

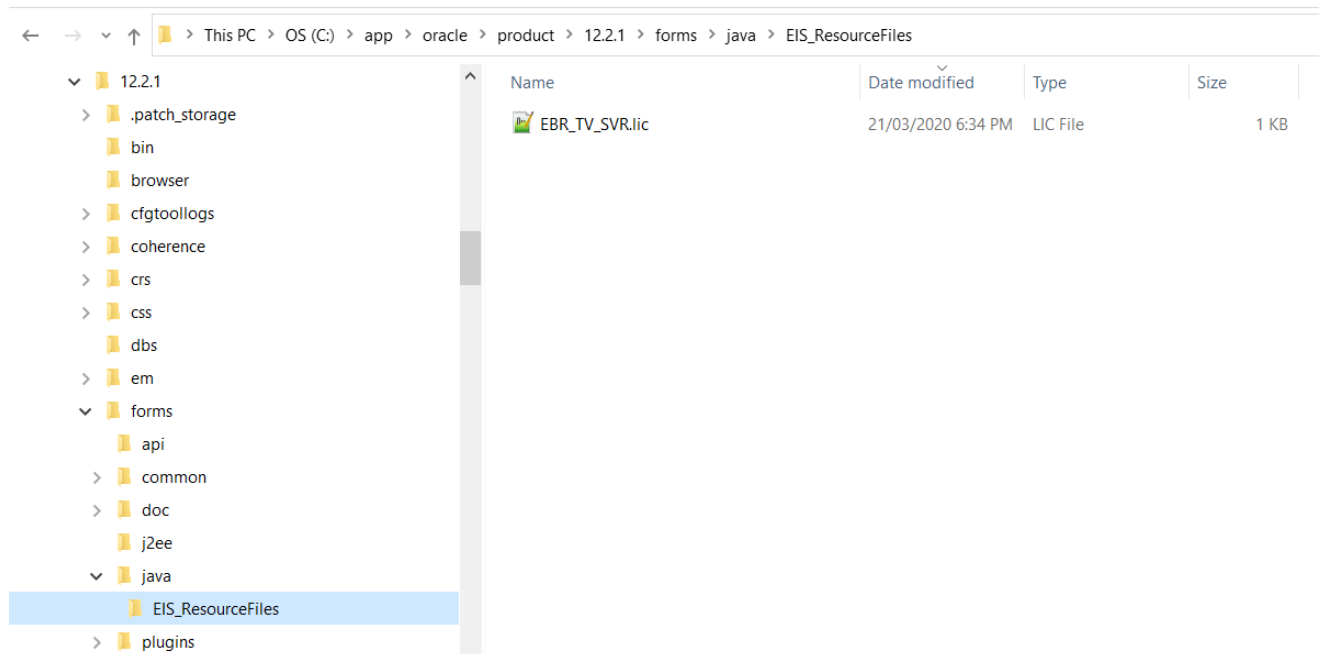
Ezy Barcode Reader

Java Bean Version (v1.8) for Oracle Forms technology

Deployment Guide

- Unzip **EBR_Bean_V18.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 a folder location on your Application Server's folder, which can be identified by a URL that maps a Virtual Path, that either exists or needs to be created, to this physical folder location where you are copying this folder into.

Store **'EIS_ResourceFiles'** folder into your **\$ORACLE_HOME/forms/java** folder, **as recommended by LongBridge**, 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 **'env'** file. Example:

LB_EIS_RESOURCES_URL=http://Asus-Bob:9001/forms/java/EIS_ResourceFiles

NOTE: If you upgrade Oracle Forms/Reports software on your Application Server, ensure that you copy **'EIS_ResourceFiles'** folder into your new installation environment again after the upgrade process.

You will find the relevant Application Server License files within this 'EIS_ResourceFiles' folder. For example, for Ezy Barcode Reader you should have:

- **EBR_TV_SVR.lic**

'EBR_TV_SVR.lic' is required by Ezy Barcode Reader 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 calls to the Java-side component. Without this critical file, an Error Alert will be displayed that will disallow your application from going any further and will be terminated.

For evaluation purposes this file needs to exist within this folder and will accept any server to allow you to test out all the available functions that exist within Ezy Barcode Reader.

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

Example:

```
archive=LB_EBR_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, activation.jar, comms.jar,
commons-net-3.6.jar, jdeli.jar, zxing_javase-3.4.0.jar, zxing_core-3.4.0.jar,
frmall.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 Barcode Reader JAR File (LB_EBR_Bean.jar) for the 'archive' parameter for your Config section. Should you wish to utilize previous versions of a JAR file within older Forms applications, create different "config" sections in your .env file.

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

- Enter the **Forms Environment Variables** into the **.env** file that you will be using within your Application.

Example, if you are using **default.env**, then the following entries MUST be added to the end of this file:

```
#-----
# EIS Environment Variables for Ezy Barcode Reader
#-----

LB_EIS_LICENSEE=LongBridge Consulting
LB_EIS_LICENSE_KEY=3J5dX7O4EPcSw9t7COFIpojlplQQ9jLsMU24pPUjCXo=

# This variable can be set to 'Y' or 'N' to determine if sensitive D/B or FTP Server
# Information such as Login details, Filepaths, SQL statements, etc,
# should be printed in the Java Console Message File.
# Default value if you do not call the API within Oracle Forms is 'Y'. Set the
# environment variable to 'N' if you wish to hide such messages.
LB_EIS_PRINT_SVR_INFO_MSGS=Y

# Ezy Barcode Reader - Trial/Evaluation Version - 30 Days
LB_EBR_PRODUCT_KEY=PaChRWirLPD0KrAKFmwlgDqrPzN8pKnG7hU8diE4fs=

# EIS Resources Files folder normally contains the EIS Product Server License file
# (.lic).

# Use $ORACLE_HOME/forms/java that contains 'EIS_ResourceFiles' sub-folder.
# NOTE: Please change the values according to your own application server
# environment.
LB_EIS_RESOURCES_URL=http://Asus-Bob:9001/forms/java/EIS_ResourceFiles

# The following 3 Environment variables are used for reading a barcode document from
# a D/B table into Ezy Barcode Reader's Image Viewer,
# as well as storing a Barcode Document into it whenever required,
# as per your own processing requirements.
# NOTE: Please change the values according to your own database server environment.

LB_EIS_DB_HOST=192.168.0.88
LB_EIS_DB_INSTANCE=db12
LB_EIS_DB_PORT=1521
```

PLEASE ensure that each Environment variable is on ONE Line.

See sample file, **LB_EIS.env** that has been provided in the Zip archive.

The Application Server License File, '**EBR_TV_SVR.lic**', for evaluation purposes will contain the following line:

```
+kF9DMsKkns91SR1XRRc8cV/RXPmrjkgqqfDuPMnGCpCUNXGUr+M1OpCPfaIy/Mz
```

Once you have evaluated and find our products satisfying your business needs and requirements, you will be provided with the relevant Environment Variable values upon purchasing our software solution for your Production & Development/Test Server(s). Use the provided values instead of the above, which is ONLY required for the Evaluation Version.

In your **basejpi.htm** file, please include the 2 lines at the appropriate place. See the sample file that has been provided. You can increase the amount of RAM to be used by changing -Xmx value to 2g, 3g, etc, provided you have enough physical memory. However the setting provided below should be sufficient.

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

- The sample Ezy Barcode Reader 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 3 database tables, namely:
 - **LB_BLOB_DOCS**
 - **LB_EIS_BARCODE_INFO**
 - **LB_EBR_DB_DOCS**

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

NOTE:

LB_BLOB_DOCS is a 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.

LB_EIS_BARCODE_INFO is a Global Temporary Table used to store ALL the Barcode(s) found within the page(s) of the Barcode Document that has been captured or loaded for reading.

You can use the data that is populated within this table after each Barcode Search process to perform your desired processing as per your own requirements.

NOTE: You need to issue a COMMIT statement after each Barcode Search process in order to populate this table for each search operation. See our sample application for guidance.

BC_VALUE (Barcode Value) is stored as NVARCHAR2 to cater for Globalization so that data encoded within each respective Barcode can be displayed correctly for the output results.

LB_EBR_DB_DOCS is used to store ALL the barcode documents that are saved into it from the front-end Oracle Forms application. Once saved, it can be used to load the required barcode document from it for the purpose of decoding the information within each individual barcode stored within the document. You may save 1 barcode per document for a single page document or several barcodes per document for a multi-page TIF document, where 1 page may contain ONLY 1 barcode or several barcodes as per your requirements.

Ezy Barcode Reader is capable of reading single or multi-page barcode documents without any issues.

Pre-requisites to run the sample Ezy Barcode Reader application:

- Ensure that you always use the latest **JRE Plug-In** to run our Ezy Imaging Suite sample applications. 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 (formerly Comodo).
- Since Google Chrome no longer supports Java Applets, it is **BEST** to use the latest **Internet Explorer or Mozilla Firefox browser** with our sample application, unless you are running as a Java Web Start Standalone application with Oracle Forms 12c.

Run sample application:

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

http:\\asus-bob:9001\\forms\\frmservlet?config= EBR_ Bean

See sample **formsweb.cfg** file provided in Zip archive for the Config Section, **EBR_Bean**, mentioned above.

We have provided the FMX program for Oracle Forms 12c, which is as follows:

- **LB_EBR_LNF_DB.fmx**

This FMX program is a demo application to showcase how to capture barcode documents or load existing documents using Ezy Barcode Reader. Supported Barcode documents can have a file format of **'.bmp', '.gif', '.jpg', '.png' or '.tif'**.

For a complete tutorial on how to use each of the available features within **Ezy Barcode Reader**, please refer to the PDF file, **'Tutorial Guide on using Ezy Barcode Reader.pdf'**, which is provided within the Zip file.

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 Barcode Reader for your Oracle environment, or need the FMX program for Oracle Forms 10g or 11g.

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

We are also happy to enhance and customize Ezy Barcode Reader to fit in with your specific needs and requirements. Please do not hesitate to contact me for a further discussion of your project.