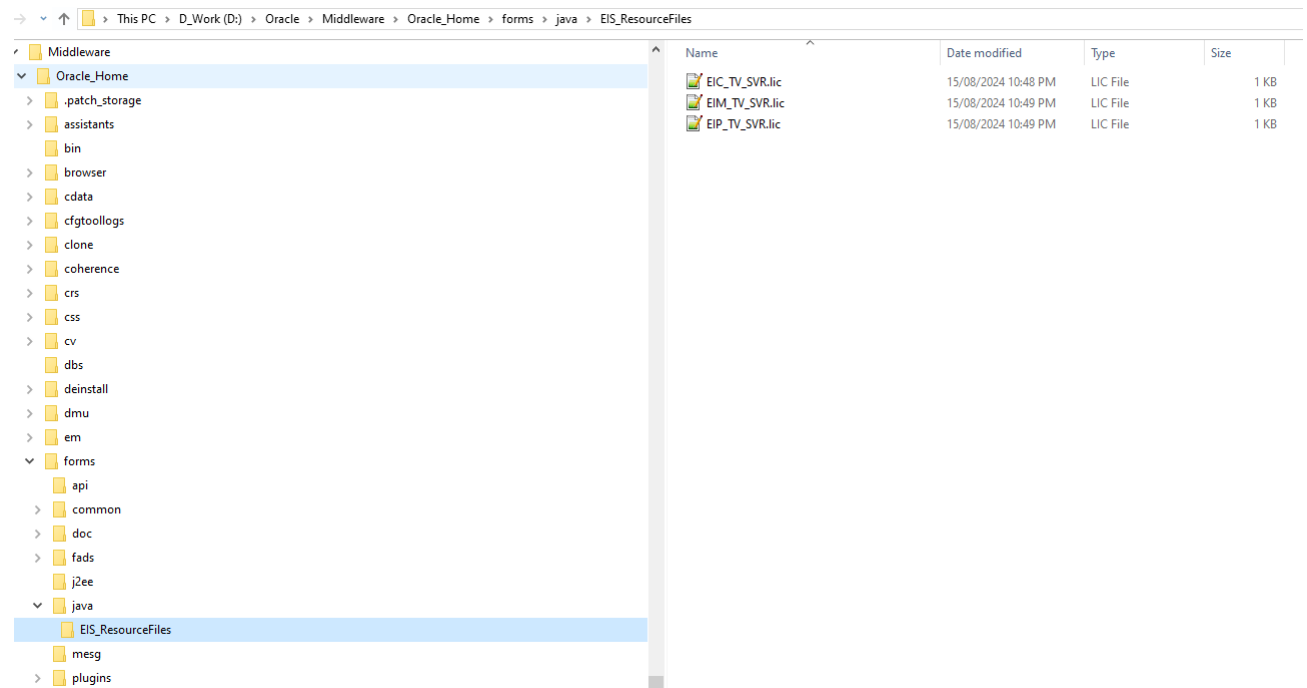


Ezy Image Capture, Ezy Image Manager & Ezy Image Print

Java Bean Version (v2024.8) for Oracle Forms technology

Deployment Guide

- Unzip **EIC_EIM_EIP_Bean_V2024_8.zip** into a temporary folder and copy ALL the JAR files into the **\$ORACLE_HOME/forms/java** folder location on your Oracle Application Server (WebLogic Application Server).
- Copy the **'EIS_ResourceFiles'** folder into your **\$ORACLE_HOME/forms/java** folder on your Oracle Forms Application Server's folder. You should have a directory structure similar to the diagram below for Windows environment:



You will reference files within **'EIS_ResourceFiles'** folder using the Oracle Forms Java JAR files Virtual Path through the environment variable below within your **'formsweb.cfg'** file. Example:

LB_EIS_RESOURCES_URL=http://192.168.1.188:9001/forms/java/EIS_ResourceFiles

Modify the above environment variable within your respective file to suit your Application Server environment.

NOTE: If you upgrade Oracle Forms/Reports software on your Application Server, ensure that you backup this folder before the upgrade process, and then copy **'EIS_ResourceFiles'** backup folder into your new installation environment again after the upgrade process, in case it does not exist.

You will find the relevant Application Server License files within this 'EIS_ResourceFiles' folder. For example, for Ezy Image Capture, Manager and Print Trial Licenses, you should have:

- EIC_TV_SVR.lic
- EIM_TV_SVR.lic
- EIP_TV_SVR.lic

These License files are required by Ezy Image Capture, Manager and Print Software License Validation process during the Oracle Forms application startup routine to ensure that the server that is running our software has been verified correctly to allow proper functioning of all API calls to the Java-side component. Without these critical files, an Error Alert will be displayed that will disallow your application from going any further and will be terminated.

- Include JAR filenames into the "archive" parameter in the **formsweb.cfg** file (sample provided) under **EIC_EIM_EIP_Bean** Config section, or whichever Config section that you are creating for your Forms application.

Example:

```
archive=frmall.jar, LB_EIC_Bean.jar, LB_EIM_Bean.jar, LB_EIP_Bean.jar,  
jai_core.jar, jai_imageio.jar, jai_codec.jar, thumbnailator-0.4.8.jar, imgscalr-  
lib-4.2.jar, joda-time-2.7.jar, ojdbc6.jar, morena.jar, morena_windows.jar,  
morena_license.jar, commons-net-3.6.jar, jdeli.jar
```

PLEASE ensure that 'archive' parameter MUST all be in ONE Line & NOT as listed above, which is ONLY provided for documentation purposes.

NOTE: There MUST ONLY be 1 reference to the latest version of Ezy Image Capture JAR File (LB_EIC_Bean.jar), Ezy Image Manager JAR File (LB_EIM_Bean.jar) and Ezy Image Print JAR File (LB_EIP_Bean.jar) for the 'archive' parameter for your Config section.

ALL our JAR files have been securely signed with LongBridge's Trusted Certificate from Sectigo.

Within ALL our NEW Software Licenses for ANY of our Ezy Imaging Suite components, the Servlet Parameters are now specified within **formsweb.cfg**, as well as the corresponding deployment type file that is used to run your Oracle Forms application.

We have provided samples of **formsweb.cfg**, **EIS_baseaaa.txt** & **EIC_EIM_EIP_FSAL_Demo.bat** (for **Forms Standalone Launcher deployment**), **basejpi_EIS.htm** (for **standard Web Browser deployment**), as well as **default.env**.

For any other deployment types, just adapt the changes accordingly as needed to match any one of FSAL or Java Plug-In (JPI) as provided above.

The Servlet Parameters (bolded) for Trial/Evaluation Version are listed within the 'USER PARAMETERS' section in **formsweb.cfg** right below the line:

```
#Setting separate_jvm=true is required for audio support
separate_jvm=false

# NEW Servlet Parameters
# =====
# Specifies whether or not the Forms activity bar (also known as progress bar) should
# be hidden. NEW - 12.2.1.4
hideActivityBar=true
#
# Ezy Imaging Suite Servlet Parameters
# -----
EIS_LICENSEE=LongBridge Consulting
EIS_RESOURCES_URL=http://192.168.1.188:9001/forms/java/EIS_ResourceFiles
EIS_PRINT_SVR_INFO_MSGS=Y
EIS_DEL_TEMP_FILES=Y
EIS_DEFAULT_RESOLUTION=150
#
# For Oracle D/B Server Documents Repository
# -----
EIS_DB_HOST=192.168.1.188
EIS_DB_PORT=1521
EIS_DB_INSTANCE=ora19
#
# Ezy Image Capture Servlet Parameters
# -----
EIC_PRODUCT_KEY=iyN0oUnVktS0+pDg9QUppBTwy4ig1D3BqWnX8H3tUhnKEXBAEe61dysOOjbIbDcF
EIC_SHOW_UI_WIDGETS=Y
EIC_GET_DEFAULT=Y
#
# Ezy Image Manager Servlet Parameters
# -----
EIM_PRODUCT_KEY=iyN0oUnVktS0+pDg9QUppDn21drstrPECZapMXaXsIa+/W4ecJvPWaVEgJj75qyc
EIM_SHOW_UI_WIDGETS=Y
#
# Ezy Image Print Servlet Parameters
# -----
EIP_PRODUCT_KEY=iyN0oUnVktS0+pDg9QUppHGbNK58IgJmoJcNVdU8PPidUuSUC3XuvUcbGf2Qt3
```

PLEASE ensure that each Environment variable is on ONE Line.

NOTE: Change the values highlighted in **CYAN to suit your own Server environment.**

The ONLY change needed within **default.env** to suit your own Server environment is within the following line, highlighted in **CYAN**:

```
# Search path for Forms applications (.fmx files, PL/SQL libraries)
#
FORMS_PATH=D:\Oracle\Middleware\Oracle_Home\forms;D:\Oracle\Middleware\Oracle_Home\user_projects\domains\base_domain\config\fmwconfig\components\FORMS\instances\forms1;D:\LB_EzySolutions\Runtime
```

NOTE: Change the values highlighted in **CYAN to suit your own Windows Server environment, as well as the Folder Drive, where in our case we have installed the Oracle Middleware software within 'D' Drive.**

For **Forms Standalone Launcher Deployment** file, **EIS_baseaaa.txt**, which has been provided as a sample, following are the lines which needs to be added to your own **baseaaa.txt** if you are going to use this deployment method to run your Oracle Forms application, which is highly recommended by **LongBridge Consulting**, as it is the fastest deployment mechanism that we have found, and is also NOT dependent on the Web Browser any longer:

```
# NEW - 12.2.1.4
hideActivityBar=%hideActivityBar%

# EIS Servlet Parameters
EIS_LICENSEE=%EIS_LICENSEE%
EIS_RESOURCES_URL=%EIS_RESOURCES_URL%
EIS_PRINT_SVR_INFO_MSGS=%EIS_PRINT_SVR_INFO_MSGS%
EIS_DEL_TEMP_FILES=%EIS_DEL_TEMP_FILES%
EIS_DEFAULT_RESOLUTION=%EIS_DEFAULT_RESOLUTION%

# D/B parameters
EIS_DB_HOST=%EIS_DB_HOST%
EIS_DB_PORT=%EIS_DB_PORT%
EIS_DB_INSTANCE=%EIS_DB_INSTANCE%

# EIC Servlet Parameters
EIC_SHOW_UI_WIDGETS=%EIC_SHOW_UI_WIDGETS%
EIC_PRODUCT_KEY=%EIC_PRODUCT_KEY%
EIC_GET_DEFAULT=%EIC_GET_DEFAULT%

# EIM Servlet Parameters
EIM_SHOW_UI_WIDGETS=%EIM_SHOW_UI_WIDGETS%
EIM_PRODUCT_KEY=%EIM_PRODUCT_KEY%

# EIP Servlet Parameter
EIP_PRODUCT_KEY=%EIP_PRODUCT_KEY%
```

Kindly ensure that these lines have a corresponding match in **formsweb.cfg**. The values specified in this file is substituted during runtime to derive each servlet parameter's value.

NOTE: For Windows platform, 'baseaaa.txt' is typically found in:

D:\Oracle\Middleware\Oracle_Home\user_projects\domains\base_domain\config\fmwconfig\components\FORMS\instances\forms1\server

(Drive D: could be C:\ or any other Drive within your environment where you have installed Oracle Middleware software)

For UNIX/Linux platforms, it should be in a similar sub-folder path as listed above, i.e. **\$FORMS_INSTANCE/server**

For standard **Web Browser Deployment** file, **basejpi_EIS.htm**, which has been provided as a sample, that uses the Java Plug-In, following are the lines (bolded) which needs to be added into this file if you are going to use this deployment method to run your Oracle Forms application.

The first section below, within the '**<OBJECT>**' Tag, would have the corresponding entries as listed within **formsweb.cfg**, as follows:

```
<!-- Forms applet definition (start) -->
<OBJECT classid="%jpi_classid%"
        codebase="%jpi_codebase%"
        WIDTH="%Width%"
        HEIGHT="%Height%"
        HSPACE="0"
        VSPACE="0"
        ID="%applet_name%">

.....
.....

<PARAM NAME="hideActivityBar" VALUE="%hideActivityBar%">

<!-- Ezy Imaging Suite Common Servlet Parameters -->
<PARAM NAME="EIS_LICENSEE" VALUE="%EIS_LICENSEE%">
<PARAM NAME="EIS_RESOURCES_URL" VALUE="%EIS_RESOURCES_URL%">
<PARAM NAME="EIS_PRINT_SVR_INFO_MSGS" VALUE="%EIS_PRINT_SVR_INFO_MSGS%">
<PARAM NAME="EIS_DEL_TEMP_FILES" VALUE="%EIS_DEL_TEMP_FILES%">
<PARAM NAME="EIS_DEFAULT_RESOLUTION" VALUE="%EIS_DEFAULT_RESOLUTION%">

<!-- D/B Server Repository Servlet Parameters -->
<PARAM NAME="EIS_DB_HOST" VALUE="%EIS_DB_HOST%">
<PARAM NAME="EIS_DB_PORT" VALUE="%EIS_DB_PORT%">
<PARAM NAME="EIS_DB_INSTANCE" VALUE="%EIS_DB_INSTANCE%">

<!-- Ezy Image Capture Servlet Parameters (Trial 60 Days Evaluation) -->
<PARAM NAME="EIC_PRODUCT_KEY" VALUE="%EIC_PRODUCT_KEY%">
<PARAM NAME="EIC_SHOW_UI_WIDGETS" VALUE="%EIC_SHOW_UI_WIDGETS%">
<PARAM NAME="EIC_GET_DEFAULT" VALUE="%EIC_GET_DEFAULT%">

<!--Ezy Image Manager Servlet Parameters (Trial 60 Days Evaluation) -->
<PARAM NAME="EIM_PRODUCT_KEY" VALUE="%EIM_PRODUCT_KEY%">
<PARAM NAME="EIM_SHOW_UI_WIDGETS" VALUE="%EIM_SHOW_UI_WIDGETS%">

<!--Ezy Image Print Servlet Parameters -->
<PARAM NAME="EIP_PRODUCT_KEY" VALUE="%EIP_PRODUCT_KEY%">
```

The next section within the **<EMBED>** Tag in the same file, is as follows:

```
hideActivityBar="%hideActivityBar%"

EIS_LICENSEE="%EIS_LICENSEE%"
EIS_RESOURCES_URL="%EIS_RESOURCES_URL%"
EIS_PRINT_SVR_INFO_MSGS="%EIS_PRINT_SVR_INFO_MSGS%"
EIS_DEL_TEMP_FILES="%EIS_DEL_TEMP_FILES%"
EIS_DEFAULT_RESOLUTION="%EIS_DEFAULT_RESOLUTION%"

EIS_DB_HOST="%EIS_DB_HOST%"
EIS_DB_PORT="%EIS_DB_PORT%"
EIS_DB_INSTANCE="%EIS_DB_INSTANCE%"

EIC_PRODUCT_KEY="%EIC_PRODUCT_KEY%"
EIC_SHOW_UI_WIDGETS="%EIC_SHOW_UI_WIDGETS%"
EIC_GET_DEFAULT="%EIC_GET_DEFAULT%"

EIM_PRODUCT_KEY="%EIM_PRODUCT_KEY%"
EIM_SHOW_UI_WIDGETS="%EIM_SHOW_UI_WIDGETS%"

EIP_PRODUCT_KEY="%EIP_PRODUCT_KEY%"
```

The values specified in this file is substituted during runtime to derive each servlet parameter's value.

By adopting this new method of using Servlet Parameters, it has removed the need to read each Environment Variable's value from '**.env**' file that was being used in previous versions within the Oracle Forms program (.fmb), thus reducing the amount of programming code that was written within each program.

Instead, these Servlet Parameters are now being read by the Java component of each of Ezy Imaging Suite software product, be it Ezy Image Capture, Ezy Image Manager, Ezy Image Print or one of our many other products.

Within **formswb.cfg**, we have provided a sample config section called '**EIC EIM EIP Bean**', which will run the sample Forms .fmx called '**LB_EIC_EIM_EIP_DEMO.fmx**' that would allow you to test/evaluate **Ezy Image Capture (EIC)**, **Ezy Image Manager (EIM)** and **Ezy Image Print (EIP)**.

This config section is as listed below:

```
#
# Ezy Image Capture/Manager/Print Demo
#
[EIC_EIM_EIP_Bean]
# Forms Standalone Launcher
#
# Note: baseSAAfile must end with .txt
baseSAAfile=EIS_basesaa.txt
#
# fsalcheck parameter specifies whether to perform checksum comparison
# of Forms stand-alone app launcher or not. When it is enabled, it triggers
# the comparison at server. The checksum of FSAL at client machine will be
# compared with the checksum of FSAL archived at the server repository.
fsalcheck=true
#
#baseHTMLjpi=basejpi.htm
# Common archive parameter for Default and FSAL
archive=frmall.jar, LB_EIC_Bean.jar, LB_EIM_Bean.jar, LB_EIP_Bean.jar, jai_core.jar,
jai_imageio.jar, jai_codec.jar, thumbnailator-0.4.8.jar, imgscalr-lib-4.2.jar, joda-
time-2.7.jar, ojdbc6.jar, morena.jar, morena_windows.jar, morena_license.jar,
commons-net-3.6.jar, jdeli.jar
imagebase=codebase
logo=none
colorScheme=BLAF
splashScreen=
background=none
otherparams=useSDI=yes
serverapp=none
pageTitle=Ezy Image Capture / Manager / Print - Demo Application
width=100%
height=100%
lookandfeel=Oracle
separateFrame=true
userid=EISDEMO/EISDEMO@ora19
envFile=default.env
clientDPI=100
form=LB_EIC_EIM_EIP_DEMO.fmx
```

NOTE: Change the values highlighted in **CYAN** to suit your own Server environment.

We are using Forms Standalone Launcher here as specified above, highlighted in **CYAN**. Kindly change the deployment type according to your preference.

If you are using **Forms Standalone Launcher**, we have provided our sample '**EIC_EIM_EIP_FSAL_Demo.bat**' file that contains the following commands to run our sample Demo Forms programs:

```
rem Use 32-bit Java if you want to access most 32-bit TWAIN Devices installed on your
local machine
set JAVA_HOME="C:\Program Files (x86)\Java\jdk1.8.0_271"

set FSAL_HOME="D:\Oracle\Middleware\Oracle_Home\forms\java"

start /min "Forms 12.2.1.4 Ezy Image Capture/Manager/Print Console - Do NOT Close"
%JAVA_HOME%\bin/java -Xms512m -Xmx1024m -jar %FSAL_HOME%\frmsal.jar -url
"http://192.168.1.188:9001/forms/frmservlet?config=EIC_EIM_EIP_Bean" -t 30000 -
showConfig true
EXIT
```

NOTE: Change the values highlighted in CYAN to suit your own Server environment.

Amount of RAM, highlighted in Yellow is sufficient to ensure that you do NOT run out of memory when scanning multiple pages from your imaging device(s).

If using **basejpi.htm** or **webutiljpi.htm** file, please include the 2 lines at the appropriate place. See the sample file that has been provided for **basejpi_EIS.htm**.

```
<PARAM NAME="java_arguments" VALUE="-Xms512m -Xmx1024m">
```

```
java_arguments="-Xms512m -Xmx1024m"
```


- The sample Ezy Image Suite application uses a number of database objects, which need to be created under a database schema that needs to own these objects. This user needs to be created with CONNECT and RESOURCE database roles.

For the purpose of this Evaluation Version demo, create a schema called '**EISDEMO**' with a password of '**EISDEMO**' too.

NOTE:

For 11g and above databases, should you create the username with a case insensitive password, ie, '**eisdemo**', please alter within your D/B thru ALTER SYSTEM statement or Parameter setting in init<db>.ora file should your organization be using case insensitive passwords:

alter system set sec_case_sensitive_logon=false scope=spfile;

- Login as EISDEMO into SQL*Plus or TOAD or any other tool, and run the SQL file called '**cr_db_objs.sql**'. This will create 2 database tables, namely:
 - **LB_BLOB_DOCS**
 - **LB_EIS_DB_DOCS**

Other objects are the table's Unique Indexes as well as the Database Sequences.

NOTE:

ONLY **LB_BLOB_DOCS** is a **MANDATORY** Temporary Table used by Ezy Imaging Suite Java components when using the Database Server as a Document Repository. When a document is saved using the Database Server Table Repository, you will need to implement your own routine that will copy the BLOB column from this temporary table into the actual database table that your application uses.

Pre-requisites to run the sample Ezy Image Suite application:

- Ensure that you always use the latest **JRE Plug-In** to run our Ezy Image Suite sample application. You can download the latest JRE from:

<http://java.com/en/download/>

- ALL our JAR files are securely signed with LongBridge's Trusted Certificate from Sectigo.
- Since Google Chrome no longer supports Java Applets, it is **BEST** to use **MS Edge** (refer to [How to open Oracle Forms from Microsoft Edge – AuraPlayer](#) on how to use IE mode) or **Mozilla Firefox browser** with our sample application, unless you are running as a **Java Forms Standalone Launcher** application with Oracle Forms 12 & above, which is recommended by LongBridge Consulting.

Run sample application:

We have provided the FMB program, which is as follows:

○ **LB_EIC_DB_2024.fmb**

This FMB is a demo application to showcase how to capture documents using Ezy Image Capture and store them within the Database Server Repository as ANY one of '.bmp', '.gif', '.jpg', '.png' or '.tif' file.

○ **LB_EIM_EIP_DB_2024.fmb**

To view stored documents and print them within this Repository, you need to use Ezy Image Manager & Ezy Image Print.

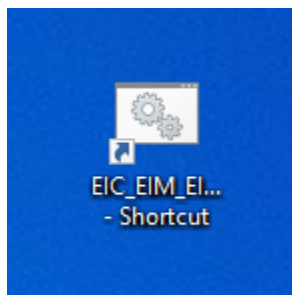
This FMB is a demo application to showcase how to view thumbnail (1st Page) and complete document page(s) that are stored within the Database Server Repository using Ezy Image Manager, and to print the specific documents using Ezy Image Print,.

Use these demo .fmb files as your reference Forms to copy & paste the relevant section of the code that you need to implement in your own Forms applications.

We also provide the full User Guide, Technical Guide, etc, when you are ready to commit to a purchase of our Java Bean components, plus the corresponding Forms programs for your preferred Document Repository.

When running the demo application using **Forms Standalone Launcher**, create a shortcut for the file called '**EIC_EIM_EIP_FSAL_Demo.bat**' and paste it into the Desktop.

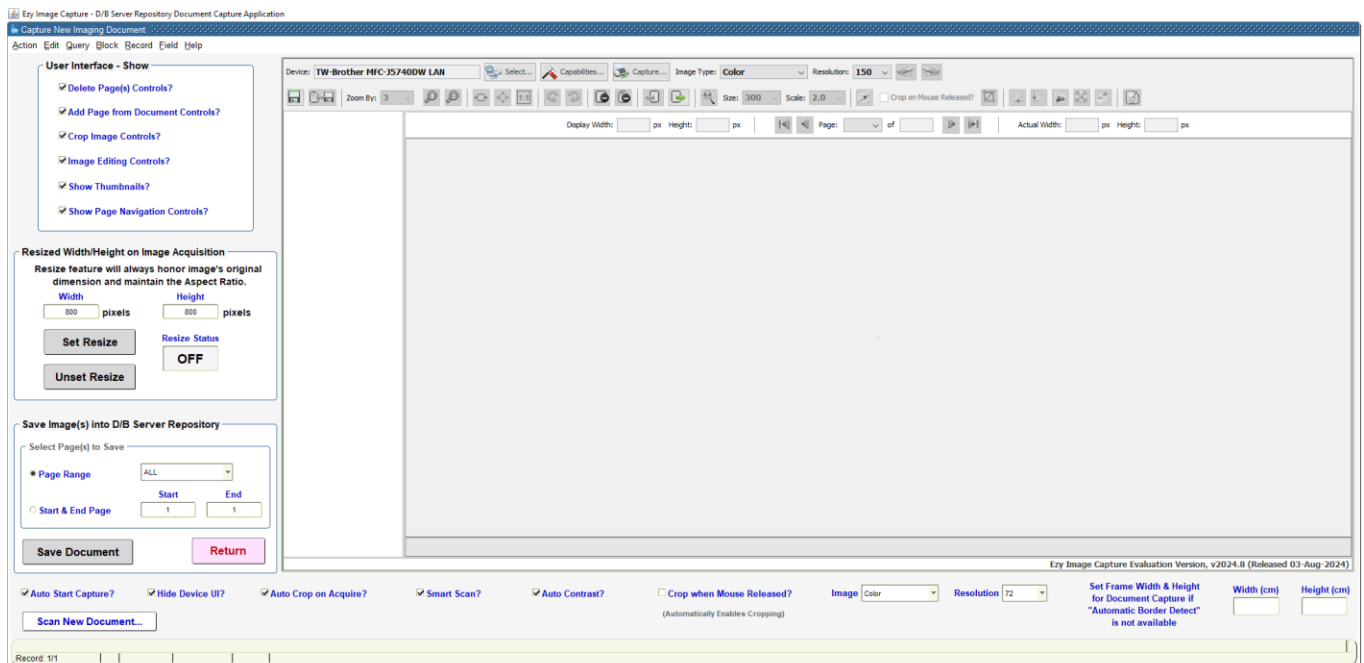
Run the application by double clicking this shortcut icon, as shown below:



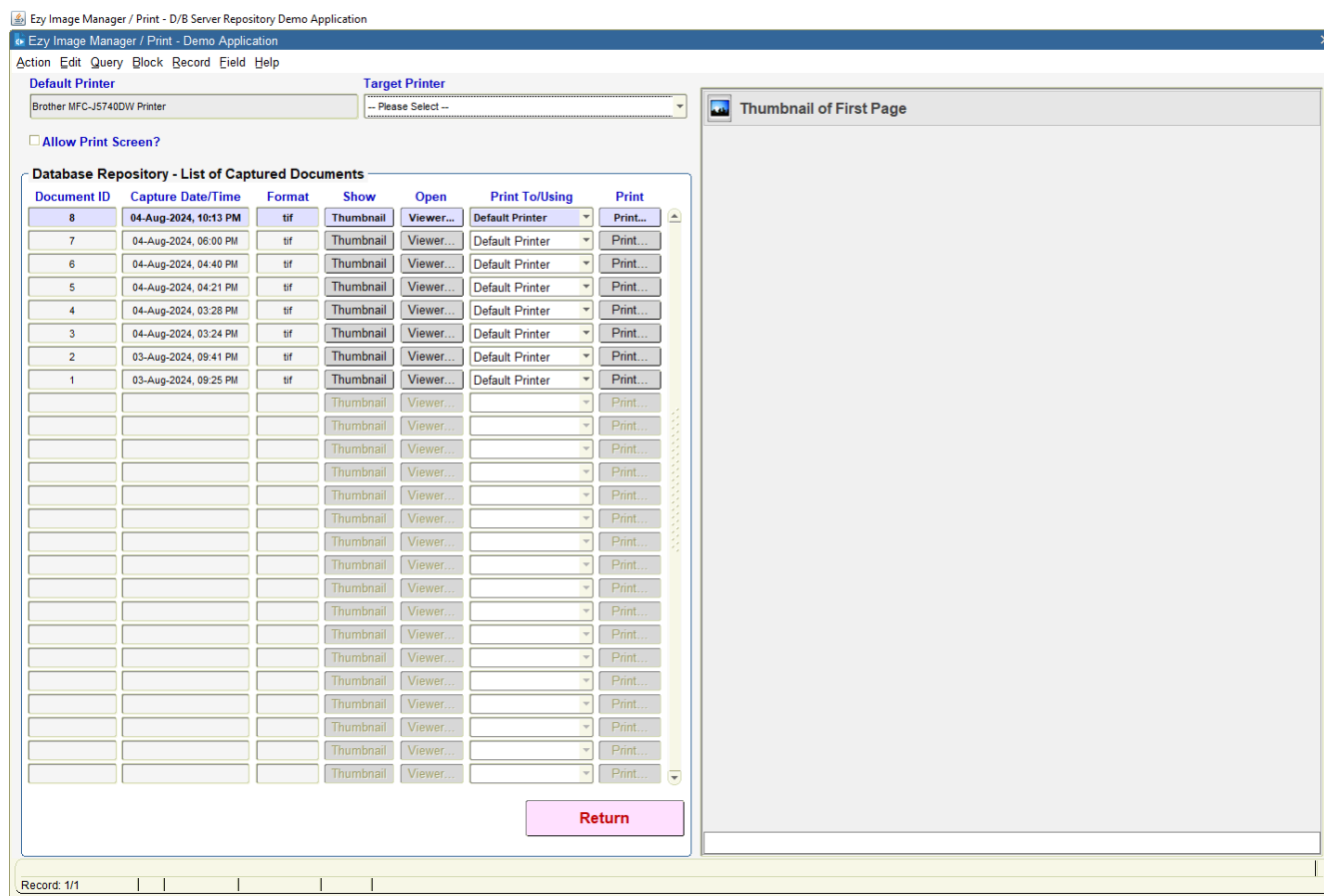
This will display the initial form, as shown below, where you can choose the relevant program to evaluate our Ezy Image Suite Java component:



Pressing 'Capture NEW Document' will run the following **Ezy Image Capture** demo form:

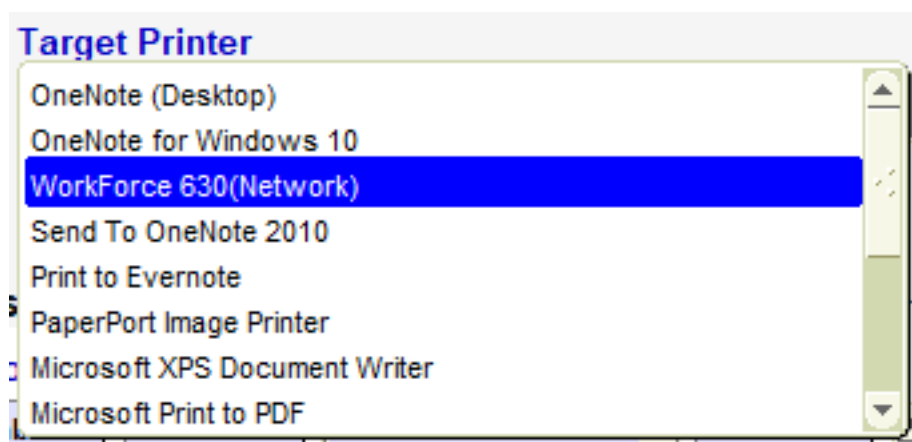


Once you have captured a few imaging documents and stored them in the Database Server Repository, press the button 'View / Print Existing Documents', which will display the following form:



The default printer attached to your individual client PC will be automatically set, and a list of available printers that are accessible by your client PC are also retrieved to provide you the ability to print the specific document(s) to a specific target printer;

Example of printers accessible to my own Desktop PC is as follows:



It is pretty self-explanatory as to what you can do with comprehensive features and functionalities that we have provided within our solutions. Feel free to reach out to us for any clarification or technical support during your evaluation period.

When running the demo application using the Java Plug-in on a supported web browser, such as **MS Edge** (running in IE Mode) or **Mozilla Firefox browser**:

Enter a similar URL as follows in your browser (change Hostname & Port according to your environment):

http:\\192.168.1.188:9001\\forms\\frmservlet?config=EIC_EIM_EIP_Bean

You would see the same initial form as seen when running with Forms Standalone Launcher.

Technical Assistance & Support

Kindly contact Bob Gill on bob.gill@longbridge.biz for any technical assistance and support in case of any issues during deployment or evaluation of Ezy Image Suite for your Oracle environment.

We have provided the Database Server Repository sample application. Our solution is also able to store/retrieve imaging documents from Local/Network Shared folders; Web/Application Server folders (i.e., URL locations) and FTP Server folders. If you need any of these sample applications, please contact Bob Gill.

We are also happy to enhance and customize Ezy Image Capture, Ezy Image Manager and/or Ezy Image Print to fit in with your specific needs and requirements. Please do not hesitate to contact Bob Gill for a further discussion of your project requirements.