
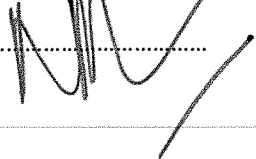


REQUESTOR DETAIL

Requested by : Chooi So Fun

Signature: 

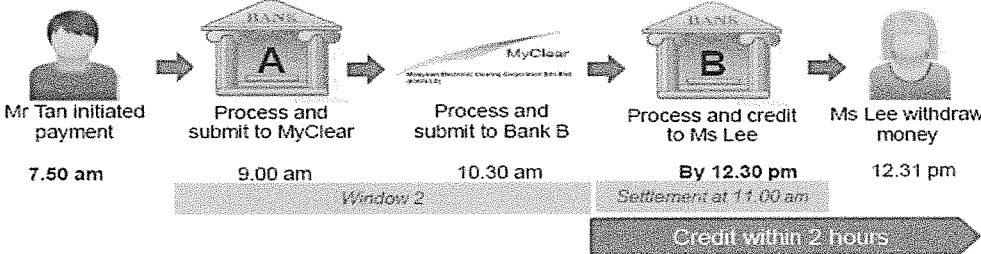
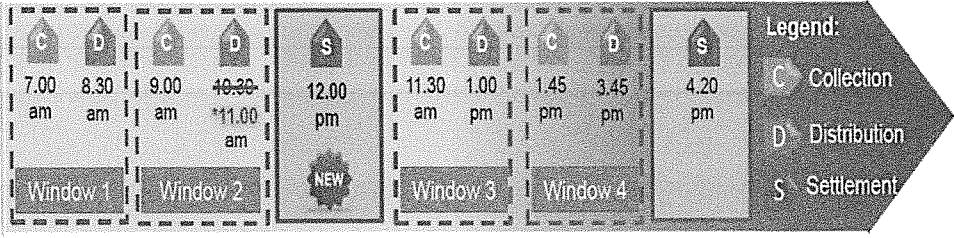
Reviewed by : Malarvili Muniandy

Signature: 

Department : Alternate Channels, RCB

Date Request : 25 July 2013

Request Description 1 – IBG Multiple Settlement

No	Item	Description
1	Objective/ General Overview	<p>The main initiative to implement multiple settlements is due to increasing high volume transactions and value which exposed to high credit risk to the industries.</p> <p>The objectives are to:</p> <ul style="list-style-type: none"> a) Reduce credit risk to participating banks; b) Mitigate insufficient fund during settlement time as the funds are split into smaller amounts; and c) Facilitate faster crediting of funds to participating banks i.e. to provide funds available within 2 hours of clearing for deposits accounts. 
2	Enhancement	<ul style="list-style-type: none"> a) To add additional new settlement window time at 12:00pm. b) To add additional new RFI Crediting process at 12.15pm. c) To retrieve 2 settlement reports for windows 1 and 2 at 11:00am and window 3 and 4 at 3:45pm respectively: <ul style="list-style-type: none"> - Settlement Report (Details) - Net Settlement Report (Summary) d) Posting of Settlement to be at 12:00pm and 4:15pm and make fund ready by 11:30am and 4:10pm respectively. 
		<ul style="list-style-type: none"> e) Ensure the IBG Console is able to handle the additional crediting functions and multiple settlement process (i.e. contingency process).

3	Proposed Process Flow	<p><u>Settlement for Window 1 and Window 2:</u> 11:00am – Retrieve Settlement Reports for W1 and W2 11:30am – Make fund ready for W1 and W2 12:00am – Posting of Settlement for W1 and W2 12.15pm – RFI Crediting for W1 and W2</p> <p><u>Settlement for Window 3 and Window 4:</u> 3.45pm – Retrieve Settlement Reports for W3 and W4 4:15pm – Make fund ready for W3 and W4 4.20pm – Posting of Settlement for W3 and W4 4.30pm – RFI Crediting for W3 and W4</p> <p>Note: <i>The revised schedule time for the existing tasks need to be maintained at PaySwitch[®] Client and CORUS to support multiple settlement process.</i></p>																											
4	Reports_	<p>Banks to retrieve settlement report as follows:</p> <table border="1" data-bbox="483 656 1485 992"> <thead> <tr> <th rowspan="2">Reports</th> <th colspan="2">Report Name</th> <th rowspan="2">Timing</th> <th rowspan="2">Location</th> </tr> <tr> <th>File Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Settlement Report (Details)</td> <td>W2</td> <td>prsmdd0900.txt</td> <td>Settlement report details of window 1 & 2</td> <td>11.00 am</td> <td rowspan="2">PaySwitch Server</td> </tr> <tr> <td>W4</td> <td>prsmdd1400.txt</td> <td>Settlement report details of window 3 & 4</td> <td>3.45 pm</td> </tr> <tr> <td rowspan="2">Net Settlement Report (Summary)</td> <td>W2</td> <td>pnsmd0900.txt</td> <td>Net Settlement report of window 1 & 2</td> <td>11.00 am</td> <td rowspan="2">MyClear FI Report Server</td> </tr> <tr> <td>W4</td> <td>pnsmd1400.txt</td> <td>Net Settlement report of window 3 & 4</td> <td>3.45 pm</td> </tr> </tbody> </table>	Reports	Report Name		Timing	Location	File Name	Description	Settlement Report (Details)	W2	prsmdd0900.txt	Settlement report details of window 1 & 2	11.00 am	PaySwitch Server	W4	prsmdd1400.txt	Settlement report details of window 3 & 4	3.45 pm	Net Settlement Report (Summary)	W2	pnsmd0900.txt	Net Settlement report of window 1 & 2	11.00 am	MyClear FI Report Server	W4	pnsmd1400.txt	Net Settlement report of window 3 & 4	3.45 pm
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5	Audit Trails	As per current handling.																											
6	Exceptional Handling	The changes on processes for supporting multiple settlement function should apply to IBG Console as well (i.e. contingency process).																											
7	Timeline	Live in Q4 2013																											
8	Reference Document	MyClear IBG Operating Rules Version 1.14 MyClear IBG Operating Manual Interbank Giro (IBG) System Version 2.6 MyClear Interbank Giro (IBG) System Message Format Version 2.8																											

Request Description 2 – IBG Standard ID Format and 2nd ID Validation

No	Item	Description
1	Objective / General Overview	<p>Currently, 2nd validation rejections are commonly due to IDs format mismatch for processing code "5" and segment code "3".</p> <p>For example: OFI supplies ID in "as is" format (20506-K), but RFI validates the value in different format (20506K) which causes the rejection.</p> <p>Therefore, the objective of this enhancement is to reduce the 2nd Validation rejection due to IDs format mismatch even though correct IDs have been provided. With this, OFI is responsible to send ID according to the Standard ID Format and RFI needs to ensure the ID retrieved from internal data is according to the Standard ID Format during the ID validation.</p> <p>Furthermore, in 2nd Validation transaction to allow sender to provide more than one ID (New IC, Old IC Number, Business Registration Number, Army ID/Police ID/Passport ID).</p>

2	Enhancement	Message Format																																																																																													
		<p>a) To follow the ID Formatting Specifications as per below:</p> <table border="1"> <thead> <tr> <th>No.</th> <th>New IC Number</th> <th>Old IC Number</th> <th>Business Registration Number</th> <th>Army ID/ Police ID/ Passport Number</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Numeric. Example: 751215105978</td> <td>Alphanumeric. Example: A123456, 7654321</td> <td>Alphanumeric. Example: 43456K</td> <td>Alphanumeric. Example: T48574</td> </tr> <tr> <td>2.</td> <td>Length must be 12 digits</td> <td>Maximum length is 8 chars</td> <td>Maximum length is 20 chars</td> <td>Maximum length is 20 chars</td> </tr> <tr> <td>3.</td> <td>Right justified Example: → 571110102334</td> <td></td> <td colspan="2">Left justified Example Business Registration No: 999999X ←</td> </tr> <tr> <td>4.</td> <td>-</td> <td colspan="3">No trailing zero(s)</td> </tr> <tr> <td>5.</td> <td colspan="4">No space, hyphen and special characters are allowed except 0-9, A-Z, a-z</td> </tr> </tbody> </table> <p>Note: Reformatting of IDs is allowed to the extent that it shall not change the value of the ID. For example:</p> <ul style="list-style-type: none"> ➤ Reformatting 1000 to 100 changes the value, thus is not allowed ➤ Reformatting A123 to 123 changes the value, thus is not allowed ➤ Reformatting 0100 to 100 does not change the value, thus is allowed ➤ Reformatting a123 to A123 does not change the value, thus is allowed <p>b) Any IDs with numeric is to be right justified and IDs with alphanumeric is to be left justified.</p> <p>c) Only alphabets a-z, A-Z, or numeric 0-9 or combination of the said alphabets and numeric are the valid values of an ID. Any other characters, especially special characters such as *, &, -, #, @, %, etc are not to be included in the ID.</p> <p>d) No leading or Trailing Zero(s): For IDs that are shorter than the maximum field length, must ensure the end of IDs is blank instead of using values to fill up the remaining characters i.e. using trailing zeros.</p> <p>Example: Actual Passport number: A268888888</p> <table border="1"> <thead> <tr> <th>Field Length (20 charc)</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>Invalid Format</td> <td>A</td> <td>2</td> <td>6</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Valid Format</td> <td>A</td> <td>2</td> <td>6</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">End of IDs should be blanks (spaces)</p>	No.	New IC Number	Old IC Number	Business Registration Number	Army ID/ Police ID/ Passport Number	1.	Numeric. Example: 751215105978	Alphanumeric. Example: A123456, 7654321	Alphanumeric. Example: 43456K	Alphanumeric. Example: T48574	2.	Length must be 12 digits	Maximum length is 8 chars	Maximum length is 20 chars	Maximum length is 20 chars	3.	Right justified Example: → 571110102334		Left justified Example Business Registration No: 999999X ←		4.	-	No trailing zero(s)			5.	No space, hyphen and special characters are allowed except 0-9, A-Z, a-z				Field Length (20 charc)	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	Invalid Format	A	2	6	8	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0	Valid Format	A	2	6	8	8	8	8	8	8	8										
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Valid Format	A	2	6	8	8	8	8	8	8	8																																																																																					

OFI - Input Screen (KFHOnline, CMS, Mobile Banking and GFS)

a) At front-end, to allow sender to provide/select more than one ID (New IC, Old IC Number, Business Registration Number, Army ID/Police ID/Passport ID) in 2nd Validation transaction and validate the IDs according to the standard format specification.

Sample Input Screen for 2nd ID Validation:

Check Box Option:
Enable 2nd Validation option when user selected this option.

Input Fields

a) Enable the input field when the respective ID is selected by the user else dim the fields.

b) Validate the input format according to the respective type i.e. max length, 0-9, A-Z, a-z

Enable Beneficiary ID Verification by Beneficiary Bank

<input checked="" type="checkbox"/> New IC Number	<input type="text" value="800102034567"/>
<input type="checkbox"/> Old IC Number	<input type="text"/>
<input type="checkbox"/> Business Registration Number	<input type="text"/>
<input type="checkbox"/> Army ID / Police ID / Passport Number	<input type="text"/>

b) To restrict user from entering special characters and ensure no space, hyphen, special characters are allowed for the ID fields and to send ID according to the Standard ID Format.

c) At front-end, to prompt error message if invalid ID format is provided.

Sample error message as per below:

- Beneficiary ID is required.
- Invalid New IC Number. It should contain 12 numeric values only.
- Invalid New Old IC Number. It should not contain more than 8 numeric/alphabetic characters.
- Invalid Business Registration Number. It should contain numeric/alphabetic characters.
- Invalid Beneficiary ID. It should not more than 20 numeric/alphabetic characters.

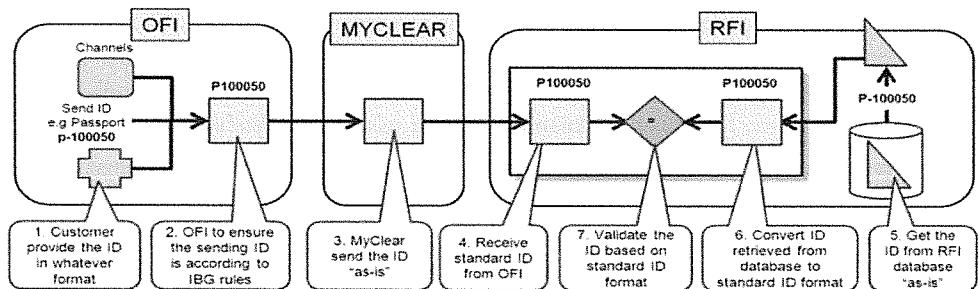
RFI

a) To convert ID retrieved from database according to Standard ID format before matching or perform validation.

b) Must validate according to the standard ID format and to reject if the ID value does not match.

c) RFI is to check the ID validation at primary and secondary account holder level.

3 Proposed Process Flow



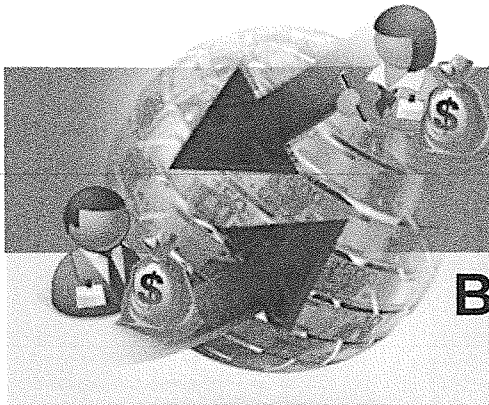
4 Reports

To reflect the beneficiary's ID according to the standard ID format in all the reports/enquiry screen (Corus and BVMC).

5 Audit Trails

As per current handling.

6	Back-end processes / enhancements	<p>a) As RFI, able to convert internal data according to the standard ID format during the ID validation and to reject if the ID value does not match.</p> <p>b) The matching rules are as per MyClear's validation rules and if the data value is not matched RFI is to reject/return the transactions to the OFI. All checking is at primary and secondary account holder level.</p> <p>c) As OFI, able to provide more than one IDs and validate the IDs format before send to MyClear.</p>
7	Exceptional Handling	As per current handling
8	Timeline	Live in Q4 2013
9	Document Reference	<p>MyClear IBG Operating Rules Version 1.14</p> <p>MyClear IBG Operating Manual Interbank Giro (IBG) System Version 2.6</p> <p>MyClear Interbank Giro (IBG) System Message Format Version 2.8</p>



Service Enhancement
IBG Multiple Settlement

**Business User Requirements and
 Functional Specifications**

Version 1.3

13 Jun 2013

BUR/FS Revision History

Version No.	Date	Summary of Change
1.0	15 Oct 2012 (3 rd IBG Project Meeting)	IBG Multiple Settlement Initiation
1.1	25 Feb 2013 (1 st IBG Project Meeting)	Business User Requirement & Functional Specifications draft presentation
1.2	05 Mar 2013 (Email to banks with readiness survey)	<ul style="list-style-type: none"> Revised report name for W2 and W4 at slide #5 Correction on report location from sFTP server to MyClear FI Report Server at slide #5-6. Changed MyClear's Helpdesk to MyClear's Call Centre at slide #6 Updated timeline for SIT and UAT at slide #7.
1.3	13 Jun 2013 (Email to banks)	<ul style="list-style-type: none"> Revised the new settlement time from 11.00 am to 12.00 pm due to updated new timing during Multiple Window implementation. Revised Window 2 distribution time from 10.30 am to 11.00 am. Added sample settlement reports in Appendix 1. Added Multiple Windows timeline as pre-requisite for Multiple Settlement implementation.

Introduction

Initiative

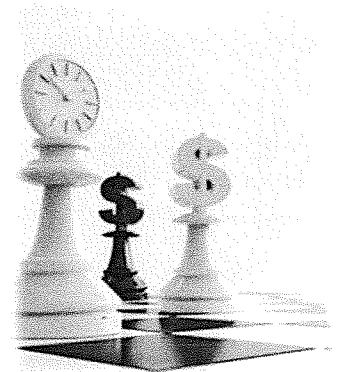
- To increase the frequency to two (2) settlements per day.

Purpose

- To reduce credit risk to participating banks.
- To mitigate insufficient fund during settlement time as the funds are split into smaller amounts

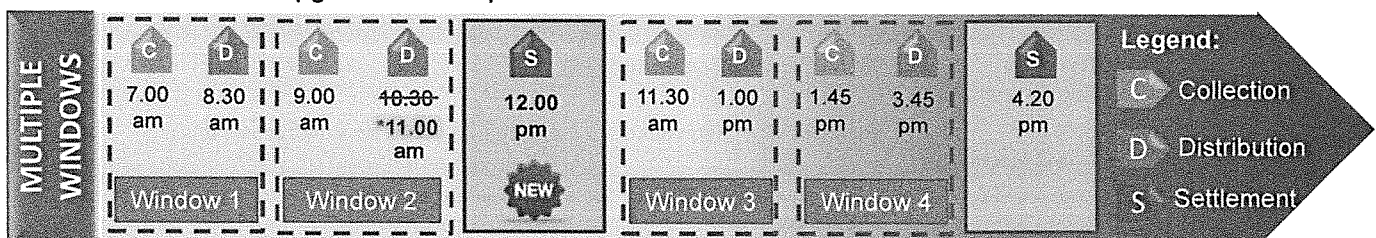
Benefits

- Facilitate faster crediting of funds to participating banks.



Multiple Settlement Timing

- All FIs to upgrade to Multiple Window



* The time change will be in line with Multiple Settlement implementation

1 The new additional settlement window time is at 12.00pm.

2 Posting for Settlement will be at 12.00 pm and 4.20 pm

- Banks need to make fund ready by 11.30 am and 4.15 pm respectively.
- All banks need to adhere to the settlement time.
- 1st settlement will not be combined with 2nd settlement in any condition.

	1 st Settlement	2 nd Settlement
Settlement Report	11.00 am	3.45 pm
Loading Time/ Fund Held Time <i>(Fund must be ready by)</i>	11.30 am	4.15 pm
Settlement/Posting Time	12.00 pm	4.20 pm

Reports Availability

1 Banks to retrieve 2 settlement reports for each settlement window:

- Settlement Report (Details)
- Net Settlement Report (Summary)

Reports	Report Name		Timing	Location	
	File Name	Description			
Settlement Report (Details)	W2	prsmdd0900.txt	Settlement report details of window 1 & 2	11.00 am	PaySwitch Server
	W4	prsmdd1400.txt	Settlement report details of window 3 & 4	3.45 pm	
Net Settlement Report (Summary)	W2	pnsmd0900.txt	Net Settlement report of window 1 & 2	11.00 am	MyClear FI Report Server
	W4	pnsmd1400.txt	Net Settlement report of window 3 & 4	3.45 pm	

Refer to Appendix 1 for sample of reports

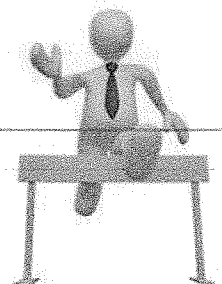
Responsibilities

Banks Responsibilities

- To update internal Standard Operating Procedure (SOP) if applicable.
- To retrieve 2 reports for each settlement
 - Net Settlement Report (Summary)
 - Settlement Report Details
- To identify the right person/ department to receive the settlement reports.
- To ensure fund availability before settlement time at 12.00 pm and 4.20 pm
- Any dispute on the settlement amount shall be reported to MyClear's Call Centre.

MyClear Responsibilities

- To update IBG Operational Procedure.
- To make available 2 settlement windows for IBG in RENTAS.
- To make available the Settlement Reports in PaySwitch Server and MyClear FI Report Server.



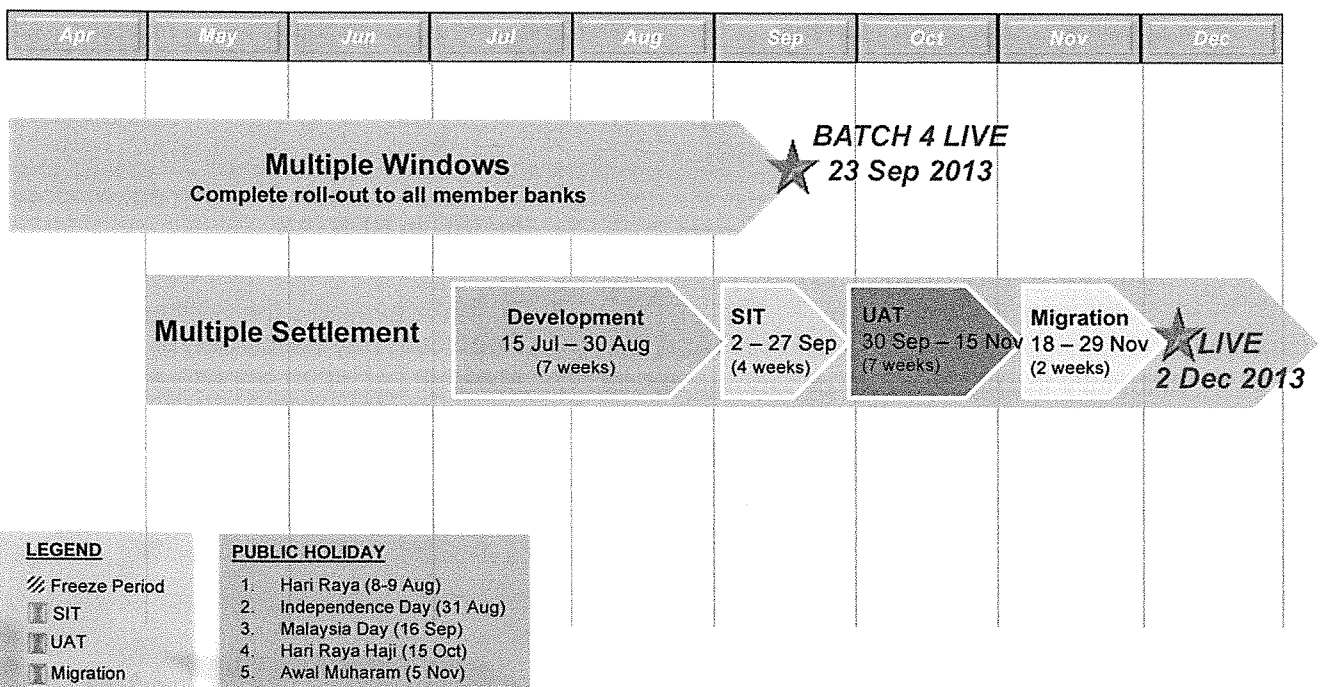
Contingency Procedure (Net Settlement Report)

- In the event that FI having network connectivity problem to retrieve Net Settlement Report from the MyClear FI Report Server, the report will be emailed to the FI. FI is to:
 1. FI Authorised Personnel (as per in the Contingency Procedure List) to contact MyClear Operation/ Call Center (Helpdesk) as soon as possible via phone followed by email providing the following:

- With Subject: "Request for Net Settlement Report for Window x, DD MM YYYY (<Bank Name>)"
 - Example: "Request for Net Settlement Report for Window 2, 19 Dec 2012 (Bank of India)"
 - Reason of the Request
 2. MyClear to reply the email to FI Authorised Personnels the softcopy of the Net Settlement Report required.
 3. FI Authorised Personnel to acknowledge receipt by replying to the email.

- If FI having email network problem as well, the report will be faxed to the FI. FI is to:
 1. FI Authorised Personnel (as per in the Contingency Procedure List) to contact MyClear Operation/ Call Center (Helpdesk) as soon as possible via phone.
 2. MyClear to fax the Net Settlement Report required to FI Authorised Personnels using the fax number in the Authorised Signatories List for Contingency Procedure.

Multiple Settlement Timeline



Thank You!

[Handwritten signature]

Appendix 1 – Report Sample

```

R3229-02
MALAYSIAN ELECTRONIC CLEARING CORPORATION SBN BHD
C O A - 5 1 4 2 1 2 2 4 5 4 5
INTERBANK GIRO SETTLEMENT REPORT
27-05-2013
  
```

INSTITUTION ID	INSTITUTION NAME	SETTLEMENT CREDIT	SETTLEMENT DEBIT	NET
ROYA 100002021	RBS BANK	77,777.73	0.00	77,777.73

IBG Settlement Report pnsmmdd0900.txt

```

R3120-02/R1.0 000021 REP* D I S T R I B U T E D   S E T T L E M E N T   D E T A I L   L I S T
<----- SETTLEMENT INSTITUTION NAME -----> <----- SETTLEMENT DA -----> FROM DATE/WINDOW 05-27-13 0930
T/A POINT APPL TYPE T/A BRANCH TO DATE/WINDOW 05-27-13 0930
010000202-1 RBS BANK SETT DAILYSETT MAWER 10000000-7 1111
  
```

SETTLEMENT ACCOUNT	SETTLE TYPE	POINT	APPL	TYPE	T/A	BRANCH	STATUS	*SETTLEMENT ACCT	CREDIT AMOUNT	DEBIT AMOUNT
1554010022	DIST - RBS	DISCR	111111	10000202-1	1111	REPORT		2121270002 0001	77,777.73	
	COLL - BXR	CREDIT	111111							.00
*** ACCOUNT TOTALS ***									77,777.73	.00
*** SETTLE DA TOTALS ***									77,777.73	.00
*** SETTLE INSTITUTION TOTALS ***									77,777.73	.00
*** SETTLE INSTITUTION NET ***									77,777.73	

Sample of Distributed Settlement Detail List prsmdd0900.txt

Appendix 1 – Report Sample

```

R3210-02
MALAYSIAN ELECTRONIC CLEARING CORPORATION SIB BHD
C C A - 5 1 4 0 1 1 2 8 4 5 8 2
INTERBANK GIRO SETTLEMENT REPORT
05-06-2013

-----
INSTITUTION      INSTITUTION
ID  NAME/T/R     NAME
-----
RHS 100002186  RHS BANK BERHAD
CREDIT          DEBIT          NET
715.00          601,821.00      601,986.00
  
```

IBG Settlement Report pnsmmdd1400.txt

```

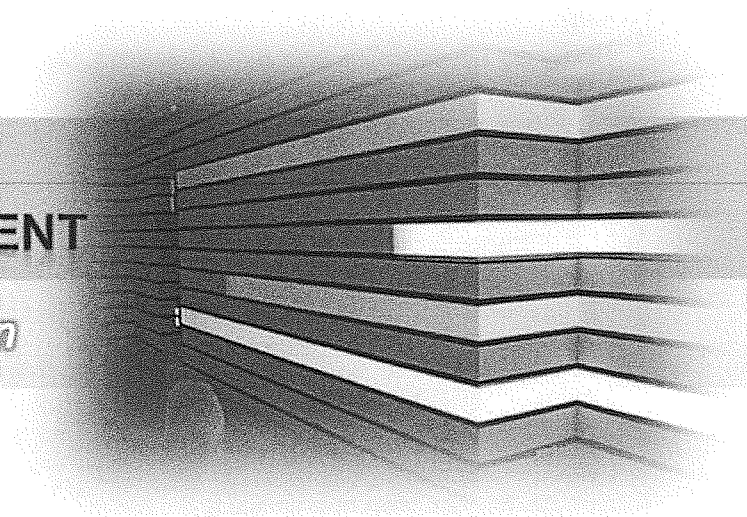
R3110-02/R1.0 002186 REP+ DISTRIBUTED SETTLEMENT DETAIL LIST
06-05-13 17:12 PAGE 1
-----
T/R      SETTLEMENT INSTITUTION      <-----> SETTLEMENT DA <----->
010002186-RHS  NAME      POINT  APPL  TYPE  T/R  BRANCH  FROM DATE/WINDOW 06-05-13 1430
BANK SETT DAILYSETT SERVER 100002186-T  TO DATE/WINDOW 06-05-13 1430
-----
SETTLEMENT  SETTLE <-----> SETTLEMENT WITH / FOR <-----> SETTLE  COLL FILE/BATCH  CREDIT  DEBIT
ACCOUNT  TYPE  POINT  APPL  TYPE  T/R  BRANCH  STATUS  *SETTLEMENT ACCT  AMOUNT  AMOUNT
-----
00000000000  COLL - RHS  CREDIT  10000207-E  REPORT  2013160000 0001  .00  601,821.00
DIET - RHS  DEBIT  ***** - SETTLE WITH TOTALS  .00  601,821.00
*** ACCOUNT TOTALS ***  .00  601,821.00
1854010000  DIST - RHS  RETURNS  10000218-E  REPORT  2013160000 0002  715.00  .00
COLL - RHS  CREDIT  ***** - SETTLE WITH TOTALS  715.00  .00
*** ACCOUNT TOTALS ***  715.00  .00
*** SETTLE DA TOTALS ***  715.00  601,821.00
*** SETTLE INSTITUTION TOTALS ***  715.00  601,821.00
*** SETTLE INSTITUTION NET ***  601,986.00
  
```

Sample of Distributed Settlement Detail List prsmdd1400.txt

2ND VALIDATION RULES ENHANCEMENT

ID Format Standardization

Version 2.0



2nd Validation Rules Enhancement

Objective

- To deliberate on the following proposals
 - Rules enhancement; and
 - Implementation timeline.

Exit of the Meeting

- Project team comprises of BWG and TWG to agree on the proposal and to set stage for next course of action.
 - MyClear will formalize and add the detail requirements/ specifications in IBG documents; and
 - MyClear will distribute to member banks for review.

Background

Recap

- During the BWG Meeting held on 19 July 2012, MyClear had tabled the following proposal to address the high 2nd validation rejection:
 - Redefine specifications
 - Rules enhancement

1

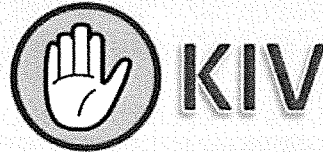
Redefine Specification

Proposed

- a) **Remove Old IC Number**
To remove old IC number as part of 2nd validation IDs.
- b) **Joint Account**
IDs for joint account is limited to primary and secondary joint account holders only.
- c) **Army/ Police ID**
To remove Army/ Police ID as part of 2nd validation IDs.

Resolution

However, the proposal to redefine specifications was put on hold, and all to re-assess the specifications and dependency on initiative taken by BNM i.e. ALIS projects.



3

Background

Recap (Cont')

2

Rules Enhancement

- **Standard ID Format**

#	New IC Number	Old IC Number	Business Registration Number	Army ID/ Police ID/ Passport Number
1.	Numeric. Example: 751215105978	Alphanumeric. Example: A123456, 7654321	Alphanumeric. Example: 43456K	Alphanumeric. Example: T48574
2.	Length: 12 digits	Length: 8 chars	Length: 20 chars	Length: 20 chars
3.	Right justified	Left justified		
4.	-	Include trailing spaces		
5.		All alphabets are to be capitalized		
6.	No space, hyphen, special characters allowed. Example: @ / _ # ~			

- On 3 Aug 2012, MyClear had emailed to member banks to provide feedback on the above Rules.

4

Feedback & Outcome

Feedback from Banks

- Based from the feedbacks received:
 - 19 out of 28 banks have responded.
 - MyClear has included Old IC Number in the ID format table *(initially proposed to be removed)*.
- Outcome of the feedback are as follows:
 - 18% of responded banks have indicated their compliance on the ID format specifications.
 - For banks that are yet to comply are required to do enhancement and follow the ID format standardization.
- Concern from some banks on the following
 - **Item #4:** No trailing zero(s) as a method to fill up the field. Please refer to sample below.

Field Length (20 chars)	3 rd Addenda																			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Passport No. ❌	A	2	6	8	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0
Passport No. ✅	A	2	6	8	8	8	8	8	8	8										

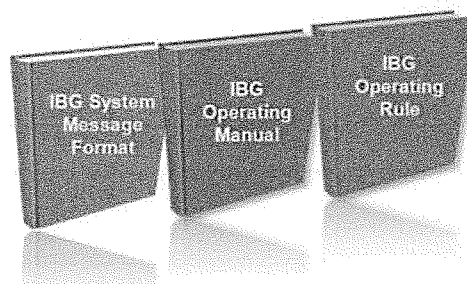
End of IDs should be blanks (spaces)

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Next Action

Moving Forward

- MyClear will incorporate the ID format standardization in the next release of IBG Documents (Operating Manual, Operating Rules and Message Format).
- The documents will be distributed to members for review and acceptance.
 - Banks to feedback within 2 weeks after the distribution date, else it will deemed as accepted.

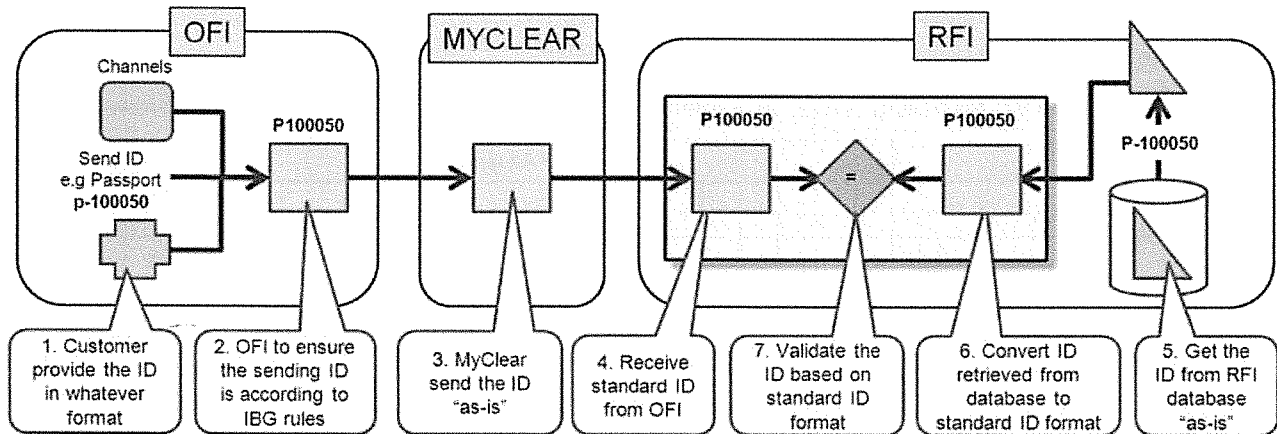


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Implementation

Proposal Scope

- What OFI need to do
 - Follow the standard ID format when sending transactions to MyClear / RFIs.
- What RFI need to do
 - Convert ID retrieved from database according to standard ID format, before matching.



Proposed Timeline

Proposed Implementation Timeline

- OFIs and RFIs are given time to implement with 2nd Validation ID format specification according to the guideline within 1 year, and to complete by June 2013.