

# NBB-SSS Testing Guide

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# Agenda

- ▶ 1. Introduction
- ▶ 2. Preliminary conditions
- ▶ 3. Certification
- ▶ 4. Timing
- ▶ 5. Test cases
- ▶ 6. Test calendar
- ▶ 7. Forms C02, T01, T02
- ▶ 8. Other Swift Messages



# 1. Introduction (1)

- ▶ NBB-SSS = National Bank of Belgium Securities Settlement System
  - Connection to TARGET2
    - Through ASI (Ancillary System Interface)
      - ◆ Test environment : 13 Oct 2008
      - ◆ Go live : 8 Dec 2008
      - ◆ Models used : 1, 3 and 6
    - Liquidity transfers only authorised between TARGET2 and NBB-SSS
  - Who is concerned ? All NBB-SSS participants settling on its own current account (= Settlement bank)
  - Not all settlement banks are T2 direct participant



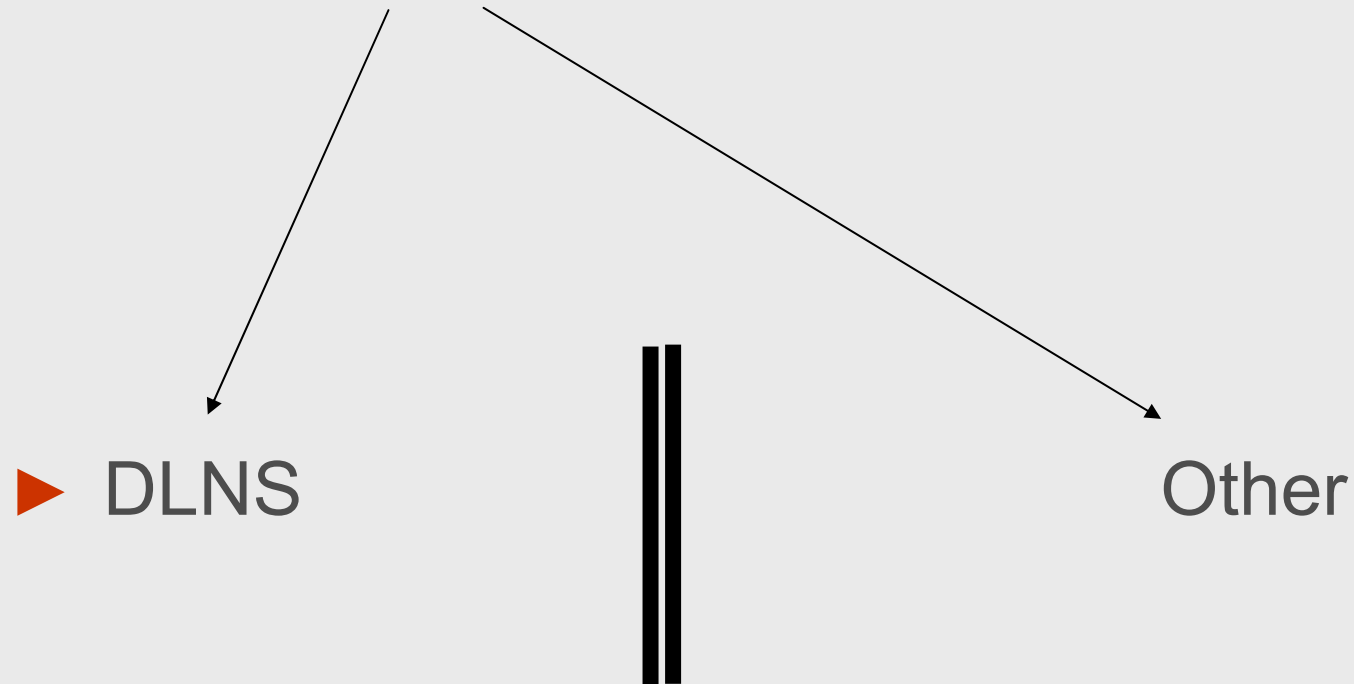
# 1. Introduction (2)

- ▶ No new current account
- ▶ "Current" current accounts are used for settlement of cash leg of DVP operations
- ▶ What's new ???
- ▶ One current account... Two "pots of liquidity"
  - Current "pot of liquidity" for all NBB operations except DVP operations
  - DLNS "pot of liquidity" exclusively for DVP operations (DLNS = Dedicated liquidity for NBB-SSS)
  - No direct link between the 2 "pots of liquidity"



# 1. Introduction (3)

▶ 100-0075123-12 ("current" current account)



## 2. Preliminary conditions

### ▶ Forms

- SB04 : communication of the T2 correspondent (settlement bank agent)
- 2002 debit mandate for AS settlement : registration in the static data of SSP
- (C02 : contact persons for smoothness of testing activities)
- Bilateral contact concerning the missing forms



# 3. Certification

- ▶ Concerns every settlement bank
- ▶ All test cases AR (active role) successful
- ▶ By email to project manager Nov 21st, 2008
- ▶ Sesame for the go live (with 2002 prod)



# 4. Timing (1)

Scenario for testing activities in 'normal' mode :

timing	action	test case
9h00	opening of NBB-SSS	
9h00 - 10h00	liquidity transfer from PM to NBB-SSS via MT202	LQ101-AR NT301-PR
10h00 - 11h00	liquidity transfer from PM to NBB-SSS via ICM	LQ102-AR NT301-PR
11h00 - 12h00	DVP operations	
12h00 - 13h00	liquidity transfer from NBB-SSS to PM via MT202	LQ201-AR NT302-PR LQ203-PR
13h00	closing of NBB-SSS	
13h15	transfer of DLNS balances	NT302-PR
13h30	end of the test day	

The closing of NBB-SSS at 13h00 is subject to possible delay of the previous test cases.



## 4. Timing (2)

Scenario for testing activities in 'contingency' mode :

timing	action	test case
9h00	opening of NBB-SSS	
9h00 - 11h00	liquidity transfer from PM to NBB-SSS via contingency (form T01)	LQ103-AR NT301-PR
11h00 - 12h00	DVP operations	
12h00 - 13h00	liquidity transfer from NBB-SSS to PM via contingency (form T02)	LQ202-AR LQ203-PR
13h00	closing NBB-SSS	
13h15	transfer of DLNS balances	NT302-PR
13h30	end of the test day	

The closing of NBB-SSS at 13h00 is subject to possible delay of the previous test cases.



# 5. Test cases (1)

!!! Be carefull with field 20 and 21 !!!

- ▶ Liquidity transfer from T2
  - MT202 (LQ101-AR and NT301-PR)
  - ICM (LQ102-AR and NT301-PR)
  - Contingency (LQ103-AR and NT301-PR)
  
- ▶ Liquidity transfer to T2
  - MT202 (LQ201-AR and NT302-PR and LQ203-PR)
  - Contingency (LQ202-AR and NT302-PR and LQ203-PR)
  - EOD (NT303-PR) - NEW !!!
  - Reversal (LQ204-PR) - NEW !!!



# 5. Test cases (2)

## 5.1. Liquidity transfer from T2 to NBB-SSS

### ▶ LQ101-AR (MT202)

- *Instruction from **NON T2 DIR PART** to its **T2 DIR PART** (settlement bank agent) by fax, Swift...*
- **T2 DIR PART** sent MT202 to SSP
  - receiver : TRGTXEP0ASI
  - Tag 103 : TGT and tag 113 : HNNN or HYNN
  - 52A : empty or **BIC NON T2 DIR PART**
  - 57A : NBBEBEB0MAC
  - 58A : BIC of NBB-SSS settlement bank



# 5. Test cases (3)

## 5.1. Liquidity transfer from T2 to NBB-SSS

- ▶ LQ101-AR (MT202)
  - Accounting on SSP
    - Debit : RTGS account of the T2 DIR PART
    - Credit : Mirror account NBBEBEB0MAC
  - XML from SSP to NBB-SSS (for your info)
    - Through ASI
    - ASTransferNotice
    - Debtor : empty or BIC NON T2 DIR PART
    - First agent : BIC T2 DIR PART
    - Creditor : BIC of NBB-SSS settlement bank
    - Final agent : NBBEBEB0MAC



# 5. Test cases (4)

## 5.1. Liquidity transfer from T2 to NBB-SSS

### ▶ LQ101-AR (MT202)

- Accounting on NBB-SSS

- Debit : technical account NBBEBEB0MAC
- Credit : current account of NBB-SSS settlement bank (pot of liquidity DLNS)

### ▶ NT301-PR (MT910)

- Advice of credit (after crediting the DLNS)

- Sender : NBBEBEB0216
- Receiver : NBB-SSS settlement bank
- Field 20 : NBB-SSS reference
- Field 21 : field 20 of MT202
- Field 52A : NBB-SSS settlement bank
- Field 72 : /REC/NLIC



# 5. Test cases (5)

## 5.1. Liquidity transfer from T2 to NBB-SSS

### ▶ LQ102-AR (ICM)

- Instruction in ICM
- Only for T2 DIR PART
  - Menu RTGS
  - Sub menu Ancillary Systems
  - Sub sub menu Liquidity
  - Sub sub sub menu Liquidity transfer mirror account

RTGS : Ancillary Systems : Liquidity : Liquidity Transfer Mirror Account : **Select Mirror Account**

Mirror Account BIC ◇	Related Ancillary System ◇
<input checked="" type="radio"/> NBBEBEB0MAC	NBB - SSS

◀ ◀ Page 1 of 1 ▶ ▶ Entries 1 – 1 of 1

Liquidity Transfer

# 5. Test cases (6)

## 5.1. Liquidity transfer from T2 to NBB-SSS

### ▶ LQ102-AR (ICM)

RTGS : Liquidity : Enter Liquidity Transfer to Mirror Account User: gg1 Last Update

RTGS Account (Debit Account)		Mirror Account (Credit Account)	
Participant BIC	NBBEBEB05P2	Mirror Account BIC	NBBEBEB0MAC
Participant Name	NBB Testing	Related Ancillary System	NBB - SSS
Available Liquidity (EUR)	29,953,264.56		

SWIFT Field 52	SWIFT Field 58 (BIC)	SWIFT Field 58 (Account Number)	SWIFT Field 72	Transfer (EUR)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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NBB-SSS settlement bank (NON T2 DIR PART)

Amount



# 5. Test cases (7)

## 5.1. Liquidity transfer from T2 to NBB-SSS

### ▶ LQ102-AR (ICM)

- Accounting on SSP
  - Debit : RTGS account of the **T2 DIR PART**
  - Credit : Mirror account NBBEBEB0MAC
- XML from SSP to NBB-SSS
  - Idem LQ101-AR
- Accounting on NBB-SSS
  - Idem LQ101-AR
- NT301-PR
  - Idem LQ101-AR
  - Except field 21 : XML reference



# 5. Test cases (8)

## 5.1. Liquidity transfer from T2 to NBB-SSS

### ▶ LQ103-AR (contingency)

- T2 DIR PART is not able to send a MT202 and to connect to ICM
- Procedure in place for Belgian T2 DIR PART
- Fax to BNB +32 2 221 50 00 (form T01)

Sender your BIC 11		← BIC addressee T2 DIR PART
Receiver BIC 11	TRGTXEP0ASI	
tag 103	TGT	
tag 113	HNNN	
field 32A date		(yymmdd)
field 32A currency and amount	EUR	
field 52A BIC 11 of ordering institution		← May be empty
field 57A	NBBEBEB0MAC	
field 58A BIC 11 of the NBB-SSS SB		← Mandatory
field 72 (optionel)		



# 5. Test cases (9)

## 5.1. Liquidity transfer from T2 to NBB-SSS

- ▶ LQ103-AR (contingency)
  - Template = MT202 but
  - NBB works in ICM "on behalf of... "
  - => accounting on SSP on basis of intro in ICM
    - Debit : RTGS account of the **T2 DIR PART**
    - Credit : Mirror account NBBEBEB0MAC
  - XML from SSP to NBB-SSS
    - Idem LQ101-AR
  - Accounting on NBB-SSS
    - Idem LQ101-AR
  - NT301-PR
    - Idem LQ101-AR
    - Except field 21: **XML reference**



# 5. Test cases (10)

## 5.2. Liquidity transfer from NBB-SSS to T2

### ▶ LQ201-AR (MT202)

- MT202 sent by NBB-SSS settlement bank to NBB-SSS
  - Receiver : NBBEBEB0216
  - Tag 103 and tag 113 : empty
  - Field 52A : empty or NBB-SSS settlement bank
  - Field 57A : NBBEBEB0MAC
  - Field 58A : NBB-SSS settlement bank
  - Field 72 : empty



# 5. Test cases (11)

## 5.2. Liquidity transfer from NBB-SSS to T2

### ▶ LQ201-AR (MT202)

- Accounting on NBB-SSS
  - Debit : current account of NBB-SSS settlement bank (pot of liquidity DLNS)
  - Credit : technical account NBBEBEB0MAC
- XML from NBB-SSS to SSP (for your info)
  - Through ASI
  - ASTransfeInitiation
  - Debtor : empty
  - First agent : NBBEBEB0MAC
  - Creditor : BIC NBB-SSS settlement bank
  - Final agent : BIC T2 DIR PART



# 5. Test cases (12)

## 5.2. Liquidity transfer from NBB-SSS to T2

### ▶ LQ201-AR (MT202)

- NT302-PR

- Advice of debit

- ◆ After debiting the DLNS
- ◆ Sender : NBBEBEB0216
- ◆ Receiver : NBB-SSS settlement bank
- ◆ Field 20 : NBB-SSS reference
- ◆ Field 21 : field 20 of the MT202
- ◆ Field 52A : NBB-SSS settlement bank
- ◆ Field 72 : /REC/NLIC

- Accounting on SSP

- Debit : Mirror account NBBEBEB0MAC
- Credit : RTGS account of the **T2 DIR PART**



# 5. Test cases (13)

## 5.2. Liquidity transfer from NBB-SSS to T2

### ▶ LQ201-AR (MT202)

#### ● LQ203-PR (MT202)

- After accounting on SSP
- Sender : TRGTXEP0ASI
- Receiver : BIC T2 DIR PART
- Tag 103 : TGT and tag 113 : empty
- Field 21 : field 20 of MT202
- Field 52A : BIC NBB-SSS settlement bank
- Field 58A : BIC NBB-SSS settlement bank



# 5. Test cases (14)

## 5.2. Liquidity transfer from NBB-SSS to T2

### ▶ LQ202-AR (contingency)

- The NBB-SSS settlement bank is not able to send a MT202
- Procedure in place for all the NBB-SSS settlement banks (**T2 DIR PART** and **NON T2 DIR PART**)
- Fax to BNB +32 2 221 50 00 (form T02)

Sender BIC 11 of the NBB-SSS SB	
Receiver BIC 11	NBBEBEB0216
tag 103	---
tag 113	---
field 32A date	(yymmdd)
field 32A currency and amount	EUR
field 52A BIC 11 of ordering institution	
field 57A	NBBEBEB0MAC
field 58A BIC 11 of the NBB-SSS SB	
field 72 (optional)	

← May be empty



# 5. Test cases (15)

## 5.2. Liquidity transfer from NBB-SSS to T2

### ▶ LQ202-AR (contingency)

- Template = MT202 but
- NBB works in NBB-SSS "on behalf of... "
- => accounting on NBB-SSS on basis of manual intro
  - Debit : current account of NBB-SSS settlement bank (pot of liquidity DLNS)
  - Credit : technical account NBBEBEB0MAC
- XML from NBB-SSS to SSP
  - Idem LQ201-AR
- NT302-PR
  - Idem LQ201-AR



# 5. Test cases (16)

## 5.2. Liquidity transfer from NBB-SSS to T2

- ▶ LQ202-AR (contingency)
  - Accounting on SSP
    - Idem LQ201-AR
  - LQ203-PR (MT202)
    - Idem LQ201-AR



# 5. Test cases (17)

## 5.2. Liquidity transfer from NBB-SSS to T2

### ▶ End of Day (NT303-PR)

- After the closing of NBB-SSS
- Automatic, no input of the NBB-SSS settlement banks
- NT303-PR - NEW !!!
  - Advice of credit (never advice of debit)
  - Sender : TRGTXEP0ASI
  - Receiver : BIC T2 DIR PART
  - Field 20 : AS.....
  - Field 21 : BIC NBB-SSS settlement bank + EOD (example : BANKBEBBXXX+EOD)
  - Field 52A : NBBEBEB0216



# 6. Test calendar

## ▶ 5 weeks

- 3 weeks free testing
  - From 13-10-2008 to 31-10-2008
  - Free but... At least once LQ101-AR and LQ201-AR successfull
  - No DVP operations
- 1 week mandatory testing normal mode
  - From 03-11-2008 to 07-11-2008
  - NBB-SSS simulates DVP operations
- 1 week mandatory testing contingency mode
  - From 10-11-2008 to 14-11-2008
  - NBB-SSS simulates DVP operations
  - + backup normal mode



# 7. Forms C02, T01, T02

## ▶ C02

- When you plan to test
- Who NBB-SSS must contact

## ▶ T01

- Template fax for debiting T2 and crediting DLNS
- For BE T2 participants only
- NBB via ICM

## ▶ T02

- Template fax for debiting DLNS and crediting T2
- For all NBB-SSS settlement banks
- NBB via internal tool simulating MT202



# 8. Other Swift messages (1)

## ▶ MT910 from SSP

- NT303-PR
- After closing of NBB-SSS
  - Sender : TRGTXEP0ASI
  - Receiver : BIC11 settlement bank agent (T2 DIR PART)
  - Field 20 : AS.....
  - Field 21 : BIC11 of the NBB-SSS settlement bank followed by "+EOD"
  - Field 32A
  - Field 52A : NBBEBEB0216



## 8. Other Swift messages (2)

- ▶ MT202 from NBB-SSS reversal
  - NT204-PR
  - When ? After receiving MT202 unexecutable (because BANKBEBBXXX is not registered in NBB-SSS)
    - Sender : NBBEBEB0MAC
    - Receiver : sender of the MT202
    - Field 20 : field 21 of the MT202
    - Field 21 : BANKBEBBXXX+REV
    - Field 58 : BANKBEBBXXX

