

**Release 1673**

**Service Request 16984  
Web PAN Rewrite**

**INSTALLATION INSTRUCTIONS**

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## Installation Overview

This document provides installation instructions for this release. Review these instructions carefully before proceeding with installation.

### DB2 Installation

This portion of the installation creates DB2 objects for use by the Web PAN application.

#### *DDL Member Installation*

1. Install the **new** DDL Index members listed in the following table.

<b>DDL Member</b>	<b>Installed?</b>
TBSES01A	
TBSES00C	
UC0VZSES	
IXDI200C	
IXPX300C	
IXPX400C	
IXPX500C	

2. The RC/Migrator strategy in ANALYSIS (R1673U) can be used to perform the above DB2 changes, or the environments may be updated using the DDL members. You should be aware that the strategies do not provide for local changes to referenced objects. If you do not wish to use the RC/Migrator strategy, skip this step and continue with Step 3.
  - Modify strategy member R1673U by replacing \*AUTHID\* and \*STOGROUP\* with the appropriate campus value.
  - Use RC/Migrator to execute the strategies.
  - Skip step 3.
3. If not using the RC/Migrator strategy, execute the DDL in the table below in the order indicated.
  - Drop View (No DDL member has been provided for this) UC0VZSES\_SES

<b>DDL Member</b>	<b>Executed?</b>
TBSES01A	
UC0VZSES	
IXDI200C	

DDL Member	Executed?
IXPX300C	
IXPX400C	
IXPX500C	

4. Install *and execute* the **new** DDL members listed in the following table, replacing \*COLLID\* with the collection ID for Web PAN. These DDL members define new stored procedures used by Web PAN. Once installed, execute each DDL member to create the new DB2 stored procedures. The CURRENT SQLID must be set to the value of \*AUTHID\* of the authorization ID that will own the Web PAN objects.

DDL Members	Installed?	Executed?
SPWP010C		
SPWP020C		
SPWP030C		
SPWP040C		
SPWP050C		
SPWP060C		
SPWP070C		
SPWP080C		

5. Once the new stored procedures have been created with the DDL above, the procedures must be started using the DB2 START command (from SPUFI or in batch) as shown below:

**-START PROCEDURE (\*AUTHID\*.\*)**

Replace \*AUTHID\* in the above command with the value of \*AUTHID\* used to modify the DDL members in step 1.

6. Install *and execute* the **new** one-time DDL member listed in the following table, replacing \*WEBID\* with the surrogate ID to be used for Web PAN. Replace \*AUTHID\* with the value of the authorization ID that will own the Web PAN objects. Once installed, execute the DDL which will grant execution on the new stored procedures to the web surrogate ID and will re-grant read access to the re-created view UC0VZSES\_SES.

DDL Members	Installed?	Executed?
-------------	------------	-----------

DDL Members	Installed?	Executed?
PPOT1673		

### *Include Member Installation*

1. Install the **modified** include member listed in the table below:

Include Member	Installed?
UC0VZSES	

### *Bind Member Installation*

1. Install the **new** bind members listed in the following table for the stored procedures replacing \*COLLID\* with the collection ID for Web PAN.

Bind Members	Installed?
UCSWP01	
UCSWP02	
UCSWP03	
UCSWP04	
UCSWP05	
UCSWP06	
UCSWP07	
UCSWP08	

### **Program Preparation**

Note: At UCOP, all COBOL programs pass through the DB2 pre-compiler, whether or not the program contains embedded SQL, to resolve INCLUDE references. Your site may have different requirements.

1. Install, compile and link the **new** programs listed in the following table.

Program	DB2?	Compile	Package Bind?	Done ?
UCSWP01	Yes	SPAS	Yes	
UCSWP02	Yes	SPAS	Yes	
UCSWP03	Yes	SPAS	Yes	

UCSWP04	Yes	SPAS	Yes	
UCSWP05	Yes	SPAS	Yes	
UCSWP06	Yes	SPAS	Yes	
UCSWP07	Yes	SPAS	Yes	
UCSWP08	Yes	SPAS	Yes	

## Web Installation

### *Net.data Component Installation*

Identify the directory where Release 1408 (EDB Web Inquiry) macro files were installed. Review and edit the job “PDS2HFS” in the JCL library to transfer the macro file to the identified application directory structure.

Run this jobstream once the necessary customization has been made.

After running the PDS2HFS jobstream, verify that the following modified Net.data file was copied to the appropriate macro directory:

FTP PDS Source	Filename	Description
WMACRO	ppsmenu.d2w	PPS Main Menu

The value of variable “vPANaddress” must be modified to point to the defined path of the new web PAN application. Change the literal \*PANADDRESS\* to the appropriate value.

The value of variable “vMeritAddress” must be modified to point to the defined path of the web Merit application. Change the literal \*MERITADDRESS\* to the appropriate value.

Once the macro files have been copied, use the **chmod** command to set permissions on all files to 755. The group ownership of all files may be left as-is, assigned to the group associated with the installer ID.

```
$ chmod 755 *
```

## **Websphere Environment**

The Websphere Web PAN application was developed and tested under the following environment:

1. Operation System: IBM AIX (Unix) v5.2
2. Websphere Application Server specification:  
IBM WebSphere Application Server for Network Deployment, 5.1.1.3
3. The application developed in JDK 1.3
4. DB2 Connect Version 8.2 running on AIX
5. The application is developed as per J2EE 1.3 specification.
  - J2EE 1.3 includes Servlet Specification level 2.3
  - JSP Specification level 1.2.
  - Connector Architecture Specification level 1.0
  - Applications developed for this J2EE level typically target a 5.0 or higher version of Websphere Application Server.

## **Websphere Component Installation**

For installing WAS (Websphere Application Server) and related components (DB2 Connect etc.) please refer to the release document of web merit application R1668

<http://www.ucop.edu/ppsmaint/REL2005/R1668/>

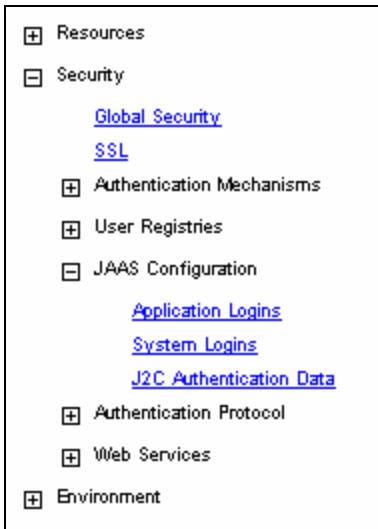
Note: The JDBC Data Source definition should be in version 5. (not version 4)

### ***J2C Authentication Entry***

The Web PAN application requires Data Sources version 5 which uses J2C architecture. In the old version 4 data source, the database userid/password needed to be typed for all data source entries. In version 5 data source, you need to create a J2C authentication data entry (a set of userid/password stored) and use that entry for any data source to be defined.

Note: J2C entries can be also added while adding data sources. This is mentioned in the section where adding data source is explained.

Expand “Security” from left menu. Expand JAAS authentication. Click on J2C Authentication Data



Click on “New” and you will be presented with this screen. Enter the fields, click OK and save.

A screenshot of a configuration dialog titled "New" under the heading "J2C Authentication Data Entries >". The dialog specifies a list of user ID and password for use by Java 2 Connector security. It features a "Configuration" tab and a "General Properties" section with the following fields:

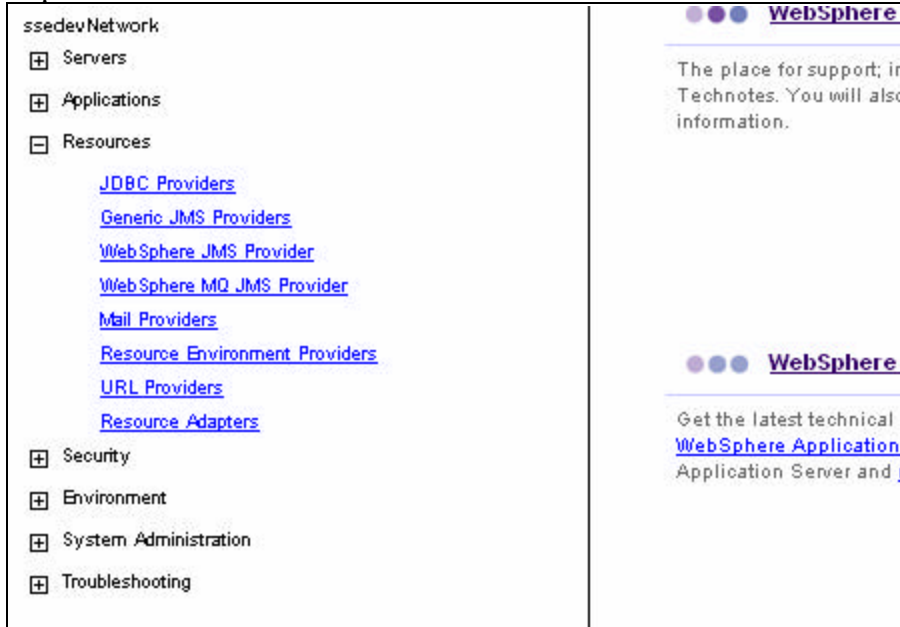
General Properties	
Alias	* DB2 QA Userid
User ID	* QAUZERID
Password	* .....
Description	userid/pwd used to connect to DB

At the bottom of the dialog are four buttons: Apply, OK, Reset, and Cancel.

### *Adding JDBC DB2 Data Source*


If you already have a DB2 Datasource defined and which can be used for Web PAN database access, you can use that. Otherwise, you need to create a new data source for Web PAN. Here are the steps:

Expand the Resources tab on the left and click on JDBC Providers



If you have a DB2 driver installed click on the driver name. Otherwise, click New and proceed.

### JDBC Providers

JDBC providers are used by the installed applications to access data from databases. 


Total: 3

Scope: Cell=ssdevNetwork

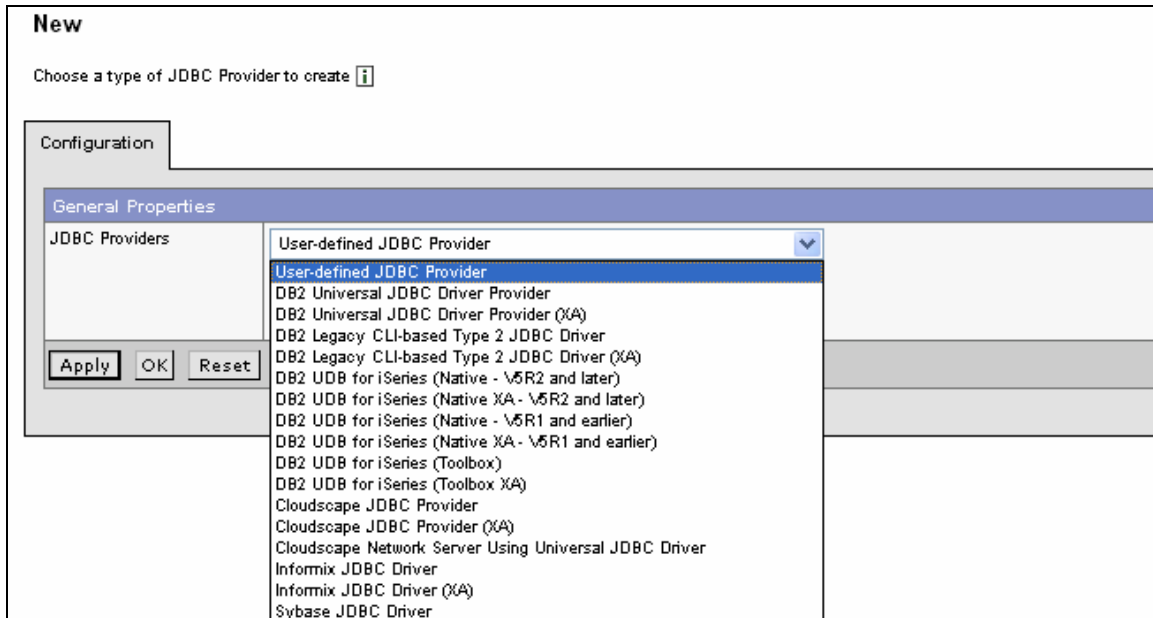
→ Cell	ssdevNetwork	<small>To specify cell scope, clear the node and To select a node scope, type in or browse To select a server scope, select a node s When new items are created in this view,</small>
Node	<input type="text"/> <input type="button" value="Browse Nodes"/>	
Server	<input type="text"/> <input type="button" value="Browse Servers"/>	

Filter

Preferences

<input type="checkbox"/>	Name 	Descri
<input type="checkbox"/>	<a href="#">DB2 JDBC Driver</a>	DB2 JD
<input type="checkbox"/>	<a href="#">MSSQLServer 2000</a>	Microse
<input type="checkbox"/>	<a href="#">Sybase JDBC Driver</a>	Sybase

Choose DB2 Universal JDBC Driver Provider. Consult your DB2 admin if required.



While adding new driver, you need to provide the classpath for the driver file (db2java.zip).

[JDBC Providers >](#)  
**DB2 JDBC Driver**

JDBC providers are used by the installed applications to access data from databases. [i](#)

Configuration

**General Properties**

Scope	* cells:ssedevNetwork	<a href="#">i</a>
Name	* DB2 JDBC Driver	<a href="#">i</a>
Description	DB2 JDBC2-compliant Provider	<a href="#">i</a>
Classpath	\${DB2_JDBC_DRIVER_PATH}/db2java.zip	<a href="#">i</a> the the or sub spe
Native Library Path		<a href="#">i</a> are seq (sy
Implementation Classname	* COM.ibm.db2.jdbc.DB2Connection	<a href="#">i</a>

Apply OK Reset Cancel

**Additional Properties**

<a href="#">Data Sources</a>	Data Source is used by the application to access the data from the database. A data source is created under a JDBC provider which p
<a href="#">Data Sources (Version 4)</a>	This is the WebSphere 4.x data source that uses the WebSphere old ConnectionManager architecture. All the EJB1.x modules must us

To add a datasource, from the bottom of the above screen, click “Data Sources” (note: do not click “Data Sources (Version 4)” as explained in the J2C Authentication section above). On the next screen you will see a list of already created data sources. Click “New” on the top to create a new data source.

Total: 5

[+](#) Filter

[+](#) Preferences

New Delete Test Connection

<input type="checkbox"/>	Name <a href="#">v</a>
<input type="checkbox"/>	DB2DataSource

Enter the required fields and click OK. Make sure to give a name and JNDI name for the data source.

**New**

Data Source is used by the application to access the data from the database. A data source is created under a JDBC provider which provides the specific JDBC driver i

Configuration

General Properties		
Scope	* cells:ssdevNetwork	[i] The s configura
Name	* db2q	[i] The n
JNDI Name	jdbc/db2q	[i] The J
Container managed persistence	<input type="checkbox"/> Use this Data Source in container managed persistence (CMP)	[i] Enabl persisten factory w relational
Description	New JDBC Datasource for QA	[i] An op
Category		[i] An op resource.
Statement Cache Size	10 statements	[i] Numt from the statemen
Datasource Helper Classname	com.ibm.websphere.rsadapter.DB	[i] The d functions
Component-managed Authentication Alias	(none)	[i] Refer resource.
Container-managed Authentication Alias	(none)	[i] Refer resource.
Mapping-Configuration Alias	(none)	[i] Selec configura principal end serv

Apply OK Reset Cancel

Now, you need to set up the parameters for the data source.

Click on the data source just created. You will be presented with the screen like above. Go to the bottom of the screen and we will see the options as below.

If you have not set J2C Authentication entries already, you can add here. Click on “J2C Authentication Data Entries” at the bottom.

The screenshot shows a configuration dialog box with the following elements:

- Two dropdown menus, both set to "(none)".
- Buttons: **Apply**, **OK**, **Reset**, **Cancel**.
- Additional Properties** section:
  - Connection Pool**: An optional set of connection pool settings.
  - Custom Properties**: Properties that may be required for Resource Providers and Resource Factories. For example...
- Related Items** section:
  - J2C Authentication Data Entries**: Specifies a list of userid and password for use by Java 2 Connector security.

Click New to add J2C Authentication entry.


The screenshot shows a table with the following structure:

Total: 16	
<input type="checkbox"/>	Alias
<input type="checkbox"/>	<a href="#">ssedev/ps/Alias</a>
<input type="checkbox"/>	<a href="#">ssedev/samples</a>

Buttons: **New**, **Delete**

Column headers: **Alias**, **User ID**

Enter the DB2 userid and password. Give a name in alias field.  
Click OK.

Specifies a list of userid and password for use by Java 2 Connector security. 

Configuration

General Properties	
Alias	* DB2 qa userid
User ID	* USRDB2Q
Password	* .....
Description	userid/pwd for qa

Apply OK Reset Cancel

Go back to the datasource details page. Set “Component-managed Authentication Alias” and “Container-managed Authentication Alias” from the pull down list. Choose “DefaultPrincipalMapping” for Mapping-Configuration Alias.

Statement Cache Size	10 statements
Datasource Helper Classname	com.ibm.websphere.rsadapter.DB
Component-managed Authentication Alias	ssedevManager/DB2 qa userid
Container-managed Authentication Alias	ssedevManager/DB2 qa userid
Mapping-Configuration Alias	DefaultPrincipalMapping
<input type="button" value="Apply"/> <input type="button" value="OK"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/>	
<b>Additional Properties</b>	
<a href="#">Connection Pool</a>	An optional set of connection pool settings.
<a href="#">Custom Properties</a>	Properties that may be required for Resource Providers and Resource Factories. For example, most databases
<b>Related Items</b>	
<a href="#">J2C Authentication Data Entries</a>	Specifies a list of userid and password for use by Java 2 Connector security.

Now, set up the database name. Click on “Custom Properties” and you will be presented with a screen as below. On this screen, click on databaseName and type the name. This name is what has been defined in DB2 Connect Client Configuration as a database entry.

Custom Properties			
Custom properties that may be required for Resource Providers and Resource Factories. For example, most database vendors require additional custom properties for data sources that will ac			
Total: 7			
<input type="checkbox"/> Filter <input type="checkbox"/> Preferences			
<input type="button" value="New"/> <input type="button" value="Delete"/>			
<input type="checkbox"/> Name	Value	Description	Required
<a href="#">databaseName</a>	UCCMVSBD	This is a required property. The database name. For example, enter sample to make your Data Source point to jdbc:db2:sample.	true
<a href="#">description</a>	-	The description of this datasource.	false
<a href="#">portNumber</a>	-	The TCP/IP port number where the jdbc Provider resides.	false
<a href="#">connectionAttribute</a>	cursorhold=0	The connection attributes. Refer to the DB2 reference for the list of connection attributes.	false
<a href="#">loginTimeout</a>	0	The maximum time to attempt to connect a database. If this value is non-zero, attempt to connect to the database will timeout when this specified value is reached.	false
<a href="#">enableMultithreadedAccessDetection</a>	false	Indicates whether or not to detect multithreaded access to a Connection and its corresponding Statements.	false

You can change the default settings for connection pool parameters. Click on “Connection Pool” and change the default values as required.

The screenshot shows a configuration window titled "Configuration" with a "recommended" icon. The "General Properties" section is expanded, showing the following settings:

Scope	cells:ssdev Network
Connection Timeout	180 seconds
Max Connections	10 connections
Min Connections	1 connections
Reap Time	180 seconds
Unused Timeout	1800 seconds
Aged Timeout	0 seconds
Purge Policy	Entire Pool

At the bottom of the dialog are four buttons: "Apply", "OK", "Reset", and "Cancel".

Save everything (click on save link on the top) and test the connection by clicking “Test Connection” button.

The screenshot shows a "Test Connection" dialog box. At the top, there is a descriptive text: "Data Source is used by the application to access the data from the database. A data source is created under a JDBC". Below this is a "Configuration" section with a "Test Connection" button. The "General Properties" section is expanded, showing the following settings:

Scope	* cells:ssdev Network
Name	...

### *Installing the Websphere PAN Application*

#### **Installing The EAR/WAR file using WS Admin Panel (Web Based)**

The Web PAN Application can be installed in a WAS (Websphere Application Server) 5.xx or higher version in two ways:

- a) installing a EAR (Enterprise Application Archive) file
- b) installing a WAR (Web Application Archive) file

Download application from  
PAYDIST.R1673.PANEAR  
PAYDIST.R1673.PANWAR

Note: if you are using FTP to download these files, please make sure to download in binary format.

You may choose ear file from local path or from the server.

**Preparing for the application installation**

Specify the EAR/WAR/JAR module to upload and install.

<b>Path:</b>	Browse the local machine or a remote server:	<b>i</b> Choose the local path if resides on any of the nodes
	<input checked="" type="radio"/> Local path: c:\webpan.ear <input type="button" value="Browse..."/>	
	<input type="radio"/> Server path: <input type="text"/> <input type="button" value="Browse..."/>	
<b>Context Root:</b>	Used only for standalone Web modules (*.war) <input type="text"/>	<b>i</b> You must specify a context root

For WAR file installation, you need to provide a context root. This context root determines the URL to invoke the application. When installing war , Websphere creates a enterprise application and deploys the war under it.


**Preparing for the application installation**




Specify the EAR/WAR/JAR module to upload and install.

<b>Path:</b>	Browse the local machine or a remote server:
	<input checked="" type="radio"/> Local path:
	<input type="text" value="c:\webpan.war"/> <input <="" td="" type="button" value="Browse..."/>
	<input type="radio"/> Server path:
	<input type="text"/> <input <="" td="" type="button" value="Browse..."/>
<b>Context Root:</b>	Used only for standalone Web modules (*.war)
	<input type="text" value="/webpan"/>

No need to change default bindings.

**Preparing for the application installation**

You can choose to generate default bindings and mappings. 

<input type="checkbox"/> Generate Default Bindings		
Override:	<input checked="" type="radio"/> Do not override existing bindings <input type="radio"/> Override existing bindings	 Generate default bindings for ex
Virtual Host	<input type="radio"/> Do not default virtual host name for web modules <input checked="" type="radio"/> Default virtual host name for web modules: <input type="text" value="default_host"/>	 The virtual host to be used for t
Specific bindings file:	<input type="text"/> <input type="button" value="Browse..."/>	 Optional location of pre-defined

Nothing to modify in this screen. One thing to note here is that if you enable “Pre-compile JSP”, the JSPs will be compiled while installing the application. Otherwise, JSPs are compiled when the JSP page is invoked first time.

### Install New Application

Allows installation of Enterprise Applications and Module

→ Step 1 : Provide options to perform the installation

Specify the various options available to prepare and install your application.

AppDeployment Options	Enable
Pre-compile JSP	<input type="checkbox"/>
Directory to Install Application	<input type="text"/>
Distribute Application	<input checked="" type="checkbox"/>
Use Binary Configuration	<input type="checkbox"/>
Deploy EJBs	<input type="checkbox"/>
Application Name	<input type="text" value="PANWeb Enterprise"/>
Create MBeans for Resources	<input checked="" type="checkbox"/>
Enable Class Reloading	<input type="checkbox"/>
Reload Interval in Seconds	<input type="text"/>
Deploy WebServices	<input type="checkbox"/>

[Step 2](#) Map resource references to resources

[Step 3](#) Map virtual hosts for web modules

Map resource references to resources. This is important. Web PAN application internally has a reference binding with name as “jdbc/panDataSource” which should be mapped to an existing resource. You can choose from the pull down list of resources already defined. This should be a JDBC Provider resource for DB2 access defined under Resources.

**Install New Application**

Allows installation of Enterprise Applications and Module

[Step 1](#) Provide options to perform the installation

→ **Step 2 : Map resource references to resources**

Each resource reference defined in your application must be mapped to a resource.

javax.sql.DataSource

Specify existing Resource JNDI name: select....

<input type="checkbox"/> Module	<input type="checkbox"/> EJB		Reference Binding	JNDI Name
<input type="checkbox"/>	PANWeb		jdbc/panDataSource	jdbc/panDataSource

[Step 3](#) Map virtual hosts for web mod  
[Step 4](#) Map modules to application se  
[Step 5](#) Summary

- select....
- ssedeV:DefaultDatasource
- ssedeV:WSSamples/Tech Samp Datasource
- ssedeV:jdbc/Plants By Web Sphere Data Source
- ssedeV:jdbc/petstore/Pet Store DB
- ssedeV:jdbc/CatalogDB
- ssedeV:jdbc/bud
- ssedeV:jdbc/dstje
- ssedeV:jdbc/adm
- ssedeV:jdbc/ase
- ssedeV:jdbc/Asas
- ssedeV:jdbc/dem
- ssedeV:jdbc/pin
- ssedeV:jdbc/ppsvr
- ssedeV:jdbc/ppsvr1
- ssedeV:jdbc/less
- ssedeV:jdbc/pki
- ssedeV:jdbc/dsdnrarc

Map virtual hosts for web modules. If you have multiple virtual hosts, you can choose one here.

**Install New Application**

Allows installation of Enterprise Applications and Module

[Step 1](#) Provide options to perform the installation

[Step 2](#) Map resource references to resources

→ **Step 3 : Map virtual hosts for web modules**

Specify the virtual host where you want to install the Web modules contained in your application. Web modules can be in

Apply Multiple Mappings

<input type="checkbox"/> Web Module	Virtual Host
<input type="checkbox"/> PANWeb	default_host default_host admin_host

[Step 4](#) Map modules to application servers

[Step 5](#) Summary

Map modules to application servers. Choose the application server where you want to install the application.

**Install New Application**

Allows installation of Enterprise Applications and Module

[Step 1](#) Provide options to perform the installation  
[Step 2](#) Map resource references to resources  
[Step 3](#) Map virtual hosts for web modules

→ **Step 4 : Map modules to application servers**

Specify the application server where you want to install modules contained in your application. Modules can be installed on the same server or dispersed among servers.

Clusters and Servers:

- Web Sphere:cell=ssedev Network,node=ssedev,server=DANRIS
- Web Sphere:cell=ssedev Network,node=ssedev,server=DDRINT
- Web Sphere:cell=ssedev Network,node=ssedev,server=FJE
- Web Sphere:cell=ssedev Network,node=ssedev,server=ERS
- Web Sphere:cell=ssedev Network,node=ssedev,server=PAYROLL

Apply

<input type="checkbox"/>	Module	URI	Server
<input checked="" type="checkbox"/>	PANWeb	PANWeb.war,WEB-INF/web.xml	Web Sphere:cell=ssedev Network,node=ssedev,server=PAYROLL

Previous Next Cancel

[Step 5](#) Summary

Final screen. Click Finish and then “Save to Master Configuration” on next screen. You need to hit save button on the next screen.

**Install New Application**

Allows installation of Enterprise Applications and Module

[Step 1](#) Provide options to perform the installation  
[Step 2](#) Map resource references to resources  
[Step 3](#) Map virtual hosts for web modules  
[Step 4](#) Map modules to application servers

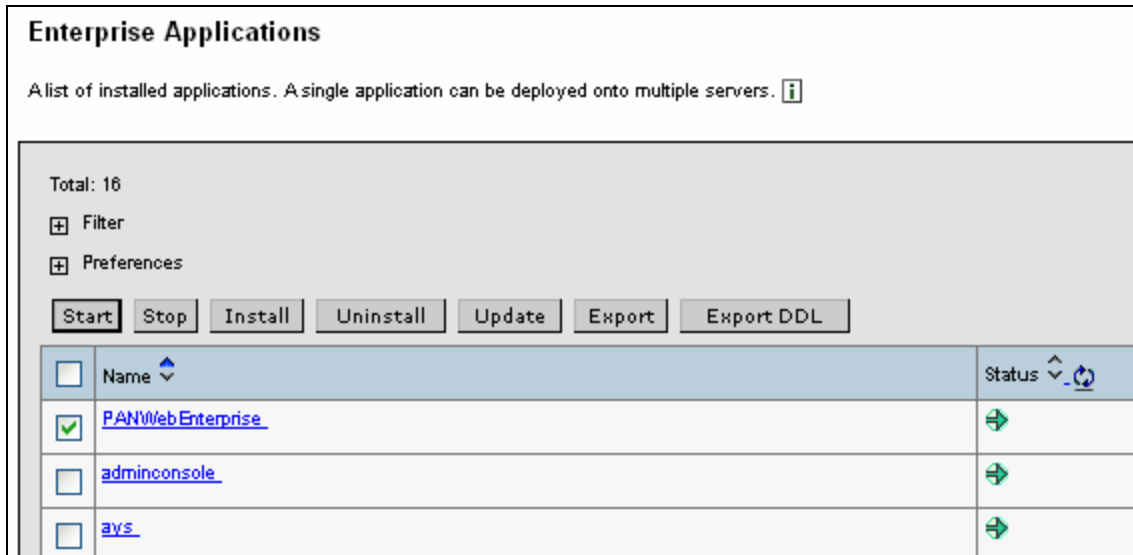
→ Step 5 : Summary

Summary of Install Options

Options	Values
Distribute Application	Yes
Use Binary Configuration	No
Cell/Node/Server	<a href="#">Click here</a>
Enable Class Reloading	No
Create MBeans for Resources	Yes
Deploy EJBs	No
Reload Interval in Seconds	
Application Name:	PANWeb Enterprise
Directory to Install Application	
Pre-compile JSP	No
Application Name	PANWeb Enterprise
Deploy Web Services	No

## Updating the Application.

Updating already existing application is similar to installing first time. Go to the list of applications, choose applications to update and continue with the screens followed.



## Setting the Web PAN Application Parameters

There are two configurable parameter files used in Web PAN application:

- i. ApplicationResources.properties
- ii. Log4.properties

The location of these files are specified in web.xml file. These files are available in /WEB-INF directory. It is recommended that you move these files to the default location on the server that is specified in web.xml . This way when you update the application the properties files will not be overwritten.

The default location for the the properties files: /data/WebSphere/PAYROLL/props/webpan (you will need to create this directory on the server). If you choose a different location, each time you install a new .ear file, you will need to make sure that web.xml entries are pointing to the right directory.

- a) Set the following database parameter in the ApplicationResources.properties file:
  - database.context.name (This must match the DB2 datasource name in WebSphere as described in section "Adding JDBC DB2 Datasource" of this document. If the datasource name is the default, panDataSource, no change is needed to this parameter)database.authid (Change **\*\*AUTHID\*\*** to the database authorization ID)

- b) Set the email parameters in the ApplicationResources.properties file:
- mail.smtp.host: Change **\*\*SMTP.SERVER\*\*** to the local smtp host name for forwarding PANs, eg. popserv.ucop.edu.
  - mail.smtp.port: Change **\*\*SMTP.PORTNO\*\*** to the local smtp port number for forwarding PANs, eg. 25.
  - mail.smtp.from: Change **\*\*SMTP.FROM\*\*** to the "from" address for forwarding PANs, eg. panmail@ucop.edu.
- c) Set the net.data.base parameter in the ApplicationResources.properties file:
- net.data.base: Change **\*\*NET.DATA.URL\*\*** to the local base url for the net.data menu, eg. <http://prod.ucop.edu/ppxcgi/ucdb2www/>. Note that this includes the final "/", but does not include the net.data login program name ppslogon.d2w/main).

## The Application Log

The Log4.properties file controls the parameters for application log.

The default location for the log file is: `/logs/WebSphere/PANWEB` (you will need to create this directory on the server), set in the `log4j.appender.LOGFILE.File` parameter in the `log4.properties` file. If you choose a different location, each time you install a new .ear file, you will need to make sure that web.xml entries are pointing to the right directory.

For setting other parameters of logging, please refer to <http://logging.apache.org/log4j/docs/documentation.html>

## Security Handling

The application can be invoked only from PPS Main Menu. A valid RACF login is required in PPS Main Menu. A click on any of the Web PAN links from PPS Main Menu will transfer the request to Web PAN application and a validation is done against PPS security table. Access to different sections of Web PAN application is controlled by ARSM rules as per the requirement.

## Session Time Out

WebSphere standard session time out (due to inactivity) is 30 minutes by default. But this is configurable in websphere administration (application additional properties in WebSphere 5.x). It is advisable to make this time out interval same as the time out interval in the main calling application (PPS).

## Testing

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Perform installation verification testing as described in the Test Plan.

Perform any desired additional campus testing.