Interface with SIBS-AT2
Oracle FLEXCUBE Universal Banking Europe Cluster
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1. About this Manual

1.1 Introduction

This manual is designed to help you quickly get acquainted with interface between Oracle FLEXCUBE and the external system, SIBS-AT2, a sub-system used to process transactions in EUR currency and settle high value transfers.

1.2 Audience

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

Role	Function
Back office clerk	Input functions for contracts
Back office managers/officers	Authorization functions
Product Managers	Product definition and authorization
End of day operators	Processing during end of day/ beginning of day
Financial Controller / Product Managers	Generation of reports

1.3 Abbreviations

The following abbreviations are used in this User Manual:

Abbreviation	Description
SIBS	Portuguese Electronic Clearing House
AT2	Payment system based on TARGET2 messages. Managed and operated by SIBS.
TARGET2	TARGET2 is the Trans-European Automated Real-time Gross Settlement Express Transfer System. This is an interbank payment system for the real-time processing of cross-border transfers throughout the European union area.

1.4 Conventions Used in this Manual

Important information is preceded with the  symbol.

2. Interface with SIBS

2.1 Introduction

Oracle FLEXCUBE interfaces with the external system SIBS-AT2, which is the bank's sub-system to communicate directly with transaction counterparty banks to send TARGET2 messages to/from Portuguese clearing house SIBS and receive TARGET2 messages from SIBS in a proprietary ASCII format. It processes transactions only in EUR currency.

For all the outgoing messages SIBS-AT2 converts the proprietary messages to the standard TARGET2 message. Incoming standard TARGET2 messages are first received by SIBS-AT2 and are delivered to the recipient bank in Portugal after transforming it to AT2 proprietary format.

You can directly send or receive TARGET2 transactions to or from SIBS-AT2 and settle the payment transactions through RTGS accounts.

Oracle FLEXCUBE supports the following AT2-TARGET2 messages:

- MT103 (Single Customer Credit Transfer
- MT103+ (Single Customer Credit Transfer-STP)
- MT202 (General Financial Institution Transfer)
- MT202COV (General Financial Institution Cover Transfer)
- TARGET2 Directory update Message
- ERR File

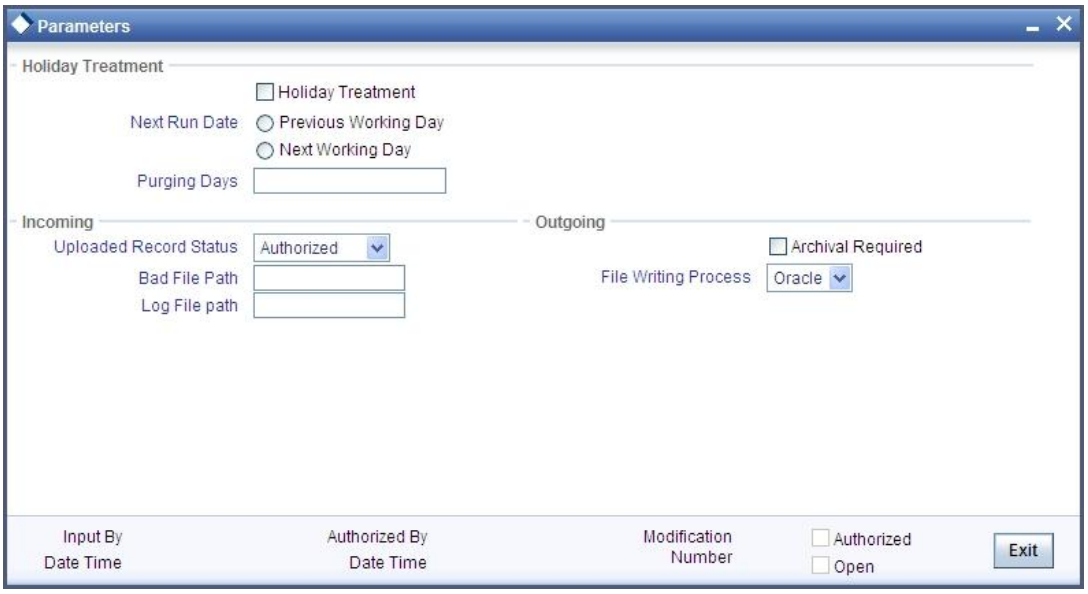
Nostro Reconciliation related messages are directly received by the bank in SWIFT MT Message format.

The following maintenances have to be done for the interface to work:

- Maintaining GI Parameter
- Maintaining Interface Definition Details

2.2 Maintaining GI Parameter

You can set the parameters for the framework of Generic Interface processing in the following screen 'Parameters' screen invoked from the Application Browser. You can invoke this screen by typing 'GIDPARAM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



You can maintain the following parameters for generic interface here.

Holiday Treatment

You can specify the parameters for interface processing if the schedule date falls on a holiday.

Holiday Treatment

Check this box to indicate your preference for interface processing on a holiday.

Next Run Date

Specify how the system should process if the schedule date falls on a holiday. You can select the options as either move the interface processing to previous working date or next working date if the interface processing day falls on a holiday.

Note the following:

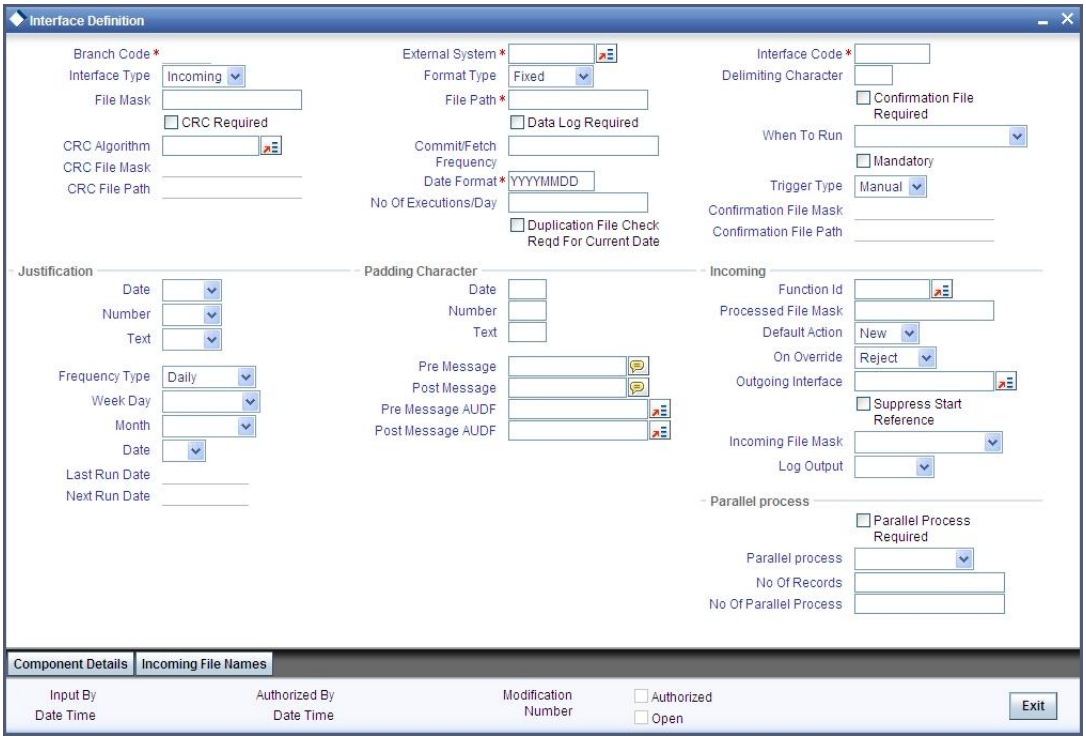
- This branch holiday calendar will be SNI (National Interchange Subsystem) calendar for Spain banks
- The default holiday treatment is movement to 'next working date'.

For more details refer section 'Maintaining GI Parameter' in Generic Interface User Manual.

2.3 Maintaining Interface Definition Details

You can define the format details and properties associated with interface file in the 'Interface Definition' screen. For both Incoming and Outgoing files, the file structure is defined here

You can invoke this screen by typing 'GIDIFTDF' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



You can define the following interface file properties, formats and components here.

Branch Code

Specify the code of the branch to which the interface belongs.

Interface Type

Select the interface type from the following options:

- Incoming - Select this option if the file data needs to be uploaded into Oracle FLEXCUBE
- Outgoing - Select this option if data from Oracle FLEXCUBE needs to be written into file

For more details refer section 'Specifying Interface Definition Details' in Generic Interface User Manual.

For incoming interface definition and outgoing interface definition the following details have to be maintained in the 'Interface Definition' screen.

Incoming definition for the incoming interface definition type -

- Format type: This will always be 'Fixed' as there is no delimiting character.
- File path: This will be data bases server path where incoming file will be placed (FLEXCUBE will append /ready to the mentioned path and expects file also in the same path e.g. if path is mentioned /SNCE05 and FLEXCUBE expects file in /SNCE05/ready).

Outgoing definition for the outgoing interface definition type -.

- File path: This will be data bases server path where incoming file is placed (FLEXCUBE will append /ready to the mentioned in this field and writes file also in the same path).
- Pre field UDF: this field is in component field linkage section and this can be used to arrive at LOT record total fields , fields such as Total amount, total commission amount etc., please refer the field mapping excel for field level details

- File mask: File naming will be based on this field and data in each parameters has to be followed by a “/ “ or ” $” where values mentioned in the mask after ” / “will be used as it is and values mentioned after $ contains different characteristics as given below.
  - B : Branch code
  - U : User ID
  - D : Date from application date
  - M : Month from application date
  - Y : Year from application date
  - h : Hour from application date
  - m : minute from application date
  - s : second from application date

2.4 Interface File Exchange

SIBS-AT2 TARGET2 platform exchanges transaction data with the participant banks in bulk files. Following are the list of AT2 ASCII files exchanged as part of inward and outward transactions:

SL No.	File Name	Incoming/ Outgoing	Sender	Receiver	File Description
1	OPI	Outgoing	Bank	SIBS-AT2	OPI file contains following types of CT and CT related messages: • Outward transfers • Outward transfer cancellation requests In case of transfers, this file contains following transfer transactions within Euro zone. Following are the corresponding TARGET2 payment messages involved. • MT103 • MT103+ • MT202 • MT202COV
2	OPI	Outgoing	Bank	SIBS-AT2	This file contains the outward TARGET2 messages for Nostro credit related reconciliations. This file can either be send as an independent file or it can be included in the normal outgoing ‘OPI’ file mentioned above. The Nostro credit reconciliation mentioned above is not related to Oracle FLEXCUBE Nostro Reconciliation module.

SL No.	File Name	Incoming/ Outgoing	Sender	Receiver	File Description
					This is a SIBS inward funds transfer specific process wherein beneficiary bank is not clear on the purpose and other details of the funds received.
3	OPE	Incoming	SIBS-AT2	Bank	This file contains following types of transaction messages: The inward transfer transactions (including pass-through cases) from banks within Euro zone. AT2 transaction status notification messages. Following are the incoming TARGET2 payment messages involved. • MT103 • MT103+ • MT202 • MT202COV
4	ERR	Incoming	SIBS-AT2	Bank	SIBS-AT2 platform sends this file to participant banks as a response to the outward 'OPI' file received.
5	T2D	Incoming	SIBS-AT2	Bank	SIBS-AT2 periodically sends the updates on the TARGET2 directory which contains the latest status of participating banks in the system. Oracle FLEXCUBE needs to process the incoming file and update its TARGET2 directory accordingly.

2.5 Interface File Specifications

2.5.1 OPI File

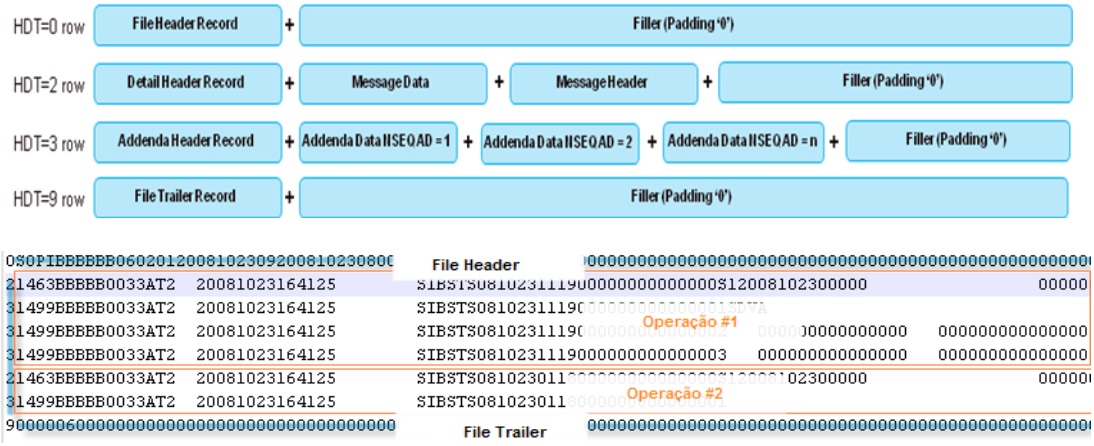
OPI file is an outgoing file which contains outward transfer transactions in EUR where the beneficiary bank is located within the Euro zone. Outgoing payment messages is included in this file in SIBS-AT2 specific formats defined for MT103, MT103+, MT202 and MT202COV SWIFT MT messages.

The records available in the outgoing OPI files are:

- Header Record
- Details Record

- Addenda Record
- Trailer Record

The OPI file structure is as below:



'Details' record contains the main transaction data of a transfer. The OPI file also contains multiple 'Addenda' records which contains additional transfer transaction information.

Following table contains the maximum number of 'addenda' records that can be included as part of applicable TARGET2 messages:

Message Type	Maximum Number of Addenda Records
MT103	10
MT103+	10
MT202	04
MT202COV	09

The generated outward OPI file should be moved to a designated folder within Oracle FLEXCUBE infrastructure from where the external systems or users can pick it up for transmission to AT2. Before generating the bulk OPI file to transmit to AT2, individual AT2 transaction messages should be manually authorized by bank user. After the authorization of all the individual messages, system will generate the OPI file for transmission.

In an OPI, file records will be arranged in the following order:

- File Header
- MT103 Transactions with Addenda
- MT103+ Transactions with Addenda
- MT202 Transactions with Addenda
- MT202COV Transactions with Addenda
- Cancellation Messages
- Reconciliation Messages

- File Trailer

You can generate an OPI file if:

- Authorized outward FT credit transfer contracts are available with same day or next day as value dates
- Authorized outward FT credit transfer cancellation requests
- Authorized inward FT transactions with reconciliation statuses as ‘For Reconciliation’ or ‘Reconciled’

‘Resident or ‘Non-Resident’ status of the banks involved in a SIBS AT2-TARGET2 outward RTGS funds transfer is derived based on the ‘country code’ of the corresponding BIC. If the country codes of both sender and receiver banks are same, it will be classified as a funds transfer between resident banks. If the country code of receiving bank is different from that of the sending bank, it will be termed as a transfer between a resident and non-resident bank.

When the generated OPI file is sent by the bank to SIBS for processing, another round of manual authorization will be done at ‘SIBS Bank interface Application’. If any cancellation is required for a transaction, the bank user will not authorize the same at ‘SIBS Bank interface Application’ so that it is not processed at SIBS end. If the cancellation request should be send to SIBS before the processing cut-off time it should be ensured manually through ‘TARGET2 Transaction Maintenance’ screen before the transaction cut-off time.

For reconciliation related transactions cut-off time is not applicable.

While generating outward OPI file, the system populates the corresponding file fields with respective parameter values. The following are the parameters to be captured at the parameterization level:

Sl No	Parameter / Field Name	Parameter Description and Location	Applicability and Format
1	CDP Code	Reference code assigned by SIBS to the data processing centre of the bank. This parameter value will be maintained as GI interface definition default value.	CDP code should be included as part (first part is bank code) of the field ‘ID-EMISS – File issuer identification’ of file header (HDT=0). This is a 2 digit number.
2	Identification Code of OPI File Recipient	In case of outward OPI file recipient is always SIBS and this parameter holds the SIBS identification code. This parameter value will be maintained as GI interface definition default value.	SIBS identification code should be included as part of field ‘ID-DEST-File recipient identification’ of file header (HDT=0). This is a 6 digit number.
3	Internal Communication Origin ID	This indicates the origin of internal communication. This parameter value will be maintained as GI interface definition default value.	Internal Communication Origin ID should be included as part of field ‘ORI-INT’ of the ‘Detail Header Record’ (HDT=2). This is a character 5 field.
4	AT2 Operation	This field holds the default	AT2 Operation Status

Sl No	Parameter / Field Name	Parameter Description and Location	Applicability and Format
	Status Indicator	status of a transaction record included in the outward OPI file. This parameter value will be maintained as GI interface definition default value.	Indicator should be included as part of field 'ESTADO' of the 'Detail Header Record' (HDT=2). This is a character 2 field. Default status should be included as 'I5' – The operation is inserted with a Pending status in AT2'. This status is applicable for following types of transactions included in the OPI file: • Outward credit transfer records • Outward transfer reconciliation records
5	AT2 Operation Status Indicator for Cancellation Request	This field holds the default status of a credit transfer cancellation request record included in the outward OPI file. This parameter value will be maintained as GI interface definition default value.	AT2 Operation Status Indicator for cancellation request should be included as part of field 'ESTADO' of the 'Detail Header Record' (HDT=2). This is a character 2 field. Default status should be included is 'I7' – To Cancel an operation in AT2'.
6	Separate OPI File Required for Reconciliation Messages	This is required in case bank wanted to generate separate outward OPI file for Nostro credit reconciliation related messages. This parameter will be defined at the 'Bank Parameter Level' and will be part of CSTB_PARAM table. Field name is 'SEPARATE_REC_FILE '	If this parameter is set i.e. value is updated as 'Y', system will generate separate OPI file which contains only nostro credit reconciliation messages. If this parameter is not set (i.e default value which is 'N') system will include reconciliation messages also in the common OPI file.
7	TARGET2 Payment Message Format Applicable at Branch level	This parameter helps the bank to configure the type of TARGET2 payment messages format applicable for MT103, MT103+, MT202 and MT202COV messages. Message formats has to be either standard individual TARGET2 message format or	Based on this parameter value system generates either standard individual TARGET2 or SIBS AT2-TARGET2 formats for MT103, MT103+, MT202 and MT202COV outward payment messages. By default this parameter will be set as 'N' meaning in case

Sl No	Parameter / Field Name	Parameter Description and Location	Applicability and Format
		SIBS AT2-TARGET2 message format. This parameter is available as part of Branch Parameters Maintenance (STDBRANC). Branch Parameters Maintenance ->Financial Details -> Payment Messages -> SIBS AT2-TARGET2 (Y/N) This parameter value has been stored in the field SIBSAT2_PROCESSING of table STTM_BRANCH_C	of this branch, standard individual TARGET2 payment messages will be generated for outward MT103, MT103+, MT202 and MT202COV payment messages. If the 'SIBS AT2-TARGET2' check box is checked, parameter value will be changed to 'Y', meaning in case of this branch SIBS AT2-TARGET2 payment messages will be generated for outward MT103, MT103+, MT202 and MT202COV payment messages. This is a check box.

2.5.2 OPE File

OPE file is an incoming file received by the clearing participants from SIBS. OPE file has the following types of transaction information:

- Incoming transfers from SIBS (Domestic Transfers in EUR – Within Portugal)
- Incoming transfers received from TARGET2 (Cross Border Transfers in EUR – Within Euro zone)
- Notifications from SIBS AT2 platform

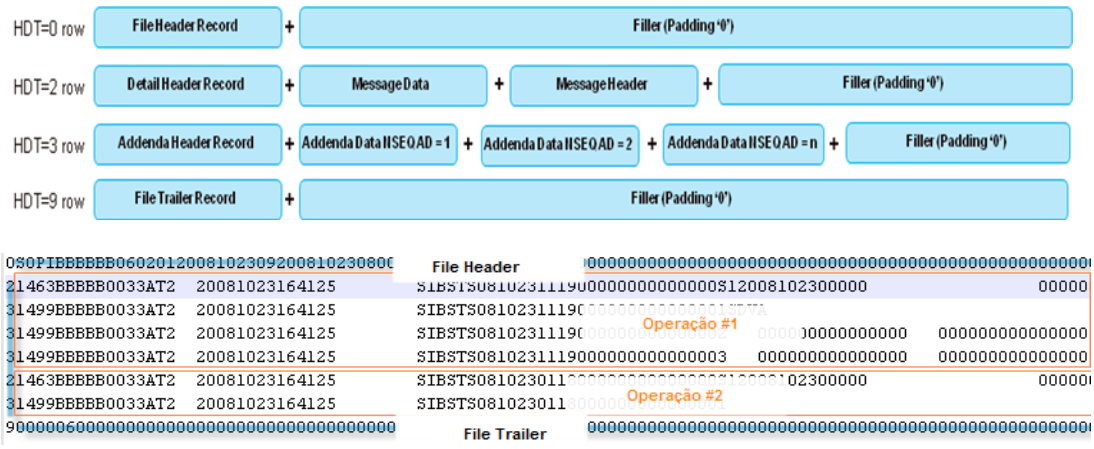
OPE file contains following funds transfer messages:

- Customer Transfers (MT103, MT103+)
- Interbank Transfers (MT202)
- Interbank Transfers with Cover (MT202COV)

The records available in OPE file are:

- Header Record
- Details Record (Transaction Details)
- Addenda Record (Addenda header + Addenda data + space filling)
- Trailer Record

The OPE file structure is as below:



'Details' record contains the main transaction data of a transfer. In addition to the 'Details' record, OPE file also contains multiple 'Addenda' records which contains additional transfer transaction information. Each individual transfer transactions inside the OPE file can have its own number of 'addendas'.

Following table contains the maximum number of 'addenda' records that can be included as part of applicable TARGET2 messages:

Message Type	Maximum Number of Addenda Records
MT103	10
MT103+	10
MT202	04
MT202COV	09

Incoming OPE file will be available in a designated folder within Oracle FLEXCUBE infrastructure from where it can be picked up for processing. Once Oracle FLEXCUBE creates the individual transaction messages (E.g. MT103, MT103+, MT202 or MT202COV) out of the received OPE file, it needs a user authorization before creating the corresponding FT contracts in FT module. These FT contracts also require manual authorization by a bank user i.e. Oracle FLEXCUBE creates only non-authorized FT contracts as part of the incoming payment message authorization.

You can automatically upload the OPE file once it is copied to the specified incoming file location of Oracle FLEXCUBE infrastructure. After upload the system populates the 'MT Message Browser' screen with individual transaction messages included in the file. The transaction messages include:

- Incoming payments
- AT2 Transaction Status Notification

While processing an OPE file the system creates log details for each of the OPE file processed. You can view this log details in the 'Files Upload Details' sub-screen of the MT Message browser Summary screen.

For Oracle FLEXCUBE to process the incoming OPE file, it should be copied to the designated folder within FLEXCUBE infrastructure by adding ‘SIBSOPE’ with the file name format. For example ‘SIBSOPE_YYYYMMDDSS.txt’ where "YYYY” is the year, “MM” is the month and “DD" is the day of the current date, and "SS" is the sequence indicator generated sequentially by File Transfer Protocol. This indicator consists of a sequence number of 01 to 99, restarting in 01 after reaching 99.

2.5.3 ERR File

The participant banks in SIBS-AT2 in Portugal send the outward OPI file to SIBS for processing. After validation of the received OPI file, SIBS sends the ERR file with the validation results. If there are no errors detected, then the SIBS send the ERR file as an acknowledgement. In case of errors, Oracle FLEXCUBE needs to display the errors i.e. the contents of the ERR file so that bank user can take the necessary corrective actions to re-transmit the transactions post rectification.

The ERR File consist of the following records:

- Header Record
- Details Record
- Trailer Record

2.5.4 TARGET2 Directory File (T2D)

TARGET2 directory helps the clearing participants to set the payment routing instructions correctly and there by execute the fund transfers through SWIFT network. The TARGET2 Directory is a product of the Euro system and consists of a list of SWIFT addresses of financial institutions participating in the TARGET2 clearing network. These institutions may be direct or indirect participants, addressable BICs or multi-addressees. The directory is updated on a weekly basis and is distributed through SWIFTNet FileAct to the direct participants in the system.

T2D file is does not have header and trailer records. Structure of the file is as below:

Field Name	Nature	Data Type	Description
BIC	Mandatory	BIC 11	BIC of the Participant
Address	Mandatory	BIC 11	BIC to be used in the header of the SWIFT message
Account Holder	Mandatory	BIC 11	BIC of the settlement bank
Institution Name	Mandatory	105x	Participant company name
City Heading	Mandatory	35x	Head office

National Sorting Code	Optional	15x	Participant code in the national system
Main BIC Flag	Optional	1x	The possible values are: Y - Yes N - Not The "Y" means that the BIC can be used to address payments if the payer does not provide other information to send
Type of Change	Mandatory	1x	The possible values are: A – Added (Will appear in case a new record is issued in the current version of the TARGET2 directory. New record must be added to FLEXCUBE); M – Modified (Indicates that a field (different from the BIC) is changed in the current version compared to the previous one. FLEXCUBE will overwrite the existing record with the new one); D – Deleted (Indicates the deletion of a BIC from the TARGET2 directory. It will be no more reachable in the platform. The existing record will be deleted from FLEXCUBE. It must be a logical deletion - mark the record as deleted); U – Unchanged (Indicates that no changes are made in the current version of the TARGET2 directory with respect to the previous one. FLEXCUBE should ignore);
Valid from	Mandatory	YYYYMMDD	Date from which registration is valid
Valid till	Mandatory	YYYYMMDD	Date till which the registration is valid (if not specified is equal to '99991231')

Participation type	Mandatory	2x	The possible values are: 01 - Direct 02 - Indirect 03 - Multi addressable (Credit Institutions) 04 - Multi addressable (Branch of direct participant) 05 - Addressable BIC (Correspondent) 06 - Addressable BIC (Branch of a direct participant) 07 - Addressable BIC (Branch of an indirect participant) 08 - Direct Participant T1 09 - Indirect participant T1
Reserve	O	23x	Reserved filler

2.6 AT2 Notification Process

The outgoing transfers are sent to SIBS-AT2 platform through OPI file and incoming transfers are received through OPE file. Through the notification process, AT2 platform intimate the participant banks regarding the processing status of an inward or outward transfer transaction.

When an outward transfer transaction message or transfer cancellation message is included in an outward OPI file, the originating bank uses following status codes:

Status Code	Status Description	Field Details
I5	The transfer transaction is included with a 'pending' status in AT2.	Field: ESTADO Record: Detail Header Record
I7	To cancel an operation in AT2	

Every individual transaction in an OPI or OPE file will receive a notification message based on the processing status in AT2. But it is not necessary that AT2 will send a notification for all types of transactions. Following table explains the conditions on which notification messages will be received:

Participant to AT2 (message status)	Transaction Validation at AT2	Previous Status	Next Status	Participant Bank is Notified?	AT2 to Participant (message status)
I5	OK	--	AT2 Pending	No	--
I5	ERROR	--	Incomplete Pending	No	--
I7	--	Incomplete Pending	Cancelled	Yes	A7
I7	--	AT2 Pending	Cancelled	Yes	A7
I7	--	Scheduled	Cancelled	Yes	A7

The list of status codes provided by the AT2 platform through the notification messages are as follows:

- S1– Operation was successful, accepted and settled in TARGET2.
- A5 – Operation updated to pending status. Operation needs authorization to proceed to TARGET2.
- S5 – Operation was Rejected in TARGET2 (insufficient funds in the debtor account).
- S6 – Operation was revoked in TARGET2. Operation was revoked in TARGET2 by the Originator Bank.
- A7 – Operation was cancelled in AT2. Operation was cancelled in AT2 by the Originator Bank.

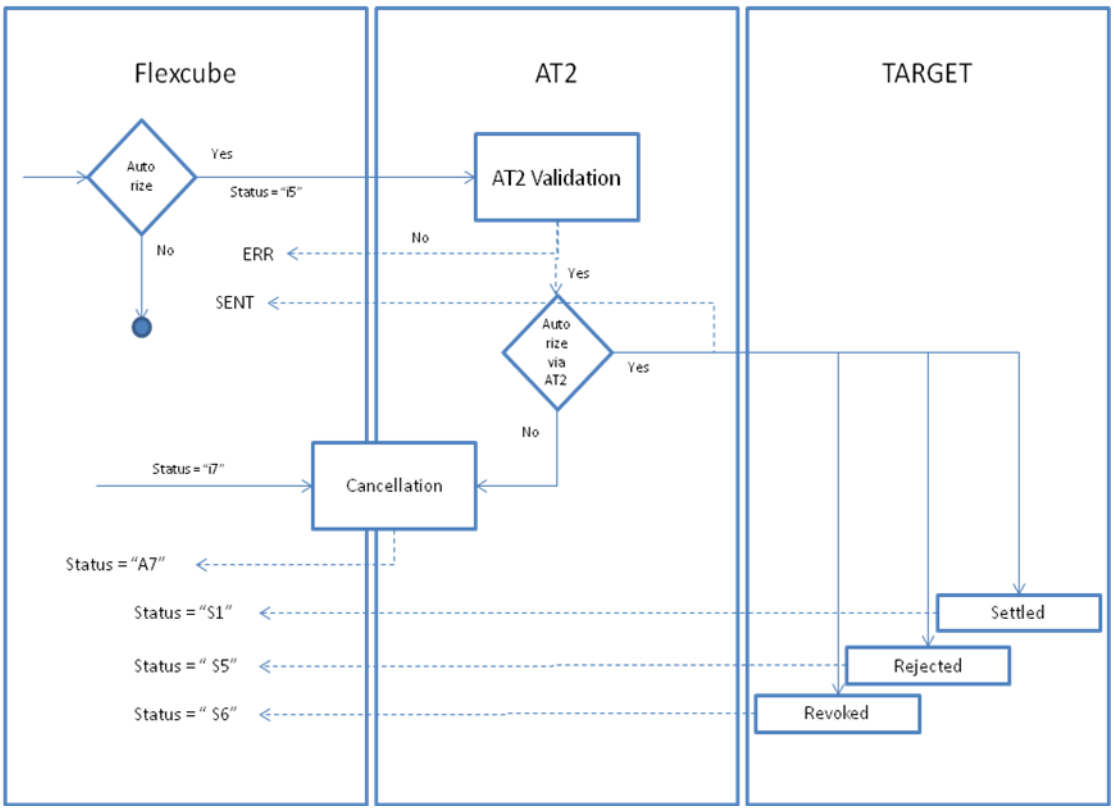
The table below provides the details of internal transaction status changes and corresponding notification status to participating banks:

Action in AT2/TARGET2	Previous AT2 Status	Next AT2 status	Participant Bank Notified?	AT2 to Participant (message status)
Insertion	--	Incomplete Pending	No	--
Insertion	--	AT2 Pending	No	--
Confirmation	Incomplete Pending	AT2 Pending	Yes	A5
Cancellation	Incomplete Pending	Cancelled in AT2	Yes	A7

Action in AT2/TARGET2	Previous AT2 Status	Next AT2 status	Participant Bank Notified?	AT2 to Participant (message status)
Authorization	AT2 Pending	Scheduled	No	--
Cancellation	AT2 Pending	Cancelled in AT2	Yes	A7
Cancellation	Scheduled	Cancelled in AT2	Yes	A7
Sent to TARGET2	Scheduled	Stored	No	--
TARGET2 Settlement	Stored	Final	Yes	S1
TARGET2 Revoked	Stored	Revoked	Yes	S6
TARGET2 Rejected	Stored	Rejected	Yes	S5

AT2 sends the notification message to the participant bank as part of incoming OPE files without any transaction addenda.

Oracle FLEXCUBE will then update its FT contracts with the above mentioned status code as and when a notification message is processed. After processing there should be a provision to view the contents of the notifications messages on Oracle FLEXCUBE screens.



2.6.1 Cancelling Transfer Transaction at AT2 Level

When the outward OPI file is generated in Oracle FLEXCUBE, it is transmitted to SIBS-AT2 through the AT2 application. As per the transaction processing workflow at SIBS-AT2, the transactions included in the transmitted OPI file should be authorized through the bank interface application of AT2. SIBS-AT2 will process only those credit transfer transactions which are authorized by the bank user at AT2 bank interface application.

After transmission to AT2 platform, the originating bank can initiate a cancellation request for a credit transfer transaction included in the transmitted OPI file. Cancellation request can be raised under to the following conditions:

- Transaction to be cancelled is not yet authorized by the bank user at AT2 bank interface application.

  If the AT2 processing status of the transaction are the following:

  - S1 – Operation was successful accepted and settled in TARGET2
  - S5 – Operation was Rejected in TARGET2
  - S6 – Operation was revoked in TARGET2
  - A7 – Operation was cancelled in AT2
- If AT2 executed the cancellation request successfully, it is informed to the originating bank in the form of a notification message in the OPE file.
- If AT2 rejected the cancellation request, it is informed to the originating bank as an error through the 'ERR' file.

2.6.2 Interbank Transfer Reconciliation Process

The banks in Europe sends and receives EUR funds through TARGET2 system. When the bank receives a credit at its Nostro account from another bank and the beneficiary bank is not sure about the purpose or associated transaction details, then it declares the received credit as 'for reconciliation'. The beneficiary bank will then include a 'reconciliation' message 1363 in the form of a 'Detail header record – HDT=2' without any addenda in the outward OPI file. While sending the reconciliation message, 'DEBCRE' (Dr/Cr indicator) of 'Detail Header Record' should be filled with the value 'C' (credit) and 'NAT-OP' should be filled with the value '0' (zero).

When the bank receives a credit and is clear about the purpose of the credit, as per the reconciliation process they will send the 'Reconciled' notification message to SIBS AT2. For this, you can select the corresponding contract reference number from the 'TARGET2 Transaction Maintenance Details' screen. Once the contract is located, you can update the reconciliation status as 'Reconciled' and also enter the 'Reconciliation Remarks'. Select 'Action' to be performed for the specified contract. After the authorization of the transaction, system creates the corresponding notification message internally. Whenever system generates the next OPI file, this notification message will be included for transmission to SIBS AT2.

When the credit is analyzed and is reconciled then the bank will return the money to the originating bank by performing an outward transfer where debit account would be the same account where funds got credited earlier.

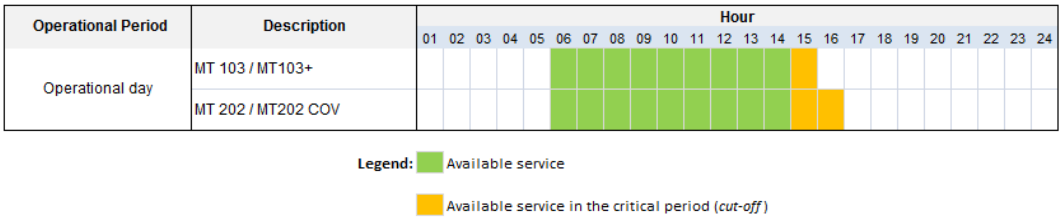
You can initiate a 'For reconciliation' for an authorized inward funds transfer transaction. As part of this process you can mark the FT contract reconciliation status as 'For Reconciliation'. Once the transaction is reconciled, another 'reconciliation' message is send and FT contract reconciliation status will be changed to 'reconciled'.

You can also specify if a separate 'reconciliation' OPI file should be generated by configuring the parameter 'Separate OPI File Required for Reconciliation Messages' available at parameterization level 'CSTB_PARAM' as a 'bank level parameter'. If this parameter is set as 'Y' then, while generating the common bulk OPI file, system will not include the 'reconciliation process' related transactions in the common file. If the parameter value is set as 'N', system will include 'reconciliation' related transactions also in the common bulk OPI file.

2.6.3 Cut-off Periods for Transaction Processing

The SIBS-AT2 platform has separate cut-off time limit for customer transfers (MT103/ MT103+) and bank transfers (MT202/MT202COV). Till the cut-off time, SIBS-AT2 processes the credit transfers with the value date, value date being the current system date. After the cut-off time limit, the participant banks can continue to send OPI files to AT2 but it will be processed only on the next day i.e. transaction value date should be the next day.

The diagram explains the two cut-off periods defined by SIBS-AT2



2.6.4 PCC (Payment Classification Code) Derivation Rule

The payments between 'resident' banks and resident and non-resident banks are classified with predefined codes. The resident bank is the bank in country of Portugal. Non-Resident bank is the one which reports to another central bank of a European Union member country.

The field level details of PCC is as below:

Sl No	Field Name	Field Description	Applicability & Format
1	Payment Classification Code	As per Bank of Portugal rules, payments between (i) resident credit institutions and (ii) resident and non-resident credit institutions needs to be classified with different numeric codes. This field holds the value for the same.	When external funds transfer is required over SIBS AT2-TARGET2 RTGS payment network, banks n Portugal need to include PCC as part of the SIBS AT2 OPI outward file. PCC is a 5 digit number. 30100: Transfers by order of customers (MT 103, MT 103 +) between domestic credit institutions 30110: Transfers by order of customers (MT 103, MT 103 +) between domestic and non domestic credit institutions 30200: Interbank transfers (MT 202, MT 202COV) between domestic credit institutions 30210: Interbank transfers (MT 202, MT 202COV) between domestic and non domestic credit institutions PCC should be included as part of field 'CODOPER' of the 'Detail Header Record' (HDT=2). This is a 5 digit number and presence is mandatory in the OPI file.

While generating the outward SIBS AT2-TARGET2 payment messages (MT103, MT103+, MT202 and MT202COV) PCC code should be identified and filled as the value for 'CODOPER' of the 'Detail Header Record' (HDT=2) of outward OPI file.

'Resident or 'Non-Resident' status of the banks involved in a SIBS AT2-TARGET2 outward RTGS funds transfer are derived based on the 'country code' part of the corresponding BIC.

The following table explains the BIC structure:

Character Position	Description
First 4 characters	Represents the bank code (alphabets)
Next 2 characters	ISO 3166-1 alpha-2 country code (alphabets)
Next 2 characters	location code (alphanumeric)
Last 3 characters	Determines the branch code, optional ('XXX' for main branch/office) (alphanumeric)

2.7 SIBS AT2-TARGET2 Support for SI Contracts

TARGET2-AT2 is supported only for ‘Payment’ and ‘Variable Payment’ types of SI products. For the ‘Payment’ type of products, following ‘SI Types’ are supported:

- One To One
- One To Many
- Many To One
- Many To Many

For ‘Variable Payment’ type of products, only ‘One to One’ and ‘SI Type’ would be supported.

The following are the pre-requisites for TARGET2-AT2 support for SI products:

- The ‘Processing Time’ at SI contract level needs to be set as BOD. If the ‘Processing Time’ is set as ‘EOD’ and EOD is executed post the closure of OPI file generation time period, SI transfers cannot be sent to SIBS-AT2 with the execution date as the value date. If the SI execution fails during ‘BOD’ due to insufficient balance at debtor account, depending up on the ‘re-try’ parameter set, the system will execute again during the next day ‘BOD’. If it is successful, outward transfer will be included in the bulk OPI file with value date as the successful execution date.
- For SI contracts with AT2-TARGET2 clearing, partial execution (debit the customer account with the available amount) is not applicable.

The system follows the following process for SI contracts:

- While generating the outward SIBS AT2-TARGET2 payment messages (MT103, MT103+, MT202 and MT202COV), PCC code is identified based on a pre-defined set of rules and are maintained as ‘CODOPER’ field values at ‘Detail Header Record’ (HDT=2) of outward OPI file. ‘Resident or ‘Non-Resident’ status of the banks involved in a SIBS AT2-TARGET2 outward RTGS funds transfer are derived based on the ‘country code’ which is part of the corresponding BIC. If the country codes of both sender and receiver banks are same, then the system classifies them as funds transfer between resident banks. If the country code of receiving bank is different from that of the sending bank, then the system considers it as a transfer between a resident and non-resident bank.
- The PCC code derived based on the rules will not display on the corresponding contract online screen. However, is displayed as part of the message generated.
- On selecting a 'SI' product for which RTGS preference is already set during product definition and also based on the setup for SI online settlement instruction, the system automatically updates the checkbox ‘RTGS Payment’ and field ‘RTGS Network’ in the 'Message Details' tab of SI settlement instruction details

- On ‘SI’ due date, the system will automatically execute the payment order and corresponding SIBS AT2-OPI. Message equivalent for TARGET2 MT103 or MT103+ or MT202 or MT202COV is generated is available in the ‘MT Message Browser’ for authorization.
- Post authorization of individual outward SI payment messages, whenever the system generates bulk OPI file for transmission to SIBS AT2, it includes the messages generated as part of SI transactions. This is a common file which contains SIBS AT2-TARGET2 outward payment messages generated for ‘FT’ and ‘SI’ modules.
- Bulk OPI file generation is common for FT and SI modules.
- For outward payment messages included in the bulk OPI file as part of standing instruction, the system disables the cancellation of transfer by sending a ‘cancellation request’ message through OPI file.
- For OPI outward payment messages generated from SI module, the system will not update the message status whenever an associated ‘Notification’ message is received through the incoming OPE file. Once the outgoing AT2-TARGET2 message is generated successfully and included in the outward OPI file, the system does not support subsequent processing.
- You can view the notification status of the SI contract from the MT message browser.
- If the transmitted OPI file which contains the ‘SI’ related payments is rejected at SIBS or an individual ‘SI’ payment transaction from the transmitted OPI file is rejected at SIBS, re-creation of the corresponding SI payment transactions need to be handled manually, which indicates that SI transaction was successfully executed in Oracle FLEXCUBE and corresponding outward payment record is included in the bulk OPI file and transmitted is to SIBS. If the file/transaction is rejected at SIBS, the system disables re-execution of SI and inclusion of the rejected SI contract in another OPI file. However, you can them manually.
- All parameters related to FT AT2 message generation are shared for the OPI message generation for ‘SI’ contracts.

2.8 SIBS AT2-TARGET2 Support for Other Modules

Oracle FLEXCUBE facilitates generation of SIBS AT2-TARGET2 outward transfer RTGS messages directly from the following functionalities:

- CL
  - Account Details
  - Manual Rollover
  - Value Dated Amendments
  - Manual Disbursement Details
  - Renegotiation
- LS
  - Drawdown Details
  - Drawdown Value dated Amendment
  - LS Payment
  - Manual Rollover
- FX
  - Foreign Exchange Contract Input
  - Foreign Exchange payment Input
- Capital Market

- Money Market Contract Input
- Money Market Payment Input
- Money Market Value Dated Changes Input

- Securities
  - Securities Deal Input
  - Securities Repo Contract Online
- ETD Modules.
  - Long/Short Deals Input
  - Liquidation Deal Input
- OTC
  - Contract Input
  - Contract Exercise
- Derivatives
  - Contract Input

The validations and processes followed for the above functionalities are similar to the ones followed for SI contract with few exceptions listed below:

- For the functionalities excluding FT and SI modules, outward TARGET2 payments cut-off time for the business day are controlled by configuring the 'Branch Cut-Off' time. Thus ensuring that day's transactions are included in the OPI files based on the file generation window time applicable.
- As part of the contract authorization wherein outward payment over SIBS AT2-TARGET2 is involved, the system will internally generate the corresponding credit transfer AT2 messages and are available in the 'MT Message Browser' for verification and authorization.

3. Screen Glossary

3.1 Function ID List

The following table lists the function id and the function description of the screens covered as part of this User Manual.

Function ID	Function Description
GIDIFTDF	Interface Definition
GIDPARAM	Generic Interface Parameters

Black Listed Customers Data
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