



Kuwait Finance House (M) Berhad

KFH Online Banking

(National Bill Payment Scheme- NBPS)

Business Requirement Specification

28th May 2014

Reference: KFH/ IBSCR063/BRS/NBPS

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Business Requirement Acceptance

I/We hereby verify that this Business Requirement consist of all the requirements requested by Kuwait Finance House (M) Berhad. The implemented system will fulfill ONLY this requirement.

I/We also hereby AGREE that this satisfies our entire requirement for IBSCR063 – IBG Core System for NBPS

Any future changes to this agreed scope will be treated as an enhancement to the system.
Any future changes to the project timeline will be subjected to the final approval of the project steering committee.

Kuwait Finance House (M) Berhad:

Approved by	Role	Signature	Date

Penril Datability (SEA) Sdn. Bhd.:

Approved by	Role	Signature	Date
Norhaidah Bt Md Dasuki	Project Manager		
Tan Lee Yong			

1 Introduction

This document describes the features, process flow and screen design of National Bill Payment Scheme (NBPS). NBPS is a Real time Bill Payment via IBG Server.

Following transactional features of NBPS will be captured in NBPS BRS document.

- NBPS Transaction: Make NBPS Transaction: Open & Registered
- NBPS Favorite Beneficiary Maintenance: Register, Edit and Delete Favorite Account.

There are two (2) NBPS integration functions available:

- ValidatePayment – Function use to validate that the payment details are valid and to return information to facilitate the further processing of the transaction.
- NotifyCompletion – Function use to notify the Biller via BVM (Biller Validation Module) that the Payer's bill payment has been successful.

1.1 Objective

The objective of this document is to capture user requirements of transactional and administration modules of NBPS. This document will facilitate development and implementation of the mentioned modules of Internet Banking System for Kuwait Finance House Malaysia Berhad ("KFHMB").

The base line features description and screen designs will become a reference blueprint for the development team to develop the transactional and administration module. Hence, it is crucial that all stakeholders need to ensure the correctness and adequacy of the requirements captured in this document.

All stakeholders involved are expected to review and sign off this document before the development start. By signing off the document, the stakeholder has endorsed the correctness and accuracy and adequacy of the requirements documented in this document.

1.2 Solution Overview

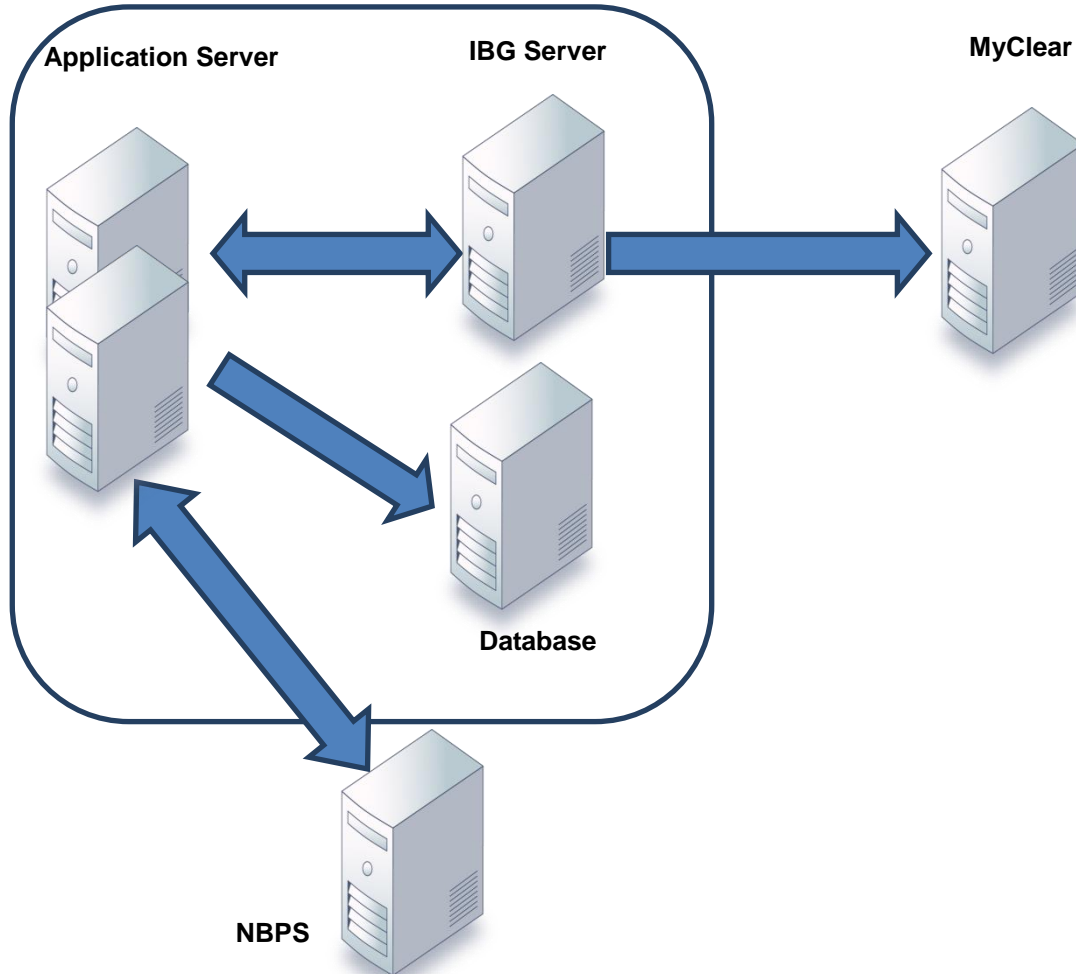
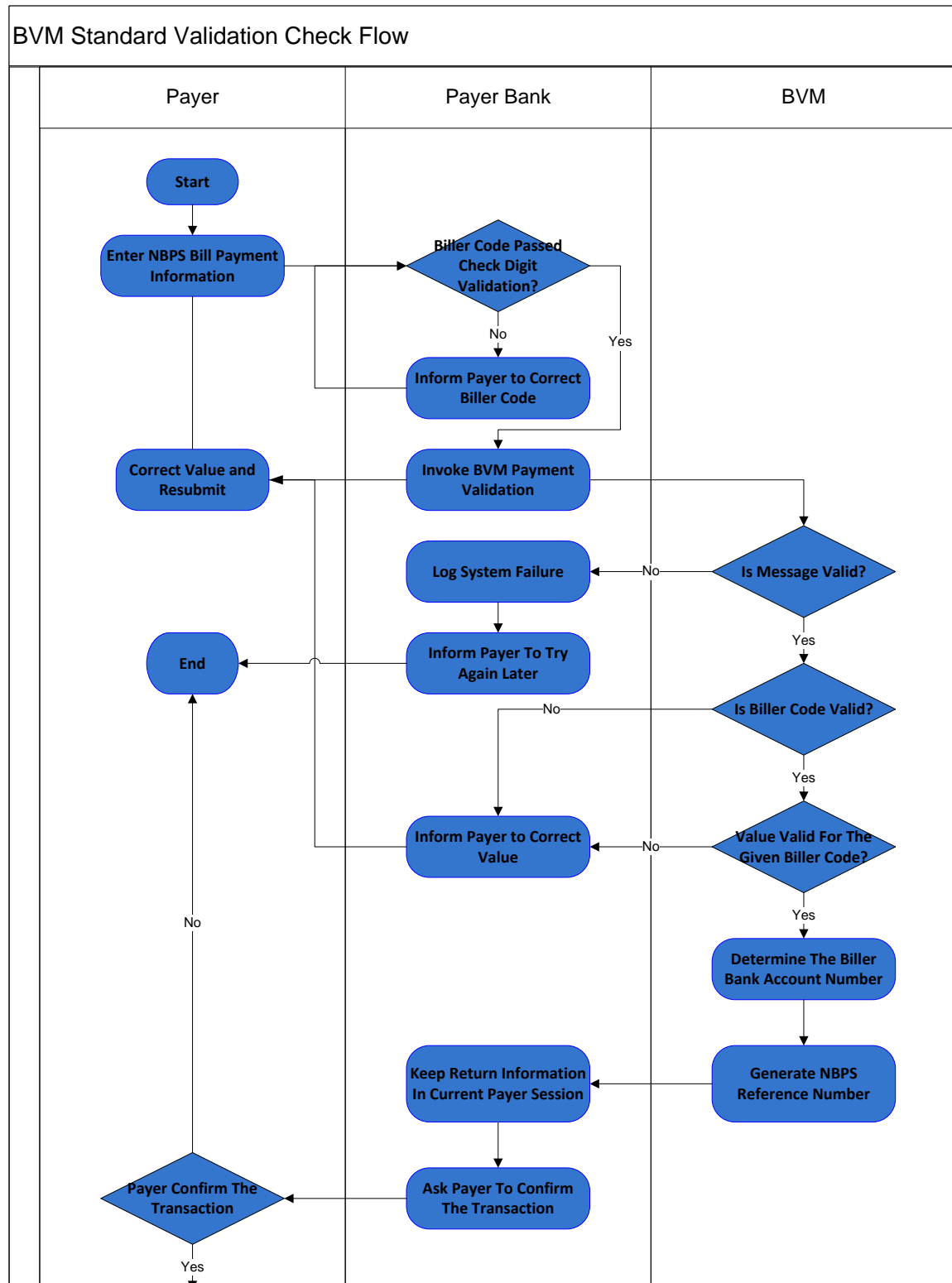


Figure 1: Illustration the components in NBPS

No	Component	Description
1	Application Server – Internet Banking (IB)	Initiate NBPS Payment and send to MyClear via IBG Server.
2	IBG Server	It is a communication channel between IB and MyClear where it has to carry the request from IB to MyClear and return result from MyClear to IB.
3	NBPS (BVM)	Host to return Billers Name, & Billers Details
4	Database	Warehousing of the NBPS Payment Transaction result
5	MyClear	Communicate with other Financial Institutions (FIs).

Table 1: Components of NBPS

1.3 Process Flow



Continue...

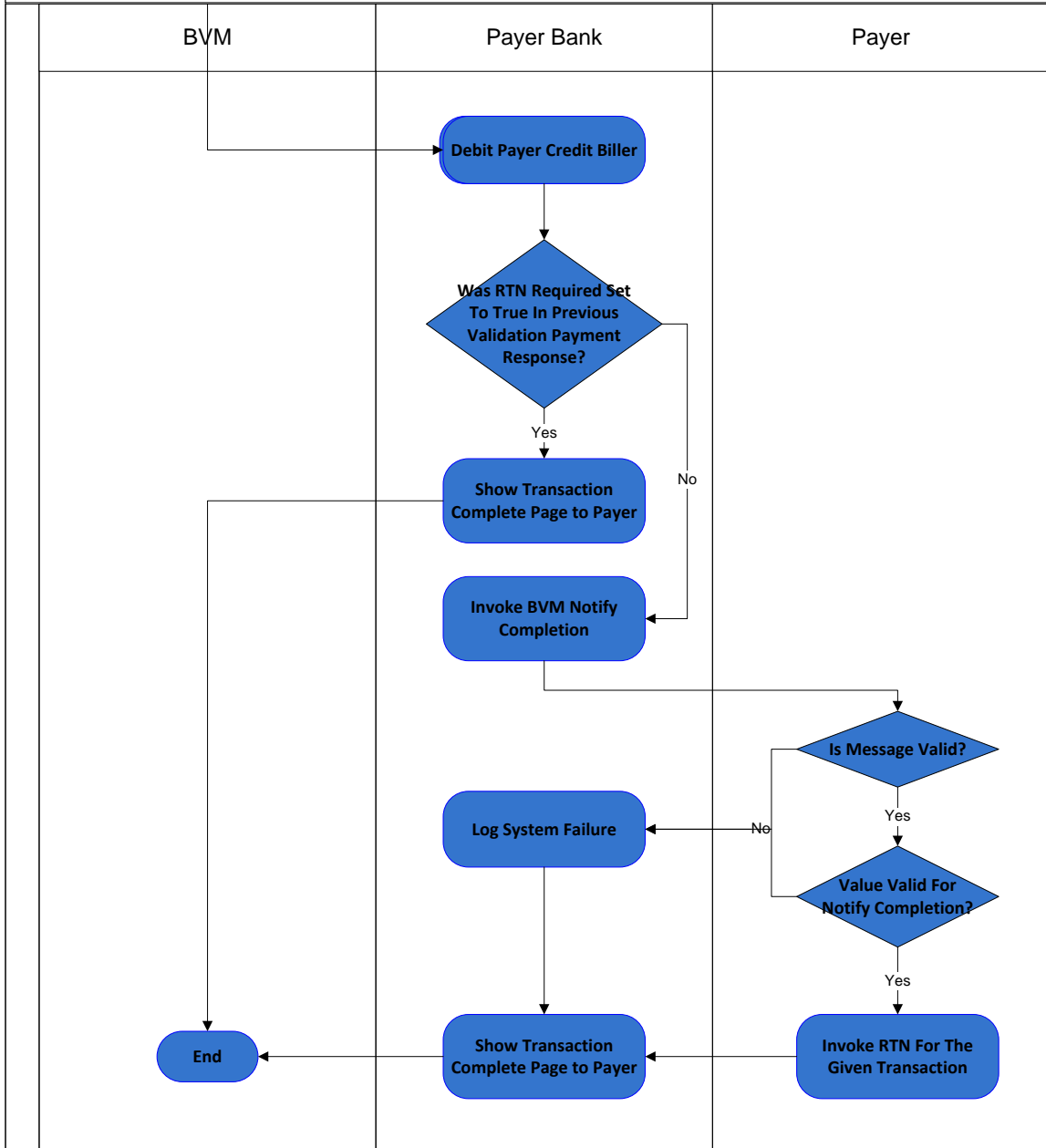


Figure 2: NBPS Process Flow

1.4 Scope of Delivery

	Modules	Description
Internet Banking (Consumer & Business) & CORUS	Interbank	<ul style="list-style-type: none"> Develop new modules for Open, Favourite and Favourite Maintenance Get the details and sends instruction to IBG Core NBPS Server integration (Webservice)
Integration	IBG Server	An integration layer between IB and MyClear
BVMC	Service configuration	Add new navigation nodes for NBPS
	Reports	Generate report for completed transactions
IBG Core	Message Format	Changes to the request message to carry additional info on NBPS
	OFI	Capture the details and place it in OFI Nacha
	RFI	Read the RFI Nacha and store the value
	Crediting	Get the details and process the transaction
Corus	OFI Enquiry	Retrieve the details and display in screen
	RFI Enquiry	Retrieve the details and display in screen
	Reports	Update existing reports to tally with the new data fields

Table 2: NBPS Scope

SECTION A: Online Banking

2 Consumer and Business Internet Banking

2.1 NBPS

The NBPS Transaction can be made to CIB and BIB using two (2) types of NBPS transfer:

- Open NBPS
- Registered NBPS

2.2 Process Flow

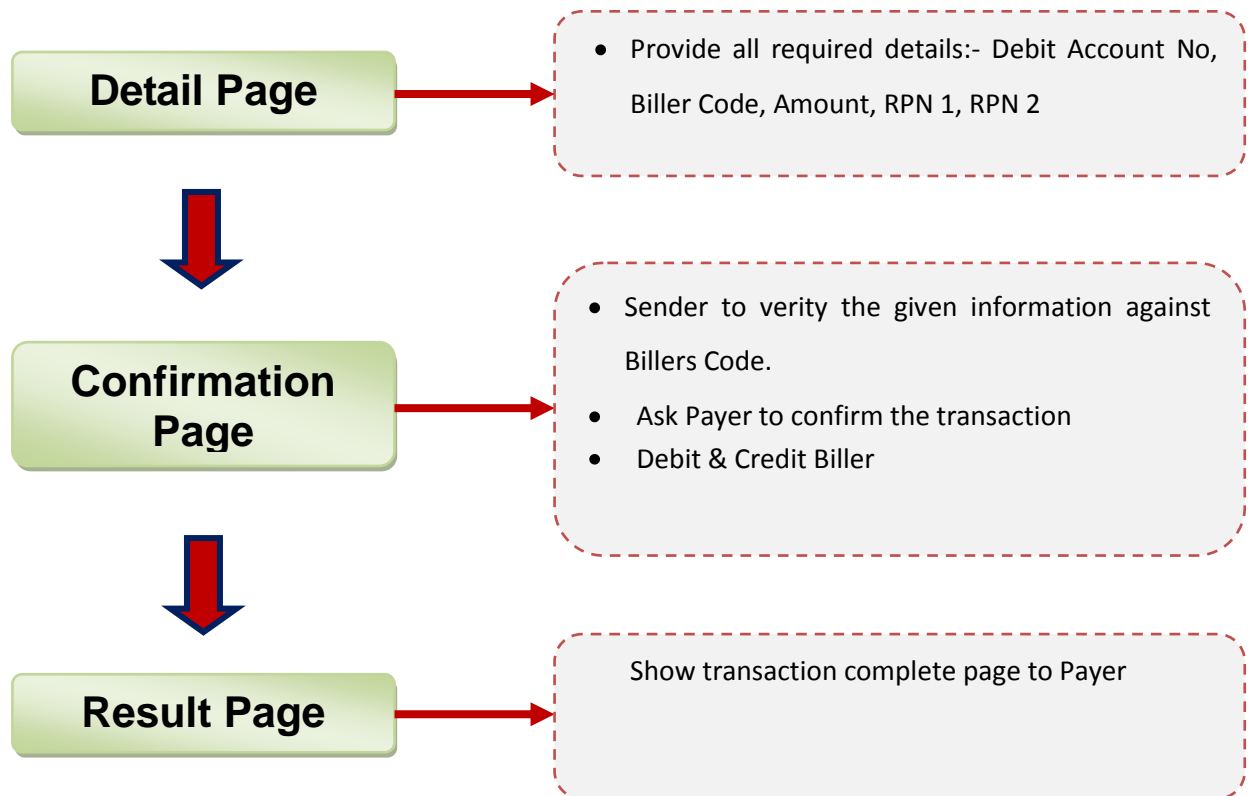


Figure 3: NBPS Process Flow

Input Details:

No	Field	Description	Data Type
1	Biller Code	Biller code	String
2	From Account No	Sender Account No	String
3	Amount	Amount to be transferred	String
4	RPN 1	RPN 1	String
5	RPN 2	RPN 2	String

Table 3: Input details of NBPS Transaction

Return Details:

No	Field	Description	Data Type
1	sig	Message Signature	String (100)
2	timestamp	String represent the UTC Time of the operation in ISO 8601 Format	String (25)
3	success	Whether the operation was success or not. Valid value are 'Y' or 'N'	String (1)
4	errorcode	Error Code if the request message was not successful.	String (10)
5	erroruimessage	Error UI Message if the request message was not successful	String (200)
6	erroruimessagelang	Language code of the Error UI message if the request was not successful	String (2)
7	systemref	NBPS System Ref No: yyyyMMddHHmm-BillerCode-XXXXXXXX	String (50)
8	validatedatetime	String represent of the UTC time of the BVM validation operation in ISO 8601 format	String (25)
9	nbpsref	NBPS Reference Number This is reference number that is displayed to the Payer and eventually passed to the Biller	String (20)
10	rtnrequired	Indicator whether Biller Code requires real time notification (RTN) for successful payment or not. Valid values are 'Y' or 'N'	String (1)
11	rrndynamic	Is the RRN dynamic or not? Valid value are 'Y' or 'N'	String (1)
12	rrninfo	Information from Billers (If available) Related to RRN to be displayed to the Payer (e.g LHDN may provided the customer name associated with their Tax Number contained in RRN)	String (60)
13	billername	Name of the Biller own the Biller Code, e.g Telekom Malaysia	String (50)
14	billercode	Biller Code from the request message	String (10)
15	billercodename	Description if the Billers Code, i.e. name of the service that Biller Code is for, e.g TM, Unifi	String (50)
16	billeraccount	Biller bank account number to be use to receive payment	String (40)
17	rfi	Biller bank IBG routing code	String (10)
18	msic	MCIS business category of the biller	String (20)
19	validatesig	Validation signature to be included in the subsequence NotifyCompletion call (if any)	String (100)
20	bankrefcode	Reference code of the payer bank	String (50)
21	extdata	Reserved for future expansion	String (250)

Table 4: Return details of NBPS Transaction

2.3 Screen Flow

2.3.1 Consumer Internet Banking (CIB)

2.3.1.1 CIB – Open NBPS

Step 1: Detail page

- Click on Open NBPS from the side navigation to view Details page.
- Fill in all the required details
- Click Next to proceed to next page.

Figure 4: Open NBPS Detail Screen

Step 2: Confirmation page

- In confirmation page, the Beneficiary Name displays.
- Sender to verify Billers Name & Billers Details and click Next to confirm the transaction.

Figure 5: Open NBPS Confirmation Screen

Step 3: Result page

- The status of the transaction with other details displays upon completion of the transaction.

Home	NBPS
Account Enquiry	Open NBPS
Bill Payment	
▼ NBPS	Notes
▶ Open NBPS	1. You need to enter the correct billers to proceed.
▶ Registered NBPS	
▶ NBPS Maintenance	
Funds Transfer	Step 3/3
Investment Account	From Account: 011050001293 KFH CURRENT ACCOUNT - i (PERSO)
Profile Maintenance	Billers Code: 1112
eStanding Instructions	Billers Details: Income tax repayment
	RPN 1: 500G1277410001
	Amount: 100.00
	RPN 2: 201205
	Status: Successful
	IB Reference No: 0000047194
	Reference No: 002136545
	Transaction Date: 28 Feb 2014
	Transaction Time: 11:10:55
	<input type="button" value="Make another transfer"/> <input type="button" value="Print receipt"/>

Figure 6: Open NBPS Result Screen

Step 4: Receipt of the NBPS Transaction

- Receipt can be printed once the transaction completed.

Open NBPS Receipt	
Friday, 28 February 2014, 11:24:18	
This is an online Open NBPS receipt made by MOHAMMAD SHUKREY BIN MOHD NORDIN via KFH Online. The details of payment are as follows:	
Billers Code:	1112
Billers Details:	Income tax repayment
Status:	Successful
RPN 1:	500G1277410001
Amount:	RM100.00
RPN 2:	201205
IB Reference No:	0000047194
Reference No:	002136545
Transaction Date:	28 Feb 2014
Transaction Time:	11:23:55
<input type="button" value="Close"/> <input type="button" value="Print"/>	
<i>Disclaimer: This is a computer generated receipt. No signature is required.</i>	

Figure 7: Open NBPS Receipt

2.3.1.2 CIB – Registered NBPS

Step 1: Detail page

- Click on Register NBPS from the side navigation.
- Fill in the Biller Code
- Click Continue to proceed to next page.

Figure 8: Registered NBPS Screen

Step 2: Detail page

- Click on Register NBPS from the side navigation to view Details page.
- Fill in all the required details
- Click Next to proceed to next page.

Figure 9: Registered NBPS Detail Screen

Step 3: Confirmation page

- In confirmation page, the Beneficiary Name displays.
- Sender to verify Billers Name & Billers Details and click Next to confirm the transaction.

Kuwait Finance House بيت التمويل الكويتي Consumer Banking

Home
Account Enquiry
Bill Payment

NBPS
Register NBPS

Notes
1. You need to enter the correct billers to proceed.

Step 3/4

From Account: 011050001293 KFH CURRENT ACCOUNT - i (PERSO)
Amount: 100.00
To: Bayaran Ansuran Cukai - LHDN
Billers Details: Income Tax Repayment
RPN 1: 500G1277410001
RPN 2: 201205

Note (*): All fields with asterisks (*) are required.

Do you have a TAC ready? Enter TAC number: Request TAC What's TAC?

Clear Next

Figure 10: Registered NBPS Confirmation Screen

Step 4: Result page

- The status of the transaction with other details displays upon completion of the transaction.

Kuwait Finance House بيت التمويل الكويتي Consumer Banking

Home
Account Enquiry
Bill Payment

NBPS
Register NBPS

Notes
1. You need to enter the correct billers to proceed.

Step 4/4

From Account: 011050001293 KFH CURRENT ACCOUNT - i (PERSO)
Amount: 100.00
To: Bayaran Ansuran Cukai - LHDN
Billers Details: Income Tax Repayment
RPN 1: 500G1277410001
RPN 2: 201205

Status: Successful

iB Reference No: 0000047194
Reference No: 002136545
Transaction Date: 28 Feb 2014
Transaction Time: 11:10:55

Make another transfer Print receipt

Figure 11: Registered NBPS Result Screen

Step 5: Receipt of the NBPS Transaction

- Receipt can be printed once the transaction completed.

Register NBPS Receipt

Friday, 28 February 2014, 11:24:18

This is an online Open NBPS receipt made by MOHAMMAD SHUKREY BIN MOHD NORDIN via KFH Online. The details of payment are as follows:

Billers Code:	1112
Billers Details:	Income tax repayment
Status:	Successful
RPN 1:	500G1277410001
Amount:	RM100.00
To:	Bayaran Ansuran Cukai - LHDN
RPN 2:	201205
IB Reference No:	0000047194
Reference No:	002136545
Transaction Date:	28 Feb 2014
Transaction Time:	11:23:55

Figure 12: Register NBPS Receipt

2.3.2 Business Internet Banking (BIB)

2.3.2.1 BIB – Open NBPS

Step 1: Detail page

- Click on Open NBPS from the side navigation to view Details page.
- Fill in all the required details
- Click Next to proceed to next page.

Figure 13: Open NBPS Detail Screen

Step 2: Confirmation page

- In confirmation page, the Beneficiary Name displays.
- Sender to verify Billers Name & Billers Details and click Save to confirm the transaction.

Figure 14: Registered NBPS Confirmation Screen



Step 3: Result page

- The status of the transaction with other details displays upon completion of the transaction.

The screenshot shows the 'Open NBPS' result page. At the top, it says 'Welcome, Initiator [Company ABC]' and 'Your last login was on Thursday, 1 April 2014, 14:30:17 | Log Out'. Below this is a navigation menu with tabs for 'Account Enquiry', 'Investment', 'Cheque Management', 'Funds Transfer', 'Bulk Payment', 'Bill Payment', 'NBPS', 'Trade Services', 'Treasury', 'Reports', 'General', and 'Standing Instructions'. Under the 'NBPS' tab, there are sub-tabs for 'Open NBPS', 'Registered NBPS', and 'NBPS Maintenance'. The main content area is titled 'NBPS' and 'Open NBPS'. It contains a 'Notes' section with the text: '1. You may select the Payee Corporation category from the list below.' Below the notes is a transaction summary table with the following details:

From account:	001105005475 KFH CURRENT ACCOUNT - I (NON-P)
Bill Code:	1112
To:	Bayaran Ansuran Cukai - LHDN
RPN 1:	500G1277410001
Amount:	100.00
RPN 2:	201205
Status:	Pending Verify
IB Reference No:	0000015895
Transaction date:	01 Apr 2014
Transaction time:	13:54:51

There is a 'Step 3/3' indicator in the top right corner of the transaction details area.

Figure 15: Open NBPS Result Screen

2.3.2.2 BIB – Registered NBPS

Step 1: Detail page

- Click on Register NBPS from the side navigation.
- Fill in the Biller Code
- Click Continue to proceed to next page.

The screenshot shows the 'Registered NBPS' screen. At the top, it says 'Business Banking' and 'Kuwait Finance House بيت التمويل الكويتي'. Below this is the same navigation menu as in Figure 15. Under the 'NBPS' tab, there are sub-tabs for 'Open NBPS', 'Registered NBPS', and 'NBPS Maintenance'. The main content area is titled 'NBPS' and 'Registered NBPS'. It contains a 'Notes' section with the text: '1. Please select one of your favourite Payee Corporation from the list below.' Below the notes is a form field for 'Biller Code' with the value '1112'. There is a 'Step 1/4' indicator in the top right corner of the form area. At the bottom right, there are 'Clear' and 'Next' buttons.

Figure 16: Registered NBPS Screen

Step 2: Detail page

- Click on Register NBPS from the side navigation to view Details page.
- Fill in all the required details
- Click Next to proceed to next page.

The screenshot shows the 'Registered NBPS' detail screen. At the top, there is a navigation bar with 'Business Banking' and the Kuwait Finance House logo. Below this, a welcome message for 'Initiator [Company ABC]' is displayed, along with the last login time and a 'Log Out' button. A menu bar contains various services, with 'NBPS' highlighted. Underneath, there are sub-menus for 'Open NBPS', 'Registered NBPS', and 'NBPS Maintenance'. The main content area is titled 'NBPS Registered NBPS' and includes a 'Notes' section with the instruction: '1. Please select your From Account and enter the Amount to be paid'. Below the notes, a form displays the following details: 'From account: 001305001696 Kuwait Finance House CURRENT ACCOUNT-i (RM342,840.89)', 'Amount: 100', 'To: Bayaran Ansuran Cukai - LHDN', 'Billers Detail: Income Tax Repayment', 'RPN 1: 500G1277410001', and 'RPN 2: 201205'. A 'Step 2/4' indicator is visible in the top right corner of the form area. At the bottom right, there are 'Back' and 'Next' buttons.

Figure 17: Registered NBPS Detail Screen

Step 3: Confirmation page

- In confirmation page, the Beneficiary Name displays.
- Sender to verify Billers Name & Billers Details and click Next to confirm the transaction.

The screenshot shows the 'Registered NBPS' confirmation screen. The layout is similar to the detail screen, but the 'Notes' section now contains the instruction: '1. Please ensure all the details entered are correct before confirming the transaction.' The form details are identical to Figure 17: 'From account: 001305001696 Kuwait Finance House CURRENT ACCOUNT-i (RM342,840.89)', 'Amount: 100.00', 'To: Bayaran Ansuran Cukai - LHDN', 'Billers Detail: Income Tax Repayment', 'RPN 1: 500G1277410001', and 'RPN 2: 201205'. A 'Step 3/4' indicator is visible in the top right corner of the form area. At the bottom right, there are 'Back' and 'Save' buttons.

Figure 18: Registered NBPS Confirmation Screen



Step 4: Result page

- The status of the transaction with other details displays upon completion of the transaction.

Account Enquiry	Investment	Cheque Management	Funds Transfer	Bulk Payment	Bill Payment	NBPS	Trade Services	Treasury	Reports	General	Standing Instructions
Open NBPS	Registered NBPS	NBPS Maintenance									
NBPS											
Registered NBPS											
Notes											
1. You are kindly advised to print the Receipt for your future reference and record keeping.											
											Step 4/4
From account: 001305001696 Kuwait Finance House CURRENT ACCOUNT-i (RM342,840.89)											
Amount: 100.00											
To: Bayaran Ansuran Cukai - LHDN											
Bill Detail : Income Tax Repayment											
RPN 1: 500G1277410001											
RPN 2: 201205											
Status: Pending Verify											
IB Reference No: 0000015895											
Transaction date: 01 Apr 2010											
Transaction time: 13:54:51											
											Perform another Registered NBPS

Figure 19: Registered NBPS Result Screen

3 NBPS Maintenance

Three (3) functions in Beneficiary maintenance:

- Add Account
- Edit Account
- Delete Account

3.1 Add Account

3.1.1 Process Flow

Register Beneficiary Account contains three (3) steps:

Step1: Registration page

Step2: Confirmation page

Step3: Result page

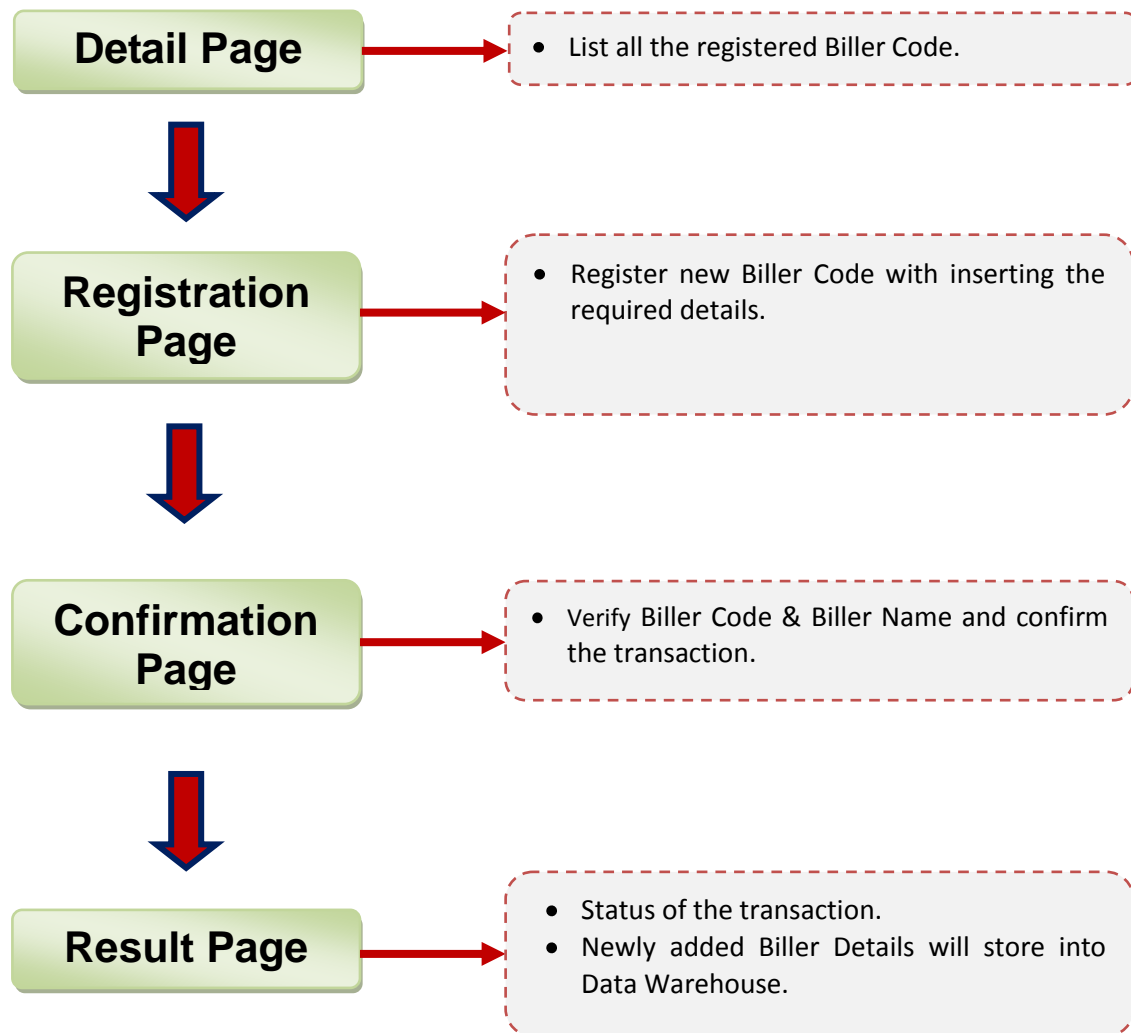


Figure 20: Register Beneficiary Account Process Flow

Input details:

No	Field	Description	Data Type
1	Billers Code	Billers Code	String
2	RPN 1	RPN 1	String
3	RPN 2	RPN 2	String

Table 5: Input details of NBPS Maintenance

3.1.2 Screen Flow

3.1.2.1 CIB – NBPS Maintenance

Step 1: Detail page

- Click on Beneficiary NBPS Maintenance from the side navigation to view Favorite NBPS Detail page.
- A list of Favorite Beneficiary (if any) shows with details.
- Click on the button Add to Register new Account.

Figure 21: Register Beneficiary Account Detail Screen

Step 2: Registration page

- Register new Account by adding the Biller Code from the dropdown.
- Click Next to proceed to next page.

Figure 22: Register Beneficiary Account Registration Screen

Step 3: Verification page

- Biller Details displays for Payer to verify.
- Click Next to proceed to next page.

Figure 23: Register Beneficiary Account Verification Screen

Step 4: Confirmation page

- Account holder name displays for Sender to verify.
- Click Confirm to confirm the transaction

Figure 24: Register Beneficiary Account Confirmation Screen

Step 5: Result page

- The status of the transaction with other details displays upon completion of the transaction.

The screenshot shows the 'NBPS Maintenance' page in the Consumer Banking section. The page title is 'NBPS' and the sub-title is 'NBPS Maintenance'. A navigation menu on the left includes Home, Account Enquiry, Bill Payment, NBPS (with sub-items: Open NBPS, Registered NBPS, NBPS Maintenance), Funds Transfer, Investment Account, Profile Maintenance, and eStanding Instructions. The main content area displays a 'Notes' section with the text: '1. You may now view the registered Payee Corporation details at the main page.' Below this is a 'Step 4/4' indicator and a table of transaction details:

Bill Code:	1112
To:	Bayaran Ansuran Cukai Individu - LHDN
Biller Details:	Income Tax Repayment
RPN 1:	500G1277410001
RPN 2:	201205
Status:	Successful
IB Reference No:	0000011480
Transaction date:	19 May 2014
Transaction time:	12:26:40

At the bottom right, there is a 'Back To NBPS Maintenance' button.

Figure 25: Register Beneficiary Account Result Screen

3.1.2.2 BIB – NBPS Maintenance

The screenshot shows the 'NBPS Maintenance' page in the Business Banking section. The page title is 'NBPS' and the sub-title is 'NBPS Maintenance'. The page includes a navigation menu with options: Account Enquiry, Investment, Funds Transfer, Bulk Payment, Bill Payment, NBPS (selected), Trade Services, Treasury, Reports, General, Standing Instructions, and Verification. Below the navigation menu, there are tabs for 'Open NBPS', 'Registered NBPS', and 'NBPS Maintenance'. The main content area displays a 'Notes' section with the text: '1. You may maintain your favourite Payee Corporation details here. This is to ease you in making any recurring bill payment to the same Payee Corporation. 2. You may Add or Delete the list of Payee Corporation here.' Below this is a table of registered payee details:

<input type="checkbox"/>	Bill Code	Biller Details	RPN 1	RPN 2
<input type="checkbox"/>	1112	Income Tax Repayment	500G1277410001	201503

At the bottom right, there are 'Clear', 'Delete', and 'Add' buttons.

Figure 26: BIB NBPS Maintenance Screen

SECTION B: BVMC

4 BVMS

4.1 Service Configuration

4.1.1 Create Navigation

- NBPS navigation in BVMC configured at: **IBConsumer >**
- NBPS navigation in BVMC configured at: **IBCorporate >**

Within NBPS Channel three (3) programs to be created:

- Open NBPS
- Registered NBPS
- NBPS Maintenance

4.1.2 Service Info Setting

- Service Info that related to the NBPS, are set at 'IB Service Info' for CIB & for BIB at 'BIB Service Info' content.
- In this service info, user have to set the notes for IB page, TAC availability, SMS alert and charges for sender and beneficiary, and service operation hour.
- Below table list the content name and the description for the NBPS service module.

Content name	Description
NBPSOPEN	Service Info for Open NBPS
NBPSFAV	Service Info for Registered NBPS
NBPSEDIT	Service Info for Edit Beneficiary NBPS Maintenance
NBPSADD	Service Info for Add Beneficiary NBPS Maintenance
NBPSDEL	Service Info for Delete Beneficiary NBPS Maintenance

Table 6: Service Info Declaration

4.2 Reports

KFHMB User can access to reports under IB Report module of BVMC, the user just need to select the appropriate report type, File Type as Text (*.txt) or CSV (*.csv), Month and Year to download the report in CSV or Text format.

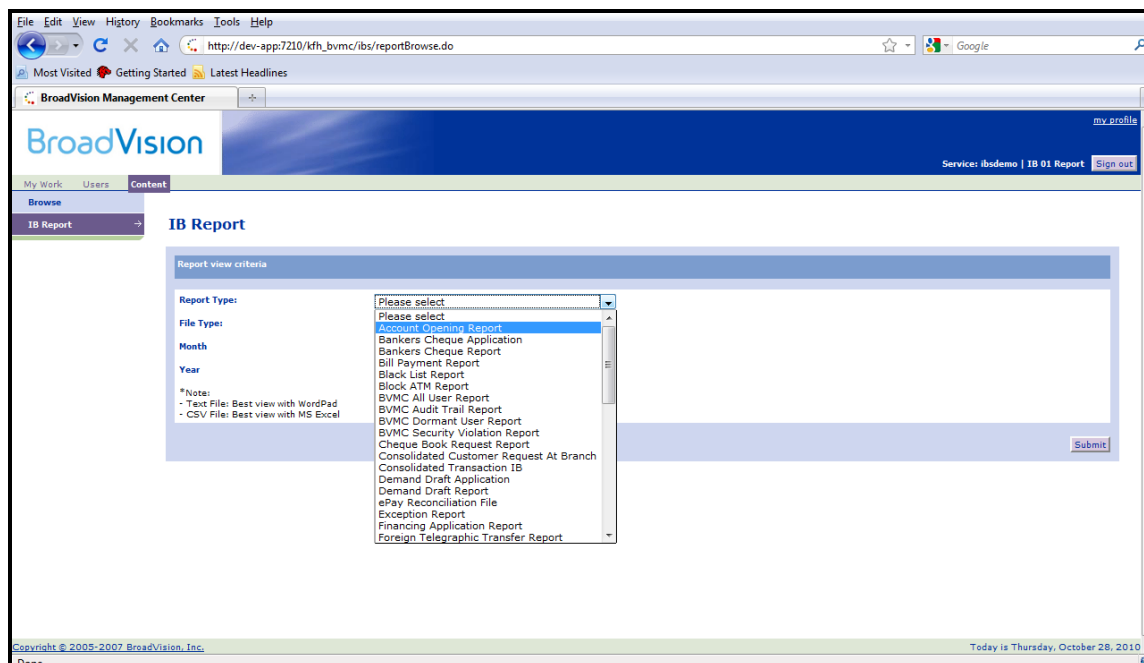


Figure 27: Retrieve Report

The following are reports related to NBPS

- Internet Transaction Report
 - Add on NBPS Transaction
- User Activity
 - Add on NBPS Transaction
- Daily Consolidated Transaction Report
 - Add on NBPSTransaction
- Monthly Consolidated Transaction Report
 - Add on NBPS Transaction
- NBPS Daily Report

Below attached sample reports in both formats: text file and CSV file.

SECTION C: CORUS

5 CORUS Enhancement for NBPS

5.1 Enhancement on NBPS Enquiry

There will be additional field to add inside the page:-

5.1.1 IBG Originating Transaction Enquiry

IBG Originating Transaction Enquiry

From Date:	<input type="text"/>	To Date:	<input type="text"/>
From Account:	<input type="text"/>	To Account:	<input type="text"/>
From Amount:	<input type="text"/>	To Amount:	<input type="text"/>
IBG Transaction No:	<input type="text"/>	Payment Reference No:	<input type="text"/>
Batch No:	<input type="text"/>	Payment Mode:	Please select ▼
From Effective Date:	<input type="text"/>	To Effective Date:	<input type="text"/>
Channel:	Please select ▼	Type:	Please select ▼
Branch:	Please select ▼	Billor Code:	<input type="text"/>
Beneficiary Bank:	Please select ▼		
Pay By:	Please select ▼		
MEPS Status:	Please select ▼		
Phoenix Transaction Status:	Please select ▼		
Window:	Please select ▼		

Figure 28: IBG Originating Transaction Enquiry

5.1.2 IBG Receiving Transaction Enquiry

IBG Receiving Transaction Enquiry

IBG Transaction No:	<input type="text"/>	To:	<input type="text"/>
IBG Transaction From:	<input type="text"/>	To:	<input type="text"/>
Effective Date From:	<input type="text"/>	To:	<input type="text"/>
Settlement Date From:	<input type="text"/>	To:	<input type="text"/>
Amount From:	<input type="text"/>	To:	<input type="text"/>
Batch No.:	<input type="text"/>		
Originating FI Name:	<input type="text"/>		
Beneficiary Account No:	<input type="text"/>		
Beneficiary Name:	<input type="text"/>		
Window:	Please select ▼	Billor Code:	<input type="text"/>
Type:	Please select ▼		<input type="button" value="Search"/>

Figure 29: IBG Originating Transaction Enquiry

5.2 Enhancement on CORUS Report

There will be additional field to add inside reports under:-

- 1) Daily IBG Core Engine Report
- 2) Daily Transaction Consolidate Report
- 3) Monthly Transaction Consolidated Report

SECTION D: IBG CORE

6 IBG Core System Solution for NBPS

6.1 Enhancement on IBG Core

The NBPS Transaction is embedded into the existing IBG Core system and processes. There are no changes on the OFI and RFI flows and processes. Impacted module is the NACHA file generator and the Webservice parameters.

Please refer to our [Technical Document](#) for the technical details of the changes.