

Patch Release Notes
Oracle Banking Trade Finance
Release 14.7.0.6.0
[May] [2024]



Table of Contents

- 1. Understanding Patch Releases 3
- 2. Patch Requirements 3
- 3. Applying the Patch Release 3
- 4. Issues Resolved in this Patch-Set Release 4
- 4.1 Common Core Issues resolved in this Patch-Set Release 9
- 5. Enhancements in this Patch-Set Release 10
- 6. Extensibility Changes 10
- 7. Forward Ported Issues 10
- 8. Documentation 10
- 9. Additional Note 10

1. Understanding Patch Releases

A patch release is an official Oracle patch release for Oracle Banking Trade Finance. The fourth & fifth digit in a patch release string indicates the patch release number. The first three digits indicate the release to which the patch is applied. For example, Release 14.7.0.6.0 is the incremental maintenance patch for Release 14.7. Each patch release includes libraries and files that have been rebuilt to implement one or more fixes. Each patch release is incremental. In other words, the latest patch release includes new fixes released after last patch released for the same release.

2. Patch Requirements

Confirm you are applying this patch release after applying Oracle Banking Trade Finance 14.7.0.0.0 GA release is completed successfully.

3. Applying the Patch Release

Customers installing this patch release should refer to the "Installation Guide" chapter in the Oracle Banking Trade Finance Release 14.7 Install and Upgrade Guide, which is available here:

https://docs.oracle.com/cd/F74393_01/index.htm

Customers installing this patch release should refer to the Readme included in the Patch Release zip file.

4. Issues Resolved in this Patch-Set Release

No	RPTNO	Module	Bug Description	Release Note
1	36134900	LC	OBTF - 14.7.0.1.0 - CIT :: PARTIES POPULATION IN IMPORT DOCUMENTARY COLLECTION B	If settlement Instructions is not maintained, then Beneficiary institution will be defaulted with Remitting bank details. Fix provided for the same.
2	36171566	LC	CIT-OBTFPM-14.7.0.1-GUARANTEE ADVISE CLAIM UPDATE-CLAIM REFERENCE NO	Option in OBTF to capture the claim bank reference and populating of the same detail during message generation.
3	36173172	LC	EXPORT LC ADVISE PROCESS - ADDITIONAL CONDITION - 47A FFT – ISSUE	Fix provided to populate FFT details from ADV_THIRD_BANK also to LC_AMND_INSTR during amendment. Fix provided to restrict re-defaulting of FFTs again from product level maintenance while visiting the Advice subsystem during confirmation operation.
4	36173721	BG	GUA ISSUED FROM OBDX - CONTRACT CREATED WITH BACK DATED EFFECTIVE DATE - ACCOUNTING ENTRIES VALUE DATE ISSUE	Fix provided default value date for commission and charges as current date during amendment. Fix provided to add override when transaction and value date are different.
5	36201260	BG	TRANSACTION LEVEL INSTRUCTIONS ISSUES GCDLCM	Fix provided to consider Transaction level instructions value in Customer Instructions subsystem during Claim settlement through Gateway.
6	36207785	BG	GUARANTEE ISSUANCE - SND2RECMT760 - ISSUE	Fix provided to added to restrict defaulting message in SND2RECMT760 FFT when source is OBTFPM and data in FFT description is passed in request.
7	36236531	BC	EXPORT COLLECTION BOOKING-COLLATERAL AMOUNT	Cash collateral default from customer level trade collateral margin is commented
8	36255662	BG	ISLAMIC GUARANTEE CONTRACT - GUARANTEE MAIL ADVISE ISSUES	Code modified to include expiry type and applicable rule in Guarantee mail advice.
9	36256380	MS	DIFFERENCES IN SWIFT TAG MAINTENANCE (MSDTFSWT -TF SWIFT TAG) WITH SWIFT 2023	Tags are corrected as per swift maintenance.
10	36277230	LC	RECORD MISSING IN ERTB_MSGS FOR ERROR CODE LM-VALS-394	On click of default limits if there is no limits are mapped to the customer system will throw an error.
11	36291738	BC	BILL LIQUIDATION : IF SETTLEMENT IS DONE VIA ACCOUNT , LOAN ACCOUNT SHOULDNT BE OPENED	Fix provided to check for loan account in split settlement before building the loan creation request.
12	36306814	BG	GUARANTEE CLAIM SETTLEMENT - LIQUIDATE USING COLLATERAL	Code Modified to restrict deletion of split master When neither of Liquidate Using Collateral, Loan for Claim Settlement & Settle Available Amount selected.
13	36311075	BC	FCUBS14.7.0.4.0: BCDTRONL SCREEN SETTLEMENT ACCOUNT MODIFICATION	Validation corrected on subsystem pickup.
14	36312206	LC	UAT-OBTFPM-IMPORT LC AMENDMENT-CHNG_REB ADVISE ERROR.	Fix provided if the advice CHNG_REB and medium is MAIL and Suppress flag is enabled then system won't display any error. If the advice CHNG_REB and medium is MAIL and suppress flag is disable, then system should display error like "Invalid media for the advice CHNG_REB"

15	36313135	BG	GUARANTEE AMED BENE CONSERN- TRANSACTION LEVEL INSTRUCTION NOT HANDED OFF	Fix provided to validate when Transaction level instruction not provided during amendment with Beneficiary Confirmation Required and during amendment confirmation if Transaction level instruction provided. then system should display below error. 'Transaction wise Instructions cannot be modified - IF-TFINS-09'
16	36313942	BG	P2 14.7 OBTFF INCORRECT ERROR DURING CLAIM LODGMENT OF ISSUE TYPE OF GTEE	Validation relaxed for issue type of guarantee.
17	36317228	BC	EXPORT COLLECTION UPDATE - SIMULATION ERROR WHEN INTEREST AND CHARGES PROVIDED	Amendable released for CCY fields of Drawer/Drawee IC for the source OBTFFPM.
18	36317726	GW	CUSTOMER INSTRUCTION - UNABLE TO AUTHORISE	Code modified to check module and language while retrieving product type description.
19	36332670	CO	UAT-OBTFF-IMPORT LC AMENDMENT-LC AMENDMENT INSTRUMENT COPY	Provided fix to suppress LC_AM_INST_COPY if LC_AMND_INSTR is suppressed during amendment confirmation
20	36338443	CO	OBTFF_LAMS EVENT PASSED DUPLICATE ENTRIES IN FCUBS	EA Process call restricted for the Batch process during authorization. which is already call on save.
21	36340809	BC	BC CONTRACT: MATURITY DATE IS REDUCING BY 1 DAY ON CLICK OF SUBSCREENS	Code corrected to retain the maturity date when time zone is EST.
22	36341479	BG	GUARANTEE AMEND CONFIRMATION LC_CASH_COL_ADV NOT SUPPRESSED BY DEFAULT	Fix provided if collateral not collected during amendment, then LC_CASH_COL_ADV advice should be suppressed.
23	36342312	LC	OBTFF - 14.7.0.1.0 - UAT :: AE :LCDAMEND GETTING UNHANDLED EXCEPTION	For reimbursement type products, Beneficiary confirmation flag should not be enabled. Validation has been added for it.
24	36346164	BC	EXPORT COLLECTION BOOKING- TRACER DETAIL NOT HANDING OFF	Code Modified to skip payment tracer reset when payment tracer not enabled in product.
25	36347706	LC	IMPORT LC AMENDMENT BEN CONSENT - HANDOFF ISSUES	Fix provided to consider added/modified upload documents during amendment confirmation.
26	36356033	LC	UAT-OBTFFPM-IMPORT LC AMENDMENT-MODIFICATION IN ORIGNAL AND COPIES	Code changes done if the document description is null.
27	36361294	LC	OBTFFPM - 14.7.0.1.0 UAT :: AE EXPORT LC CANCEL UAE ERROR REG SHIPPING GUARANTEE	Release fix to cancel the back-to-back LC
28	36361595	LC	OBTFFPM - 14.7.0.1.0 - UAT EXPORT LC AMENDMENT (INTERNAL) DE STAGE CHARGE SIMULAT	Assignee Account validation has removed.
29	36367942	BG	MISSING NODES IN QUERYCONTRACTVERSIONIO WRT QUERYCONTRACTIO FOR COPY AND INITIATE CONTRACT IN OBDX	Missing fields added.
30	36377640	BG	GUARANTEE ENQUIRY - SWIFT MESSAGE ISSUE, TAXES ISSUE	Fix provided to display taxes for latest events for simulation API's and for all events for normal API's.
31	36387680	BG	GUA INTERNAL AMENDMENT - DEBIT ADVISE FORMAT	Code modified to have separate label for Guarantee and Standby LC contract amount.

32	36389124	ALL	TRANSFER LC-AMEND- CHARGE SETTLEMENT ACCOUNT	Fix provided to consider modified account from Settlements subsystem during amendment with Beneficiary Confirmation Required through Gateway.
33	36393506	BC	IMPORT DOCUMENTARY COLLECTION RETURN/CLOSE - CHARGE SIMULATION FAILED	code corrected to copy multitenor details during close.
34	36398100	BG	GUA ADVISE CLAIM SETT- MT799 GENERATED IS NOT IN THE READABLE FORMAT	Fix provided to get the decomposed swift format in response during claim settlement simulation.
35	36398386	BG	MIS CODE BG CONTRACT	Code corrected to populate the Mis details in contract level.
36	36401852	MS	P2 SWIFT2023_PS3 : ISSUES OBSERVED IN LC CONTRACT CREATED AFTER INCOMING MT700	Fix provided for assigning Amount in local currency and as per the design if Tenor is value is 0 then appending string SIGHT
37	36402448	MS	MSSTFCAD SCREEN NOT FETCHING DATA	Tank Modification flag unchecked from MSSTFCAD rad.
38	36409022	CO	UAT-OBTF-LC CURRENCY NOT EQUAL TO BILL CURRENCY- INCORRECT ERROR DESCRIPTION	Modified the error message as below Bill Currency not equal to LC Currency.
39	36413698	LC	FOR 2 LC CONTRACT PUT ON HOLD ON 23.02.2024 COULD NOT SAVE LATER	Fix is provided to skip the ECA call if ECA_ONLINE parameter is 'Y'
40	36417638	BC	CAN NOT AUTHORIZE BC CONTRACT	Fix Provided to re-set the Snapshot variable during PreExecuteQuery.
41	36417860	LC	QC-464 SYSTEM CREATES ENTRIES IN LQ MODULE THOUGH THE AR-AP IS UN CHECKED IN CON	Code modified to restrict charges and commission movement to LQ when contract level AR-AP tracking is disabled.
42	36417915	LC	LC REINSTATEMENT ERROR - LCCON-049	Fix provided to restrict rollover before next reinstatement date. System will allow to rollover on or after next Reinstatement date.
43	36418375	BC	IMPORT DOCUMENTARY COLLECTION LIQUIDATION:TF-EPS-005	Unused code as commented.
44	36422590	ALL	ECA CHECK IN LCEOD CLIQ	Code Modified to include EAC in LCEOD CLIQ and Merged Performance changes of LC Accruals.
45	36428480	BG	OBTFPM-14.7.0.1.0- UAT::GURANTEE ISSUANCE AMENDMENT BENEFICIARY CONSENT ISLAMIC	Amend nodes records removed for the lctbs_amnd_vals_parties table for Islamic Guarantee confirm operation.
46	36433921	LC	OBTFPM - 14.7.0.1.0 - UAT :: PARTIAL CONFIRMATION FLAG IN EXPORT LC	NVL condition for the column is handled to resolve the issue.
47	36434028	CO	QC-465 ISSUES OBSERVED ON COMMISSION RATE CHANGE FOR GUARANTEES	error message changed to "Commission Amount derived and Initial commission amount provided are different. Kindly remove or provide correct commission amount.
48	36434076	LC	P1 AMENDCONFIRM FROM WESERVICE FOR LC AND BG GOING AUTO AUTHORIZE	During HOLD operation also default values will be assigned to resolve the issue.
49	36440836	AED	EOD ABORT IN AE ENTITY	When there is failure response from FCUBS and user deletes the transaction, ECA status to be updated as "K".
50	36448700	LC	QC599- LCDGUONL - THOUGH REFERENCE & DATE FOR APB PARTY IS CAPTURED SYSTEM DISPL	Override message as modified for the error code LCCON-140

51	36457744	LC	OBTFFPM - 14.7.0.1.0 - UAT :: CLIQ EVENT ENTRIES IN SETTLEMENT DETAILS	changes have been done to CLIQ event details along with version creating events.
52	36458052	BC	OBTFFPM - 14.7.0.1.0 - UAT :: MT 756 WRONG VALUE DATE CAPTURED	Fix provided to populate credit value date in tag 33A.
53	36458065	BG	USER STORY -CLAIM BANK & REF NO - VALIDATION FOR CLAIM REFERENCE NUMBER	Code has been added to validate X character set for Claiming Bank Reference field. System will raise an configurable override "BC-SWIFT35 - The field Claiming Bank Reference has characters that are not supported by SWIFT".An override "LC-CLM- 047 - Claiming Bank Name and Address should be same as contract party details" and default the contract party details in claiming bank details section.
54	36459073	LC	OBTFFPM-14.7.0.1.0 - UAT - GUARANTEE ISSUANCE CLOSURE PRN ISSUE	Code changes done to not to show the AMNV related advice during query operation.
55	36459431	BG	USER STORY -CLAIM BANK & REF NO - MT 799 - TAG 79 NARRATIVE	User can change the FFT description. updated FFT description is mapped against tag 79 in MT799. As discussed, introduced configurable override error message. It will get displayed when no FFT is attached against advices.
56	36459472	BG	USER STORY -CLAIM BANK & REF NO - MT 202 RECEIVER TO BE CHANGED FROM ABK	Released fix to map the right party for the Payment message advice and reviver details properly mapped in the MT202 Message.
57	36459490	CO	UNAUTH TRANSCATION CAUSING FAILURE IN EOD	Code modified to disable the incoming swift check for tftb_accounting_txn auth.
58	36461564	BG	USER STORY -CLAIM BANK & REF NO - REJECT CLAIM - MT 786 NOT SENDING TO CLAIM BANK	Fix is released to map the right receiver party for the GUA_CLAIM_REJ Advice.
59	36461628	LC	EXPORT LC AND TRANSFER LC AMENDMENT ERROR - FOR BALANCE AMOUNT AND REJECTION	Fix provided to validate and display below error if the o/s balance is becoming negative during amendment with Beneficiary Confirmation. Invalid Modification. Current availability, o/s liability cannot be negative - LCCON-040
60	36462421	BC	UNABLE TO UNLOCK AND SAVE LIQUIDATION DETAILS IN BC	Validation restricted if eca online is Y.
61	36464188	BC	UAT-OBTFFPM-IMPORT LC LIQUIDATION-PREVIEW MESSAGES EMPTY.	BILL_LIQ_AMTEQ is included to process split settlement.
62	36464778	ALL	OBTFFPM - 14.7.0.1.0 - UAT :: EXPORT LC TRANSFER- F49 CONFIRM INSTRUCTION SHOWIN	Confirmation instruction tag value will be populated based on the user input from LCDTRANF - customer instruction field.
63	36471176	ALL	ISLAMIC IMPORT TAX AMOUNT WRONGLY CAPTURED	Code modified to correct the Islamic Bills function id so that tax details will come in the response.
64	36474840	BG	OBTFFPM - 14.7.0.1.0 - UAT::AE :GUARANTEE CANCELLATION ISLAMIC- CHARGE SIMULATION	Validation corrected.
65	36474958	LC	UAT-OBTF-LCDGCLP-SAVE FAILING	Code modified to default the settlement instruction for the counterparty.
66	36480486	CO	UAT-OBTF-BCDPRMNT-IMPORT COLLECTION BILL DISCOUNTING	Validation corrected such that error is thrown when collection to discount flag is checked for a import product with tenor code s.

67	36482833	BG	GUA_LEG_INJ_MSG - LC-CLM-055 - MANDATORY FFT- 'GUA_LEG_INJ'	Released fix to default FFT for GUA_LEG_INJ_MSG during simulation call
68	36485238	ALL	OBTF_14.7.X_R2UAT_SYSTEM IS NOW SHOING THE PARTY LIMITS FOR CONTRACT 032LSRG2226	Code corrected to fetch the limit details correctly on query.
69	36486579	LC	TRADE 360 DEGREE TAKES 50 SECONDS . QUERY LINE DETAILS WE SEE IS BEEN DONE WITHOUT LIAB ID	New function introduced to fetch limit details for specific Liability number.
70	36490945	LC	P2 UAE-41655 SWIFT2023_PS3 : ISSUES OBSERVED IN LC CONTRACT AMENDMENT AFTER INCOMING MT707 UPLOAD	For Amendment version is not visible in LCDTRONL, Code changes done to show the version properly in LCDTRONL. For Outgoing MT707 is generated with module procedure error, as the override mention looks like the values provided is not supported by SWIFT. Please check and provide the supported swift characters.
71	36496149	LC	14.7.0.5.0_LCDGUONL AMENDMENT	Code Modified to delete accounting entries during deleting of ECA_ONLINE cases.
72	36505746	LC	WHEN REOPEN THE CLOSED LC CONTRACTS, DRAFT DETAILS ARE DISAPPEAR FROM CONTRACT	Fix provided to retain Draft details during LC Reopen.
73	36506195	BG	USER STORY -CLAIM BANK & REF NO - UNABLE TO CHANGE TO OTHERS FOR CLAIMING BANK FOR ISLAMIC	Code changes done to save with claiming bank with others.
74	36507341	LC	UAT-OBTFPM-IMPORT LC CANCELLATION-VAT NOT POPULATING FOR CHARGE COMPONENT.	Code changes done to populate the tax details during cancel from LC amendment.
75	36507883	LC	LCDGUONL LIMIT UTIL FOR ECA FAILED CASE	Code Modified to process the ELCM request after ECA online.
76	36510089	BG	BG CONTRACT OUTSTANDING AMOUNT NOT UPDATES	smpks call is returning false, the bill due amount calculation and validations below are skipped. Hence commented the return false.
77	36513645	BC	UNABLE TO LIQUIDATE BILLS & COLLECTIONS PAYMENT INPUT BCDTRPAY	Code added to skip next component's amount paid if total paid is already allocated to previous components.
78	36523175	LC	MT707 AND MT708 ISSUE	Fix provided to do not generate 45B tag when modified/deleted From Place, To Place, Port Loading and Port Discharge fields during amendment with Beneficiary Confirmation Required.
79	36526573	BC	PARTY IDENTIFIER FIELD REQUIRED IN BCDTRONL SCREEN	If user provide Ordering Institution1 value start with / followed by account number, then system will passed to OBPM for the field dbtragtacothrid .
80	36539102	CO	OBTF-14.7.0.1.0-UAT::EOD FAILED WITH	Assigned error code LC-EOD-0001 for failure, so you will not get the error code DV-BCH-071 from the application layer.
81	36542620	BG	GUARANTEE UNLOCK ECA RELEASE ISSUE	Code modified to move the close ECA process outside the autonomous transaction of ECA online.
82	36552999	BC	OBTFPM - 14.7.0.1.0 - UAT :: EXPORT LC - AOP DETAILS ERROR	Error description changed for the error code LC-VALS-814.

4.1 Common Core Issues resolved in this Patch-Set Release

No	RPTNO	Module	Issue Description
1	35183728	PM	REDWOOD CHANGES
2	35849582	INFRA	CUSTOMER LANDING PAGE- THE SIGNATORES ARE NOT HAVING THE FILTER CRITERIA DISPLAYING THE CUSTOMER NAME
3	36186498	GW	CREATEUPTRANSACTION HAVING CORRELATION AND MSG ID DIFFERENT IN RESPONSE
4	36194629	CO	PRECISION DIFFERENCE IN CYTM_FWDRATE_HISTORY BETWEEN 10.5 AND 14.7
5	36214457	IF	P2 14.7 OBTFF INCOMING MT 700 GOING INTO REPAIR IN CASE 44A,B,E,F>65 CHR IS PASS
6	36234775	PM	ISSUE IN BIC DIRECTORY UPLOAD
7	36244446	INFRA	HOT KEYS F10, F11, F12 NOT WORKING IN NON-EXTENSIBLE CALLFORMS
8	36293363	PM	OBP DOES NOT PROCESS INCOMING MX MESSAGES WITH XML NAMESPACE PREFIX
9	36300919	PX	T2_ADMI.007 WITHOUT HEADER IS NOT REACHING OBPM
10	36301451	INFRA	EXTBRANCH.JS IS NOT REQUIRED- REMOVE THE DEPENDENCY
11	36338169	CO	ELCM - CAN NOT AUTHORIZE COLLATERAL
12	36345697	CO	MSDMGMCS :: IF TWO OR MORE UDF FIELDS ARE MAPPED FOR SCREEN, UDF VALUES ARE NOT BEING RETAINED AFTER SAVING.
13	36361335	PM	SSDUSRDF- AUTO AUTHORIZATION NOT WORKING.
14	36386815	PB	CONT 36142152 - OBPM::PBDOTONL:: UNABLE TO UPLOAD DOCUMENTS IN PBDOTONL SCREEN
15	36389305	CORE	STANDALONE UI EAR DEPLOYMENT ISSUE
16	36401948	PM	MSDHPROF, MSSSPROF, MSDMGMCS - LABEL DESCRIPTION NOT GETTING DISPLAYED PROPERLY AND HEADER PROFILE LOV NOT WORKING FOR SCREEN MSDMGMCS
17	36449642	CO	UDDUDFMT- THE OPTION 'AMENDABLE IS UNCHECKED, BUT USERS STILL CAN EDIT THE UDF
18	36454789	RT	GATEWAY SERVICE SUPPORT FOR RETAIL TELLER MODULE.
19	36457848	LC	HOLD & UN-AUTHORIZED' FOR LC AMENDMENT SERVICE (CREATEAMENDCONFIRM FROM 'FCA
20	36199488	CORE	USER CREATION ERROR DUE TO VALIDATION FAILED FOR USERIDENTIFICATION FIELD VIA WS

21	36361335	PM	SSDUSRDF- AUTO AUTHORIZATION NOT WORKING.
----	----------	----	---

5. Enhancements in this Patch-Set Release

No	RPTNO	Module	Bug Description	Release Note
1	36164592	BC	BCDTRONL - CHANGE OF OPERATION VALIDATION	During Change of operation, New operation provided is validated against allowed operations at product level. Older validations on change of operations are commented.
2	36254665	CO	IN BCDTRONL, INSTRUCTIONS FOR ADVICES NOT AVAILABLE IN THE PROPER LANGUAGE	Code added to allow to provide/list FFT and Instruction from all languages

6. Extensibility Changes

No	RPTNO	Module Name	Release Notes
1	36527405	CO	HOOK Provided.

7. Forward Ported Issues

No	RPTNO	Module	Issue Description
1	36381656	LC	OBTFFPM - 14.7.0.1.0 UAT :: AE EXPORT LC CANCELL UAE ERROR REG SHIPPING GUARANTEE
2	36486310	ALL	OBTFFPM - 14.7.0.1.0 - UAT :: COMMON GROUP MESSAGE - MT791 - HANDOFF
3	36495355	BC	OBTFFPM-14.7.0.1.0-R2UAT:EXPORT LC DRAWING ISLAMIC:CHARGE SIMULATION ERROR

8. Documentation

No	RPTNO	Module	User Manual

9. Additional Note

No	RPTNO	Module Description	Earlier Flow	Current Flow



Patch Release Note [May]
[2024]
Version 14.7.0.6.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
www.oracle.com/financialservices/

Copyright © [2024], Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.