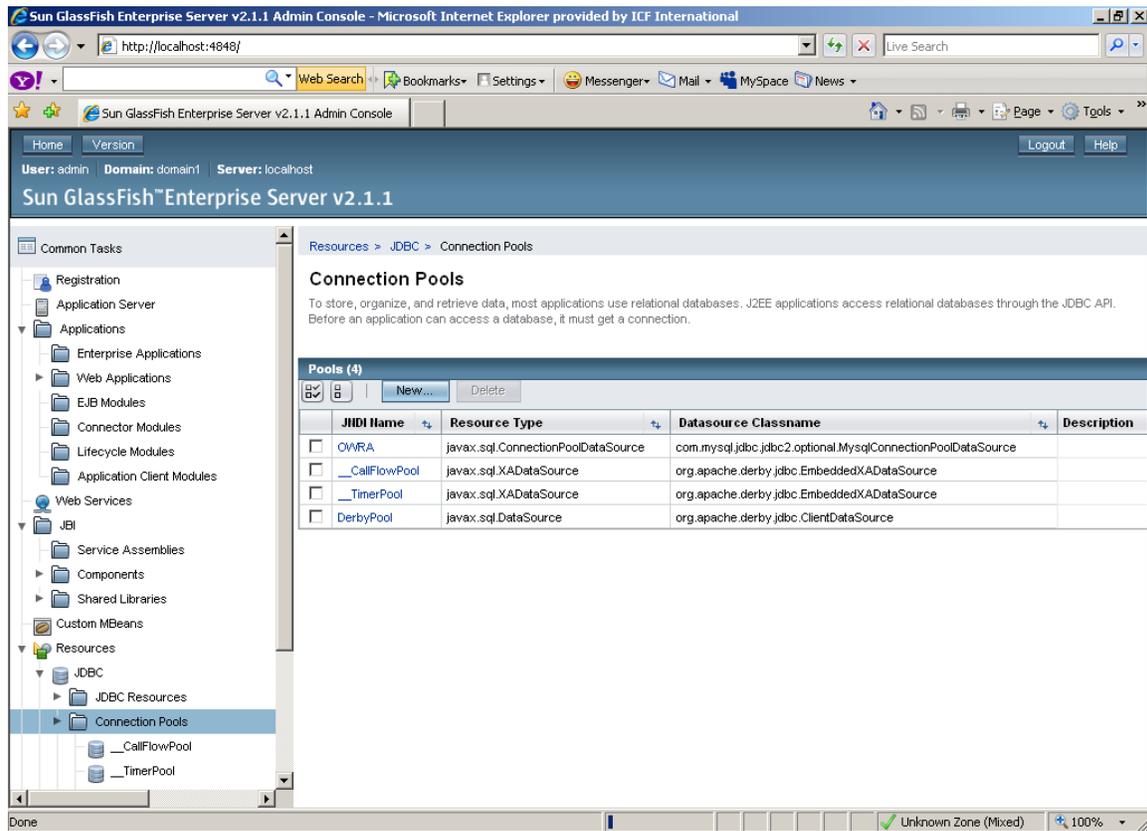


Figure 1: JDBC Connection Pool for GlassFish v2.1.1

- Click the 'New...' button
- Under General Settings, type in OwraPool for the name.
- Select javax.sql.ConnectionPoolDataSource for Resource Type.
- Select the Database Vendor (MySQL or Oracle).



- Click the 'Next' button.
- At the bottom of the next screen, enter values for these properties:  
user: <username>  
password: <password>  
serverName: <database host name>  
databaseName: <owra>  
portNumber: 3306 (MySQL) or 1521 (Oracle)
- Click Finish.
- In the next window, click on the link for the new pool (OwraPool).
- Click the 'Ping' button.

If the Ping is successful, the pool is set up correctly (see Figure 2 below).

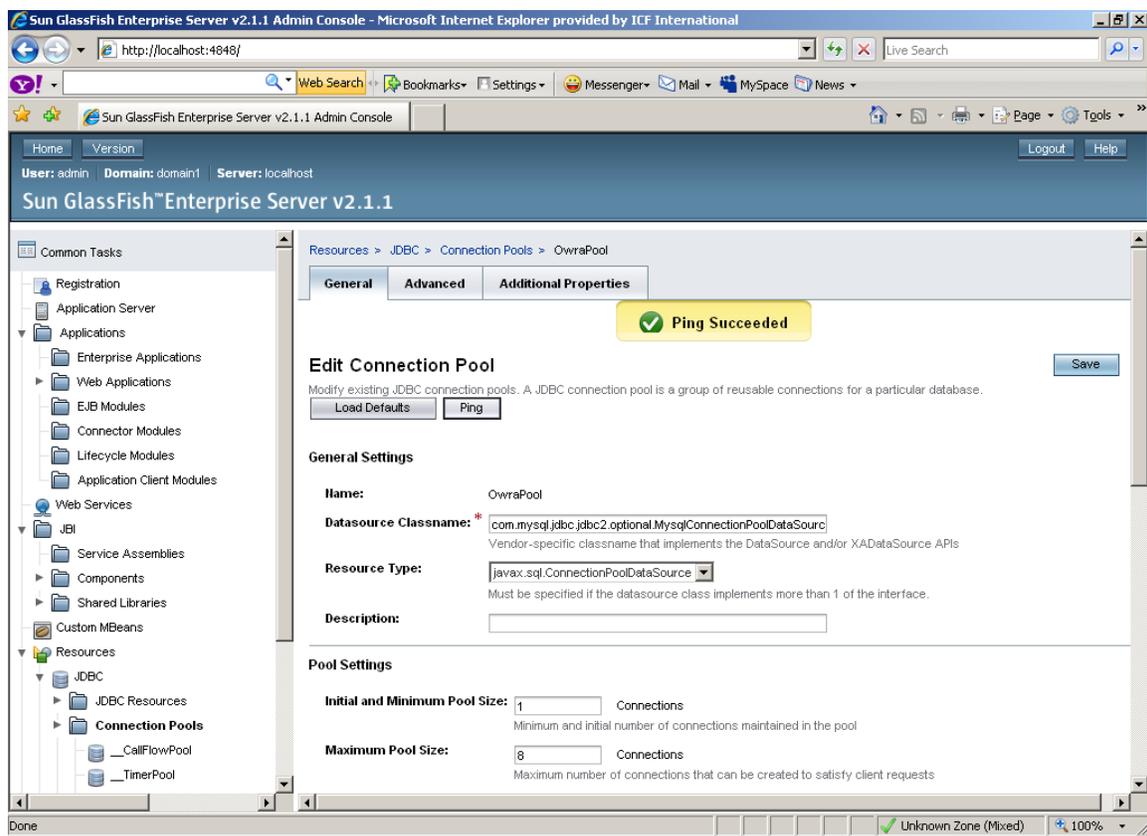


Figure 2: Glassfish v2.1.1 JDBC Connection Successful screen.

### Step 2: Create a JDBC Resource

- In the left panel, click on JDBC under Resources. Click on JDBC Resources.
- Click the 'New' button.
- For the JNDI Name, enter jdbc/OWRA.
- Select OwraPool for the Pool Name.
- Make sure status is Enabled.
- Click the 'OK' button.

The Glassfish server will need to be restarted for these settings to take effect.



## APPENDIX B: MySQL Database Creation

1. Create a MySQL user.
2. Create the OWRA database using the following command:  
`mysql -u USERNAME -pPASSWORD OWRA < owra.sql`

(Replace USERNAME, PASSWORD with the MySQL username and password created in step 1).