REAL TIME PAYMENT SYSTEM WEB SERVICE SPECIFICATION DOCUMENT

Version:1.1

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Version control:

Number	Date	Version
1	1/12/2016	1.0-Draft
2	22/12/2016	1.1-Draft

Executive Summary

This **Real Time Payment System (RTPS)** specification and the information contained herein is the confidential property of **Bank AL Habib Limited(BAHL)**. **BAHL**, and is loaned to the recipient solely for use in integrating the **BAHL system** with the recipients system as authorized by **BAHL** and the recipient.

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Introduction:

BAHL RTPS service provides a gateway to overseas business partner by connecting BAHL to settle its transactions in real time.

The integration between two system will constitute a smooth channel for business partners to provide their customers with an instant funds transfer facility in any of the bank account(IBFT Members banks) in Pakistan. Some of the features are listed below:

> **Platform independence:**

Applications can be developed using any language and hardware platform as long as it can send and receive the appropriate BAHL web server XML messages.

> **Transaction security:**

Transaction security that is built into RTPS. All messages between agents and the BAHL web server use HTTPS, so every message is encrypted. As an additional security measure, BAHL configures agents to use unique profiles.

> **Interface Designing:**

Agents are free to design their interfaces according to their environment/theme. Agent can consume RTPS services into their existing application.

> **BAHL Facilitation:**

BAHL team is committed to provide design advice, certification and high level support to its agent for ensuring the smooth transmission process. A dedicated test environment will be provided by BAHL to agent for conducting end to end testing of the developed application.

Transaction Flows and Processes:

```
                              ┌─────────┐
                              │  Start  │
                              └─────────┘
                                   │
                                   ▼
                              ◇ Transaction ◇
            Offline ─────────   Mode   ───────── Online
                │                                      │
                ▼                                      ▼
    ┌──────────────────────┐              Instant ◇ Entry ◇ Queue
    │ Add Transaction in   │                      │ Mode  │
    │        queue         │                      │       │
    └──────────────────────┘                      │       │
                │                                  ▼       ▼
           ○ Process ○              ◇ Title Fetch/Account ◇    N    ◇ Title ◇
             queue                     validation                    Fetch
                │                              │                        │ Y
                ▼                              │ Y                      ▼
    ┌──────────────────────┐                  ▼               ┌──────────────┐
    │ Generate File & email│           ┌──────────────┐       │ Add in queue │
    │  to HRemit department│           │ Fund transfer│       └──────────────┘
    └──────────────────────┘           └──────────────┘               │
                │                              │                       ▼
                ▼                              ▼                   ◇ Modify ◇
    ┌──────────────────────┐              ○ SMS ○         Offline        │ Online
    │  Load files in       │                                             ▼
    │ different application│                                        ○ Process ○
    │       HRemit         │                                          queue
    └──────────────────────┘                                           │
                │                                                       ▼
                ▼                                              ┌──────────────┐
          ○ Manual Process ○                                   │ Fund transfer│
            Transaction                                        └──────────────┘
                │                                                       │
                │                                                       ▼
                │                                                    ○ SMS ○
                │
                └──────────────►  ○ End ○  ◄───────────────────────────┘
```

APIs:

- **Real-time Money Transfer**

  - TitleFetch()

  - FundTransfer()

- **Queue Based(Bulk) Transaction**

  - AddTransactionInQueue()　　　　**[Online/ Offline Mode]**

  - ProcessQueueOnline()

  - ProcessQueueOffline()

- **Inquiries**

  - GetTransactionInquiry():

  - AccountBalanceInquiry()

- **Cancel Transaction**

  - CancelOutstandingTransaction()

- **Transaction Mode Modification**

  - ModifyTransaction()

- **Conditional APIs / Setup Information**

  - GET_BANKS ()

  - GET_CITY ()

  - GET_COUNTRY ()

  - GET_CURRENCY ()

  - GET_DELIVERYMODE ()

  - GET_DOC_TYPE ()

  - GET_TRANSACTION_MODE ()

Following two services are available to perform the real time money transfer. By using these services, BAHL account and transfers to other banks (IBFT member banks) transactions can be facilitated:

1- TitleFetch()
2- FundTransfer()

TitleFetch():

To process the transaction in real time, it is mandatory to perform the title fetch activity by entering the Account No. / IBAN.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_User

List of Mandatory Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	int		Agent id	10048
TieUpCode	string	50	tieup code	e.g MNY
UserId	string	30	Agent id	************
UserPassword	string	30	Agent Password	************
BankCode	bigint		Beneficiary bank code	1
isIBAN	bool		IBAN account no	True/false
AccountNo	string	40	IBAN/ Account No	PK76BAHL1232333213/123456789

Response Interface: Return type Bool:(true/false)

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
In case of result=true				
response	string	100	Response Code	99999
CreditAccTitle	string	100	Account title	XYZ customer
SessionID	string	50	Session ID	9991015102516102042527
In case of result=false Following Detail will be received				
response	string	50	Response Code	22042

Code description:

Sr.No	Code	Description
1	99999	Successful
2	22042	Credit Account No/IBAN No not provided
3	22001	Web service credentials are invalid
4	22002	Service ID not provided
5	22003	Service Password not provided
6	22043	Bank Name not provided
7	44010	Maximum length of Service User ID should be 50
8	44011	Maximum length of Service User Password should be 30
9	44020	Maximum length of Online Status should be 50
10	44021	Maximum length of Entry Mode should be 20
11	44023	Maximum length of Exchange Code should be 50
12	44024	Maximum length of IP should be 50
13	44025	Maximum length of Credit Account should be 50
14	22002	Service ID not provided
15	22003	Service Password not provided
16	22042	Credit Account No. not provided
17	22055	Enter Valid Account No
18	22043	Bank Name not provided
19	22044	Enter correct IBAN no.
20	22060	Cannot fetch Account Information for coc transaction
21	22059	Debit and Credit Account is same
22	22005	System Exception

FundTransfer():

This activity is used by agent to transfer fund to execute the transfer.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_User

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	50	tieup code	MNY
UserId	string	30	Agent user id	*********
UserPassword	string	30	Agent user Password	*********
BankCode	int		Bank code	1
AccountNo	string	40	IBAN/ Account No	PK76BAHL1232333213/123456789
ApplicantIDType	int		Applicant ID Type	1
ApplicantIDNo	string	50	Applicant ID	In case of ID Type 1 Format should be (42101-1515111-1)
ApplicantPlacedOfBirth	string	50	Place of Birth	Karachi
ApplicantLegalCountry	int		Country ID	1
ApplicantName	string	50	Name	Ahmed Ali
ApplicantAddress	string	100	Address	H NO 099099

ApplicantCellNo	string	17	Cell no	034526226411
BeneficiaryName	string	50	Name	Muhammad Ali
BeneficiaryIDType	Int		ID Type Code	1
BeneficiaryIDNo	string	50	ID Number	In case of ID Type 1 Format should be (42101-1515111-1)
BeneficiaryAddress	string	100	Address	H NO 09955555
BeneficiaryCountry	int		Country	1
PurposeOfTransaction	string	50	Purpose	GIFT
SourceOfIncome	string	50	Source of Income	SALARY
CurrencyID	int		Currency Code	1
Amount	decimal	20	Amount in FCY	12311.00
TranAmount	decimal	20	Amount in PKR	1231110.00
SessionID	String	50	Session Id of given Title Fetch	9991015161116102042527
ReferenceNumber	String	20	Unique Reference Number	44134114644
BulkTransaction	Bool		Is Bulk Transaction	True/False
ApplicantNationality	String	60	Nationality Name	Canadian
ApplicantDOB	DateTime	10	Date of Birth(yyyy-MM-dd)	1992-10-01
BeneficiaryBranchName	String	50	Branch Name	New Chali Branch
BeneficiaryCity	Int		City Code	2
DeliveryMode	Int		Delivery Mode Code	1
Relationship	String	50	Relationship between Beneficiary and Applicant	Uncle
BeneficiaryCellNo	String	15	Cell No	03451514511

BeneficiaryAccTitle	String	70	Account Title	Talha Khan
EntryMode	String	20	Entry Mode	Instant
OnlineStatus	Int		Online Status Code	1
ApplicantIDNoIssueDate	DateTime	10	Id Issuance Date (yyyy-MM-dd)	2005-10-12
ApplicantIDNoExpiryDate	DateTime	10	Id Expiry Date	2010-10-12
isIBan	Bool		IBAN or Account No	True/False

Response Interface: Return type Bool:(true/false)

Name of Object: ResponseModel

List of Return Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
In case of result is True				
ResponseCode	string	5	Response Code	11012
TransactionNo	string	10	Transaction Number	1461/1462
In case of result is False				
ResponseCode	string	50	Response Code	11013

Code description:

Sr.No	Code	Description
1	99999	Successful
2	22069	Amount must be numeric
3	22025	Delivery Mode is mandatory
4	22043	Bank Name not provided
5	22042	Credit Account No/IBAN No not provided
6	22015	Applicant ID is mandatory
7	22019	Applicant Place of Birth is mandatory

8	22020	Applicant legal Country is mandatory
9	22017	Applicant Name is mandatory
10	22063	Applicant Name must be Alpha
11	22018	Applicant Address is mandatory
12	22021	Applicant Phone/Cell No is mandatory
13	22028	Beneficiary Name is mandatory
14	22029	Beneficiary ID Type is mandatory
15	22051	Beneficiary ID format should be 12345-1234567-1
16	22033	Beneficiary Address is mandatory
17	22035	Beneficiary Country is mandatory
18	22036	Purpose Of Transaction is mandatory
19	22037	Source Of Income is mandatory
20	22074	Currency is mandatory
21	10005	Error found in adding Transactions
22	11012	Fund Transferred
23	11013	Error in Fund Transfer
24	22062	Applicant ID Must be Alphanumeric
25	22052	Beneficiary ID Number is mandatory
26	22001	Webservice credentials are invalid
27	22002	Service ID not provided
28	22003	Service Password not provided
29	22034	Beneficiary City is mandatory
30	22014	Transaction Reference Number is mandatory
31	10036	Transcation ID not provided

Queue based transactions facility allows to perform the transaction in both Online and Offline mode.

Queue - Online:

If Agent wishes to perform funds transfer in both BAHL and other banks accounts in real time but not instantly, it can use this service by parking the transactions in BAHL bucket (AddTransactionInQueue) & agent can settle the transactions later by calling ProcessQueueOnline Service.

Queue - Offline:

This service allows agent to transmit Cash over counter(COC), BAHL Account deposit & Other bank account deposit transactions by queuing up transactions. This will transmit the transactions to BAHL operations team in file for onward processing. Agent will perform (AddTransactionInQueue) and (ProcessQueueOffline Service) in Offline mode.

AddTransactioninqueue():

This operation is used by agent for Adding transaction in queue.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: TransactionStatus

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie Up code	MNY
UserId	string	30	Agent User Id	*********
UserPassword	string	30	Agent User Password	*********
BankCode	Int		Bank Code	1
ApplicantIDType	Int		ID Type Code	1

ApplicantIDNo	String	30	ID Number	In case of ID Type 1 Format should be (42101-1515111-1)
ApplicantPlacedOfBirth	String	50	Place of Birth	Karachi
ApplicantLegalCountry	Int		Country	1
ApplicantName	String	50	Name	Akbar Khan
ApplicantAddress	String	100	Address	H NO 099099
ApplicantCellNo	String	30	Cell no	03461611611
BeneficiaryName	String	50	Name	Ahmed Ali
BeneficiaryIDType	Int		Id Type Code	1
BeneficiaryNo	String	30	Id Number	In case of ID Type 1 Format should be (42101-1515111-1)
BeneficiaryAddress	String	100	Address	H NO 09955555
BeneficiaryCountry	Int		Country ID Code	1
PurposeOfTransaction	String	50	Purpose of Transaction	GIFT
SourceOfIncome	String	50	Source of Income	SALARY
CurrencyID	Int		Currency Code	1
Amount	Decimal	20	Amount in FCY	154464.00
TranAmount	Decimal	20	Amount in PKR	15446400.00
ReferenceNo	String	20	Unique Reference Number	14614644
StatusCode	String	1	Transaction Status Code (i.e O,F)	O
SessionID	String	50	Session Id of given Title Fetch	9991015161124120849121
BeneficiaryAccTitle	String	70	Account Title	FARHAN AHMED KHAN

BeneficiaryCellNo	String	15	Cell No	03441344964
EntryMode	String	20	Transaction Entry Mode	Instant
OnlineStatus	Int		Online Status Code	1
ApplicantIDNoIssueDate	DateTime	10	Id Issue Date	2010-10-01
ApplicantIDNoExpiryDate	DateTime	10	Id Expiry Date	2015-10-01
DeliveryMode	Int		Delivery Mode Code	1
Relationship	String	50	Relationship between Beneficiary and Applicant	Uncle
ApplicantNationality	String	60	Nationality	Canadian
ApplicantDOB	DateTime	10	Date of Birth	1984-10-01
BeneficiaryBranchName	String	60	Branch Name	New Chali Branch
BeneficiaryCity	Int		City	1
BeneficiaryAcc	String	50	Account No	1511646411414
AccountNo	String	50	Account No	1511646411414

Response Interface: Return type Bool:(true/false)

Name of Object: ResponseModel

List of Return Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
ResponseCode	string	5	Response Code	99999

Code description:

1	99999	Successful
2	22069	Amount must be numeric
3	22025	Delivery Mode is mandatory
4	22043	Bank Name not provided
5	22042	Credit Account No/IBAN No not provided
6	22015	Applicant ID is mandatory
7	22019	Applicant Place of Birth is mandatory
8	22020	Applicant legal Country is mandatory
9	22017	Applicant Name is mandatory
10	22063	Applicant Name must be Alpha
11	22018	Applicant Address is mandatory
12	22021	Applicant Phone/Cell No is mandatory
13	22028	Beneficiary Name is mandatory
14	22029	Beneficiary ID Type is mandatory
15	22051	Beneficiary ID format should be 12345-1234567-1
16	22033	Beneficiary Address is mandatory
17	22035	Beneficiary Country is mandatory
18	22036	Purpose Of Transaction is mandatory
19	22037	Source Of Income is mandatory
20	22074	Currency is mandatory
21	10005	Error found in adding Transactions
22	11012	Fund Transferred
23	11013	Error in Fund Transfer
24	22062	Applicant ID Must be Alphanumeric
25	22052	Beneficiary ID Number is mandatory
26	22001	Webservice credentials are invalid
27	22002	Service ID not provided
28	22003	Service Password not provided
29	22034	Beneficiary City is mandatory
30	22014	Transaction Reference Number is mandatory
31	10036	Transaction ID not provided

ProcessQueueOnline():

This operation is used by agent to Process Online Transaction in Queue.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_User

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
OnlineStatus	Int		Online Status Code	1

Response Interface: Return type Bool:(true/false)

Name of Object: ResponseModel

List of Return Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
ResponseCode	String	50	Response Code	99999
ResponseMessage	String	50	Response Message	2 records has transfer Successfully

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid

7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10013	Given agent does not belongs to provided exchange company or is inactive
12	22076	Transaction processed successfully , Some transaction did not processed
13	22077	Process Transaction Failed
14	22011	Update Transaction Failed

ProcessQueueOffline():

This operation is used by agent to Process Offline Transaction in Queue.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_User

List of Required Object Parameter:

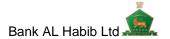| FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
OnlineStatus	Int		Online Status Code	1

Response Interface: Return type Bool:(true/false)

Name of Object: ResponseModel

List of Return Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
ResponseCode	String	50	Response Code	99999
ResponseMessage	String	50	Response Message	2 records has transfer Successfully

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10013	Given agent does not belongs to provided exchange company or is inactive
12	33000	Error Found in Generating file
13	33001	Error Found in Sending email
14	33002	File Generated and Error in Sending email

GetTransactionInquiry():

This service is used by agent to get transactions status wise(online/offline).

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: TransactionStatus

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
OnlineStatus	Int		Online Status Code	1

Offered Filters:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AccountNo	string	40	IBAN/ Account No	PK76BAHL1232333213/123456789
ReferenceNo	String	20	Unique Reference Number	14614644
Amount	decimal	20	enter amount	12311.00
BeneficiaryAccTitle	String	70	Account Title	Talha Khan
StatusCode	String	1	Transaction Status Code (i.e O,F)	O

Response Interface: Return type Bool:(true/false)

Name of Object : ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of Transactions else Null	

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	22009	Transaction not found

AccountBalanceInquiry():

This service is used by agent to know its balance in Non-Resident/Non checking account maintained at BAHL.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_User

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********

Response Interface: **Return type Bool:(true/false)**

Name of Object : ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
AvailableBalance	String	20	In case of result=true	*********

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	11015	Insufficient balance
12	22039	Tie Up Account not found

Cancel Transaction

CancelOutstandingTransaction():

This service allows agent to cancel transactions only in "Queue-Online" based transactions having their status as "Outstanding".

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_User

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********

TransactionID	int		Transaction ID Number	1

Response Interface: **Return type Bool:(true/false)**

Name of Object : ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10036	Transaction ID not provided
12	10034	Transaction Cancelled
13	10035	Transaction Cancelled Failed

ModifyTransaction():

This operation is used by agent for Modify transaction.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: TransactionStatus

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie Up code	MNY
UserId	string	30	Agent User Id	*********
UserPassword	string	30	Agent User Password	*********
BankCode	Int		Bank Code	1
isIBAN	Bool		Account No/IBAN	True / False
ApplicantIDType	Int		ID Type Code	1
ApplicantIDNo	String	30	ID Number	In case of ID Type 1 Format should be (42101-1515111-1)
ApplicantPlacedOfBirth	String	50	Place of Birth	Karachi
ApplicantLegalCountry	int		Country	1
ApplicantName	String	50	Name	Kabir Khan
ApplicantAddress	String	100	Address	H NO 099099
ApplicantCellNo	String	30	Cell no	03461611611

BeneficiaryName	String	50	Name	Ahmed Ali
BeneficiaryIDType	Int		Id Type Code	1
BeneficiaryNo	String	30	Id Number	In case of ID Type 1 Format should be (42101-1515111-1)
BeneficiaryAddress	String	100	Address	H NO 09955555
BeneficiaryCountry	Int		Country ID Code	1
PurposeOfTransaction	String	50	Purpose of Transaction	GIFT
SourceOfIncome	String	50	Source of Income	SALARY
CurrencyID	Int		Currency Code	1
Amount	Decimal	20	Amount in FCY	154464.00
TranAmount	Decimal	20	Amount in PKR	15446400.00
ReferenceNo	String	20	Unique Reference Number	14614644
StatusCode	String	1	Transaction Staus Code (i.e O,F)	O
SessionID	String	50	Session Id of given Title Fetch	9991015161124120849121
BeneficiaryAccTitle	String	70	Account Title	FARHAN AHMED KHAN
BeneficiaryCellNo	String	15	Cell No	03441344964
EntryMode	String	20	Transaction Entry Mode	Instant
OnlineStatus	Int		Online Status Code	1
ApplicantIDType	int		Id Type	1
ApplicantIDNoIssueDate	DateTime	10	Id Issue Date	2010-10-01
ApplicantIDNoExpiryDate	DateTime	10	Id Expiry Date	2015-10-01

DeliveryMode	Int		DeliveryMode Code	1
Relationship	String	50	Relationship between Beneficiary and Applicant	Uncle
ApplicantNationality	String	60	Nationality	Canadian
ApplicantDOB	DateTime	10	Date of Birth	1984-10-01
BeneficiaryBranchName	String	60	Branch Name	New Chali Branch
BeneficiaryCity	Int		City	1
BeneficiaryAcc	String	50	Account No	1511646411414
TransactionID	int		Transaction ID Number	1
AccountNo	String	50	Account No	1511646411414

Response Interface: Return type Bool:(true/false)

Name of Object: ResponseModel

List of Return Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
ResponseCode	string	50	Response Code	10005

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided

10	22003	Service Password not provided
11	22012	Transaction Amount(PKR) is less than Minimum Amount Limit
12	22013	Exchange Company Code is mandatory
13	22014	Transaction Reference Number is mandatory
14	22015	Applicant ID is mandatory
15	22016	Applicant D.O.B is mandatory
16	22017	Applicant Name is mandatory
17	22018	Applicant Address is mandatory
18	22019	Applicant Place of Birth is mandatory
19	22020	Applicant legal Country is mandatory
20	22021	Applicant Phone/Cell No is mandatory
21	22023	Amount(PKR) is mandatory
22	22025	Delivery Mode is mandatory
23	22028	Beneficiary Name is mandatory
24	22029	Beneficiary ID Type is mandatory
25	22031	Beneficiary Branch Name is mandatory
26	22033	Beneficiary Address is mandatory
27	22034	Beneficiary City is mandatory
28	22035	Beneficiary Country is mandatory
29	22036	Purpose Of Transaction is mandatory
30	22037	Source Of Income is mandatory
31	22041	Select Queue mode for Offline Transaction
32	22042	Credit Account No/IBAN No not provided
33	22043	Bank Name not provided
34	22045	Invalid entry mode
35	22046	Mode Status not provided
36	22048	Cannot perform COC Transaction in Online Mode
37	22049	Cannot perform Offline Transaction in Instant mode
38	22051	Beneficiary ID format should be 12345-1234567-1
39	22052	Beneficiary ID Number is mandatory
40	22054	Unique Reference No. is required
41	22055	Enter Valid Account No
42	22056	Source and destination banks are different
43	22057	Source and destination banks are same
44	22058	expiry date must be greater than issuance date
45	44000	Maximum length of Source of income should be 60
46	44001	Maximum length of Purpose of transaction should be 60
47	44002	Maximum length of Beneficiary branch name should be 100
48	44003	Maximum length of Applicant place of birth should be 60
49	44004	Maximum length of Applicant Nationality should be 60
50	44005	Maximum length of Applicant cell number should be 30
51	44006	Maximum length of Applicant ID number should be 30
52	44007	Maximum length of Applicant ID Type should be 30
53	44008	Maximum length of Applicant Address should be 100
54	44009	Maximum length of Applicant Name should be 50

55	44010	Maximum length of Service User ID should be 50
56	44012	Maximum length of Beneficiary Address should be 100
57	44013	Maximum length of Beneficiary Name should be 50
58	44014	Maximum length of Beneficiary Cell No should be 15
59	44015	Maximum length of Beneficiary ID Number No should be 30
60	44016	Maximum length of Beneficiary ID Type should be 30
61	44017	Maximum length of Beneficiary Account Title should be 100
62	44018	Maximum length of Beneficiary Account Number should be 50
63	44019	Maximum length of Amount should be 16
64	44020	Maximum length of Online Status should be 50
65	44021	Maximum length of Entry Mode should be 20
66	44022	Maximum length of Reference number should be 50
67	44024	Maximum length of IP should be 50
68	44025	Maximum length of Credit Account should be 50
69	10036	Transaction ID not provided
70	10038	Transaction Updated
71	10037	Update Transaction Failed
72	22061	Could not update processed transactions
73	22062	Applicant ID Must be Alphanumeric
74	22063	Applicant Name must be Alpha
75	22064	Applicant Place of Birth must be Alpha
76	22065	Beneficiary Name must be Alpha
77	22066	Applicant Cell Number must be numeric
78	22067	Beneficiary Cell Number must be numeric
79	22068	Purpose of Transaction must be alpha
80	22069	Amount must be numeric
81	22070	Beneficiary ID Must be Alphanumeric
82	22071	Source of Income must be alpha
83	22074	Currency is mandatory

Conditional APIs / Setup Information

Following are the services, which will provide List of values (LOVs) for consuming API Services.

GET_BANKS():

This Service will provide list of Banks.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_UserCredentials

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
BankID	int		Bank ID non mandatory(To fetch any specific bank)	1

Response Interface:

Name of Object: ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of City else Null	

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10032	No Bank Exist

GET_CITY():

This Service will provide list of Cities.

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_UserCredentials

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
CityID	int		City ID non mandatory(To fetch any specific City)	1

Response Interface:

Name of Object: ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of City else Null	

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10033	No City Exist

GET_COUNTRY():

This Service will provide list of Countries

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_UserCredentials

List of Required Object Parameter

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
CountryID	int		Country ID non mandatory(To fetch any specific Country)	1

Response Interface:

Name of Object: ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of Country else Null	

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10030	No Country Exist

GET_CURRENCY():

This Service will provide list of Currencies

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_UserCredentials

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
CurrencyID	int	5	Currency ID non mandatory(To fetch any specific Currency)	1

Response Interface:

Name of Object: ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of Currency else Null	

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10039	No Currency Exist

GET_DELIVERYMODE():

This Service will provide list of Delivery modes

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_UserCredentials

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tieup Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
ModeID	int	5	Mode ID non mandatory(To fetch any specific Delivery Mode)	1

Response Interface:

Name of Object: ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of Delivery Mode else Null	

Code description:

Sr.No	Code	Description
1	99999	Successful
2	22001	Webservice credentials are invalid
3	22002	Service ID not provided
4	22003	Service Password not provided
5	10029	No Delivery Mode Found

GET_DOC_TYPE():

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_UserCredentials

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY

UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
DocId	int	5	Document Type ID non mandatory(To fetch any specific Document Type)	1

Response Interface:

Name of Object: ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of Document Type else Null	

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10029	No Delivery Mode Found

GET_TRANSACTION_MODE():

Request Interface:

Service Credentials

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
App_ID	string	20	Service User ID	***************
APP_Password	string	20	Service User Password	***************

Name of Object: RTPS_UserCredentials

List of Required Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
AgentId	Int		Agent id	10048
TieUpCode	string	10	Tie up Code	MNY
UserId	string	30	Agent User id	*********
UserPassword	string	30	Agent User Password	*********
ModeId	int		Transaction Mode ID non mandatory(To fetch any specific Transaction Mode)	1

Response Interface:

Name of Object: ResponseModel

List of Response Object Parameter:

FIELD NAME	FIELD TYPE	LENGTH	DESCRIPTION	EXAMPLE
Response Code	String	50	Response Code	99999
Data Table			In case of true list of Transaction Mode else Null	

Code description:

S No	Response Code	Message
1	99999	Successful
2	10014	User Id not provided
3	10015	User Password not provided
4	10016	TieUp Code not provided
5	10017	User Credentials Authentication Failed
6	10018	IP Provided is not valid
7	10019	TieUp is not in Active state
8	22001	Webservice credentials are invalid
9	22002	Service ID not provided
10	22003	Service Password not provided
11	10031	No Transaction Mode Found

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Response Code	Description
10001	Session Id not provided
10002	System Exception
10003	Web Credentials are in valid
10004	Commercial Caption check failed
10005	Error found in adding Transactions
10006	Some Error found in Generating SessionID
10007	No session Id found against given request
10009	Found deleted Successfully
10010	No Debit Account Info found against Tieup
10011	Session ID is expired
10012	No account found against fetched title
10013	Given agent does not belongs to provided exchange company or is inactive
10014	User Id not provided
10015	User Password not provided
10016	TieUp Code not provided
10017	User Credentials Authentication Failed
10018	IP Provided is not valid
10019	TieUp is not in Active state
10020	IBAN No is invalid
10021	Transaction Amount Configuration failed
10022	Max Transaction amount exceeds
10023	Total transactions per day exceeds
10024	Transaction Amount exceeds
10025	Foreign Account Exist
10026	Non Cheque-in Account
10027	Non Cheque-in Account Condition not exist
10028	No Document Type Found
10029	No Delivery Mode Found
10030	No Country Exist
10031	No Transaction Mode Found
10032	No Bank Exist
10033	No City Exist
10034	Transaction Cancelled
10035	Transaction Cancelation failed
10036	Transaction ID not provided
10037	Update Transaction Failed
10038	Transaction Updated
10039	No Currency Exist
11003	Debit Account does not exist
11004	System Exception

11005	Debit Blocked on account
11006	Credit Account does not exist
11007	Credit Blocked on account
11008	Debit Account has insufficient Balance!
11010	You Cannot Process Transaction (Transaction Date Not Same)
11011	Webservice credentials are invalid
11012	Fund Transferred
11013	Error in Fund Transfer
11014	No Account found
11015	Insufficient balance
11016	Account No. Does not Exist
22001	Webservice credentials are invalid
22002	Service ID not provided
22003	Service Password not provided
22004	Tieup Account info is invalid
22005	System Exception
22006	Transaction Added Successfully
22007	Add Transaction failed
22009	Transaction not found
22010	Transaction Updated
22011	Update Transaction Failed
22012	Transaction Amount(PKR) is less than Minimum Amount Limit
22013	Exchange Company Code is mandatory
22014	Transaction Reference Number is mandatory
22015	Applicant ID is mandatory
22016	Applicant D.O.B is mandatory
22017	Applicant Name is mandatory
22018	Applicant Address is mandatory
22019	Applicant Place of Birth is mandatory
22020	Applicant legal Country is mandatory
22021	Applicant Phone/Cell No is mandatory
22022	Transaction Currency Code is mandatory
22023	Amount(PKR) is mandatory
22024	Transaction Amount PKR is mandatory
22025	Delivery Mode is mandatory
22026	Transaction Date is mandatory
22027	Value Date is mandatory
22028	Beneficiary Name is mandatory
22029	Beneficiary ID Type is mandatory
22030	Beneficiary Bank is mandatory
22031	Beneficiary Branch Name is mandatory
22032	Beneficiary Amount Number is mandatory
22033	Beneficiary Address is mandatory
22034	Beneficiary City is mandatory
22035	Beneficiary Country is mandatory

22036	Purpose Of Transaction is mandatory
22037	Source Of Income is mandatory
22038	Transaction Originator Name is mandatory
22039	Tie Up Account not found
22040	Error found in Generating files
22041	Select Queue mode for Offline Transaction
22042	Credit Account No/IBAN No not provided
22043	Bank Name not provided
22044	Enter correct IBAN no.
22045	Invalid entry mode
22046	Mode Status not provided
22047	Transaction Mode not provided
22048	Cannot perform COC Transaction in Online Mode
22049	Cannot perform Offline Transaction in Instant mode
22050	Cannot perform COC Transaction Online
22051	Beneficiary ID format should be 12345-1234567-1
22052	Beneficiary ID Number is mandatory
22053	Unique Reference no already exist
22054	Unique Reference No. is required
22055	Enter Valid Account No
22056	Source and destination banks are different
22057	Source and destination banks are same
22058	expiry date must be greater than issuance date
22059	Debit and Credit Account is same
22060	Cannot fetch Account Information for coc transaction
22061	Could not update processed transactions
22062	Applicant ID Must be Alphanumeric
22063	Applicant Name must be Alpha
22064	Applicant Place of Birth must be Alpha
22065	Beneficiary Name must be Alpha
22066	Applicant Cell Number must be numeric
22067	Beneficiary Cell Number must be numeric
22068	Purpose of Transaction must be alpha
22069	Amount must be numeric
22070	Beneficiary ID Must be Alphanumeric
22071	Source of Income must be alpha
22072	Transaction Amount is less than Minimum Amount Limit
22073	Transaction Amount is mandatory
22074	Currency is mandatory
22075	Cannot perform Fund Transfer in Offline Mode
22076	Transaction processed successfully , Some transaction did not processed
22077	Process Transaction Failed
33000	Error Found in Generating file
33001	Error Found in Sending email
33002	File Generated and Error in Sending email

33003	File Generated and Successfully Mail
44000	Maximum length of Source of income should be 60
44001	Maximum length of Purpose of transaction should be 60
44002	Maximum length of Beneficiary branch name should be 100
44003	Maximum length of Applicant place of birth should be 60
44004	Maximum length of Applicant Nationality should be 60
44005	Maximum length of Applicant cell number should be 30
44006	Maximum length of Applicant ID number should be 30
44007	Maximum length of Applicant ID Type should be 30
44008	Maximum length of Applicant Address should be 100
44009	Maximum length of Applicant Name should be 50
44010	Maximum length of Service User ID should be 50
44011	Maximum length of Service User Password should be 30
44012	Maximum length of Beneficiary Address should be 100
44013	Maximum length of Beneficiary Name should be 50
44014	Maximum length of Beneficiary Cell No should be 15
44015	Maximum length of Beneficiary ID Number No should be 30
44016	Maximum length of Beneficiary ID Type should be 30
44017	Maximum length of Beneficiary Account Title should be 100
44018	Maximum length of Beneficiary Account Number should be 50
44019	Maximum length of Amount should be 16
44020	Maximum length of Online Status should be 50
44021	Maximum length of Entry Mode should be 20
44022	Maximum length of Reference number should be 50
44023	Maximum length of Exchange Code should be 50
44024	Maximum length of IP should be 50
44025	Maximum length of Credit Account should be 50
99999	Successful