

Gateway Documentation - FCUBSSEPAFileService
Oracle FLEXCUBE Universal Banking
Release FCUBS_12.1.0.0.0
[October][2015]



Table Of Contents

1. Background	.....	1
2. FCUBSSEPAFileService	.....	2
2.1.FileStatusUpdate	.....	2
2.1.1.SEPA-ACK-File-Req-MSG.xsd	.....	2
2.1.2.SEPA-ACK-File-Res-MSG.xsd	.....	15
2.2.SEPAFileOperation	.....	24
2.2.1.SEPA-Exchange-File-Req-MSG.xsd	.....	24
2.2.2.SEPA-Exchange-File-Res-MSG.xsd	.....	35

1. Background

Integration of different applications and solutions is a key area in today's systems. A variety of specialized applications deployed on disparate platforms and using different infrastructure need to be able to communicate and integrate seamlessly with FLEXCUBE UBS in order to exchange data. The FLEXCUBE UBS Integration Gateway (referred to as Gateway) will cater to these integration needs. The integration needs supported by the Gateway can be broadly categorized from the perspective of Gateway as follows

1. Inbound application integration :

This is used when any external system needs to add, modify or query information within FLEXCUBE UBS

2. Outbound application integration :

This is used when any external system needs to be notified of the various events that occur within FLEXCUBE UBS

The following sections provide detailed XSD documentation of all operations available in FCUBSSEPAFileService of PC Module

2. FCUBSSEPAFileService

2.1.FileStatusUpdate

2.1.1.SEPA-ACK-File-Req-MSG.xsd

FILESTATUSUPDATE_IOPK_REQ

FCUBS_HEADER

SOURCE

UBSCOMP

MSGID

CORRELID

USERID

BRANCH

MODULEID

SERVICE

OPERATION

SOURCE_OPERATION

SOURCE_USERID

DESTINATION

MULTITRIPID

FUNCTIONID

ACTION

MSGSTAT

PASSWORD

ADDL

PARAM

NAME

VALUE

FCUBS_BODY

SEPA-ACK-File-Req-MSG

AckFile

Envelope

TransactionRef

FcssiRef

TransferRef
Status
TransferAnswer
MsgId
CreationTime
ackdescription
RejectInfo
Size
digeststatus
GblStatus
 Severity
 Code
 Parameter
 Text
 action
 Details
 Code
 Text
 Action
Responder
ResponseRef
PdIndication
PdEmissionTime

FILESTATUSUPDATE_IOPK_REQ

Attribute	Description
Name	FILESTATUSUPDATE_IOPK_REQ
Datatype	
Description	

FCUBS_HEADER

Attribute	Description
Name	FCUBS_HEADER
Datatype	
Description	

SOURCE

Attribute	Description	
Name	SOURCE	
Datatype	string	
Description	This is the code for the system which has sourced this message. For request messages, this field has to contain the source code for the partner system as maintained within FLEXCUBE UBS. In case of response messages this field will contain "FLEXCUBE".	
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

UBSCOMP

Attribute	Description	
Name	UBSCOMP	
Datatype	string	
Description	This is the component of FLEXCUBE for which this message is meant. Gateway supports both FLEXCUBE UBS and FLEXCUBE Investor Services. If the message is for FLEXCUBE UBS then this field should contain "FCUBS" and "FCIS" if meant for FLEXCUBE Investor Services. This field is case-sensitive.	
Restrictions		
	Restrictions	Description
	enumeration	FCUBS,FCIS

MSGID

Attribute	Description	
Name	MSGID	
Datatype	string	
Description	This is the "unique" message ID for this message. In inbound messages, if this field is present then Gateway would perform technical duplicate recognition using this field. For all messages going out from Gateway, Gateway will populate a unique message ID in this field.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

CORRELID

Attribute	Description	
Name	CORRELID	
Datatype	string	
Description	This is the correlation ID for the message. Gateway supports 2 correlation patterns, namely "Message ID to Correlation ID" (M2C) and "Correlation ID to Correlation ID" (C2C). While using asynchronous means of communication (like a JMS queue), the partner system can correlate the response received from Gateway to the request message sent by it using this field. If the correlation pattern is M2C then this field will contain the MSGID of the request message. If the correlation pattern is C2C then this field will contain the CORRELID of the request message.	

Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

USERID

Attribute	Description	
Name	USERID	
Datatype	string	
Description	This is the user id which will be used within FLEXCUBE to record the transaction. This needs to be a valid user id as maintained within FLEXCUBE.	
Restrictions	Restrictions	Description
	maxLength	12
	pattern	[A-Z_0-9]*

BRANCH

Attribute	Description	
Name	BRANCH	
Datatype	string	
Description	This is the Branch of FLEXCUBE where the transaction would be recorded. This needs to be a valid Branch code as maintained in FLEXCUBE.	
Restrictions	Restrictions	Description
	length	3
	pattern	[a-zA-Z_0-9]{3}

MODULEID

Attribute	Description	
Name	MODULEID	
Datatype	string	
Description	This field is applicable only if messages are being sent to FCIS using Gateway. This is the module id of FCIS where the transaction will be recorded.	
Attribute	Attribute	Description
	minOccurs	0

SERVICE

Attribute	Description
Name	SERVICE
Datatype	string
Description	This field should contain the code of the Service of FLEXCUBE which is being requested. This field is case-sensitive.

Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

OPERATION

Attribute	Description	
Name	OPERATION	
Datatype	string	
Description	This is the operation of the service which is being invoked. This field is case-sensitive.	
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_OPERATION

Attribute	Description	
Name	SOURCE_OPERATION	
Datatype	string	
Description	This is the code for the operation being invoked in the Source system. The code of Source Operation being sent needs to be maintained as a valid Source Operation for the Source within FLEXCUBE.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_USERID

Attribute	Description	
Name	SOURCE_USERID	
Datatype	string	
Description	This is the user id in the Source system who is performing the action.	
Attribute		
	Attribute	Description
	minOccurs	0

DESTINATION

Attribute	Description	
Name	DESTINATION	
Datatype	string	
Description	This the system for which this message is destined. In case of request messages to FLEXCUBE, it should be "FLEXCUBE". In case of response, the SOURCE from the request message is reproduced here.	
Attribute		
	Attribute	Description
	minOccurs	0

Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MULTITRIPID

Attribute	Description	
Name	MULTITRIPID	
Datatype	string	
Description	In response messages, this is the ID sent by FLEXCUBE in case any overrides are encountered. In request messages, the source system is expected to reproduce the MULTITRIPID from the earlier received response if the source system accepts the overrides.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

FUNCTIONID

Attribute	Description	
Name	FUNCTIONID	
Datatype	string	
Description	This is the function in FLEXCUBE which is being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	8
	pattern	[A-Z_0-9]*

ACTION

Attribute	Description	
Name	ACTION	
Datatype	string	
Description	This is the action on the function being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MSGSTAT

Attribute	Description	
Name	MSGSTAT	
Datatype	string	
Description	In response messages, FLEXCUBE will indicate the status of the request in this field. The various values are "SUCCESS", "WARNING" and "FAILURE".	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	enumeration	SUCCESS,WARNING,FAILURE

PASSWORD

Attribute	Description	
Name	PASSWORD	
Datatype	string	
Description		
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	128
	pattern	[a-zA-Z_0-9=+/*]

ADDL

Attribute	Description	
Name	ADDL	
Datatype		
Description		
Attribute		
	Attribute	Description
	minOccurs	0

PARAM

Attribute	Description	
Name	PARAM	
Datatype		
Description		
Attribute		
	Attribute	Description
	minOccurs	0
	maxOccurs	unbounded

NAME

Attribute	Description	
Name	NAME	
Datatype	String	
Description		

VALUE

Attribute	Description
Name	VALUE
Datatype	String
Description	

FCUBS_BODY

Attribute	Description
Name	FCUBS_BODY
Datatype	
Description	

SEPA-ACK-File-Req-MSG

Attribute	Description
Name	SEPA-ACK-File-Req-MSG
Datatype	
Description	

AckFile

Attribute	Description
Name	AckFile
Datatype	
Description	

Envelope

Attribute	Description
Name	Envelope
Datatype	
Description	

TransactionRef

Attribute	Description						
Name	TransactionRef						
Datatype	string						
Description							
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>30</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	30	minLength	1
Restrictions	Description						
maxLength	30						
minLength	1						

FcssiRef

Attribute	Description				
Name	FcssiRef				
Datatype	string				
Description					
Attribute	<table border="1"><thead><tr><th>Attribute</th><th>Description</th></tr></thead><tbody><tr><td>minOccurs</td><td>0</td></tr></tbody></table>	Attribute	Description	minOccurs	0
Attribute	Description				
minOccurs	0				

Restrictions	Restrictions	Description
	maxLength	30
	minLength	1

TransferRef

Attribute	Description	
Name	TransferRef	
Datatype	string	
Description		
Restrictions	Restrictions	Description
	maxLength	30
	minLength	1

Status

Attribute	Description	
Name	Status	
Datatype	string	
Description		
Restrictions	Restrictions	Description
	maxLength	7
	minLength	1

TransferAnswer

Attribute	Description	
Name	TransferAnswer	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	8
	minLength	1

MsgId

Attribute	Description	
Name	MsgId	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	40
	minLength	1

CreationTime

Attribute	Description						
Name	CreationTime						
Datatype	string						
Description							
Attribute	<table border="1"><thead><tr><th>Attribute</th><th>Description</th></tr></thead><tbody><tr><td>minOccurs</td><td>0</td></tr></tbody></table>	Attribute	Description	minOccurs	0		
Attribute	Description						
minOccurs	0						
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>30</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	30	minLength	1
Restrictions	Description						
maxLength	30						
minLength	1						

ackdescription

Attribute	Description						
Name	ackdescription						
Datatype	string						
Description							
Attribute	<table border="1"><thead><tr><th>Attribute</th><th>Description</th></tr></thead><tbody><tr><td>minOccurs</td><td>0</td></tr></tbody></table>	Attribute	Description	minOccurs	0		
Attribute	Description						
minOccurs	0						
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>254</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	254	minLength	1
Restrictions	Description						
maxLength	254						
minLength	1						

RejectInfo

Attribute	Description						
Name	RejectInfo						
Datatype	string						
Description							
Attribute	<table border="1"><thead><tr><th>Attribute</th><th>Description</th></tr></thead><tbody><tr><td>minOccurs</td><td>0</td></tr></tbody></table>	Attribute	Description	minOccurs	0		
Attribute	Description						
minOccurs	0						
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>254</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	254	minLength	1
Restrictions	Description						
maxLength	254						
minLength	1						

Size

Attribute	Description				
Name	Size				
Datatype	string				
Description					
Attribute	<table border="1"><thead><tr><th>Attribute</th><th>Description</th></tr></thead><tbody><tr><td>minOccurs</td><td>0</td></tr></tbody></table>	Attribute	Description	minOccurs	0
Attribute	Description				
minOccurs	0				

Restrictions	Restrictions	Description
	maxLength	8
	minLength	1

digeststatus

Attribute	Description	
Name	digeststatus	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	5
	minLength	1

GblStatus

Attribute	Description	
Name	GblStatus	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0

Severity

Attribute	Description	
Name	Severity	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	100
	minLength	1

Code

Attribute	Description	
Name	Code	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0

Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Parameter

Attribute	Description	
Name	Parameter	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Text

Attribute	Description	
Name	Text	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

action

Attribute	Description	
Name	action	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Details

Attribute	Description
Name	Details
Datatype	
Description	

Code

Attribute	Description	
Name	Code	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Text

Attribute	Description	
Name	Text	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Action

Attribute	Description	
Name	Action	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Responder

Attribute	Description	
Name	Responder	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0

Restrictions	Restrictions	Description
	maxLength	100
	minLength	1

ResponseRef

Attribute	Description	
Name	ResponseRef	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	30
	minLength	1

PdIndication

Attribute	Description	
Name	PdIndication	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	5
	minLength	1

PdEmissionTime

Attribute	Description	
Name	PdEmissionTime	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

2.1.2.SEPA-ACK-File-Res-MSG.xsd

FILESTATUSUPDATE_IOPK_RES

FCUBS_HEADER

SOURCE

UBSCOMP
MSGID
CORRELID
USERID
BRANCH
MODULEID
SERVICE
OPERATION
SOURCE_OPERATION
SOURCE_USERID
DESTINATION
MULTITRIPID
FUNCTIONID
ACTION
MSGSTAT
PASSWORD
ADDL
PARAM
NAME
VALUE
FCUBS_BODY
SEPA-ACK-File-Res-MSG
TransactionRef
Status
FCUBS_ERROR_RESP
ERROR
ECODE
EDESC
FCUBS_WARNING_RESP
WARNING
WCODE
WDESC

FILESTATUSUPDATE_IOPK_RES

Attribute	Description
Name	FILESTATUSUPDATE_IOPK_RES
Datatype	
Description	

FCUBS_HEADER

Attribute	Description
Name	FCUBS_HEADER
Datatype	
Description	

SOURCE

Attribute	Description				
Name	SOURCE				
Datatype	string				
Description	This is the code for the system which has sourced this message. For request messages, this field has to contain the source code for the partner system as maintained within FLEXCUBE UBS. In case of response messages this field will contain "FLEXCUBE".				
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>pattern</td><td>[a-zA-Z_0-9]*</td></tr></tbody></table>	Restrictions	Description	pattern	[a-zA-Z_0-9]*
Restrictions	Description				
pattern	[a-zA-Z_0-9]*				

UBSCOMP

Attribute	Description				
Name	UBSCOMP				
Datatype	string				
Description	This is the component of FLEXCUBE for which this message is meant. Gateway supports both FLEXCUBE UBS and FLEXCUBE Investor Services. If the message is for FLEXCUBE UBS then this field should contain "FCUBS" and "FCIS" if meant for FLEXCUBE Investor Services. This field is case-sensitive.				
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>enumeration</td><td>FCUBS,FCIS</td></tr></tbody></table>	Restrictions	Description	enumeration	FCUBS,FCIS
Restrictions	Description				
enumeration	FCUBS,FCIS				

MSGID

Attribute	Description				
Name	MSGID				
Datatype	string				
Description	This is the "unique" message ID for this message. In inbound messages, if this field is present then Gateway would perform technical duplicate recognition using this field. For all messages going out from Gateway, Gateway will populate a unique message ID in this field.				
Attribute	<table border="1"><thead><tr><th>Attribute</th><th>Description</th></tr></thead><tbody><tr><td>minOccurs</td><td>0</td></tr></tbody></table>	Attribute	Description	minOccurs	0
Attribute	Description				
minOccurs	0				

Restrictions	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

CORRELID

Attribute	Description	
Name	CORRELID	
Datatype	string	
Description	This is the correlation ID for the message. Gateway supports 2 correlation patterns, namely "Message ID to Correlation ID" (M2C) and "Correlation ID to Correlation ID" (C2C). While using asynchronous means of communication (like a JMS queue), the partner system can correlate the response received from Gateway to the request message sent by it using this field. If the correlation pattern is M2C then this field will contain the MSGID of the request message. If the correlation pattern is C2C then this field will contain the CORRELID of the request message.	
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

USERID

Attribute	Description	
Name	USERID	
Datatype	string	
Description	This is the user id which will be used within FLEXCUBE to record the transaction. This needs to be a valid user id as maintained within FLEXCUBE.	
Restrictions	Restrictions	Description
	maxLength	12
	pattern	[A-Z_0-9]*

BRANCH

Attribute	Description	
Name	BRANCH	
Datatype	string	
Description	This is the Branch of FLEXCUBE where the transaction would be recorded. This needs to be a valid Branch code as maintained in FLEXCUBE.	
Restrictions	Restrictions	Description
	length	3
	pattern	[a-zA-Z_0-9]{3}

MODULEID

Attribute	Description
Name	MODULEID

Datatype	string	
Description	This field is applicable only if messages are being sent to FCIS using Gateway. This is the module id of FCIS where the transaction will be recorded.	
Attribute		
	Attribute	Description
	minOccurs	0

SERVICE

Attribute	Description	
Name	SERVICE	
Datatype	string	
Description	This field should contain the code of the Service of FLEXCUBE which is being requested. This field is case-sensitive.	
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

OPERATION

Attribute	Description	
Name	OPERATION	
Datatype	string	
Description	This is the operation of the service which is being invoked. This field is case-sensitive.	
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_OPERATION

Attribute	Description	
Name	SOURCE_OPERATION	
Datatype	string	
Description	This is the code for the operation being invoked in the Source system. The code of Source Operation being sent needs to be maintained as a valid Source Operation for the Source within FLEXCUBE.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_USERID

Attribute	Description	
Name	SOURCE_USERID	
Datatype	string	
Description	This is the user id in the Source system who is performing the action.	

Attribute		
	Attribute	Description
	minOccurs	0

DESTINATION

Attribute	Description	
Name	DESTINATION	
Datatype	string	
Description	This the system for which this message is destined. In case of request messages to FLEXCUBE, it should be "FLEXCUBE". In case of response, the SOURCE from the request message is reproduced here.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MULTIRIPID

Attribute	Description	
Name	MULTIRIPID	
Datatype	string	
Description	In response messages, this is the ID sent by FLEXCUBE in case any overrides are encountered. In request messages, the source system is expected to reproduce the MULTIRIPID from the earlier received response if the source system accepts the overrides.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

FUNCTIONID

Attribute	Description	
Name	FUNCTIONID	
Datatype	string	
Description	This is the function in FLEXCUBE which is being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	8
	pattern	[A-Z_0-9]*

ACTION

Attribute	Description	
Name	ACTION	
Datatype	string	
Description	This is the action on the function being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MSGSTAT

Attribute	Description	
Name	MSGSTAT	
Datatype	string	
Description	In response messages, FLEXCUBE will indicate the status of the request in this field. The various values are "SUCCESS", "WARNING" and "FAILURE".	
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	enumeration	SUCCESS,WARNING,FAILURE

PASSWORD

Attribute	Description	
Name	PASSWORD	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	128
	pattern	[a-zA-Z_0-9=+/*]

ADDL

Attribute	Description	
Name	ADDL	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0

PARAM

Attribute		Description	
Name		PARAM	
Datatype			
Description			
Attribute	Attribute		Description
	minOccurs		0
	maxOccurs		unbounded

NAME

Attribute		Description	
Name		NAME	
Datatype		String	
Description			

VALUE

Attribute		Description	
Name		VALUE	
Datatype		String	
Description			

FCUBS_BODY

Attribute		Description	
Name		FCUBS_BODY	
Datatype			
Description			

SEPA-ACK-File-Res-MSG

Attribute		Description	
Name		SEPA-ACK-File-Res-MSG	
Datatype			
Description			

TransactionRef

Attribute		Description	
Name		TransactionRef	
Datatype		string	
Description			
Restrictions	Restrictions		Description
	maxLength		30
	minLength		1

Status

Attribute		Description	
Name		Status	
Datatype		string	
Description			

Restrictions	Restrictions	Description
	maxLength	7
	minLength	1

FCUBS_ERROR_RESP

Attribute	Description	
Name	FCUBS_ERROR_RESP	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0
	maxOccurs	unbounded

ERROR

Attribute	Description	
Name	ERROR	
Datatype		
Description		
Attribute	Attribute	Description
	maxOccurs	unbounded

ECODE

Attribute	Description	
Name	ECODE	
Datatype	String	
Description		

EDESC

Attribute	Description	
Name	EDESC	
Datatype	String	
Description		

FCUBS_WARNING_RESP

Attribute	Description	
Name	FCUBS_WARNING_RESP	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0
	maxOccurs	unbounded

WARNING

Attribute	Description	
Name	WARNING	
Datatype		

Description		
Attribute		
	Attribute	Description
	maxOccurs	unbounded

WCODE

Attribute	Description
Name	WCODE
Datatype	String
Description	

WDESC

Attribute	Description
Name	WDESC
Datatype	String
Description	

2.2.SEPAFileOperation

2.2.1.SEPA-Exchange-File-Req-MSG.xsd

SEPAFILEOPERATION_IOPK_REQ

FCUBS_HEADER

SOURCE

UBSCOMP

MSGID

CORRELID

USERID

BRANCH

MODULEID

SERVICE

OPERATION

SOURCE_OPERATION

SOURCE_USERID

DESTINATION

MULTITRIPID

FUNCTIONID

ACTION

MSGSTAT

PASSWORD

ADDL

PARAM
NAME
VALUE
FCUBS_BODY
SEPA-Exchange-File-Req-MSG
IsExchangeFileRequest
Envelope
TransactionRef
TransferRef
LogicalName
PhysicalName
Crypto
MemberRef
EncryptDn
Cryptouserinfo
GblStatus
Severity
Code
Parameter
Text
action
Details
Code
Text
Action

SEPAFILEOPERATION_IOPK_REQ

Attribute	Description
Name	SEPAFILEOPERATION_IOPK_REQ
Datatype	
Description	

FCUBS_HEADER

Attribute	Description
Name	FCUBS_HEADER
Datatype	

Description	
-------------	--

SOURCE

Attribute	Description	
Name	SOURCE	
Datatype	string	
Description	This is the code for the system which has sourced this message. For request messages, this field has to contain the source code for the partner system as maintained within FLEXCUBE UBS. In case of response messages this field will contain "FLEXCUBE".	
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

UBSCOMP

Attribute	Description	
Name	UBSCOMP	
Datatype	string	
Description	This is the component of FLEXCUBE for which this message is meant. Gateway supports both FLEXCUBE UBS and FLEXCUBE Investor Services. If the message is for FLEXCUBE UBS then this field should contain "FCUBS" and "FCIS" if meant for FLEXCUBE Investor Services. This field is case-sensitive.	
Restrictions		
	Restrictions	Description
	enumeration	FCUBS,FCIS

MSGID

Attribute	Description	
Name	MSGID	
Datatype	string	
Description	This is the "unique" message ID for this message. In inbound messages, if this field is present then Gateway would perform technical duplicate recognition using this field. For all messages going out from Gateway, Gateway will populate a unique message ID in this field.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

CORRELID

Attribute	Description	
Name	CORRELID	
Datatype	string	
Description	This is the correlation ID for the message. Gateway supports 2 correlation patterns, namely "Message ID to Correlation ID" (M2C) and "Correlation ID to Correlation ID" (C2C). While using asynchronous means of communication (like a JMS queue), the partner system can correlate the response received from Gateway to the request message sent by it using this field. If the correlation pattern is M2C then this field will contain the MSGID of the	

Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

USERID

Attribute	Description	
Name	USERID	
Datatype	string	
Description	This is the user id which will be used within FLEXCUBE to record the transaction. This needs to be a valid user id as maintained within FLEXCUBE.	
Restrictions	Restrictions	Description
	maxLength	12
	pattern	[A-Z_0-9]*

BRANCH

Attribute	Description	
Name	BRANCH	
Datatype	string	
Description	This is the Branch of FLEXCUBE where the transaction would be recorded. This needs to be a valid Branch code as maintained in FLEXCUBE.	
Restrictions	Restrictions	Description
	length	3
	pattern	[a-zA-Z_0-9]{3}

MODULEID

Attribute	Description	
Name	MODULEID	
Datatype	string	
Description	This field is applicable only if messages are being sent to FCIS using Gateway. This is the module id of FCIS where the transaction will be recorded.	
Attribute	Attribute	Description
	minOccurs	0

SERVICE

Attribute	Description
Name	SERVICE
Datatype	string
Description	This field should contain the code of the Service of FLEXCUBE which is being requested. This field is case-sensitive.

Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

OPERATION

Attribute	Description	
Name	OPERATION	
Datatype	string	
Description	This is the operation of the service which is being invoked. This field is case-sensitive.	
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_OPERATION

Attribute	Description	
Name	SOURCE_OPERATION	
Datatype	string	
Description	This is the code for the operation being invoked in the Source system. The code of Source Operation being sent needs to be maintained as a valid Source Operation for the Source within FLEXCUBE.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_USERID

Attribute	Description	
Name	SOURCE_USERID	
Datatype	string	
Description	This is the user id in the Source system who is performing the action.	
Attribute		
	Attribute	Description
	minOccurs	0

DESTINATION

Attribute	Description	
Name	DESTINATION	
Datatype	string	
Description	This the system for which this message is destined. In case of request messages to FLEXCUBE, it should be "FLEXCUBE". In case of response, the SOURCE from the request message is reproduced here.	
Attribute		
	Attribute	Description
	minOccurs	0

Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MULTITRIPID

Attribute	Description	
Name	MULTITRIPID	
Datatype	string	
Description	In response messages, this is the ID sent by FLEXCUBE in case any overrides are encountered. In request messages, the source system is expected to reproduce the MULTITRIPID from the earlier received response if the source system accepts the overrides.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

FUNCTIONID

Attribute	Description	
Name	FUNCTIONID	
Datatype	string	
Description	This is the function in FLEXCUBE which is being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	8
	pattern	[A-Z_0-9]*

ACTION

Attribute	Description	
Name	ACTION	
Datatype	string	
Description	This is the action on the function being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MSGSTAT

Attribute	Description	
Name	MSGSTAT	
Datatype	string	
Description	In response messages, FLEXCUBE will indicate the status of the request in this field. The various values are "SUCCESS", "WARNING" and "FAILURE".	
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	enumeration	SUCCESS,WARNING,FAILURE

PASSWORD

Attribute	Description	
Name	PASSWORD	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	128
	pattern	[a-zA-Z_0-9=+/*]

ADDL

Attribute	Description	
Name	ADDL	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0

PARAM

Attribute	Description	
Name	PARAM	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0
	maxOccurs	unbounded

NAME

Attribute	Description	
Name	NAME	
Datatype	String	
Description		

VALUE

Attribute	Description
Name	VALUE
Datatype	String
Description	

FCUBS_BODY

Attribute	Description
Name	FCUBS_BODY
Datatype	
Description	

SEPA-Exchange-File-Req-MSG

Attribute	Description
Name	SEPA-Exchange-File-Req-MSG
Datatype	
Description	

IsExchangeFileRequest

Attribute	Description
Name	IsExchangeFileRequest
Datatype	
Description	

Envelope

Attribute	Description
Name	Envelope
Datatype	
Description	

TransactionRef

Attribute	Description						
Name	TransactionRef						
Datatype	string						
Description							
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>30</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	30	minLength	1
Restrictions	Description						
maxLength	30						
minLength	1						

TransferRef

Attribute	Description						
Name	TransferRef						
Datatype	string						
Description							
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>30</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	30	minLength	1
Restrictions	Description						
maxLength	30						
minLength	1						

LogicalName

Attribute	Description	
Name	LogicalName	
Datatype	string	
Description		
Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

PhysicalName

Attribute	Description	
Name	PhysicalName	
Datatype	string	
Description		
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

Crypto

Attribute	Description	
Name	Crypto	
Datatype		
Description		
Attribute		
	Attribute	Description
	minOccurs	0

MemberRef

Attribute	Description	
Name	MemberRef	
Datatype	string	
Description		
Attribute		
	Attribute	Description
	maxOccurs	unbounded
Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

EncryptDn

Attribute	Description	
Name	EncryptDn	
Datatype	string	
Description		

Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	100
	minLength	1

Cryptouserinfo

Attribute	Description	
Name	Cryptouserinfo	
Datatype	string	
Description		
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

GblStatus

Attribute	Description	
Name	GblStatus	
Datatype		
Description		
Attribute		
	Attribute	Description
	minOccurs	0

Severity

Attribute	Description	
Name	Severity	
Datatype	string	
Description		
Restrictions		
	Restrictions	Description
	enumeration	F,T,L,S,W

Code

Attribute	Description	
Name	Code	
Datatype	string	
Description		
Attribute		
	Attribute	Description
	minOccurs	0

Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

Parameter

Attribute	Description	
Name	Parameter	
Datatype	string	
Description		
Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

Text

Attribute	Description	
Name	Text	
Datatype	string	
Description		
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

action

Attribute	Description	
Name	action	
Datatype	string	
Description		
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	254
	minLength	1

Details

Attribute	Description
Name	Details
Datatype	
Description	

Code

Attribute	Description
------------------	--------------------

Name	Code	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Text

Attribute	Description	
Name	Text	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

Action

Attribute	Description	
Name	Action	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	254
	minLength	1

2.2.2.SEPA-Exchange-File-Res-MSG.xsd

SEPAFILEOPERATION_IOPK_RES

FCUBS_HEADER

SOURCE

UBSCOMP

MSGID

CORRELID

USERID

BRANCH

MODULEID

SERVICE

OPERATION

SOURCE_OPERATION

SOURCE_USERID

DESTINATION

MULTITRIPID

FUNCTIONID

ACTION

MSGSTAT

PASSWORD

ADDL

PARAM

NAME

VALUE

FCUBS_BODY

SEPA-Exchange-File-Res-MSG

TransactionRef

Status

FCUBS_ERROR_RESP

ERROR

ECODE

EDESC

FCUBS_WARNING_RESP

WARNING

WCODE

WDESC

SEPAFILEOPERATION_IOPK_RES

Attribute	Description
Name	SEPAFILEOPERATION_IOPK_RES
Datatype	
Description	

FCUBS_HEADER

Attribute	Description
Name	FCUBS_HEADER
Datatype	
Description	

SOURCE

Attribute	Description				
Name	SOURCE				
Datatype	string				
Description	This is the code for the system which has sourced this message. For request messages, this field has to contain the source code for the partner system as maintained within FLEXCUBE UBS. In case of response messages this field will contain "FLEXCUBE".				
Restrictions	<table border="1"> <thead> <tr> <th>Restrictions</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>[a-zA-Z_0-9]*</td> </tr> </tbody> </table>	Restrictions	Description	pattern	[a-zA-Z_0-9]*
Restrictions	Description				
pattern	[a-zA-Z_0-9]*				

UBSCOMP

Attribute	Description				
Name	UBSCOMP				
Datatype	string				
Description	This is the component of FLEXCUBE for which this message is meant. Gateway supports both FLEXCUBE UBS and FLEXCUBE Investor Services. If the message is for FLEXCUBE UBS then this field should contain "FCUBS" and "FCIS" if meant for FLEXCUBE Investor Services. This field is case-sensitive.				
Restrictions	<table border="1"> <thead> <tr> <th>Restrictions</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>FCUBS,FCIS</td> </tr> </tbody> </table>	Restrictions	Description	enumeration	FCUBS,FCIS
Restrictions	Description				
enumeration	FCUBS,FCIS				

MSGID

Attribute	Description				
Name	MSGID				
Datatype	string				
Description	This is the "unique" message ID for this message. In inbound messages, if this field is present then Gateway would perform technical duplicate recognition using this field. For all messages going out from Gateway, Gateway will populate a unique message ID in this field.				
Attribute	<table border="1"> <thead> <tr> <th>Attribute</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>minOccurs</td> <td>0</td> </tr> </tbody> </table>	Attribute	Description	minOccurs	0
Attribute	Description				
minOccurs	0				
Restrictions	<table border="1"> <thead> <tr> <th>Restrictions</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>[a-zA-Z_0-9]*</td> </tr> </tbody> </table>	Restrictions	Description	pattern	[a-zA-Z_0-9]*
Restrictions	Description				
pattern	[a-zA-Z_0-9]*				

CORRELID

Attribute	Description
Name	CORRELID
Datatype	string
Description	This is the correlation ID for the message. Gateway supports 2 correlation patterns, namely "Message ID to Correlation ID" (M2C) and "Correlation ID to Correlation ID" (C2C). While using

Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

USERID

Attribute	Description	
Name	USERID	
Datatype	string	
Description	This is the user id which will be used within FLEXCUBE to record the transaction. This needs to be a valid user id as maintained within FLEXCUBE.	
Restrictions	Restrictions	Description
	maxLength	12
	pattern	[A-Z_0-9]*

BRANCH

Attribute	Description	
Name	BRANCH	
Datatype	string	
Description	This is the Branch of FLEXCUBE where the transaction would be recorded. This needs to be a valid Branch code as maintained in FLEXCUBE.	
Restrictions	Restrictions	Description
	length	3
	pattern	[a-zA-Z_0-9]{3}

MODULEID

Attribute	Description	
Name	MODULEID	
Datatype	string	
Description	This field is applicable only if messages are being sent to FCIS using Gateway. This is the module id of FCIS where the transaction will be recorded.	
Attribute	Attribute	Description
	minOccurs	0

SERVICE

Attribute	Description	
Name	SERVICE	
Datatype	string	
Description	This field should contain the code of the Service of FLEXCUBE which is being requested. This field is case-sensitive.	

Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

OPERATION

Attribute	Description	
Name	OPERATION	
Datatype	string	
Description	This is the operation of the service which is being invoked. This field is case-sensitive.	
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_OPERATION

Attribute	Description	
Name	SOURCE_OPERATION	
Datatype	string	
Description	This is the code for the operation being invoked in the Source system. The code of Source Operation being sent needs to be maintained as a valid Source Operation for the Source within FLEXCUBE.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

SOURCE_USERID

Attribute	Description	
Name	SOURCE_USERID	
Datatype	string	
Description	This is the user id in the Source system who is performing the action.	
Attribute		
	Attribute	Description
	minOccurs	0

DESTINATION

Attribute	Description	
Name	DESTINATION	
Datatype	string	
Description	This the system for which this message is destined. In case of request messages to FLEXCUBE, it should be "FLEXCUBE". In case of response, the SOURCE from the request message is reproduced here.	
Attribute		
	Attribute	Description
	minOccurs	0

Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MULTITRIPID

Attribute	Description	
Name	MULTITRIPID	
Datatype	string	
Description	In response messages, this is the ID sent by FLEXCUBE in case any overrides are encountered. In request messages, the source system is expected to reproduce the MULTITRIPID from the earlier received response if the source system accepts the overrides.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

FUNCTIONID

Attribute	Description	
Name	FUNCTIONID	
Datatype	string	
Description	This is the function in FLEXCUBE which is being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	maxLength	8
	pattern	[A-Z_0-9]*

ACTION

Attribute	Description	
Name	ACTION	
Datatype	string	
Description	This is the action on the function being invoked. For integration scenarios this need not be sent. This is used by FLEXCUBE native user interface.	
Attribute		
	Attribute	Description
	minOccurs	0
Restrictions		
	Restrictions	Description
	pattern	[a-zA-Z_0-9]*

MSGSTAT

Attribute	Description	
Name	MSGSTAT	
Datatype	string	
Description	In response messages, FLEXCUBE will indicate the status of the request in this field. The various values are "SUCCESS", "WARNING" and "FAILURE".	
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	enumeration	SUCCESS,WARNING,FAILURE

PASSWORD

Attribute	Description	
Name	PASSWORD	
Datatype	string	
Description		
Attribute	Attribute	Description
	minOccurs	0
Restrictions	Restrictions	Description
	maxLength	128
	pattern	[a-zA-Z_0-9=+/*]

ADDL

Attribute	Description	
Name	ADDL	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0

PARAM

Attribute	Description	
Name	PARAM	
Datatype		
Description		
Attribute	Attribute	Description
	minOccurs	0
	maxOccurs	unbounded

NAME

Attribute	Description	
Name	NAME	
Datatype	String	
Description		

VALUE

Attribute	Description
Name	VALUE
Datatype	String
Description	

FCUBS_BODY

Attribute	Description
Name	FCUBS_BODY
Datatype	
Description	

SEPA-Exchange-File-Res-MSG

Attribute	Description
Name	SEPA-Exchange-File-Res-MSG
Datatype	
Description	

TransactionRef

Attribute	Description						
Name	TransactionRef						
Datatype	string						
Description							
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>30</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	30	minLength	1
Restrictions	Description						
maxLength	30						
minLength	1						

Status

Attribute	Description						
Name	Status						
Datatype	string						
Description							
Restrictions	<table border="1"><thead><tr><th>Restrictions</th><th>Description</th></tr></thead><tbody><tr><td>maxLength</td><td>7</td></tr><tr><td>minLength</td><td>1</td></tr></tbody></table>	Restrictions	Description	maxLength	7	minLength	1
Restrictions	Description						
maxLength	7						
minLength	1						

FCUBS_ERROR_RESP

Attribute	Description						
Name	FCUBS_ERROR_RESP						
Datatype							
Description							
Attribute	<table border="1"><thead><tr><th>Attribute</th><th>Description</th></tr></thead><tbody><tr><td>minOccurs</td><td>0</td></tr><tr><td>maxOccurs</td><td>unbounded</td></tr></tbody></table>	Attribute	Description	minOccurs	0	maxOccurs	unbounded
Attribute	Description						
minOccurs	0						
maxOccurs	unbounded						

ERROR

Attribute	Description
-----------	-------------

Name	ERROR	
Datatype		
Description		
Attribute		
	Attribute	Description
	maxOccurs	unbounded

ECODE

Attribute	Description
Name	ECODE
Datatype	String
Description	

EDESC

Attribute	Description
Name	EDESC
Datatype	String
Description	

FCUBS_WARNING_RESP

Attribute	Description	
Name	FCUBS_WARNING_RESP	
Datatype		
Description		
Attribute		
	Attribute	Description
	minOccurs	0
	maxOccurs	unbounded

WARNING

Attribute	Description	
Name	WARNING	
Datatype		
Description		
Attribute		
	Attribute	Description
	maxOccurs	unbounded

WCODE

Attribute	Description
Name	WCODE
Datatype	String
Description	

WDESC

Attribute	Description
Name	WDESC
Datatype	String
Description	



FINANCIAL SERVICES

Gateway Documentation - FCUBSSEPAFileService
[October] [2015]

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 © [2013], [2015], 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 fail-safe, 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.