

Oracle® Banking Corporate Lending Installer EAR Building



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ORACLE®

Oracle Banking Corporate Lending Installer EAR Building, Release 14.8.1.0.0

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Preface

This topic contains the following sub-topics:

- [Purpose](#)
- [Acronyms and Abbreviations](#)
- [Audience](#)
- [Critical Patches](#)
- [Conventions](#)
- [Diversity and Inclusion](#)
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- [Related Resources](#)
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Purpose

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

Acronyms and Abbreviations

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

Table 1 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

Audience

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

Table 2 Audience

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

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

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

Conventions

The following text conventions are used in this document:

Table 3 Conventions and Meaning

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	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.

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Access to Oracle Support

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Related Resources

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

- *Release Notes*
- *Installation Guides*

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.

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 1-1 Environment Properties File details 1

```
1 #Wed Jul 24 12:53:56 IST 2024
2 TNS_ADMIN_HOME=
3 ORMA_PRODUCT_INSTALLED=N
4 ENTITY_ID1=ENTITY_ID1
5 EXTERNAL_PROPERTY_PATH=
6 EAR_NAME=FCUBS
7 COMPILE_IN_ALL_ENTITIES=N
8 PATCHSET_INSTALLATION=N
9 CONNECTING_STRING_ENTITY_ID1=PM147INDEV1_PDB
10 CONNECTING_STRING_SMS=PM147INDEV1_PDB
11 DESTINATION_PATH=D:/14.8_GA/Console_Exec_14.8_nonJEE
12 EXTERNAL_JSUIXML_REQUIRED=Y
13 PORT_ENTITY_ID1=1521
14 EAR_DESTINATION_PATH=D:/14.8_GA/EAR_Standalone_nonJEE/Main_application
15 APPSERVER_HOME=C:/Oracle/Middleware/Oracle_Home/wlserver
16 GW_PROPERTIES_PATH=D:/14.8_GA/Console_Exec_14.8_nonJEE/INSTALLER/SOFT/logs/GW_WS_Prop.properties
17 CLOUD_INSTALLATION=N
18 SERVICE_NAME_ENTITY_ID1=7HC2Qal7PS5djkCKzy5T2IuryVXLAwWwVjJmrcprZs=
19 PASSWORD=
20 AUTONOMOUS_DATABASE_INSTALLED=N
21 ZDT_OBJECTS_ACTUALIZATION_REQUIRED=Y
22 SYMMETRIC_KEY=oraclefinancials
23 SINGLE_FIX_SOURCE=N
24 ZDT_OBJECTS_COMPILE_THREAD=1
25 SOURCE_PATH=D:/14.8_GA/Console_Exec_14.8_nonJEE
26 BASE_EDITION=
27 APPLICATION_TYPE=FCUBS
28 EXTERNAL_JSUIXML_PATH=/scratch/work_area/DEV/14.8_GA_Test/JSUIXML
29 NUMBER_OF_CPU_CORES_FOR_ZDT_RECOMP=4
30 JAVA_HOME=C:/Program Files/Java/jdk-11
31 PM_Config_Path=D:/14.8_GA/Console_14.8_nonJEE/PM/INSTALLER/SOFT/config/Application
32 CONTEXT_NAME=FCNeoWeb
33 DECENTRALIZED=N
34 ENTITY_NCS=1
35 SCHEMA_NAME_SMS=7HC2Qal7PS5JjfoTlqFkV2eMW1ZRSSe/nh4=
36 SCHEMA_NAME_ENTITY_ID1=7HC2Qal7PS5JjfoTlqFkV2eMW1ZRSSe/nh4=
```

Figure 1-2 Environment Properties File details 2

```

37 SCHEMA=
38 PORT_SMS=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:

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
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.properties	WAR file in gatewayBuild folder OFCLWeb
GW-Individual	INDIVIDUAL	Not Required	CLGatewayEarRun.bat or CLGatewayEarRun.sh	GW_WS_Prop.properties	WAR file in gatewayBuild folder OFCLWeb
GW-REST	INDIVIDUAL	Any Distinct Name	CLGatewayRestEarRun.bat or CLGatewayRestEarRun.sh	GW_REST_Prop.properties and GW_RESTEJB_Prop.properties	Individual: WAR file in gatewayBuild folder Integrated: EAR file in Destination folder
GW-MDB	GATEWAY	Any Distinct Name	GWMDBEarRun.bat at GWMDBEarRun.sh	GW_MDB_Prop.properties	WAR file in GWMDBBuild folder
GW-HTTP	GATEWAY	Any Distinct Name	GWHTTPEarRun.bat at GWHTTPEarRun.sh	GW_HTTP_Prop.properties	WAR file in GWHTTPBuild folder

Table 1-1 (Cont.) 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.sh	Scheduler.properties	WAR file in buildScheduler folder
ODT	ODT	Any Distinct Name	ODTWarRun.bat or ODTWarRun.sh	ODT.properties	-

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_Standalone_nonJEE > Main_application > build >			
Sort View ...			
Name	Date modified	Type	Size
META-INF	25-07-2024 17:39	File folder	
warupdate	25-07-2024 17:39	File folder	
FCJNeoWeb.war	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_nonIE\Main_application\build\FCS\NeoWeb_war\WEB-INF\lib												
Name	Size	Packed SL	Modified	Created	Accessed	Attributes	Encrypted	Comment	CRC	Method	Character...	Host
 BIPublisher-client-stub.jar	111 741	111 761	2024-07-16 16:36			-rw-r--r--	-		DC88C584	Deflate	UTF8	Unix
 commons-codec-1.17-SNAPSHOT.jar	357 241	357 296	2024-07-16 16:36			-rw-r--r--	-		F80A9709	Deflate	UTF8	Unix
 commons-collections4-4.4.jar	751 911	752 026	2024-07-16 16:36			-rw-r--r--	-		3D089797	Deflate	UTF8	Unix
 commons-compress-1.21.jar	1 018 294	1 018 454	2024-07-16 16:36			-rw-r--r--	-		27EF75EF	Deflate	UTF8	Unix
 commons-io-2.11.0.jar	327 093	327 143	2024-07-16 16:36			-rw-r--r--	-		6900D160	Deflate	UTF8	Unix
 commons-lang3-3.12.0.jar	587 402	587 492	2024-07-16 16:36			-rw-r--r--	-		A000A388	Deflate	UTF8	Unix
 commons-logging-1.2.1.jar	63 583	63 593	2024-07-16 16:36			-rw-r--r--	-		DDCED666	Deflate	UTF8	Unix
 commons-math3-3.6.1.jar	2 216 942	2 217 282	2024-07-16 16:36			-rw-r--r--	-		286E7C0D	Deflate	UTF8	Unix
 commons-net-3.9.0.jar	316 431	316 481	2024-07-16 16:36			-rw-r--r--	-		8A4D5279	Deflate	UTF8	Unix
 compiler_unshaded_deploy.jar	13 539 568	13 541 66	2024-07-16 16:36			-rw-r--r--	-		240A40A9	Deflate	UTF8	Unix
 FCBatch.jar	30 258	30 263	2024-07-25 17:38			-rw-r--r--	-		088A0D36	Deflate	UTF8	Unix
 FCJCoreDAOOracle.jar	748 740	748 855	2024-07-25 17:38			-rw-r--r--	-		F45F2F9	Deflate	UTF8	Unix
 FCJGeneralEJB.jar	188 805	188 835	2024-07-25 17:38			-rw-r--r--	-		CAFFC22D	Deflate	UTF8	Unix
 FCJMBean.jar	17 413	17 418	2024-07-25 17:38			-rw-r--r--	-		E322CD62	Deflate	UTF8	Unix
 FCJSMS.jar	134 095	134 120	2024-07-25 17:38			-rw-r--r--	-		468AE2CA	Deflate	UTF8	Unix
 FCJUtility.jar	2 213 258	2 213 598	2024-07-25 17:38			-rw-r--r--	-		F4870A04	Deflate	UTF8	Unix
 FCSERVICEEJB.jar	128 696	128 716	2024-07-25 17:38			-rw-r--r--	-		9989222E	Deflate	UTF8	Unix
 FCSERVICERouter.jar	197 629	197 664	2024-07-25 17:38			-rw-r--r--	-		80177A18	Deflate	UTF8	Unix
 FCSERVICEUtil.jar	32 947	32 957	2024-07-25 17:38			-rw-r--r--	-		284BC26C	Deflate	UTF8	Unix
 guava-31.0.1-jre.jar	2 974 216	2 974 671	2024-07-16 16:36			-rw-r--r--	-		760F8030	Deflate	UTF8	Unix
 jackson-annotations-2.14.0.jar	76 091	76 106	2024-07-16 16:36			-rw-r--r--	-		049C2D86	Deflate	UTF8	Unix
 jackson-core-2.14.0.jar	458 975	459 050	2024-07-16 16:36			-rw-r--r--	-		5A843F57	Deflate	UTF8	Unix
 jackson-databind-2.14.0.jar	1 618 273	1 618 523	2024-07-16 16:36			-rw-r--r--	-		E3035304	Deflate	UTF8	Unix
 jackson-dataformat-yaml-2.13.2.jar	52 017	52 027	2024-07-16 16:36			-rw-r--r--	-		CAD10D...	Deflate	UTF8	Unix
 jettyson-1.5.4.jar	90 184	90 199	2024-07-16 16:36			-rw-r--r--	-		B316C9F9	Deflate	UTF8	Unix
 jwt-api-0.11.2.jar	78 280	78 295	2024-07-16 16:36			-rw-r--r--	-		60241154	Deflate	UTF8	Unix

2. To run Gateway WAR, execute CLGatewayEarRun.bat (CLGatewayEarRun.sh)
3. 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).
4. 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.

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

D:\14.8_GA\EAR_Standalone_nonJEEVMain_application\build\Scheduler\FCJSchedulerWeb.war\WEB-INF\lib\												
Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment	CRC	Method	Character...	Hos
BPublisher-client-stub.jar	111 741	111 761	2024-07-16 16:36			-TW-+-+--	-		DC8B85B4	Deflate	UTF8	Unb
commons-codex-1.17-SNAPSHOT.jar	357 241	357 296	2024-07-16 16:36			-TW-+-+--	-		F80A9709	Deflate	UTF8	Unb
commons-collections4-4.4.jar	751 911	752 026	2024-07-16 16:36			-TW-+-+--	-		3D809797	Deflate	UTF8	Unb
commons-compress-1.21.jar	1 018 294	1 018 454	2024-07-16 16:36			-TW-+-+--	-		27EF75EF	Deflate	UTF8	Unb
commons-io-2.11.0.jar	327 093	327 143	2024-07-16 16:36			-TW-+-+--	-		690DD160	Deflate	UTF8	Unb
commons-lang3-3.12.0.jar	587 402	587 492	2024-07-16 16:36			-TW-+-+--	-		0A00A3B8	Deflate	UTF8	Unb
commons-logging-1.2.1.jar	63 583	63 593	2024-07-16 16:36			-TW-+-+--	-		DDCDE6E6	Deflate	UTF8	Unb
commons-math3-3.6.1.jar	2 216 942	2 217 282	2024-07-16 16:36			-TW-+-+--	-		286EC07D	Deflate	UTF8	Unb
commons-net-3.9.0.jar	316 431	316 481	2024-07-16 16:36			-TW-+-+--	-		8A4D5279	Deflate	UTF8	Unb
compiler_unshaded_deploy.jar	13 539 568	13 541 6...	2024-07-16 16:36			-TW-+-+--	-		240AA9A9	Deflate	UTF8	Unb
FCJBulker.jar	1 195 199	1 195 384	2024-07-25 17:33			-TW-+-+--	-		C6455887	Deflate	UTF8	Unb
FCJCoreDAOOracle.jar	748 740	748 855	2024-07-25 17:33			-TW-+-+--	-		C0FCE8E2	Deflate	UTF8	Unb
FCJScheduler.jar	876 151	876 286	2024-07-25 17:33			-TW-+-+--	-		7F612FE4	Deflate	UTF8	Unb
FCJUtility.jar	2 213 258	2 213 598	2024-07-25 17:33			-TW-+-+--	-		663091BF	Deflate	UTF8	Unb
jettison-1.5.4.jar	90 184	90 199	2024-07-16 16:36			-TW-+-+--	-		B316C9F9	Deflate	UTF8	Unb
log4j-1.2-api-2.17.1.jar	208 005	208 040	2024-07-16 16:36			-TW-+-+--	-		822E97AA	Deflate	UTF8	Unb
log4j-api-2.17.1.jar	301 873	301 923	2024-07-16 16:36			-TW-+-+--	-		433DA8C8	Deflate	UTF8	Unb
log4j-core-2.17.1.jar	1 790 452	1 790 727	2024-07-16 16:36			-TW-+-+--	-		01A020E6	Deflate	UTF8	Unb
poi-5.2.0.jar	2 897 386	2 897 831	2024-07-16 16:36			-TW-+-+--	-		5A4598AF	Deflate	UTF8	Unb
poi-ooxml-5.2.0.jar	1 958 735	1 959 035	2024-07-16 16:36			-TW-+-+--	-		301F9A8F	Deflate	UTF8	Unb
poi-ooxml-full-5.2.0.jar	13 059 924	13 061 9...	2024-07-16 16:36			-TW-+-+--	-		44263349	Deflate	UTF8	Unb
quartz-2.4.0-SNAPSHOT.jar	691 184	691 294	2024-07-16 16:36			-TW-+-+--	-		6CA59658	Deflate	UTF8	Unb
quartz-jobs-2.4.0-SNAPSHOT.jar	34 006	34 016	2024-07-16 16:36			-TW-+-+--	-		E81A4153	Deflate	UTF8	Unb
slf4j-api-1.7.36.jar	41 128	41 138	2024-07-16 16:36			-TW-+-+--	-		74F81192	Deflate	UTF8	Unb
spring-aop-5.3.37.jar	385 275	385 335	2024-07-23 10:48			-TW-+-+--	-		F3F27C92	Deflate	UTF8	Unb
spring-beans-5.3.37.jar	706 489	706 599	2024-07-23 10:48			-TW-+-+--	-		4B225607	Deflate	UTF8	Unb

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.