Oracle® Banking Corporate Lending Installer EAR Building



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ORACLE

Oracle Banking Corporate Lending Installer EAR Building, Release 14.8.0.0.0

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Preface

This topic contains the following sub-topics:

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Related Resources
- Conventions
- Screenshot Disclaimer
- Acronyms and Abbreviations

Purpose

This manual is designed to help acquaint you with the process of building EAR files for Oracle Banking Corporate Lending.

Audience

This manual is intended for the following User/User Roles:

Role	Function
Implementation team	Implementation of Oracle Banking Corporate Lending Solution
Presales team	Install Oracle Banking Corporate Lending for demo purpose
Bank personnel	Who installs Oracle Banking Corporate Lending

Table 1 Audience

The user of this manual is expected to have basic understanding of Application server like Oracle Weblogic, IBM Websphere and Oracle Database.

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Related Resources

For more information on any related features, refer to the following documents:

- Release Notes
- Installation Guides

Conventions

The following text conventions are used in this document:

Table 2	Conventions	and	Meaning
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Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.



Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

 Table 3
 Acronyms and Abbreviations

Abbreviation	Description
FCUBS	Oracle FLEXCUBE Universal banking Solutions
ELCM	Oracle Banking Enterprise Limits and Collateral Management
EAR	Enterprise Archive file
EJB	Enterprise Java Bean
GW	Gateway
HTTP	Hypertext Transfer Protocol
JS	Java Script
ODT	Open Development Tool
OBCL	Oracle Banking Corporate Lending
OBTF	Oracle Banking Trade Finance
OBTR	Oracle Banking Treasury Management
ROFC	Rest of FLEXCUBE

1 Building Application for Setup

In the 14.7.5.0.0 release, the installer was modified to generate the .war file instead of the .ear file. Follow the steps below to generate a .war file. These steps will only be applicable to Innovation releases.

- War build process
- Standalone Setup

1.1 War build process

- 1. The process of building WAR file includes the following steps:
 - Generate the GUI Installer to get the fcubs.properties file, saved in the required path.
 - For Windows, run the CLEarRun.bat file or for Linux, run the CLEarRun.sh file.
- 2. Follow the steps below to build the application using the Silent Installer for setup:

The GUI Installer generates the fcubs.properties file path; otherwise, the WAR may fail if the fcubs property file path is not provided

3. Specify all the fields in the Environmental Property File to keep it up-to-date.

FCUBS_PROPERTIES_PATH variable displays the property file path with the file name where it has been placed.







Figure 1-2 Environment Properties File details 2

37	SCHEMA=
38	<i>PORT SMS</i> =1521
39	DECENTRALIZED FCUBS PROPERTIES PATH=
40	ORACLE HOME=D:/app/client/skunani/product/19.0.0/client_1
41	JSESSION ID=
42	ZDT PATCHING=N
43	WEBLOGIC HOME=C:/Oracle/Middleware/Oracle_Home/wlserver
44	PASSWORD SMS=7HC2Qal7PS5JjfOTlqFkV2eMWiZRSSe/nh4=
45	USER NAME=
46	HOST SMS=jQ23W6kEXUks/jiKqBVh4snx+labBg844H50q+4=
47	SERVICE NAME SMS=7HC2Qal7PS5djkCKzy5T2IuryVXLAwWWyVjJmrcprZs=
48	PATCHSET EDITION=
49	HOST ENTITY ID1=jQ23W6kEXUks/jiKqBVh4snx+labBg844H50q+4=
50	PASSWORD ENTITY ID1=7HC2Qal7PS5JjfOTlqFkV2eMWiZRSSe/nh4=
51	ConfigPath=D:/14.8_GA/Console_Exec_14.8_nonJEE/INSTALLER/SOFT/config/Application
52	FCHome=D:/14.8_GA/Console/
53	EXTERNAL PROPERTY PATH REQUIRED=N
54	FCUBS PROPERTIES PATH=D:/14.8_GA/Console_Exec_14.8_nonJEE/INSTALLER/SOFT/GUI/fcubs.properties
55	varedited=N

56

1.2 Standalone Setup

During the war, FCJNeoWeb is the primary application, and it generates files. The UI automatically populates the War Name while creating property files.

Maintain the following Application Type accordingly for building respective EARs:

Product Type	Application Type	EAR Name	BAT/sh file to be run	Property file to be used	Folder Location in Destination Path
OFCL	OBCL	Any Distinct Name	CLEarRun.bat or CLEarRun.sh	fcubs.properties	WAR file in build folder
GW- Integrated	INTEGRATED	Any Distinct Name	CLGatewayEarRun .bat or CLGatewayEarRun .sh	GW_WS_Prop.pro perties	WAR file in gatewayBuil d folder OFCLWeb
GW-Individual	INDIVIDUAL	Not Required	CLGatewayEarRun .bat or CLGatewayEarRun .sh	GW_WS_Prop.pro perties	WAR file in gatewayBuil d folder OFCLWeb
GW-REST	INDIVIDUAL	Any Distinct Name	CLGatewayRestEa rRun.bat or CLGatewayRestEa rRun.sh	GW_REST_Prop.p roperties and GW_RESTEJB_Pr op.properties	Individual: WAR file in gatewayBuil d folder Integrated: EAR file in Destination folder
GW-MDB	GATEWAY	Any Distinct Name	GWMDBEarRun.b at GWMDBEarRun.sh	GW_MDB_Prop.pr operties	WAR file in GWMDBuild folder
GW-HTTP	GATEWAY	Any Distinct Name	GWHTTPEarRun.b at GWHTTPEarRun.s h	GW_HTTP_Prop.p roperties	WAR file in GWHTTPBuil d folder

Table 1-1 Standalone



Product Type	Application Type	EAR Name	BAT/sh file to be run	Property file to be used	Folder Location in Destination Path
Scheduler	SCHDLR	Any Distinct Name	SchedulerEarRun. bat or SchedulerEarRun.s h	Scheduler.properti es	WAR file in buildSchedul er folder
ODT	ODT	Any Distinct Name	ODTWarRun.bat or ODTWarRun.sh	ODT.properties	-

Table 1-1 (Cont.) Standalone

This table shows the BAT/sh scripts that need to be run individually for each EAR creation. The env.properties will have the appropriate application type set.

1. To set up the OBCL WAR build, you need to execute the CLEarRun.bat file found in the \INSTALLER\SOFT directory on Windows, or the CLEarRun.sh file on Linux.

The mentioned source path will generate a WAR file with the following folder structure.

Figure 1-3 War Build - Folder Structure

···· 14.8_GA > EAR_St	tandalone_nonJEE > I	Main_application > bu	uild >	
∰ 🖻 🗊 🐴 s	iort - 🛛 🗮 View -			
Name	^	Date modified	Туре	Size
META-INF		25-07-2024 17:39	File folder	
📒 warupdate	:	25-07-2024 17:39	File folder	
CJNeoWeb.war	1	25-07-2024 17:39	WAR File	2,89,826 KB

Note:

As per the latest Installer changes, all the .jar files will be copied to the FCJNeoWeb.war\WEB-INF\lib folder.



D:\14.8_GA\EAR_Standalone_nonJEE\Main_application\build\FC Name		Packed Si	Modified	Created	Accessed	Attributes	Encrypted Comment	CRC	Method	Character	Hos
BIPublisher-client-stub.jar	111 741		2024-07-16 16:36	created	Accessed	-rw-rr	Encrypted Comment	DC8BC5B4		UTF8	Unio
commons-codec-1.17-SNAPSHOT.iar	357 241		2024-07-16 16:36			-rw-rr		F80A9709		UTF8	Unio
commons-collections4-4.4.jar	751 911		2024-07-16 16:36			-rw-rr	_	3D809797		UTF8	Unix
commons-compress-1.21.jar	1 018 294		2024-07-16 16:36			-rw-rr		27EF75EF		UTF8	Unio
	327 093		2024-07-16 16:36			-rw-rr	-	690DD160		UTF8	Unip
commons-lang3-3.12.0.jar	587 402		2024-07-16 16:36			-rw-rr		0A00A3BB		UTF8	Unio
≜ commons-logging-1,2,1,jar	63 583		2024-07-16 16:36			-rw-rr	-	DDCDF6F6		UTF8	Uni
commons-math3-3.6.1.jar	2 216 942		2024-07-16 16:36			-rw-rr		286EC07D		UTF8	Unio
commons-net-3.9.0.jar	316 431		2024-07-16 16:36			-rw-rr		BA4D5279		UTF8	Unip
compiler unshaded deploy.jar			2024-07-16 16:36			-FW-FF		240AA9A9		UTF8	Unix
FCJBatch.jar	30 258		2024-07-25 17:38			-rw-rr		088ADD36		UTE8	Uni
FCJCoreDAOOracle.iar	748 740	748 855	2024-07-25 17:38			-FW-FF		F45F2FE9	Deflate	UTF8	Unio
FCJGeneralEJB.iar	188 805	188 835	2024-07-25 17:38			-rw-rr	-	C4FFC22D	Deflate	UTF8	Unio
FCJMBean.jar	17 413	17 418	2024-07-25 17:38			-rw-rr		E322CD62	Deflate	UTF8	Unio
FCJSMS.jar	134 095	134 120	2024-07-25 17:38			-rw-rr	-	468AEC2A	Deflate	UTF8	Uni
▲ FCJUtility.jar	2 213 258	2 213 598	2024-07-25 17:38			-rw-rr		F4B70A04	Deflate	UTF8	Unio
# FCServiceEJB.jar	128 696	128 716	2024-07-25 17:38			-rw-rr	-	9989222E	Deflate	UTF8	Uni
EServiceRouter.jar	197 629	197 664	2024-07-25 17:38			-rw-rr	-	B0177A1B	Deflate	UTF8	Unio
▲ FCServiceUtil.jar	32 947	32 957	2024-07-25 17:38			-rw-rr	-	284BC26C	Deflate	UTF8	Uni
🔬 guava-31.0.1-jre.jar	2 974 216	2 974 671	2024-07-16 16:36			-rw-rr	-	760FB030	Deflate	UTF8	Unio
▲ jackson-annotations-2.14.0.jar	76 091	76 106	2024-07-16 16:36			-rw-rr	-	049C2DB6	Deflate	UTF8	Uni
≦jackson-core-2.14.0.jar	458 975	459 050	2024-07-16 16:36			-rw-rr	-	5AB43F57	Deflate	UTF8	Unio
🔬 jackson-databind-2.14.0.jar	1 618 273	1 618 523	2024-07-16 16:36			-rw-rr	-	E3035304	Deflate	UTF8	Uni
🖆 jackson-dataformat-yaml-2.13.2.jar	52 017	52 027	2024-07-16 16:36			-rw-rr	-	CAD10D	Deflate	UTF8	Uni
í jettison-1.5.4.jar	90 184	90 199	2024-07-16 16:36			-rw-rr	-	B316C9F9	Deflate	UTF8	Unio
≜ijjwt-api-0.11.2.jar	78 280	78 295	2024-07-16 16:36			-rw-rr		60241154	Deflate	UTF8	Unip

Figure 1-4 FCJNeoWeb library folder

When EXT_JSUIXML is chosen, it will create the JS_UIXML folder in parallel to the build folder. You should manually copy this folder to the Deployment Path specified in env.properties.

- 2. To run Gateway WAR, execute CLGatewayEarRun.bat (CLGatewayEarRun.sh)
- To run EJB, MDB and HTTP gateways, execute the respective bat files that is GWEJBEarRun.bat (GWEJBEarRun.sh), GWMDBEarRun.bat (GWMDBEarRun.sh) and GWHTTPEarRun.bat (GWHTTPEarRun.sh).
- To run ODT, execute ODTWarRun.bat in Windows (ODTWarRun.sh in Linux) after building odt.properties.
- 5. To run STAND ALONE SCHEDULER, execute SchedulerEarRun.bat in Windows or SchedulerEarRun.sh in Linux. After this deploy the EAR in the application console.

The mentioned source path will generate a WAR file with the following folder structure.

···· 14.8_GA > EAR_Standalone_nonJEE >	Main_application > b	uildScheduler >	
]) 🖄 أأأ			
Name ^	Date modified	Туре	Size
META-INF	29-07-2024 14:40	File folder	
🚞 warupdate	29-07-2024 14:40	File folder	
FCJSchedulerWeb.war	25-07-2024 17:33	WAR File	2,84,777 KB

Figure 1-5 Build Scheduler - Folder Structure



Note:

As per Installer changes, Scheduler war will be generated with FCJSchedulerWeb.war name, and all the .jars files are copied to the FCJSchedulerWeb.war\WEB-INF\lib folder,

Figure 1-6 FCJSchedulerWeb library folder

Vame	Size	Packed Si Modified	Created	Accessed	Attributes	Encrypted Comment	CRC Method	Character.	Но
BIPublisher-client-stub.jar	111 741	111 761 2024-07-16 16:36			-rw-rr	-	DC8BC5B4 Deflate	UTF8	Un
commons-codec-1.17-SNAPSHOT.jar	357 241	357 296 2024-07-16 16:36			-rw-rr	-	F80A9709 Deflate	UTF8	Un
commons-collections4-4.4.jar	751 911	752 026 2024-07-16 16:36			-rw-rr		3D809797 Deflate	UTF8	Un
commons-compress-1.21.jar	1 018 294	1 018 454 2024-07-16 16:36			-rw-rr	-	27EF75EF Deflate	UTF8	Un
commons-io-2.11.0.jar	327 093	327 143 2024-07-16 16:36			-rw-rr	-	690DD160 Deflate	UTF8	Un
commons-lang3-3.12.0.jar	587 402	587 492 2024-07-16 16:36			-rw-rr		0A00A3BB Deflate	UTF8	Un
commons-logging-1.2.1.jar	63 583	63 593 2024-07-16 16:36			-rw-rr	-	DDCDE6E6 Deflate	UTF8	Un
commons-math3-3.6.1.jar	2 216 942	2 217 282 2024-07-16 16:36			-rw-rr		286EC07D Deflate	UTF8	Un
commons-net-3.9.0.jar	316 431	316 481 2024-07-16 16:36			-rw-rr	-	BA4D5279 Deflate	UTF8	Ur
compiler_unshaded_deploy.jar	13 539 568	13 541 6 2024-07-16 16:36			-rw-rr	-	240AA9A9 Deflate	UTF8	Ur
FCJBulker.jar	1 195 199	1 195 384 2024-07-25 17:33			-rw-rr		C64558B7 Deflate	UTF8	Ur
FCJCoreDAOOracle.jar	748 740	748 855 2024-07-25 17:33			-rw-rr	-	COFCE8E2 Deflate	UTF8	Ur
ECJScheduler.jar	876 151	876 286 2024-07-25 17:33			-rw-rr	-	7F612FE4 Deflate	UTF8	Ur
FCJUtility.jar	2 213 258	2 213 598 2024-07-25 17:33			-rw-rr	-	663091BF Deflate	UTF8	Ur
jettison-1.5.4.jar	90 184	90 199 2024-07-16 16:36			-rw-rr		B316C9F9 Deflate	UTF8	Ur
log4j-1.2-api-2.17.1.jar	208 005	208 040 2024-07-16 16:36			-rw-rr	-	B22E97AA Deflate	UTF8	Ur
log4j-api-2.17.1.jar	301 873	301 923 2024-07-16 16:36			-rw-rr	-	433DA8C8 Deflate	UTF8	Ur
log4j-core-2.17.1.jar	1 790 452	1 790 727 2024-07-16 16:36			-rw-rr		01A020E6 Deflate	UTF8	Ur
poi-5.2.0.jar	2 897 386	2 897 831 2024-07-16 16:36			-rw-rr	-	5A459BAF Deflate	UTF8	Ur
poi-ooxml-5.2.0.jar	1 958 735	1 959 035 2024-07-16 16:36			-rw-rr	-	301F9ABF Deflate	UTF8	Ur
poi-ooxml-full-5.2.0.jar	13 059 924	13 061 9 2024-07-16 16:36			-rw-rr	-	44263349 Deflate	UTF8	Un
quartz-2.4.0-SNAPSHOT.jar	691 184	691 294 2024-07-16 16:36			-rw-rr	-	6CA59658 Deflate	UTF8	Ur
lquartz-jobs-2.4.0-SNAPSHOT.jar	34 006	34 016 2024-07-16 16:36			-rw-rr	-	E81A4153 Deflate	UTF8	Un
slf4j-api-1.7.36.jar	41 128	41 138 2024-07-16 16:36			-rw-rr	-	74F81192 Deflate	UTF8	Un
spring-aop-5.3.37.jar	385 275	385 335 2024-07-23 10:48			-rw-rr	-	F3F27C92 Deflate	UTF8	Un
spring-beans-5.3.37.iar	706 489	706 599 2024-07-23 10:48			-rw-rr		4B225607 Deflate	UTF8	Un

Note:

ExtAdapter.(JAR or WAR) is generated for ROFC in case of ELCM_INSTALLED, S(Standalone) and C(Co-deployed) OBCLExtAdapter is embedded with FCJNeoWeb.war, (JAR or WAR) is generated for OBCL in case of ELCM_INSTALLED S(Standalone) and C(Codeployed) both OBCLExtAdapter. (JAR or WAR) and ExtAdapter.(JAR or WAR) is generated for OBCL and ROFC CoDeployed in case of ELCM_INSTALLED S(Standalone) and C(Co-deployed). In case of Oracle Banking Corporate Lending, OBCLCalcEngine WAR file is generated along with EAR. This WAR file is required to be deployed as standalone component for RFR (Risk Free Rates) calculations.

Note:

Ensure the necessary resources are created in the application server as mentioned in the *Resources To Be Created* document.