

CCTT 23 January 2007

TPPN-OLTB-CXAG-Parser

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Agenda

- **Context**
- **What is ISO8583 ?**
- **Tests cases example**
- **Tool development**
- **Demo**
- **Benefits & pitfalls**

Context

- **Payment scheme testing**
 - > **Daily tests based on client applications**
 - **One Line To the Bank (OLTB)**
 - **Connection X25 AGence (CXAG)**
 - **File Update (FIUP)**
- **Customer acceptance team**
 - > **No CCA test tools available related to client business**
- **Project at the customer TPPN**
 - > **Transaction protocol for private network**
 - > **Pre-certification process**
 - > **Certification process to the customer**
 - > **Difficulty to validate certification**

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What is ISO8583?

- **Official ISO standards**
 - > **Financial transactions**
 - > **Messages exchange**
- **Client standards**
 - > **Debit online transactions**
 - > **ISO 8583 standards used for CXAG - FIUP – OLTB – TPPN messages**

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Test case example

CASH WITHDRAWAL

Cash withdrawal - 02 - 010 - check card - OK - ACQ Bank 1 - Card bank 2 - account in opposition and card is returned

Prerequisites :

- connection with the bank in TCP/IP
- set of card for the certification
- tandem is running
- the card used for this test is card n° 15
- RESET PURSE SUCCESSFULLY (T00=0000 in the reset purse response)

Description :

The goal of this test is to check the behavior of a cash withdrawal sent by Acquirer bank 1 for a card of Bank 2 when the card used is link with an account in opposition and card is returned

Test case example

Step Name	Description	Expected Result
Step 0	the account of the card bank 2 is put in opposition and card is returned	
Step 1	Perform a withdrawal for 120 Euros ACQ Bank 1 sent PNAU - function code 122 - Amount = 120	BKS reply with PNAU - P39 action code '100' - Incident code 47 On the ATM : the transaction is current on the ATM
Step 1 (check)	internal check	check screen PNOA : record of pre-logging no new record in the logging check screen HLMU : see transaction check screen LAC : see transaction
Step 2	ACQ Bank 1 sent PNAD - incident - function code 102 - Amount = 0 - incident code 47 - action code 100	BKS reply with PNAD On ATM : The withdrawal is not authorized The card is rejected by the ATM
Step 2 (check)	internal check	check screen PNOA : record of pre-logging new record in the logging check screen HLMU : see transaction check screen LAC : see transaction
Step 2b (check)	Internal CAT check	In the PNAD incident request:P56 = reference to PNAU FC 122 request
Step 3(check)	run alpha part and internal check	check plots check no abortcheck in FD&R

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Tool development

- **Specifications**

- > **Development based on the client specifications for CXAG – FIUP – OLTB – TPPN applications**
- > **VB6 language**

- **Versions**

- > **Version 1 :**

- **Parsing only one record**
- **Hard coded records controls**
- **Tool settings references hard coded**

- > **Version 2 :**

- **Parsing more than one record**
- **Parsing based on bitmap conversion**
- **Tool settings references maintenance with external flat files**

Tool development

> **Version 3 :**

- **Connection to the mainframe**
- **Tool general maintenance**
- **Test script maintenance with external flat files**
- **Conversion transaction traces from Integri**
- **Test script automation for validation of debet transactions sessions.**
- **Test result reporting**

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Benefits

- **Customer acceptance test team**
 - > **First CCA test tool available**
 - > **Useful for all client applications**
 - > **Direct analyse of records**
 - > **Quality of validation of records**
 - > **Easy maintenance**

Benefits

- **Project TPPN**
 - > **Certification process :**
 - Tests made to the customer (banks)
 - Connected to the mainframe
 - Direct test results on screen
 - Quality of validation
 - 1/4 Saving time!!!!
 - > **Reporting & management :**
 - Test results directly available for reporting
 - Easy test script management

Pitfalls

- **Customer acceptance team**
 - > **No VB6 development knowledge in team**
 - > **Interface not enough “user friendly”**
 - > **Knowledge of all client applications**
 - > **Maintenance needed for each mainframe release**
- **Project TPPN**
 - > **Analyse and maintenance needed for each mainframe release**