

DATA MANAGEMENT SYSTEM (DMS)

SETUP, CONFIGURATION AND MANAGEMENT (iSeries 520 Server)

VERSION 3.0

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INTRODUCTION

Purpose

This document describes how to setup, configure and deploy the Data Management System (DMS) application on an iSeries 520 **Server**. It also covers deploying updates to the application as well as steps to follow in resolving specific types of errors.

Scope

The scope of this document includes:-

- Creating database tables and populating security data.
- Creating Data source on application server.
- Deploying application on application server.
- Testing the application
- Installing updates to the DMS application
- Resolving errors

Definitions, Acronyms, Abbreviations

STATIN	-	Statistical Institute of Jamaica
DMS	-	Data Management System
EAR	-	Enterprise Application Archive file
SQL	-	Structured Query Language
WAS	-	WebSphere Application Server

Prerequisites

- IBM iSeries Navigator software
- Login account to iSeries
- Mapped drive path on local pc to the folder /QIBM on iSeries server
- ODBC connection to DMSTEST and DMSPROD schema on iSeries

1.0 DATABASE CREATION AND CONFIGURATION

1.1 Database Creation

It is important to specify a relational database name on the iSeries to allow networks that have relational databases of the same name to uniquely identify each in a Distributed Relational Database Architecture environment.

- 1. To check if your iSeries already have a relational database entry, type the command **DSPRDBDIRE** on the command line and press **Enter**.
- 2. You should see a screen as below, showing your <iSeries name> defined as the Relational database name.



- 3. If you do not have an entry defined as shown above, use the **ADDRDBDIRE** command to create a new entry.
 - a. Type ADDRDBDIRE on the command line and press F4.
- 4. Press Enter.

1.2 User Creation

- 1. Sign on to the iSeries with a userid with Security officer privileges.
- 2. On the command line, type the command CRTUSRPRF and press F4
- 3. You will see the create user profile screen displayed.
- Fill in the basic parameters below. User profile......
 Vaser password......
 Vaser Class......*User
- 5. Press Enter.

Authority

To ensure the user profile created has all authorities to the schema/library and the objects in the schema/library. Use the Grant Object Authority (GRTOBJAUT) command:-

GRTOBJAUT OBJ(<schema/library name>) OBJTYPE(*LIB) USER(<username>) AUT(*ALL)

GRTOBJAUT OBJ(<schema/library name>/*ALL) OBJTYPE(*ALL) USER(<username>) AUT(*ALL)

1.3 Schema and Tables Creation

- 1. Connect to the database from iSeries Navigator.
- 2. Create schema <SCHEMANAME> in the DB2/400 database. Right click on the Schema/Library to create new schema. Provide schema name.



- 3. Open SQL query editor.
- To work in the <SCHEMANAME> created, use following command set current schema <SCHEMANAME>
- 5. Run SQL statements from following files, which are given as part of release.
 - a. Admin (Create).sql This SQL will create tables used for security module.
 - b. Media (Create).sql This SQL will create tables used for media clipping module.
- 6. If you are re-creating tables, then you may want to first drop existing tables and then recreate those. To drop tables use following scripts.
 - a. Admin (Drop).sql SQLs in this file will drop tables used for security module.
 - b. Media (Drop).sql SQLs in this file drop tables used for media clipping module.
- 7. Once security tables have been created, then need to load those security tables. To load security data, execute SQLs provided in "Security Data.txt" file. To maintain referential integrity execute sqls in the given order only.
- 8. Use iSeries Navigator to grant access to newly created user, to access schema and created tables.

2.0 CREATING A NEW WEBSPHERE APPLICATION SERVER

- 1. Start IE Browser
- 2. Enter <u>http://192.168.0.19:2001/</u> in the browser address bar then press enter.
- 3. Enter the username and password
- 4. Click OK to continue



5. The iSeries i5/OS Tasks web page will appear.



6. Select IBM Web Administrator for i5/OS link.



The IBM Web Administrator for i5 page will appear. In this page, you can create, configure, manage and start or stop your web and application servers.

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Create Data Source				
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7. Click Create Application Server



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WAS Wizards Create Virtual Host Install New Application Create DBC Provider Create DBC Provider Deploy IBM Telephone D Deploy IBM Survey Creat Server Properties	Configure Host Routing An application must be mapped to a host in order to be accessed. A host is defined by the host name or IP address, and a port number. By default, the application is configured to be accessible through a default list of hosts defined for the application server. If you wish for more granular control, you can restrict access to your application by configuring it to specific hosts. Install Application Applications must be installed onto the application server to be accessible. The Install New Application wizard takes your archive file that contains the application and deploys the application on the server.
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8. Click the **Next** button to continue.



This page will start the process in creating the application server. In this exercise, we do not have v7.1 as displayed on the screen. We are migrating from V6.0 to V6.1 Express.

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 WAS Wizards Create Virtual Host Create JDBC Provider Create JDBC Provider Create Data Source Deploy IBM Telephone D Deploy IBM Survey Creat 	IBM integrated Web application server for i: V7.1 WebSphere Application Server: 0 V6.1 Encress WebSphere Application Server V6.1 Express, allows you to add dynamic function to static HTML Web pages and is intended for less complex Web applications.	or
Server Properties D Properties D Server Tracing D Server Ports D View HTTP Servers	WebSphere Application Server Version V6.1 Express can be installed in multiple locations on this system. Multiple application servers can be created from each installation. The product install path for this installation is /QIBM/ProdData/WebSphere/AppServer/V61/Express.	
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- Select the V6.1 Express radio button.
 Click Next to continue.



In this exercise, WAS61PROD is being created in preparation for the migration from v6.0. The server was given the name WAS61PROD. WAS61 is used to identify the WebSphere version being used and PROD identifies the type of environment being created (in this case production).

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- 11. Enter the name of the application server12. Provide a description (optional)
- 13. Click Next to continue.



You are required to **select your HTTP server type**. In this exercise, we will create a new HTTP server for our Production environment.

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- 14. Select Create a new HTTP server(powered by Apache)15. Click Next to continue



You are required to:

- Give the server a Name (This should be unique)
- Define the IP address it must listen on (For added security, you can limit the list.)
 - Define the Port the application must listen on. (This should be unique)

Use iSeries Navigator to look at all the active open connections to determine which port ranges can be defined. Please bear in mind that applications that are not started may conflict with the port you choose.

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✓ WAS Wizards	HTTP server name: WAS61PROD	
Create Virtual Host	HTTP server description: HTTP server created by the Create Application Se	
Create JDBC Provider Create Data Source Deploy IBM Telephone D Deploy IBM Survey Creat	Your HTTP server may listen for requests on a specific IP address or on all IP addresses of the system.	
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- 16. Enter the following: HTTP server name: WAS61PROD IP address: All IP addresses Port: 11000
- 17. Click Next to continue



You are required to **Specify Internal Ports Used by the Application Server**. Since 11000 is the port that will be used, this is re-entered here to "force" the server to start assigning ports from this number.

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18. Enter "11000"
 19. Click Next to continue



You are required to Select Sample Applications. Keep the default.



20. Click Next to continue



You are required to configure Identity Token for Web. Make sure **Do not configure Identity Tokens** is selected.

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21. Click Next to continue

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Manage Data Sources			http://STATINIS:11000/hello		
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22. Look through the summary just to make sure all the correct options have been selected.

23. Click **Finish** to complete the process. This should take about 30-45 minutes to complete.



Use the display below to monitor the creation process.

On completion the following screen will be displayed.



You can use this screen to manage the new application server.

3.0 STARTING AND STOPPING THE APPLICATION SERVER

Knowing how to start or stop the server is critical in managing the server, deploying updates and resolving errors. The sections below explain how to accomplish these two tasks.

3.1 Starting the Application Server



- 1. Select the new server in the drop-down box on the form
- 2. Click the Start button (the green icon \square) to start the selected application server.



In the window below, you can start either the application server or the web server or both at the same time.

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3. Click the **Start** button to continue.



Monitor the screen to determine if the application server was started successfully. The page will refresh itself periodically.



On successful completion the status of the server should indicate running Sunning



The **Manage all Servers** view will show that the new server is started and listening for requests on the server IP address and ports assigned.

3.2 Stopping the Application Server

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WAS Wizards Create Virtual Host Install New Application Create JDBC Provider Create Data Source Deploy IBM Telephone D Deploy IBM Survey Creat Server Properties Deroperties Deropert	WebSphere application server created Create Additional Virtual Host The default virtual host "default_host" was created for this application server. However, you can specify additional virtual hosts for more control over what URI's can run which applications.	by the Create Application Server wizard. Install New Application After creating the server and virtual host you can install your applications.	Create Data Source Then, define the resources the application server will use to access data for your applications.
 Applications 	Current Config	uration Profile: "WAS61TEST" Serv	er:"WAS61TEST"
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1. Select the server to stop from the drop-down list



2. Click the stop icon U to stop the server.



3. Select the servers you wish to stop.

You can stop the web server, the application server or both at the same.

4. Click the Stop button



The page will be updated to reflect that the server is being stopped.



When the server is stopped, the page will now show that it has been stopped.

4.0 DATASOURCE CREATION ON ISERIES SERVER

The following section describes how to define data source on the application server. This is to be done after the WebSphere Application Server 6.1 has been installed on the iSeries Server. The following steps are involved in defining data source.

- Defining J2C Authentication alias
- Defining JDBC Driver
- Creating and configuring Data Sources
- Testing the connection to the Data Source

First ensure that application server is running and you are logged in admin console of the same.

4.1 Accessing the Administrator Console

- 1. Start IE Browser
- 2. Enter http://192.168.0.19:11001/ibm/console in the browser address bar then press enter.
- 3. Enter a username
- 4. Click the Log in button to continue



4.2 J2C Authentication Alias



Database user and password is required while configuring the **Datasource**. An alias can be created for database user. This new alias will be then used while defining the actual data source.

Follow the following steps to create alias for database user.

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Resources Security Secure administration, applications, and infrastructure SSL certificate and kommanagement Bus Security	Security Configuration Wizard Security	y Configuration Report
Environment System administration Users and Groups Monitoring and Tuning Troubleshooting Service integration UDD1	Administrative security Administrative User Roles Enable administrative security Administrative Group Roles Application security Enable application security Java 2 security Enable application security Java 2 security Warn if applications are granted custom permissions Restrict access to resource authentication data User account repository Current realm definition Local operating system Available realm definitions Local operating system Available realm definitions Local operating system Apply Reset	Authentication Use domain-gualified user names Web security RMI/IDP security Java Authentication and Authorization Service Authentication mechanisms and expiration External authorization providers Custom properties
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- Expand Security option on the right hand side
 Click on Secure administration, applications, and infrastructure.

Secure administration, applications, and infrastructure page.



3. Under Authentication section, expand Java Authentication and Authorization Service

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Bus Security	Security Configuration Wizard	Security Co	nfiguration Report		
E Environment	ministrative security		Authentication		
System administration] Enable administrative security Administrative User I	Roles	Use domain-qualified user names		
Users and Groups	Administrative Group	Roles	Web security		
Monitoring and Tuning	plication security		RMI/IIOP security		
Troubleshooting	pication security] Enable application security		 Java Authentication and Authorization Service Application logins 		
Service integration					
I UDDI	va 2 security		 System logins 		
	Use Java 2 security to restrict application access to local purces Warn if applications are granted custom permissions Restrict access to resource authentication data		 J2C authentication data Authentication mechanisms and 	expiration	
	er account repository		External authorization providers		
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Java Authentication and Authorization Service section will expand. Here, click on J2C authentication data button



5. J2C authentication data page will open. Click on New button

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E Resources	use.		(IN) 2 connector security to	field label or list marker when the help
E Security	Configuration			cursor appears.
Secure administration, applications, and infrastructure SSL certificate and key management Bus Security Environment System administration Users and Groups Monitoring and Tuning	General Properties + Atias + User ID + Password			Page help More information about this page
Service integration	Description			
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- 6. Enter the following details while defining new entry.a. Alias: Any user defined alias for database user.
 - Alias: dmsuser
 - b. User Id: Database user (User should have access to all database objects).
 User ID = dmsaccess
 - c. Password: Password for database user. Password = **dmsaccess**

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Applications	Specifies a list of user identities and pas	swords for Java(TM) 2 connector security to	mation, select a
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E Security	Configuration	Curso	or appears.
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7. Click on the *Apply* button and the application will prompt to save entered details.

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E Security	The ser	ver may need to be restarted for these changes		cursor appears.
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	specifies a list of user ident	titles and passwords for Java(TM) 2 connector sec	curity to	
🗉 Users and Groups	Configuration			
Monitoring and Tuning	Configuration			
⊞ Troubleshooting				
Service integration	General Properties			
	Alias tvsserverNode01/dmsu + User ID dmsaccess + Password ••••••• Description Apply OK Reset	Cancel		*
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8. Click **Save** hyperlink (at the top of the page) to commit the changes.
4.3 Configuring the JDBC Driver



- 1. Expand the Resources menu
- 2. Expand JDBC
- 3. Click on JDBC Providers to add new JDBC Provider for DB2.



- 4. Click the Node drop-down box to select the node (Select Node & Server)
- 5. Click on *New* button to define JDBC Provider.



- 6. Select the following from the dropdown lists.
 - a. Database Type: **DB2**;
 - b. Provider Type: DB2 UDB for iSeries (Toolbox)
 - c. Implementation Type: Connection Pool data source
- 7. Then click on *Next* button to proceed to the next step.



8. Click on Next



- 9. Click Finish to end the configuration
- 10. Click Save to save the configuration



You should now see "DB2 UDB for iSeries (Toolbox)" in the list.

4.4 Data source

Once JDBC provider is defined the next step is defining data source. Following steps illustrates how to create data source.



2. Click on New button to add new data sources.

1.



- 3. Enter following properties.
 - a. Data source name = DB2 UDB doer iSeries (Toolbox) DataSources
 - b. Jndi name = jdbc/dms_dev
 - c. Authentication alias (select name form list) server name/user alias = STATINIS_WAS61PROD/dmsuser



4. Click Next



- 1. Click the option **Select an existing JDBC provider**
- 2. Select from the menu DB2 UDB for iSeries (Toolbox)
- 3. Click Next



- 4. Enter the Server IP Address = 192.168.0.19
- (This is the IP Address of the iSeries server where the DB2 database resides.)
- 5. Click Next

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E Resources	Step 1: Enter basic data source	Summary		field
Schedulers	information	Summary of ac	tions:	mark
 Object pool managers 	Step 2: Select	Options	Values	Cursi
I JMS	JDBC provider	Scope	cells:STATINIS WAS61PROD:nodes:STATINIS WAS61PROD:servers:WAS61PROD	D
JDBC JDBC Providers	Step 3: Enter database specific	Data source name	DB2 UDB doer iSeries (Toolbox) DataSources	
 Data sources Data sources (WebSphere) 	properties for the data source	JNDI name	= jdbc/dms_dev	
Application Server V4) Resource Adapters Asynchronous beans Cache instances	→ Step 4: Summary	Component- managed authentication alias	STATINIS_WAS61PROD/dmsuser	
B Cache Instances ■ Mail ■ URL ■ DRL		Select an existing JDBC provider	DB2 UDB for iSeries (Toolbox)	
El Security		Implementation class name	com.ibm.as400.access.AS400JDBCConnectionPoolDataSource	
Environment		Server name	192.168.0.19	-
System administration		Use this data		
Users and Groups		source in		
Monitoring and Tuning		managed	true	
Troubleshooting		persistence		
Service integration		(CMP)		
I UDDI	Previous Finish	Cancel		
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- 6. Click Finish to end configuration setup7. Click Save to save the configuration

4.5 Configure JDBC Driver Path

4.5.1 Configure OS400 TOOLBOX JDBC DRIVER PATH



- 1. Expand Environment
- 2. Click on WebSphere variables

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E Servers		WebSp	phere Variables		
Applications		Use the level, y	s page to define substitution variables. va which is either server, node, cluster, or ce	ariables specify a level of indirection for some system-defined values, such as all. Values at one scope level can differ from values at other levels. When a v	s file syste variable ha
Resources		scope '	value overrides values at greater scope le	vels. Therefore, server variables override node variables, which override clust	ter variab
E Security			pe: =All scopes		
Environment		S	cope specifies the level at which the reso	urce definition is visible. For detailed information on what scope is and how it	t works, <u>s</u>
Virtual Hosts			All scopes	V	
 Update global Web server plug-in configuration 		7 /	All stopes		
 WebSphere Variables 		E Prete	arences		
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 Replication domains 		QC) 学 学		
Naming		Select	Name 2	Value 🗘	Scope 0
System administration	\subset		OS400 TOOLBOX JDBC DRIVER PATH		Node=S1
Users and Groups			SERVER LOG ROOT	\${LOG_ROOT}/WAS61PROD	Node=S1
Monitoring and Tuning			SERVER LOG ROOT	\$(LOG_ROOT)Content frame BOD	Node=S1
H Troubleshooting			<u>SERVER EDG ROOT</u>		NGGC-0
E Service Integration			SYBASE JDBC DRIVER PATH		Node=S1
B 0001			UNIVERSAL JDBC DRIVER PATH	\${WAS_INSTALL_ROOT}/universalDriver/lib	Node=S1
			USER INSTALL ROOT	/QIBM/UserData/WebSphere/AppServer/V61/Express/profiles/WAS61PROD	Node=S1
			User-defined JDBC DRIVER PATH		Node=S7
			WAS CELL NAME	STATINIS_WAS61PROD	Cell=STA
			WAS ETC DIR	\${USER_INSTALL_ROOT}/etc	Node=S7
			WAS INSTALL LIBRARY	QWAS61A	Node=S7
			WAS INSTALL ROOT	/QIBM/ProdData/WebSphere/AppServer/V61/Express	Node=S1
			WAS LIBS DIR	\${WAS_INSTALL_ROOT}/lib	Node=S1
			WAS PROPS DIR	\${USER_INSTALL_ROOT}/properties	Node=S1
			WAS SERVER NAME	WAS61PROD	Node=S1
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http://192.168.0.19:11001/jbm/console/variables	Substitu	utionEntr	vCollection.do?EditAction=true&refId=Variable	eSubstitution 😜 Internet 🔍 🔍	100% •

3. Click on OS400 TOOLBOX JDBC DRIVER PATH



- 4. Type in the absolute path to the JDBC Driver path on the iSeries server. Path: /QIBM/ProdData/HTTP/Public/jt400/lib
- 5. Click Apply to apply the configuration
- 6. Click Save to save the configuration

4.5.2 Configure OS400 NATIVE JDBC DRIVER PATH

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Resources	Select	Name 🗘	Value 🗘	Scope 0
E Security		APP INSTALL ROOT	\${USER_INSTALL_ROOT}/installedApps	Node=STATINIS_WAS6
E Environment		CONNECTIDEC JDEC DRIVER PATH		Node=STATINIS_WAS6
Virtual Hosts		CONNECTOR INSTALL ROOT	\${USER INSTALL ROOT}/installedConnectors	Node=STATINIS WASE
 Update global web server plug-in configuration 		DB2390 IDBC DRIVER PATH		Node=STATINIS WASE
WebSphere Variables		DE2350 JOSE PROVENTIAN		
 Shared Libraries 		DB2UNIVERSAL JUBC DRIVER INATIVEPATH		Node=51A1INI5_WASC
Replication domains Naming		DB2UNIVERSAL JDBC DRIVER PATH		Node=STATINIS_WAS
		DB2 JDBC DRIVER PATH		Node=STATINIS_WAS6
E Users and Groups		DEPLOY TOOL ROOT	\${WAS_INSTALL_ROOT}/deploytool/itp	Node=STATINIS_WAS6
Monitoring and Tuning		DERBY JDBC DRIVER PATH	\${WAS_INSTALL_ROOT}/derby/lib	Node=STATINIS_WAS
Troubleshooting		DRIVER PATH	\${WAS_INSTALL_ROOT}	Node=STATINIS_WAS6
E Service integration		INFORMIX JDBC DRIVER PATH		Node=STATINIS_WAS
E UDDI		JAVA HOME	/QIBM/ProdData/WebSphere/AppServer/V61/Express/java	Node=STATINIS_WAS6
		JVM_CACHE		Node=STATINIS_WAS
		LOG_ROOT	\${USER_INSTALL_ROOT}/logs	Node=STATINIS_WAS
		MICROSOFT JDBC DRIVER NATIVEPATH		Node=STATINIS_WAS
		MICROSOFT IDBC DRIVER PATH		Node=STATINIS_WAS(
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		ORACLE JDBC DRIVER PATH		Node=STATINIS_WAS6
		OS400 NATIVE JDBC DRIVER PATH		Node=STATINIS_WAS6
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1. Click on OS400 NATIVE JDBC DRIVER PATH

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Applications	Use this page to define substituti	ion variables. Variables specif	y a level of indirection for some	informati	on, select a
Resources	either server, node, cluster, or co	ell. Values at one scope level	can differ from values at other	cn is field labe levels. marker w	l or list
E Security	When a variable has conflicting s	cope values, the more granul	ar scope value overrides values	at cursor ap	ppears.
P Environment	greater scope levels. Therefore, s variables, which override cell vari	server variables override node ables.	e variables, which override clust	er Baco bo	
Virtual Hosts	Configuration			More info	ip prmation
 Update global Web server plug-in configuration 	Configuration			about th	is page
WebSphere Variables	General Properties				
Shared Libraries	* Name				
Replication domains	OS400_TOOLBOX_JDBC_DRIV	VE			
H Naming	Waltree				
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- Type in the absolute path to the JDBC Driver path on the iSeries server. Path: /QIBM/UserData/Java400/ext
 Click Apply to apply the configuration
 Click Save to save the configuration

4.6 Test the Connection

After creating the data source, the next step is to test the connection just to make sure that it was created properly and it is working.



- 1. Expand Resources
- 2. Expand JDBC
- 3. Click on Data Sources

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Applications	vour a	is page to edit the	ie settings of a data innections for acces	source that is associated with your selected JDBC sing the database. Learn more about this task in a	provider. The quided activit	v. A guided act	bject supplies
E Resources	a list o	f task steps and	more general inform	ation about the topic.		÷	
Schedulers	E Sco	pe: Cell=STATIN	S_WAS61PROD, No	ode=STATINIS_WAS61PROD, Server=WAS61PROD			
Object pool managers	s	cope specifies th	e level at which the	resource definition is visible. For detailed information	on on what sc	ope is and	
I JMS	h	ow it works, see	the scope settings I	help			
E JDBC		Node=STATINIS	WAS61PROD, Server	r=WAS61PROD			
Data sources							
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El Asynchronous beans	Select	Name O	INDI name 0	Scope 0	Provider 0	Description C	Category 0
E Mail		DB2 UDB doer	= idbc/dms_dev	Node-STATINIS WASSIPPOD Server-WASSIPPOD		New IDBC	category v
⊞ URL		iSeries	= jube/ dills_dev		for iSeries	datasource	
Resource Environment		(Toolbox)			(Toolbox)		
E Security		Default	DefaultDatassurse	Nede-CTATINIC WASSIDDOD Server-WASSIDDOD	Darby IDDC	Datassursa	
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Users and Groups						Application	
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- Tick the "DB2 UDB doer iSeries (Toolbox) DataSources" driver
 Click the Test Connection button

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A successful connection will return the message above.

5.0 DEPLOYING THE DMS EAR

This section describes the steps to deploy EAR file on the application server.

Overview

EAR can be deployed on the application server in two (2) scenarios viz., while installing application for the first time and while installing subsequent patches/releases.

Prerequisite

Access to the Administrator console at https://192.168.0.19:11002/ibm/console

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Welcome, enter your information. User ID: Log in Note: After some time of inactivity, the system will log you out automatically and ask you to log in again.	
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5.1 Deploying the Application

The following steps explain how to install application for the first time.

1. Login to the Administrator Console (Section 4.1)



- 2. Expand Applications
- 3. Click on Install New Application.
- 4. Select the location of the DMS EAR file to deploy.
- 5. Click Next



6. Click **Next** to continue.

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Welcome	Install New Application				
E Guided Activities					
Servers	Specify options for install	ing enterprise applica	tions and modules.		
Applications	<u>Step 1</u> Select	Map modules to	servers		
Enterprise Applications Install New Application	installation	Specify targets s	uch as application se	ervers or clusters of application servers where you wa	ant to install the mo
	-> Chan De Man	contained in your	application. Modules	s can be installed on the same application server or d	ispersed among sev
E Resources	modules to	file (plugin-cfg.xn	offy the Web server of) for each Web server	s as targets that serve as routers for requests to this ver is generated, based on the applications that are r	outed through.
# Security	servers	Servers Clusters and Servers:			
System administration	Step 3	Step 3 WebSphere:cell=STATINIS_WAS61PROD,node=STATINIS_WAS61PROD,server=WAS61PROD WebSphere:cell=STATINIS_WAS61PROD_pade=STATINIS_WAS61PROD_server=HS_WAS61P			
Users and Groups	Summary				
Monitoring and Tuning				The second s	
Troubleshooting		Select Module	URI	Server	
Service integration		DMSWeb	DMSWeb.war,WEB- INF/web.xml	WebSphere:cell=STATINIS_WAS61PROD,node=STAT	FINIS_WAS61PROD,
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7. Click **Next** to continue.

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View: All tasks	Step 2 Map modules to servers	Options	Values		
Guided Activities	→ Step 3: Summary	Precompile JavaServer Pages files	No	Help _	
Servers Applications		Directory to install application		Field help For field help	
 Enterprise Applications 		Distribute application	Yes	field label or list	
Install New Application		Use Binary Configuration	No	marker when the help cursor appears.	
E Security		Deploy enterprise beans	No	Page help More information	
Environment		Application name	DMSEar	about this page	
System administration Users and Groups		Create MBeans for resources	Yes	Command Assistance	
Monitoring and Tuning		Enable class reloading	No	View administrative	
Troubleshooting		Reload interval in seconds		scripting command for last action	
Service integration		Deploy Web services	No		
E UDDI		Validate Input off/warn/fail	warn		
		Process embedded configuration	No		
		File Permission	.*\.dll=755#.*\.so=755#.*\.a=755#.*\.sl=755		
		Application Build ID	Unknown		
		Allow dispatching includes to remote resources	No		
		Allow servicing includes from remote resources	No		
		Cell/Node/Server	Click here		
		No application modul configuration file (plugin based on the application Web server will route re option, select the Map r	es were mapped to Web servers. The plug-in -cfg.xml) for each Web server is generated modules which are mapped to it, therefore no quests to this application. To change this modules to servers step.		
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8. Click the **Finish** button.

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Integrated Solutions Console Welcome admin	Help Logout	IBM.
View: All tasks	Installing	
Welcome		
E Guided Activities	If there are enterprise beans in the application, the EJB deployment process can take several minutes. Please do not save th configuration until the process completes.	je
E Servers		
Applications	Check the SystemOut log on the Deployment Manager or server where the application is deployed for specific information about the EJB	
Enterprise Applications	deployment process as it occurs.	
Install New Application	ADMA5016I: Installation of DMSEar started	
Resources		
Security	ADMA5067I: Resource validation for application DMSEar completed successfully.	
Environment		
System administration	ADMA5058I: Application and module versions are validated with versions of deployment targets.	
E Users and Groups	ADMA50051: The application DMSEar is configured in the WebSphere Application Server repository	
Monitoring and Tuning		
■ Troubleshooting	ADMA5053I: The library references for the installed optional package are created.	
E Service integration		
E UDDI	ADMA5005I: The application DMSEar is configured in the WebSphere Application Server repository.	
	ADMA5001I: The application binaries are saved in /QIBM/UserData/WebSphere/AppServer/V61/Express/profiles/WAS61PROD/wstemp/92668751/workspace/cells/STATINIS_WAS61PROD/	applicati
	ADMA5005I: The application DMSEar is configured in the WebSphere Application Server repository.	
	SECJ04001: Successfuly updated the application DMSEar with the appContextIDForSecurity information.	
	ADMA5011I: The cleanup of the temp directory for application DMSEar is complete.	
	ADMA5013I: Application DMSEar Installed successfully.	
	Application DMSEar installed successfully.	
	To start the application, first save changes to the master configuration.	
	Changes have been made to your local configuration. You can:	
	 <u>Save</u> directly to the master configuration. 	
	<u>Review</u> changes before saving or discarding.	
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9. Click on "Save to Master Configuration" hyperlink.

5.2 Configure Source Database and Library



- 3. Click on Data Sources
- 4. Click on DB2 UDB doer iSeries (Toolbox) Datasource

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Applications		Application	informa field lab
Resources	* Name	Source	marker
Schedulers	DB2 ODB doer iseries (Toolbox) DataSources	properties	cursor :
Object pool managers	JNDI name	= Custom	Page h
I JMS	= Jabc/ams_dev	properties	More in
= JDBC Providers	Use this data source in container managed persistence (CMP)	×	about t
Data sources	Description		
 Data sources (WebSphere 	New JDBC datasource	Related Items	
Application Server V4)		= JAAS - J2C	
Resource Adapters		authentication	
Asynchronous beans		uata	
변 Cache Instances 된 Mail	Category		
Resource Environment	Data store helper class name		
E Security	Select a data store helper class		
# Environment	Data store helper classes provided by WebSphere Application Server		
Environment	DB2 for iSeries data store helper		
	(com.ibm.websphere.rsadapter.DB2AS400DataStoreHelper)		
Courses and Groups	O Specify a user-defined data store helper		
Monitoring and Tuning	Enter a package-qualified data store helper class name		
H Troubleshooting			
Service integration			
I UDDI	Component-managed authentication alias		
	Component-managed authentication alias		
	STATINIS_WAS61PROD/dmsuser		
	Container-managed auther tication		
	Container-managed authentication alias (deprecated in V6.0, use resource		
	(none)		
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5. Click on **Custom Properties**



6. Scroll down until you find the row item name databaseName. Click on it



- 7. Enter the serial # of the DB2 database i.e. **S106c702** exactly as written.
- 8. Click Apply
- 9. Click Save.



10. Scroll down until you find the row item name libraries. Click on it.



- 11. Enter the name of the database schema you want the application to point to. In this setup we are pointing the application to **DMSPROD**
- 12. Click Apply
- 13. Click Save

5.3 Configuring Required DMS Application Folders

The DMS application uses several folders to store configuration files as well as application data. These folders are critical in the startup of the application as well as saving information generated in the application. Some of the folders are created during the deployment of the application while the rest must be manually created. In this section, we will be focusing on the folders that have to be created manually.

The location and path of these folders are to be stored on the iSeries server. They are to be placed under the /QIBM folder in any folder of choice. The folder paths can be configured as the situation demands. It is important to note the path to these folders because they will be used in manually configuring the DMS Application Startup files later on.

In this exercise, we will be using the folder path for the Production environment. Using Windows Explorer you can create the following folders or copy them from a backup.

Path	Description
/QIBM/PROD61	Folder location for the data created by the DMS application in the production environment.
/QIBM/PROD61/DMSLOGS	Stores the log files generated daily. File is used to identify and track errors produced by the application.
/QIBM/PROD61/FSLWS	
/QIBM/PROD61/FSLWS/C87ZipStore	Used to store compressed Trade files downloaded from the Data Delivery Web Service hosted at Fiscal Services Ltd.
/QIBM/PROD61/FSLWS/KeyStore	It also stored the configuration file statinprod.keystore used to connect to the service
/QIBM/PROD61/statinproddata2	Stores data files for uploading for all modules of the DMS Application. It stores files for CREU, Trade and Demography. (Surveys and Media Clippings applications do not have files in need of uploading into the application.)
The ellipse () will be used to represent the particular the particular terms of term	ath "/QIBM/PROD61/statinproddata2"
/trade/error/ /trade/loaded/ /trade/source/	Stores uncompressed XML data files used to upload data into the Trade Module. The loaded folder holds files that have been successful loaded.
/creu/refresh/ /creu/error/ /creu/loaded/ /creu/prospectforms/ /creu/source/	
/Demography/birth/error/ /Demography/birth/loaded/ /Demography/birth/source/	
/Demography/death/error/ /Demography/death/loaded/ /Demography/death/source/	
/Demography/divorce/error/ /Demography/divorce/loaded/ /Demography/divorce/source/	

/Demography/marriage/error/	
/Demography/marriage/loaded/	
/Demography/marriage/source/	
/Demography/movement/error/	
/Demography/movement/loaded/	
/Demography/movement/source/	
/gct/error/	
/gct/loaded/	
/gct/source/	

5.4 Configure DMS Application System Files

When the application is deployed, the configuration files are updated automatically. However, the difference in the developers' environment and STATIN iSeries' environment will render the application inoperable. This difference is primarily due to the file path location of the configuration files.

One approach in getting around this is to make a backup copy of all configuration files in the production environment before deploying the new or updated release of the DMS. This is followed by manually copying each file from the backup overwriting the new release.

If there are changes to the configuration files that must be made, the release instructions will state which file is to be changed and the changes that are to be implemented. This can be used to configure the local configuration files with the new changes.

CLASSES FOLDER

Item	Description
Filename	log4j.properties
Path	QIBM\UserData\WebSphere\AppServer\V61\Express\profiles\WAS61PROD\installedApps\
	STATINIS_WAS61PROD\DMSEar.ear\DMSWeb.war\WEB-INF\classes
Purpose	Configures the name and file location of the DMS Application log file
Changes	1. Update the path to reflect "/QIBM/PROD61/DMSLOGS"
	e.g. log4j.appender.r.File=/QIBM/PROD61/DMSLogs/DMSLog.log
Filename	sddws-client.properties
Path	QIBM\UserData\WebSphere\AppServer\V61\Express\profiles\WAS61PROD\installedApps\
	STATINIS_WAS61PROD\DMSEar.ear\DMSWeb.war\WEB-INF\classes
Purpose	Configures the file path where to store the downloaded XML files and the location of the
	keystore file used to access the Data Delivery Web Service.
Update	1. ZipStore Location: Update the path to reflect "/QIBM/PROD61/FSLWS/C87ZipStore"
	e.g. c87_zip_store_folder=/QIBM/PROD61/FSLWS/C87ZipStore
	2. KeyStore Location: Update the path to reflect
	"/QIBM/PROD61/FsIWS/Keystore/statinprod.keystore"
	e.g. client_keystore=/QIBM/PROD61/FsIWS/Keystore/statinprod.keystore

RESOURCES FOLDER

Filename CreuData.odu/properties Path VolBMUse0DatwiseSphereVxpServerViG1Express/profiles/WAS61FPRODUnistalindApps/ STATINIS_WAS61PRODUNISEar earDMSWeb war/WEB-INPclasses/dmsweb/resources Purpose Configures the File location of Excel files to load into the CREU Module Update 1. Update the parameters to reflect the following path location: GCT_SOURCEDIR = /OIBM/PROD61/statinproddata2/gct/source/ GCT_MOVEDIR = /OIBM/PROD61/statinproddata2/gct/source/ GCT_MOVEDIR = /OIBM/PROD61/statinproddata2/gct/env/source/ CREUEXCEL_SOURCEDIR = /OIBM/PROD61/statinproddata2/creu/rosource/ CREUEXCEL_SOURCEDIR = /OIBM/PROD61/statinproddata2/creu/rosource/ CREUEXCEL_FORREFRESH = /OIBM/PROD61/statinproddata2/creu/rospectorms/CREU_No_ Filename DemoData.od_properties Path VolBM/UserDataWebSphereVxpServer/V61Express/profiles/WAS61PROD/InstalledApps/ STATINIS_WAS61PRODDMSEar earDMSWeb.war/WEE.INFvlasses/dmsweb/resources Purpose Configures the File location of Excel files to load into the Demography Module Update 1. Update the parameters to reflect the following path location: WARRIAGEELECTRONICLOAD_SOURCEDIR=/OIBM/PROD61/statinproddata2/Demography/marriage/source/ MARRIAGEELECTRONICLOAD_SOURCEDIR=/OIBM/PROD61/statinproddata2/Demography/death/source/ MARRIAGEELECTRONICLOAD_MVEDIR=/OIBM/PROD61/statinproddata2/Demography/death/source/ DEATHELECTRONICLOAD_SOURCEDIR=/OIBM/PROD61/statinproddata2/Demography/death/source/ DEATHELECTRONICLOAD_SOURCEDIR=/OIBM/PROD61/statinproddata2/Demography/death/source/ DEATHELECTRONICLOAD_SOURCEDIR=/OIBM/PROD61/statinproddata2/Demograp	Item	Description
Path \QUBMUserDataWebSpherek/p5erver/V61Express/profiles/WA561PROD/WissalledAppsA Purpose Configures the File location of Excel files to load into the CREU Module Update 1. Update the parameters to reliect the following path location: GCT_SOURCEDIR = /QIBM/PROD61/staitinproddata2/gct/source/ GCT_MOVEDR = /QIBM/PROD61/staitinproddata2/gct/source/ GCT_MOVEDR = /QIBM/PROD61/staitinproddata2/gct/source/ GCT_ERORDIR = /QIBM/PROD61/staitinproddata2/gct/source/ GCREUEXCEL_SOURCEDIR = /QIBM/PROD61/staitinproddata2/creu/source/ CREUEXCEL_BORDIR = /QIBM/PROD61/staitinproddata2/creu/source/ CREUEXCEL_FORREFRESH = /QIBM/PROD61/staitinproddata2/creu/prospectforms/CREU_NO_ Filename DemoDataLoad_properties Purpose Configures the File location of Excel files to load into the Demography Module Purpose Configures the File location of Excel files to load into the Demography Module Purpose Configures the File location of Excel files to load into the Demography Module Update 1. Update the parameters to reflect the following path location: MARRIAGEELECTRONICLOAD_SOURCEDIR=/QIBM/PROD61/staitinproddata2/Demography/marriage/source/ MARRIAGEELECTRONICLOAD_SOURCEDIR=/QIBM/PROD61/staitinproddata2/Demography/marriage/source/ MARRIAGEELECTRONICLOAD_MOVEDIR=/QIBM/PROD61/staitinproddata2/Demography/death/source/ DEATHELECTRONICLOAD_MOVEDIR=/QIBM/PROD61/staitinproddata2/Demography/death/source/ DEATHELECTRONICLOAD_DRUCEDIR=/QIBM/PROD61/staitinproddata2/Demography/death/source/ DEATHELECTRONICLOAD_MOVEDIR=/QIBM/PROD61/staitinproddata2/Demography/death/source/ DEATHELECTR	Filename	CreuDataLoad.properties
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schema=DMSPROD	Updates	1. Sets the schema the DMS application must use
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	 Configures how long the user can login without being automatically logged out of the DMS application. This is different from the WebSphere Application Server login time which must be set using the Administrator console. If both are not set properly, users may be logged out of the system by either. MaxInactiveInterval =90 Sets the total number of records to be displayed on a page. pagesize=30 Sets the total records to return after a search. maxRecordSearch = 500 	
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	to the DMSTEST or DMSPROD database.	
Update	1. Variable used to decide whether to load Export Data or not. EXPORTDATALOAD = YES	
	 Variable used to decide whether to load REExport Data or not. REEXPORTDATALOAD = YES 	
	 Variable used to decide whether to run the loading program or not. LOADFLAG = NO 	
	 Variable used to decide whether to run trade validation program or not. TRADEVALIDATIONFLAG = NO 	
	5. Name of the schema SCHEMANAME = DMSPROD	
	6. SOURCEDIR = /QIBM/PROD61/statinproddata2/trade/source/ MOVEDIR = /QIBM/PROD61/statinproddata2/trade/loaded/ ERRORDIR = /QIBM/PROD61/statinproddata2/trade/error/	

5.5 STARTING THE DMS APPLICATION

🖉 Integrated Solutions Console - Microsoft Internet Explorer provided by Statistical Institute of Jamaica						
G → E http://192.168.0.19:11001/bm	console/login.do		✓ +→ ×	Live Search		
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🔶 🔅 🗑 🖌 🍘 HTTP Server Administr 🌘	Integrated Solution ×		☆ - ⊳ -	💼 🔹 🔂 Eage 🕶 🍈 Tools 👻 🎽		
Integrated Solutions Console Welcome admin Help Logout Help Logout						
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Enterprise Applications	Chart Char	Tankall I the second of the second	Demous Cite	Funct DDI		
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- Expand Applications
 Click on Enterprise Applications

Integrated Solutions Console - Microso	off Internet Explorer provided by Statistical Institute of	i Jamaica 📃 🗗 🗙
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Integrated Solutions Console Welcome admin		Help Logout
View: All tasks	Enterprise Applications	Close page
Welcome	Enterprise Applications	2
Guided Activities	Enterprise Applications	
Servers	Lise this name to manage installed applications A single	annication can be deployed onto multiple servers
Applications	Profecences	
Enterprise Applications Install New Application	Start 9ton Install Uninstall Undate B	ollout Update Remove File Export Export DDI Export File
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The page will refresh showing the status of the application. A green arrow indicates a successful start. The application is now available to receive and process requests.

Note: You can use this interface to **Stop** the application.

5.6 Test the application

Before testing the DMS application, the application server has to be restarted. This has been detail in the section Start and Stop the Application Server.



- 1. Type the following in the browser address bar: <u>http://192.168.0.19:11001/dms</u>
- 2. Enter your username and password
- 3. Click the Login button



6.0 DEPLOYING AN UPDATE TO THE DMS APPLICATION

Updates to the DMS application may vary in the way it is to be deployed, depending on the nature of the problem it is intended to fix. Some updates may require copying and replacing certain files, while another may require re-deploying the whole application. Updates may require restarting the WebSphere Application Server (WAS) or restarting the DMS Application. The email containing the instructions will indicate how the update is to be deployed and what actions should be taken.

Most updates received have to do with updating files associated with the DMS application. Below is an example of an update received to be implemented along with the actions taken to complete the update.

Hi Boyd,

We have done some troubleshooting to find the root cause of the issue with loosing data in Export entries. We are thinking about TWO possible causes. Considering the first possible cause; we have made some changes in the application. I am sending you updated files and their location on iSeries server. I need your help in replacing these files, with the help of following steps:-

File	Location
struts-config.xml	INSTALLDIR/WebContent/WEB-INF
InitialC87EntryForm.class	INSTALLDIR/WEB-
	INF/classes/org/caribsoft/dms/web/trade/form
entrySearch.jsp	INSTALLDIR/WebContent/jsp/trade/fileMaintenance

INSTALLDIR:

/QIBM/userdata/websphere/appserver/v6/profiles/default/installedapps/DMSEar.ear/DMSWeb.war

Steps:-

- 1. Stop the WAS Server
- 2. Get the **backup** of following file (Refer to the above table for location)
 - a. Struts-config.xml
 - b. InitialC87EntryForm.class
 - c. entrySearch.jsp
- 3. Copy updated files (attached with the mail) to the same location.
- Start the WAS

Please copy these files in the morning and let me know if this works or not. If NOT then I'll make another change to the application and will send you changed files to replace.

Note:

I can be contacted @ +1-262-252-8655. Feel free to call me anytime.

This update involves replacing some files with updated ones. The nature of this update requires the WAS to be restarted.

Step	Action	Note
1. Stop the WAS Server	Go to Section 3.2 of this manual on	Be sure to inform everyone to log
	now to stop the server	out of the application
2. Backup Files	Go to each location in the table above and make a backup copy of each file.	This step is critical in case there is a need to roll back to the previous files.
3. Copy updated files	Copy the new files received to the location specified.	
4. Start the WAS Server	Go to Section 3.1 of this manual on how to start the server	Inform everyone that they can now log back into the application.

Not all updates are this simple to execute. Some may require making changes to the database which involves executing SQL scripts via the iSeries Navigator interface. Still, others may require changing the system configuration of WAS or the DMS application using the WAS Administrator Console. If the instructions received are not clear, always seek further clarification.

7.0 RESOLVING ERRORS IN THE DMS APPLICATION

As with any system, errors will appear from time to time. While the developers craft the system from information and data received, not every situation will be foreseen nor can be coded. Using a system not only requires knowledge of its functions and features but also how to handle errors. Below are the three main types of errors with examples.

7.1 User Error - Duplicate Records in Trade Module

The Problem:

A user was asked to edit an entry in the Final area. The user copied the entry from the Final are to the Initial area. While performing the action, the user was logged out of the system by the application. After the user logged in, the copy action was repeated. When the user searched the Initial area for the entry, two identical entries were found. User is unable to determine which entry to edit. Below is a picture of the error.

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Problem Analysis:

Two entries were found indicating that there were duplicates in the database. However, the system does not facilitate duplicate records. How is this possible? Although two entries were found when the search was done, the entries were not in essence duplicates because both entries had different record ids. When an entry is copied from Final to Initial or from Error to Initial, the entry is given a new record id (i.e. HEADERROWID).

The problem occurred because the user was disconnected from the system by the application. The root cause of the problem is certainly with the application but the duplicate records could have been avoided by the user.

Solution:

If the user is logged out of the system while performing some action, the first course of action after logging back in is to check to see if the action was completed. The user could have searched for the entry, and would have found that the system had copied it successful. They then would not have repeated the copying process thereby creating duplicate entries.

7.2 Application Error – Automatic disconnection

The Problem:

Several application problems have occurred that have proven disruptive in the use of the system. User have reported that they have been automatically logged out of the system, data entered on forms is lost after saving an entry and some forms are displayed with missing fields.

The image below displays an error message after saving an entry. All the form data is lost and blank fields are shown. An error message is displayed requesting the user to enter data that was already saved.



This image displays the form for Manual Custom Entry but as can be seen, some fields are missing or truncated.

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Problem Analysis

It is still uncertain what causes these problems. It is mostly experienced by users doing manually entry of Export data, correction of Import data and sometimes by users of the CREU module. Data collected from one user sees this problem occurring during the busiest time of the business day (early morning or late afternoon).

Isolating the problem is proving to be a challenge. The problem could be with the logic behind the application, unknown issues with the WebSphere environment as well as activities happening on the network at the same time or local issues with the user computer.

Solution:

A solution that provides temporary ease from the problem is to

- 1. Quite the DM application by logging out of it (if that is possible)
- 2. Flush the browser cache then close the browser
- 3. Open the browser then log back in
- 4. Search for the entry and continue data entry from that point.

7.3 Data Error – Validation Fails

The Validation process is critical to correcting data in the DMS. It contains the business rules that maintain the quality and the integrity of the data that can be stored in the DMS. These rules can be enforced or relaxed when necessary. During the validation checks, sometimes the data does not meet expected quality checks and these discrepancies can stop the Validation process.

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When the process is halted, the logs have to be checked to determine which record caused the problem. The logs indicate the date and time of the error along with information on the particular record and the nature of the error.

The steps to identify these errors are:

- 1. Search the DMS Log for the last record that was being processed by the validation routine
- 2. Search the DMSErr Log for the same record
- 3. Identify the HeaderRowld of the record from the logs
- 4. Using MS Access open the IntialEntryHeader table
- 5. Use a query and find the record with the id found in step 3
- 6. Check the entry for any improperly formatted data
 - e.g. Payment date may have an "o" instead of zero "0" "10/04/20o8" CIF Value may contain two decimal points – "1567346..45"
- 7. Make the corrections and save the record.
- 8. Re-run the validation

The steps below were used to resolve an error which stopped the validation process. This can be used as a guide in resolving most data related validation issues.

STEP 1

Navigate to the SystemErr.log file in the /QIBM folder on the iSeries server. The path is Z:\UserData\WebSphere\AppServer\V61\Express\profiles\WAS61PROD\logs\WAS61PROD"



Make a copy of the SytemErr.log file and open it with MS WordPad application. Scroll through the file making note of date and time or exception errors found. In the image below, a Number Format exception error is identified. A number (549.64) is also given and the error occurred at 12/23/08 at 11:56:28.

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Navigate using Windows Explorer to the directory location of the DMSLog.log file on the iSeries. The path is "Z:\PROD61\DMSLOGS"

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Make a copy of the DMSLog.log file and open it with MS WordPad application. Scroll through the file looking for the same date and time of the error identified in STEP 2 above. Notice that the error in the DMSLog.log file occurred at he same date and time as the error identified in the SystemErr.Log file with the same number, **549.64**.

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Scroll above and look for the line containing the INITIALHEADERROWID. This will identify the record where the data is in error. In the image below, the HEADERROWID is 86043

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Open MS Access and connect to the DMSPROD database schema on the iSeries server.

Using a query, search the INITIALINVROWID column of the INITIALENTRYINV table for the record with record id **86043**.

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In this instance, the problem is immediately identified. The column ENTRYINVOICEAMOUNT has a value that is not formatted properly. The dollar figure has two decimal points.

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