

Release Notes
Oracle Banking Electronic Data Exchange for Corporates
Release 14.5.0.0.0

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ORACLE®

Release Notes
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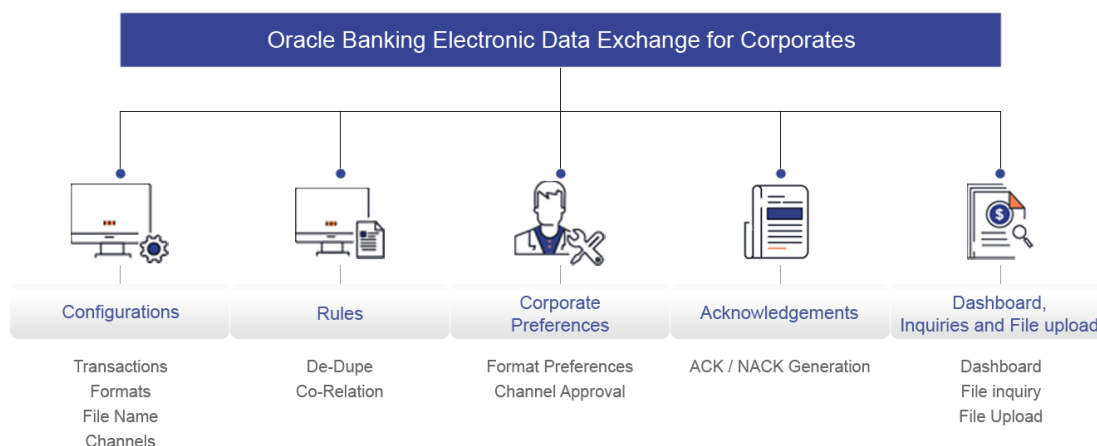
1. INTRODUCTION

Oracle Financial Services Software Limited has introduced a new product named as 'Oracle Banking Electronic Data Exchange for Corporates'. It is a holistic solution for high volume data transfer between banks and their corporate clients which performs orchestration of the files across bank's portal and product processors.

Apart from traditional data exchange capabilities, Oracle Banking Electronic Data Exchange for Corporates provides the mechanism to send acknowledgments and responses to the corporates at various stages of the file processing. The detailed file enquiry feature of the product provides the file/record status, error encountered and the pending statuses of the file to the bank user.

Electronic Data Exchange comes pre-integrated with Oracle Digital Banking Experience (internet/channel banking product) and facilitates the approval of files on channel banking, if the corporate wishes to.

Oracle Banking Electronic Data Exchange for corporates is introduced to meet various challenges faced by financial institutions in the Corporate Banking segment in processing bulk data. The below diagram provides a synopsis of functionalities developed as part of our 14.5.0.0.0 release:



2. RELEASE HIGHLIGHT

2.1 Configurations

Transaction Maintenance

This screen allows the bank user to view the various transactions for which corporate can opt for sending data for processing.

Format Maintenance

Using this maintenance, bank user can define the formats supported for different transaction types at the Bank level.

File Name Maintenance

File name template is used for defining the naming convention so that the system can read the meta-data from the file name. This screen comes with a set of predefined attributes that can be leveraged to define the file name.

Channel Maintenance

Using this maintenance, bank user can define the channels/ mode of file transfer between banks and Corporate.

2.2 Rules

De-Dupe Rules

Using this maintenance, Bank user can setup duplicate checking conditions at file or record level.

Co-relation Rules

Using this maintenance, bank user can setup co-relation rules that help to reconcile the record status received from the product processor for the hand-off response to generate the response file.

2.3 Corporate Preferences

Transaction and Format Preferences

Using this maintenance, bank user can register and define Corporate's preferences for Host-to-Host transactions

Approval Criteria

Bank user can also specify the conditions under which the file will be sent for corporate user approval on internet banking (Oracle Banking Digital Experience) before processing.

2.4 **ACK/NACK and Response**

Multi Level ACK/NACK/Response file Generation

Using this maintenance, bank can generate acknowledgements that can be positive or negative and response files for sending them to corporate system. These acknowledgement and response files are also displayed to the bank users for troubleshooting and analysis.

2.5 **Dashboard, Inquiries and File upload**

Our dashboard has been designed with various widgets that provide the information regarding the processing status of files and records across modules. It also provides the information regarding the corporates who are sending the most number of records/files for processing.

File Inquiry

A summarized and detailed file level inquiry has been provided to enable bank user to view all the details of files received for processing along with its processing status.

File Upload

Using this maintenance, bank user can manually upload a file when corporate is facing issues in sending the file using the defined network connectivity.

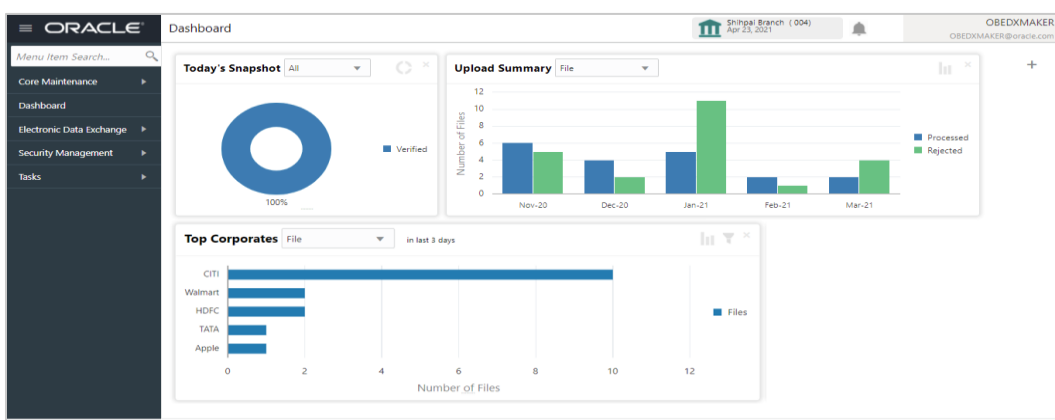
3. FEATURES

3.1 Dashboard ,File Inquiry and File Upload

3.1.1 Dashboard

Oracle Banking Electronic Data Exchange for Corporates' Dashboard provides the summary of key information about processed files. The graphical representation will help the bank user analyze the data and act.

The dashboard is organized in the form of widgets. Role based access can be granted to the bank users. Bank user can drag, resize, and auto adjust the size, and expand / collapse the widget.



Following are the list of widgets available on our dashboard:

Today's Snapshot

This widget provides a quick overview of the current day's files received for processing across various transaction category on a pie chart

Upload Summary

This widget displays the total files/records received for processing in past six months, with status of the files on a Bar chart.

Top Corporates

This widget displays information regarding corporates who have sent maximum number of file /records for processing.

3.1.2 File Inquiry

Oracle Banking Electronic Data Exchange for Corporates provides a summarized and detailed inquiry screen to view the files that have been received for processing.

All stages of the file - previous, current and pending - are available on this screen.

Along with the status of the file, any errors encountered during the file lifecycle are also available on this screen. Screen provides a detailed information about the ACKs/NACKs sent, channel approval status, de-dupe and reconciliation status of individual record. Screen also provides an option to download the ACK/NACK response, handoff files and response file.

Summarized View:

ORACLE

Dashboard

Shihpai Branch (004)
Apr 23, 2021

OBEDXMAKER@oracle.com

File Inquiry

Reference No & Upload Date	Corporate Id & Alias Name	Corporate Name	File Name	Format ID	Transaction Details	Current Status
50 25 Apr 2021, 10:37:00 AM	1 Walmart	Customer1	Walmart_MTI01_IPT_240421130002	MTI01 Incoming	Payment Financial IFT	Transaction Dedupe Check Completed 25 Apr 2021, 10:37:26 AM
49 23 Apr 2021, 08:28:00 PM	1 Walmart	Customer1	Walmart_MTI01_IPT_240421130001	MTI01 Incoming	Payment Financial IFT	Transaction Dedupe Check Completed 24 Apr 2021, 08:28:34 PM
47 23 Apr 2021, 07:55:32 PM	1 Walmart	Customer1	Walmart_MTI01_IPT_240421130000	MTI01 Incoming	Payment Financial IFT	Transaction Dedupe Check Completed 24 Apr 2021, 07:56:05 PM
90 23 Apr 2021, 05:30:00 AM	6 Apple	Customer6	IFT_PAIN002	MTI01 Incoming	Payment Financial IFT	File Reception Completed 25 Nov 2020, 05:30:00 AM
98 23 Apr 2021, 05:30:00 AM	6 Apple	Customer6	IFT_PAIN002	MTI01 Incoming	Payment Financial IFT	File Name Check Completed 24 Nov 2020, 05:30:00 AM
96 23 Apr 2021, 05:30:00 AM	6 Apple	Customer6	IFT_PAIN002	MTI01 Incoming	Payment Financial IFT	File Reception Completed 25 Nov 2020, 05:30:00 AM
92 23 Apr 2021, 05:30:00 AM	6 Apple	Customer6	IFT_PAIN002	MTI01 Incoming	Payment Financial IFT	File Name Check Completed 24 Nov 2020, 05:30:00 AM
93 24 Mar 2021, 05:30:00 AM	1 Walmart	Customer1	Walmart_MTI01_IPT_240421130001	MTI01 Incoming	Payment Financial IFT	File Name Check Completed 24 Mar 2021, 05:30:00 AM
95 24 Mar 2021, 05:30:00 AM	1 Walmart	Customer1	Walmart_MTI01_IPT_240421130000	MTI01 Incoming	Payment Financial IFT	Pre Parsing Check Completed 24 Mar 2021, 05:30:00 AM
94 24 Mar 2021, 05:30:00 AM	1 Walmart	Customer1	Walmart_MTI01_IPT_240421130000	MTI01 Incoming	Payment Financial IFT	Pre Parsing Check Completed 24 Mar 2021, 05:30:00 AM

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Detailed View:

ORACLE Dashboard (DEFAULTENTITY) Shihgal Branch (004) Jun 15, 2021 CORPMAKER CORPMAKER@oracle.com

File Inquiry

[Back](#)

Received
 Parsed
 Verified 17 May 2021, 02:37:59 PM
 Handoff Generated 17 May 2021, 02:37:59 PM
 Response Received 17 May 2021, 02:37:59 PM
 Response Sent to Corporate 17 May 2021, 02:37:59 PM

Stage Details: Response Sent to Corporate as on 17 May 2021, 02:37:59 PM

Response Sent to Corporate
Completed
 as on 17 May 2021, 02:37:59 PM

Ack/ Nack/ Response Status

Response Type	File Name	Channel	Status	Action
RESPONSE_FILE	Domestic Funds Transfer_20210517091553	AckChannel		Download

File Details

[Download File](#)

File Reference No. 4918	Corporate ID	Alias Name	Corporate Name
File Name WALMART_MT101_Domestic Funds Transfer_20210503135441	Upload Date 17 May 2021, 02:37:31 PM	Format ID MT101	Direction Incoming-External
Transaction Category Payment Financial	Transaction Name Domestic Funds Transfer	Number of Transactions 4	File Size 0.49 (KB)
Channel Incoming Channel 1			

Record Details

Payment Reference No.	Value Date	Currency	Amount	Debit Account No.	Credit Account No.	Beneficiary Name	Record Status
TRAP71011	5 Sep 2002, 05:30:00 AM	GBP	£12,500.00	8754219990	1091282	Beneficiary 1	Response sent to Corporate
TRAP71012	5 Sep 2002, 05:30:00 AM	GBP	£15,002.10	8754219990	8123560	Beneficiary 2	Response sent to Corporate
TRAP71013	5 Sep 2002, 05:30:00 AM	GBP	£10,000.00	8754219990	2179742	Beneficiary3	Response sent to Corporate
TRAP71014	5 Sep 2002, 05:30:00 AM	GBP	£10,000.00	8754219990	2179742	Beneficiary3	Response sent to Corporate

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3.1.3 File Upload

File upload menu in Oracle Banking Electronic Data Exchange for Corporates allows user to upload a file for a Corporate. This function is mainly given for the cases where Corporate is facing some challenge in sending the file via defined network or channel.

The type of the file (extension) to be uploaded has to be maintained in application before uploading the file. If the format of the uploaded file is not maintained in the system, the file will be rejected.

File Upload

Corporate ID: 1 Corporate Name: Customer1 Alias Name: Walmart Channel Name: IncomingExt

Drag and Drop
Select or drop files here

File Name	File Size	File Last Modified	Action
Walmart_MTI01_IJT_260421130011	934 Bytes	30 Apr 2021, 02:42:25 PM	
Walmart_MTI01_DM_260421130012	1 KB	30 Apr 2021, 02:43:20 PM	
Walmart_MTI01_IF_26042113001312	428 Bytes	28 Apr 2021, 03:53:08 PM	
Walmart_MTI01_PayeeU_260421130014	213 Bytes	11 Dec 2019, 11:57:44 AM	
Walmart_MTI01_CHP_260421130015	2 KB	28 Apr 2021, 03:57:18 PM	
Walmart_MTI01_DD_260421130016	2 KB	28 Apr 2021, 03:57:36 PM	
Walmart_MTI01_IJT_260421140017	2 KB	28 Apr 2021, 02:52:21 PM	
Walmart_MTI01_MXPayer_260421130018	213 Bytes	11 Dec 2019, 11:57:44 AM	
Walmart_MTI01_INTP_260421130019	922 Bytes	27 Apr 2021, 02:15:27 PM	
Walmart_MTI01_IJT_260421130020	431 Bytes	27 Apr 2021, 10:08:48 AM	

Upload Clear

3.2 Configurations

Following configurations have been introduced in this release:

3.2.1 Transaction Maintenance

Using this maintenance, bank user can view the various transactions for which corporate can opt for sending data for processing

Transaction Maintenance

Category	Type	Name	Description
Payment	Financial	International Funds Transfer	International Funds Transfer

3.2.2 Format Maintenance

Using this maintenance, bank user can define the formats supported for different transaction types at the Bank level.

Identifier *	Description *	Effective Date *	Expiry Date *
PAIN001	PAIN001	May 3, 2021	May 31, 2031
Version *	Transaction Category *	Type *	Format Category *
1	Payment	Handoff	Swift
Maximum Payload Size (in KB) *	Maximum Records in Payload *	Encoding *	
20000	1000000	ENCODING 5	

3.2.3 File Name Maintenance

File name template in Oracle Banking Electronic Data Exchange for Corporates can be used to customize file format type of incoming, outgoing, ACK-NACK and handoff messages.

File name template allows user to create the naming convention with the help of predefined attributes (like transaction name, format name, alias, date etc.). User can decide the order of these attributes as per naming convention and provide the length, padding characters along with the delimiter, if any. The naming convention aids the system in reading the meta-data from the file name and process the file accordingly.

Template Details		
Template ID *	Template Description *	Format Type *
Corpincoming	Corpincoming	Incoming
Global *	Separated With Delimiter *	Delimiter *
Yes	Yes	Underscore (_)

File Name Attributes			
File Name Format *			
1 Alias Name Data Type: Alphanumeric with... Date Format: File Extension: Constant Value:	2 Format Identifier Data Type: Alphanumeric with... Date Format: File Extension: Constant Value:	3 Transaction Name Data Type: Alphanumeric with... Date Format: File Extension: Constant Value:	4 Date and Timestamp Data Type: Date and Time Date Format: yyyyMMddHHmm... File Extension: Constant Value:
Preview: Alias Name_Format Identifier_Transaction Name_Date and Timestamp			

3.2.4 Channel Maintenance

Channel maintenance allows the bank user to define the incoming channel/medium for the file into Electronic Data Exchange system. Channels can be 'Global' or 'Non-Global'. Global channels can be used by any corporate, whereas Non Global channels are defined for a specific corporate.

Channel Maintenance

Channel Details

Channel Name *	Channel Description	Direction *	Type
Incoming Channel 1	Incoming Channel 1	Incoming - External	Folder Based

Global *	Folder Path *	File Name Template *	File Name Template Preview
Yes	/home/devops/channels/incomingEx	IncomingFileNameT	Alias Name_Format Identifier_Transaction Name_Date

Scheduler Name *	Frequency
DefaultScheduler	Every 30 seconds

Policies

Concurrency Check *	Control File Extension *	File Size (in KB) *	Throttle Size *
Control File	ctl	9999	1000

3.3 Corporate Preference

Corporate Preference are required to be set up for any corporate who wants to send data for processing on Electronic Data Exchange system. In Corporate Preferences, bank user can configure transaction types that corporate can send files for processing. ACK/NACK responses and the preferred format and channel for receiving those can also be defined in this screen. Bank user can specify the transaction preferences for multiple transactions across Financial and Non-Financial Transaction categories in one go.

Corporate Preferences Maintenance

Corporate Details

Corporate ID *	Corporate Name	Alias Name *	Corporate Channel User ID
CUST1	WALMART	WALMART	paragCorpEdxUser

Incoming Channel

Channel Type *	Channel *	Number of Days for De-Dupe Check *
Global	Incoming Channel 1	6

Transaction Preferences

Transaction Category	Transaction Name *
Payment	Domestic Funds Transfer International Funds Transfer

Payment

Domestic Funds Transfer

International Funds Transfer

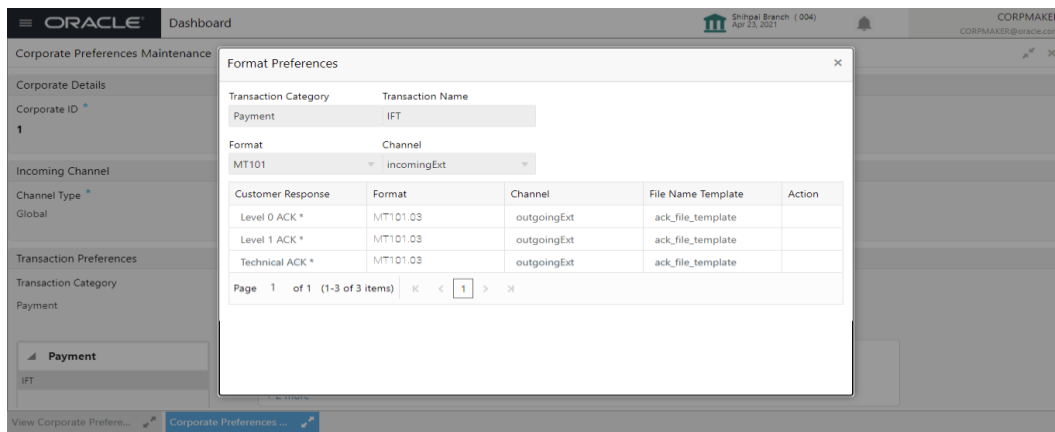
Format Channel Approval Criteria

Customer Response	Format	Channel	File Name Template
Level 0 ACK + 2 more	MT199	AckChannel	AckTemplate

MT101 - Incoming Channel 1

Customer Response	Format	Channel	File Name Template
Level 0 ACK + 2 more	MT199	AckChannel	AckTemplate

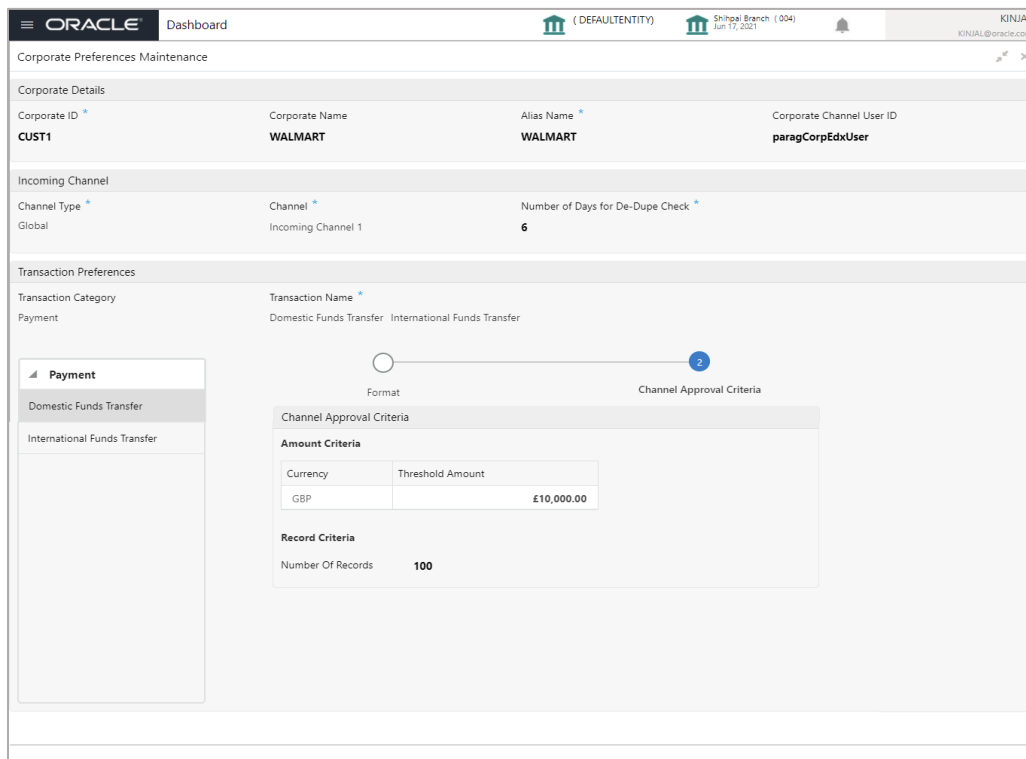
Page 1 of 1 (1-2 of 2 items) | < 1 > »



3.3.1 Channel Approval Rule

The channel approval rule can be enabled to route files to channel for approval before processing. The two conditions to trigger the routing - file threshold and number of records - can be modified by the bank user.

The files satisfying the approval condition will be sent to the Oracle Banking Digital Experience channel for further approval by corporate user, before processing.



3.4 De-dupe Rule

De-duplication rules are configured to identify duplicate files or records in the files received for processing. Data de-duplication is a process that eliminates excessive copies of data. Post syntactical validation, file transformation and record extraction in Electronic Data Exchange, de-dupe rule is run to eliminate duplicates.

Bank user can configure de-dupe rules for a file as well as for record level.

If a duplicate file is identified, the file is rejected. If a duplicate record is identified, only that record gets rejected and rest of the records are pushed for further processing.

dedupe rules Maintenance			
Rules Criteria			
Rule Name *	Rule Description *	Rule Level *	Rule Type *
Financial De-dupe Rule 1	Financial De-dupe Rule 1	File	Specific
Transaction Category *	Transaction Type *	Transaction Name *	
Payment	Financial	International Funds Transfer	
De-Dupe Attributes			
File Attributes *	Number of Days for De-Dupe Check *		
Checksum	8		

3.5 Co-relation Rule Maintenance

Using this maintenance, bank user can setup co-relation rules that help to reconcile the record status received from the product processor for the hand-off response to generate the response file.

Similar to De-dup Rules, Co-relation rules can also be configured.

corelation rules Maintenance		
Rules Criteria		
Rule Name *	Rule Description *	Transaction Name *
Co_relation Rule1	Co_relation Rule1	International Funds Transfer
Transaction Category *	Transaction Type *	
Payment	Financial	
Co-relation Criteria		
Correlation Attributes *	Format Identifier	Transaction Category
Transaction Name	Date and Timestamp	Format Category

3.6 Integration with Oracle Banking Payments

Oracle Banking Electronics Data Exchange for Corporates is integrated with Oracle Banking Payments for payment files processing. Oracle Banking Electronics Data Exchange for Corporates parses and performs de-dupe validations on the bulk file received in pain.001.001.06 format and sends the same to Oracle Banking Payments for further processing. Handoff response received from Oracle Banking Payments in pain.002.001.06 can also be parsed and reconciled for generating response file for Corporates.

3.7 ACK/NACK Framework

3.7.1 Multi Level ACK/NACK

Oracle Banking Electronic Data Exchange for Corporates supports multi-level ACK / NACK responses at various events of file processing to update the corporate about the file status depending upon the corporate preferences set up during maintenance.

In, Oracle Banking Electronic Data Exchange for Corporates the stages where the ACK /NACK response are required to generate will be specified as per below mention table.

Please refer to the below table for the ACK / NACK supported at various stages of file processing. This can be further oblige change as per bank requirement.

Stage	ACK	Mandatory /Optional	NACK	Mandatory/ Optional
Uploaded / Received	Technical ACK	Mandatory	Technical NACK	Mandatory
Schema / Syntax Validation	L0 ACK	Mandatory	L0 NACK	Mandatory
Record Extraction, Dedupe	L1 ACK	Optional	L1 NACK	Optional
Channel Approval	L2 ACK	Optional	L2 NACK	Optional
Handoff	L3 ACK	Optional	L3 NACK	Optional
After Processing	Response File	Mandatory	Response File	Mandatory

4. LIMITATIONS AND OPEN ISSUES

4.1 Limitations and open issues

NA

5. COMPONENTS OF THE SOFTWARE

5.1 Documents accompanying the software

The various documents accompanying the software are as follows:

- Release Notes
- Installer Kit
- User Manuals and Installation manuals

5.2 Software Components

Software Components of Oracle Banking Electronic Data Exchange for Corporates 14.5.0.0.0 that form part of this release are as follows:

- **Core:**
 - UI Components (Knockout, OJET, Lux)
 - The Swagger / YAML for the services supported
 - Configuration files for the services
 - Service Components
 - Tables, Sequences, Static Data
- **Installation utilities:**
 - Installation documents for Database, UI, Web services

6. ANNEXURE – A: ENVIRONMENT DETAILS

6.1 Tech Stack

Component	Machine	Operating System	Software	Version Number
Oracle Banking Electronic Data Exchange for Corporates	Application Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.4.0
			Oracle WebLogic	12.2.1.4.0
			Java HotSpot (TM) JDK (with WebLogic Application Server)	Oracle JDK 8 Update 281
	Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.10.0.0.0 (19c)
	Message Broker	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Apache Kafka	2.13-2.6.0
			Apache ZooKeeper	3.6.2
	Reporting Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle Analytics Server	5.9.0
			Repository Creation Utility	12.2.1.4.0
	Client machines browser support is strictly tied to the browser itself and no longer based on the Operating System. Current release is certified on client workstations with Windows 10 and Mac		Mozilla Firefox	Mozilla Firefox Release(87+)
			Google Chrome	Google Chrome Release(Version 88+)
			Microsoft Edge	Microsoft Edge(89+)

7. ANNEXURE – B: THIRD PARTY SOFTWARE DETAILS

For Environment details, please refer “**Section 4. Third Party Licenses**” of “Oracle Banking Electronic Data Exchange for Corporates 14.5.0.0.0 License Guide”.

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