

The logo consists of a central circular emblem divided into four colored segments: red, blue, green, and yellow. From the top of this circle, a thin, elongated purple petal-like shape extends upwards. From the bottom of the circle, four petal-like shapes extend outwards in the colors of the segments: red, blue, green, and yellow. The entire logo is centered on a black background, which is also the background for the text.

openway**academy**

WAY4 ATM Management

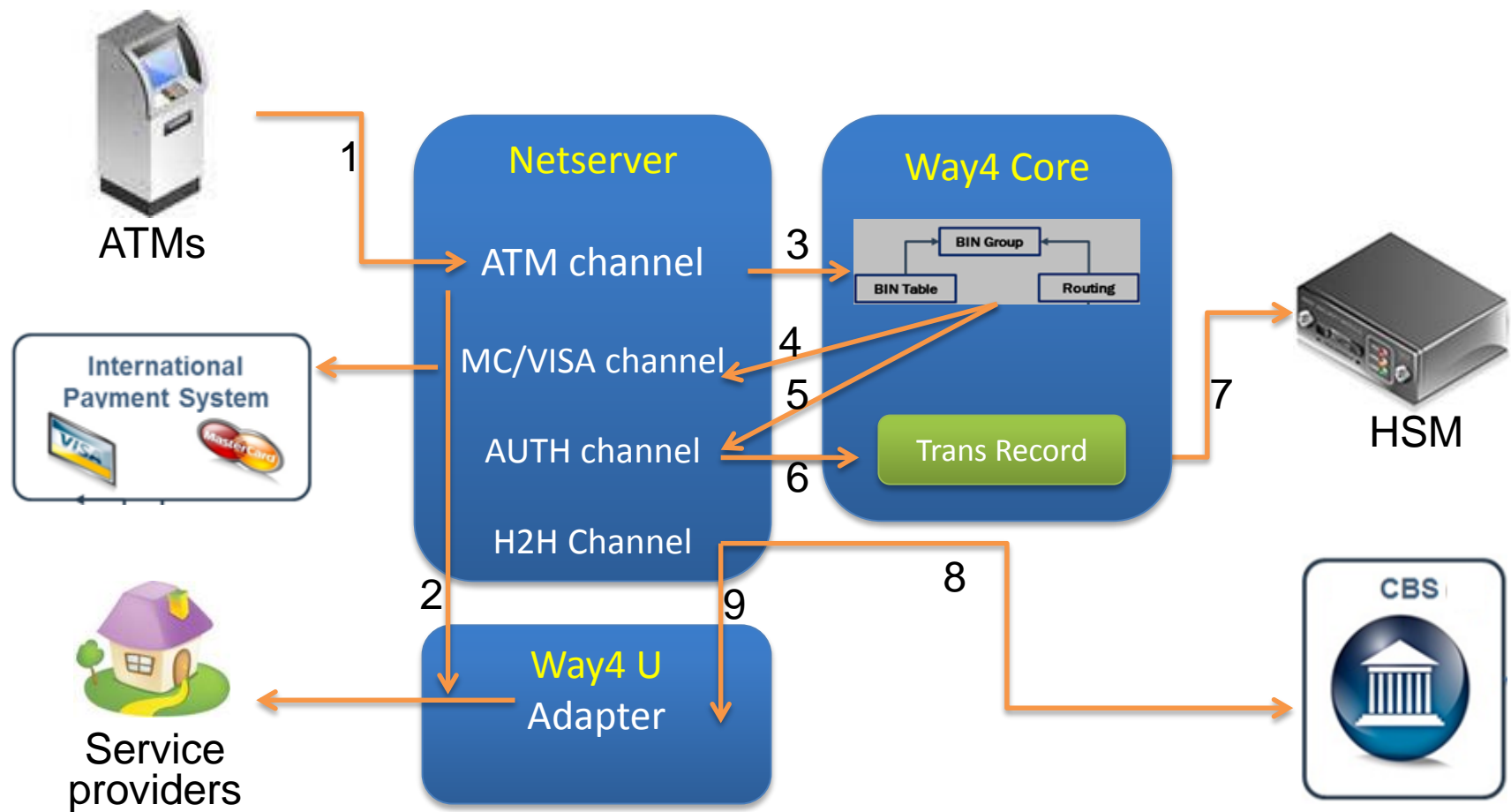
Main Concept

- **Cash functions**
 - Cash withdrawal: from card, by code
 - Cash acceptance (envelope/deposit and note acceptance)
 - Currency exchange
 - Cash bill payments
 - Cash prepaid services
- **Payments and transfers**
 - Account transfers
 - P2P fund transfers
 - Bill payments
 - Prepaid services
 - Self-service purchase (CAT/ADM)
- **Information services**
 - Balance inquiry / balance printing
 - Credit limit and other account details
 - Mini-statement (10 last transactions)
 - Statements
 - Interactive services
 - OTP list printing
 - Web/Mobile banking data
- **Account and profile management**
 - Block card
 - Service activation
 - My payments (client profile management)
 - EMV PIN Change/PIN Set
- **Marketing**
 - Marketing messages
 - Loyalty program support

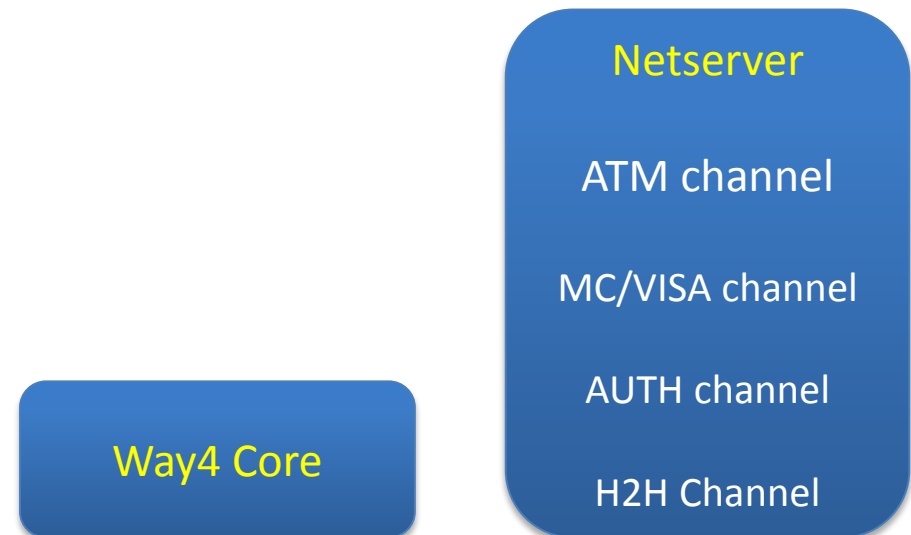
- 24x7 ATM status management and monitoring
- Real-time cassettes monitoring
- Real-time hardware status monitoring
- Automatic real-time per-transaction balancing
- Dispense and Replenishment reconciliation
- Integrated Accounting
- NDC/DDC Configuration Builder
- ATM/Kiosk Statistic Analyser

Main Components

ATM Transaction Flow



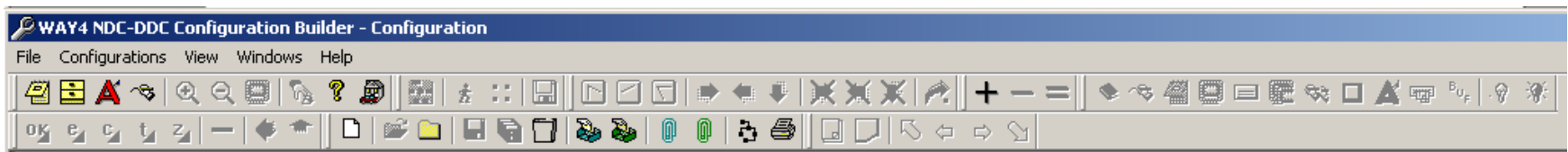
- ATM
- ATM Controller in Net-server
- Way4 DBM



- ATM Screen
- ATM Screen Flow (Configuration File *.cfg)
- ATM Keys

- GUI (Form based software)
- Helps user to develop the configuration files in GUI, not in text format.
- Is developed by Openway

- Steps
 - File\Pictures
 - File\Fonts
 - File\Parameters\NDC/DDC Parameters\Predefined Picture for Screen
 - File Configuration



WAY4 NDC/DDC Configuration Builder

Configuration

- MB_CDM
- MSB_ATM
- MSB_P2P
- NBO_CDM_FULL
- SEA_CDM
- VPB_NEW**
- WIKI_CDM
- Wiki Card CDM

New
Open
Close
Save
Save All
Delete
Import
Import From Folder
Export
Export to Folder
States Graph
Report

Name: VPB_NEW

Description: Mon nay co state 102 - ban phim Alphabet

Dates
Created: 14/05/14 09:20
Changed: 14/05/14 09:21

ID: 0

Inherited
From: <Original>
Terminal Type: DDC

Environment: C:\Program Files\OpenWay Systems\WA
Select

WAY4 NDC/DDC Configuration Builder

Configuration

MB_CDM
MSB_ATM
MSB_P2P
NBO_CDM_FULL
SEA_CDM
VPB_NEW
Screens
States
Card Types
Parameters
Timers
EMV Schemes
EMV AIDs
Format Templates
WINCOR EMV AIDs
WIKI_CDM
Wiki Card CDM

Number: 14 From Configuration: VPB_NEW

Description:

Display Method:

Leading:

Template: 9999-9999-9999-9999

Format Templates list (highlighted):

- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

WAY4 NDC/DDC Configuration Builder

Configuration

- MB_CDM
- MSB_ATM
- MSB_P2P
- NBO_CDM_FULL
- SEA_CDM
- VPB_NEW
- Screens
- States
- Card Types
- Parameters
- Timers**
 - 00
 - 01
 - 02**
 - 03
 - 04
 - 05
 - 06
 - 07
 - 08
 - 09
 - 10
 - 11
 - 15
 - 21
- EMV Schemes
- EMV AIDs
- Format Templates
- WINCOR EMV AIDs
- WIKI_CDM
- Wiki Card CDM

Timer Number:

From Configuration:

Value:

Description:

WAY4 NDC/DDC Configuration Builder

Configuration

- MB_CDM
- MSB_ATM
- MSB_P2P
- NBO_CDM_FULL
- SEA_CDM
- VPB_NEW
 - Screens
 - States
 - Card Types
 - Parameters**
 - 00
 - 01
 - 02
 - 03
 - 04
 - 05
 - 06
 - 07
 - 08
 - Timers
 - EMV Schemes
 - EMV AIDs
 - Format Templates
 - WINCOR EMV AIDs
- WIKI_CDM
- Wiki Card CDM

	Number	Description	Value
1	00	camera control	0
2	01	card reader error count	40
3	02	hi-side bill size (tabs 911) or reserved (tabs 912)	0
4	03	lo-side bill size (tabs 911) or reserved (tabs 912)	0
5	04	track 3 write error limit	3
6	05	bit data	201
7	06	reserved	0
8	07	bit data	116
9	08	reserved	0

WAY4 NDC/DDC Configuration Builder

Configuration

MB_CDM
MSB_ATM
MSB_P2P
NBO_CDM_FULL
SEA_CDM
VPB_NEW
 Screens
 States
 Card Types
 000
 001
 002
 003
 004
 005
 006
 007
 008
 009
 010
 020
 021
 022
 023
 050
 051
 052
 053
 054
 055
 056
 057
 058
 059

BIN 97043201 Item Number 006 From Configuration VPB_NEW

Description
VPBANK Local Debit Card

Remote PIN Check ☒ Index for State ? 5 Logo 0

Offsets

	Track	Separator	Direction	Offset
Algorithm	2	Start	Next	0
BIN	2	Start	Next	0
PIN Tries	2	Start	Next	3
PAN	2	Start	Next	0
Language	2	Start	Next	0
PIN	2	Start	Next	7
GBP	2	Start	Next	0

Maximum PIN Digits Entered 4 PEKEY 0000000000000000 CIM86 0

Local PIN Check

Maximum PIN Digits Checked 0 Char Map 0123456789012345 PAN Width 31

PAN Pad 138 Algorithm DES GBP Width 0

Remote PIN Check

Track 3 PIN retry count Index 0 Type PIN Block ANSI Second Key MASTER

Encrypt PIN block ☐ Use CO-NUMBER ☐ Double Encryption ☐

WAY4 NDC/DDC Configuration Builder

Configuration

VPB_NEW

- Screens
 - States
 - 000
 - 001
 - 002
 - 003
 - 004
 - 008
 - 009
 - 010
 - 012
 - 013
 - 014**
 - 017
 - 018
 - 020
 - 021
 - 022
 - 023
 - 024
 - 025
 - 026
 - 028

Common | **Extension 1**

State : FOUR FDK Selection Function State Type

State Number From Configuration

Description

FDK 'A' Next State ☐ Screen

FDK 'B' Next State ☐ Buffer Location

FDK 'C' Next State ☐

FDK 'D' Next State ☐

Timeout State ☐

Cancel State ☐

WAY4 NDC/DDC Configuration Builder

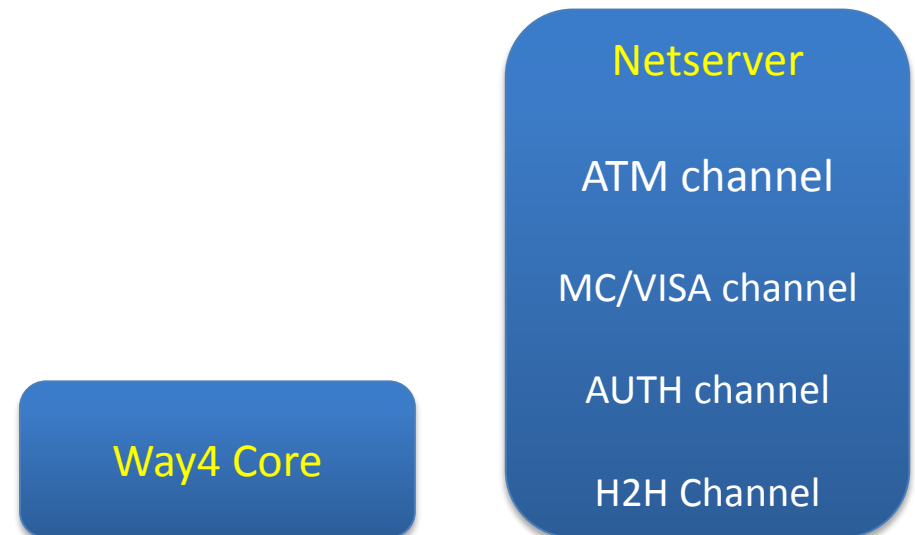
Configuration

- MB_CDM
- MSB_ATM
- MSB_P2P
- NBO_CDM_FULL
- SEA_CDM
- VPB_NEW
- Screens
 - 000
 - 000-001
 - 001
 - 002
 - 004
 - 006
 - 008
 - 009
 - 010
 - 011
 - 012
 - 013
 - 013-001
 - 014
 - 014-001
 - 015
 - 015-001
 - 017
 - 017-001

List	Parameters		
	Number	Description	Value
1	000	more time	<1B>L000<1B>0263<0C><0F>@@<1B>P2630
2	000-001		<1B>L001<1B>0406<0C><1B>P4060
3	001	off line	<1B>L000<1B>0458<0C><1B>P4580
4	002	out of service	<1B>L000<1B>0411<0C><1B>P4110
5	004	currency characte	<1B>C/C<1B>F00<0F>HVMND
6	006	decimal characte	<1B>C/C<0F>HM.
7	008	rear balancing	
8	009	rear balancing	
9	010		<1B>0255<0C><0F>@@<1B>P2550
10	011		<1B>0429<0C><1B>P4290
11	012		<1B>0256<0C><0F>@@<1B>P2560
12	013		<0C><0F>@@<1B>P2570<1B>C72<0F>G0
13	013-001		<1B>L001<1B>0400<0C><0F>@@<1B>P4000<1B>C72<0F>G0
14	014		<1B>L000<1B>0264<0C><0F>@@<1B>P2640
15	014-001		<1B>L001<1B>0407<0C><0F>@@<1B>P4070
16	015		<1B>L000<1B>0258<0C><1B>F0E<1B>P258E<1B>F00<0F>0@DICH VU GIA TANG
17	015-001		<1B>L001<1B>0401<0C><1B>P4010
18	017		<1B>L000<1B>0330<0C><0F>@@<1B>P3300
19	017-001		<1B>L001<1B>0489<0C><1B>P4890
20	018		<1B>L000<1B>0259<0C><1B>P2590

- Finally, right Click and choose Export
- Main Principles
 - Not using Configuration Builder
 - Design (screen, state, flow...)

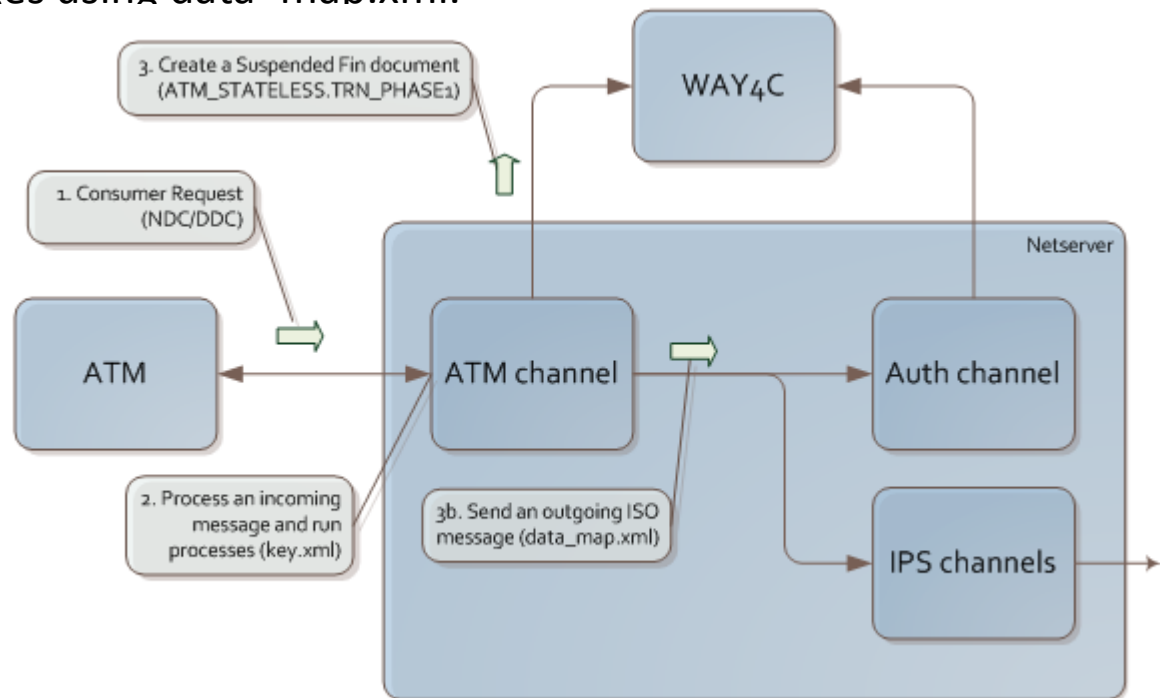
- ATM (Configuration builder)
- ATM Controller in Net-server
- Way4 DBM



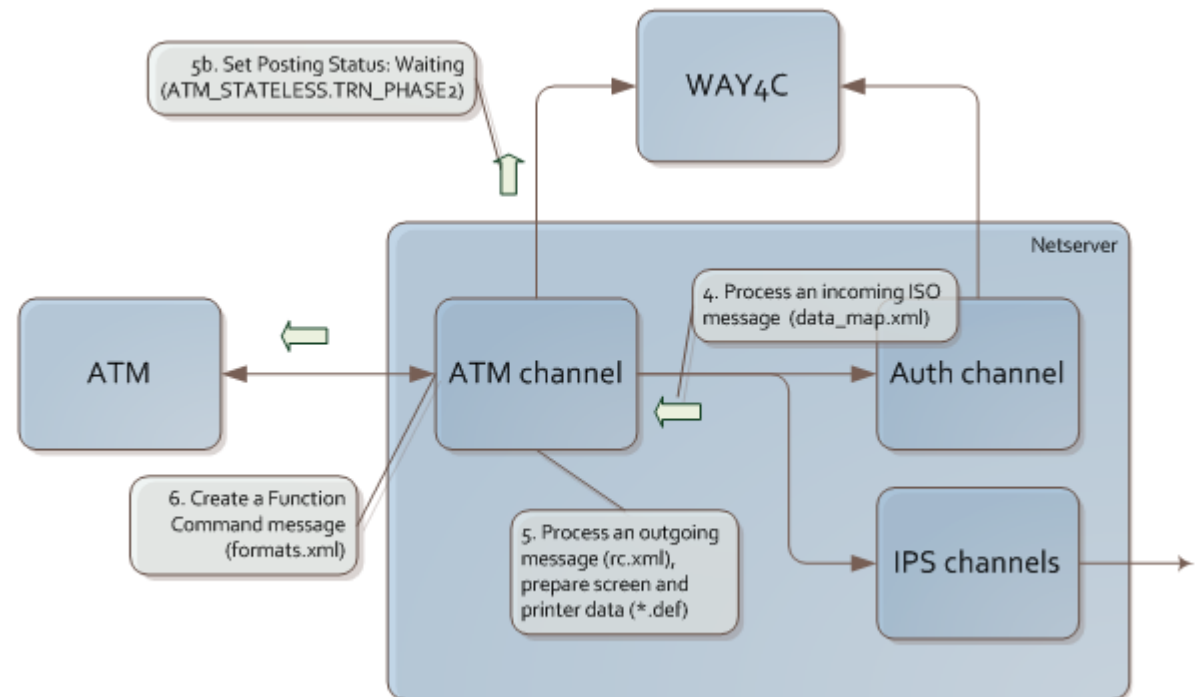
- Net-Server Channel
 - ATM channel
 - AUTH channel
 - HSM_XFACE channel
 - MC_DEBIT/MC_CREDIT channel
 - H2H channel

When processing operations made on ATMs, the following actions are taken:

1. A Consumer Request (NDC/DDC) message comes from the ATM.
2. Specific operations are executed, parameters installed and processes run by key.xml.
3. Processes can create and change the status of acquiring documents, as well as generate ISO messages using data_map.xml.



4. If an outgoing ISO message was sent, the response message is parsed by sections of the Incoming data_map.xml file.
5. After all key.xml processes have completed, response parameters are installed using rc.xml and template files (*.def).
6. The formats.xml file is used to generate a Function Command message and send it to an ATM on the NDC/DDC protocol.



- ATM Controller File:
 - Key.xml
 - Rc.xml
 - C_receipt.def/a_receipt.def/s_receipt.def/j_receipt.def/scr_tmpl.def
- H2H online interface
 - Core Banking System
 - SmartLink/Banknet

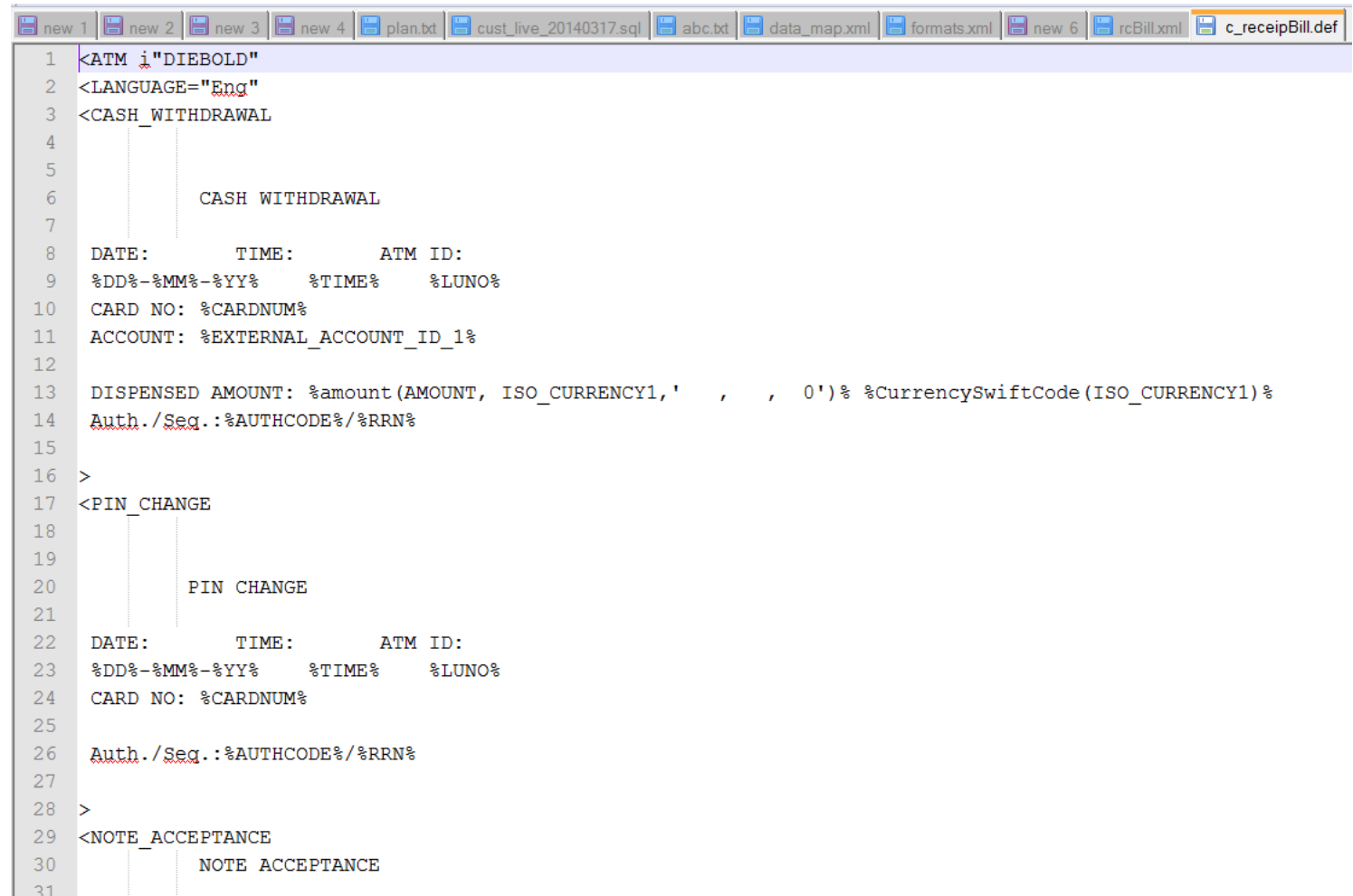
- ATM Controller configuration files (key.xml, rc.xml, data_map.xml, formats.xml) are xml files in which the following set of tags may be used:
 - Condition
 - PARAMETERS
 - PARAMETER
 - Process

```
2 <OperationKeys>
3   <PARAMETERS LANGUAGE="Eng" RECEIPT="YES" FROM_ACCOUNT="DEFAULT"/>
4   <Condition OPERATION_KEY="A">
5     <PARAMETERS OPERATION="CASH_WITHDRAWAL"/>
6     <!--CUONG Add 13112010/-->
7     <PARAMETER Name="VNM_OWN_CARD" Value="&apos;N&apos;"/>
8     <PARAMETER Name="VNM_BIN" Value="substr(ACCOUNT,&apos;1&apos;;&apos;8&apos;)/>
9     <PARAMETER Name="VNM_BIN1" Value="substr(ACCOUNT,&apos;1&apos;;&apos;6&apos;)/>
10    <Condition VNM_BIN1="&apos;970432&apos;"/>
11  </Condition>
12  <!--CUONG Add 13112010/-->
13  <Condition OPERATION_KEY="*A">
14    <PARAMETERS REQUEST_CURRENCY="&apos;704&apos;" EXPONENT="0"/>
15  </Condition>
16  <Condition OPERATION_KEY="*B">
17  </Condition>
18  <Condition OPERATION_KEY="*C">
19  </Condition>
20  <Condition OPERATION_KEY="*I">
21  </Condition>
22  <Condition OPERATION_KEY="*H">
23  </Condition>
24  <Condition OPERATION_KEY="*G">
25  </Condition>
26  <Condition OPERATION_KEY="**B">
27  </Condition>
28  <Condition OPERATION_KEY="***B">
29  </Condition>
30  <Condition OPERATION_KEY="***C">
31  </Condition>
32  <Condition OPERATION_KEY="***D">
33  </Condition>
34  <Condition OPERATION_KEY="***F">
35  </Condition>
36  <Condition OPERATION_KEY="*****B">
37  </Condition>
38  <Condition OPERATION_KEY="*****C">
39  </Condition>
40  <PARAMETERS LANGUAGE="Ger"/>
41  </Condition>
42  <Process Name="Start Enhanced Operation"/>
43  <Condition RC="00" OPERATION_KEY="***D">
44  </Condition>
45  <!--End multi account -->
```

- Rc.xml

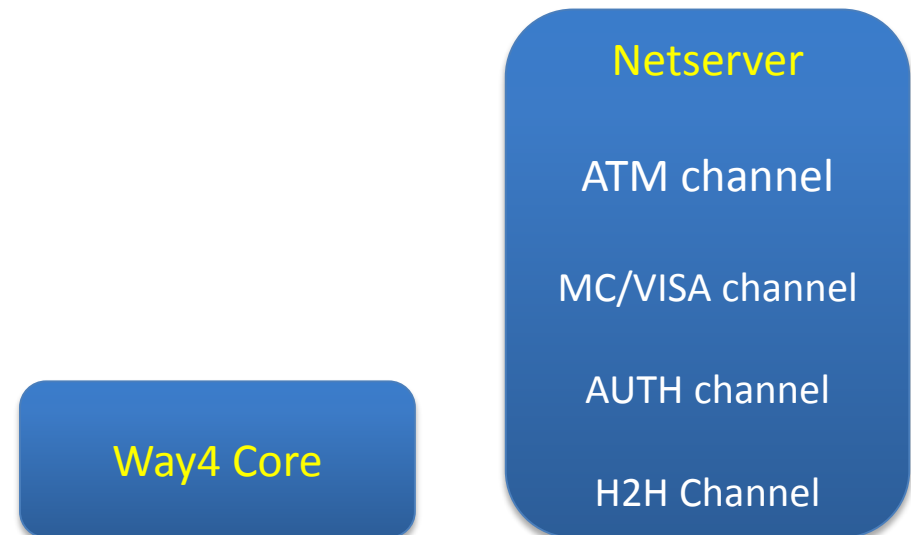
```
new 1 new 2 new 3 new 4 plan.bt cust_live_20140317.sql abc.bt data_map.xml formats.xml new 6 rcBill.xml
56 <PARAMETERS NextStateID="396"/>
57 <PARAMETERS RC_DESCRIPTION="System malfunction"/>
58 <Condition RC="00">
59   <Condition OPERATION="CASH_WITHDRAWAL">
60     <!--Condition Phase="RETRY">
70     <!-- HA thay doi theo yc a Cham de tra tien truoc khi tra the ATM -->
71
72     <PARAMETERS Scenario="BASE"/>
73     <!-- Thay doi theo yeu cau cua TTT ID: 77789 ngay 05-12-2012 -->
74     <!--PARAMETERS Scenario="2"/-->
75
76     <PARAMETERS RC_DESCRIPTION="Transaction approved"/>
77     <PARAMETERS NextStateID="223"/>
78     <PARAMETERS Screen1="070"/>
79     <PARAMETERS Screen2="024"/>
80     <PARAMETERS Screen3="071"/>
81     <!--CUONG add 131120003/-->
82     <!--
96     <!--CUONG add 131120003/-->
97
98   <Condition RECEIPT="YES">
99     <PARAMETERS Printer1="Consumer" PrnTemplate1="CONSUMER_RECEIPT"/>
100    <PARAMETERS Printer2="Journal" PrnTemplate2="JOURNAL_RECEIPT"/>
101    <PARAMETERS Screen4="072"/>
102  </Condition>
103  <Condition RECEIPT="NO">
104    <PARAMETERS Printer1="Journal" PrnTemplate1="JOURNAL_RECEIPT"/>
105  </Condition>
106 </Condition>
107 <!-- Hoang Anh changed ngay 20120813 theo yc thay doi PIN verification -->
108
```

- C_receipt.def



```
1 <ATM i="DIEBOLD"
2 <LANGUAGE="Eng"
3 <CASH_WITHDRAWAL
4
5
6     CASH WITHDRAWAL
7
8     DATE:          TIME:          ATM ID:
9     %DD%-<del>MM</del>-%YY%    %TIME%    %LUNO%
10    CARD NO: %CARDNUM%
11    ACCOUNT: %EXTERNAL_ACCOUNT_ID_1%
12
13    DISPENSED AMOUNT: %amount(AMOUNT, ISO_CURRENCY1,'    ,    , 0')% %CurrencySwiftCode(ISO_CURRENCY1)%
14    <del>Auth./Seq.</del>:%AUTHCODE%/<del>RRN</del>%
15
16 >
17 <PIN_CHANGE
18
19
20     PIN CHANGE
21
22     DATE:          TIME:          ATM ID:
23     %DD%-<del>MM</del>-%YY%    %TIME%    %LUNO%
24     CARD NO: %CARDNUM%
25
26     <del>Auth./Seq.</del>:%AUTHCODE%/<del>RRN</del>%
27
28 >
29 <NOTE_ACCEPTANCE
30     NOTE ACCEPTANCE
31
```

- ATM (Configuration builder)
- ATM Controller in Net-server
- Way4 DBM



- ATM Type
- ATM Denomination
- ATM Message Type
- Enter ATM Contract
- ATM Monitoring
 - Hardware status
 - Cassettes status
 - Send command to ATM

OpenWay\Full\Configuration Setup\Merchant Device Setup\ATM Types

- ATM Types
 - Path to configuration file in net-server
 - Brand
 - Protocol id

ATM Types												<< < > >>	1 of 49	X
Name	Brand	Model	Conf File	Outgoing Console	Cassette Account Code	Cash Account Code	EMV Conf File	Code	Transaction Attributes	Protocol Id	Dispense A			
ProCash 2100 N	WINCOR	ProCash 2100	conf/atm/ndc_conf/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash2100_N		NDC+				
ProCash 2150 D	WINCOR	ProCash 2150	conf/atm/config/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash2150_D		Diebold 912				
ProCash 2150 N	WINCOR	ProCash 2150	conf/atm/ndc_conf/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash2150_N		NDC+				
ProCash 3100 D	WINCOR	ProCash 3100	conf/atm/ndc_conf/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash3100_D		Diebold 912				
ProCash 3100 N	WINCOR	ProCash 3100	conf/atm/ndc_conf/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash3100_N		NDC+				
ProCash 4000 D	WINCOR	ProCash 4000	conf/atm/ndc_conf/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash4000_D		Diebold 912				
ProCash 4000 N	WINCOR	ProCash 4000	conf/atm/ndc_conf/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash4000_N		NDC+				
ProCash 400 D	WINCOR	ProCash 400	conf/atm/config/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash400_D		Diebold 912				
ProCash 400 N	WINCOR	ProCash 400	conf/atm/ndc_conf/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCash400_N		NDC+				
ProCash Compa	WINCOR	ProCash Compa	conf/atm/config/wincor.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		ProCashCompa		Diebold 912				
BULL	BULL		conf/atm/config/bull.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		BULL		Diebold 912				
BULL NDC+	BULL		conf/atm/ndc_conf/bull.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		BULL_NDC		NDC+				
DEC (2 Cassette)	DEC		conf/atm/config/dec.cfg	Outgoing Console	ATM Cassette	Cash Dispenser		DEC2		Diebold 912				

OpenWay\Full\Configuration Setup\Merchant Device Setup\ATM Denominations

- ATM Denomination
 - Denomination
 - Limit

ATM Denominations

5 of 5

Record ID	Code	Name
6	DIEB	Diebold family
7	NDC	NDC/NDC+ family
28	200K	DDC_TYPE_200K
→ 29	500K	DDC_TYPE_500K

Ins Del Query Denom

Denom for DDC_TYPE_500K

1 of 4

Direction	Item Type	Name	Mapped to	Currency	Denomination	Limit	Dispense Parameters	Cycle Type Code
→ Debit	Banknote	A		VND	500,000.00	40		
Debit	Banknote	B		VND	100,000.00	10140		
Debit	Banknote	C		VND	50,000.00	20140		
Debit	Banknote	D		VND	20,000.00	20140		

Ins Del Query

OpenWay\Full\Configuration Setup\Merchant Device Setup\ATM Message Types

- ATM Message Types
 - Error Level

ATM Message Types									<< < > >>		1 of 6117	X
Protocol	Device Type	Hardware Type	Name	Code	Error Level	Group Code	Security	Usage Operation				
→ Diebold 912		Journal Printer	Journal printer fault (Unsolicited)	1400	Warning		100					
Diebold 912		Journal Printer	Journal printer line print fault (Unsolicited)	1420	Warning		100					
Diebold 912		Journal Printer	Journal printer head return fault (Unsolicited)	1421	Error		100					
Diebold 912		Journal Printer	Journal printer line feed fault (Unsolicited)	1422	Error		100					
Diebold 912		Journal Printer	Journal printer low on paper (Unsolicited)	1425	Warning		100					
Diebold 912		Journal Printer	Journal printer electrical fault (Unsolicited)	1426	Error		100					
Diebold 912		Journal Printer	Journal printer out of paper (Unsolicited)	1427	Error		100					
Diebold 912		Journal Printer	Journal printer fault (Solicited)	28200	Error		100					
Diebold 912		Journal Printer	Journal printer line print fault (Solicited)	28220	Error		100					
Diebold 912		Journal Printer	Journal printer head return fault (Solicited)	28221	Error		100					
Diebold 912		Journal Printer	Journal printer line feed fault (Solicited)	28222	Error		100					
Diebold 912		Journal Printer	Journal printer low on paper (Solicited)	28225	Warning		100					
Diebold 912		Journal Printer	Journal printer electrical fault (Solicited)	28226	Fatal Error		100					

Ins Del Query Description

OpenWay\Full\Acquiring\Acquiring Contracts\Clients (Corporate)

- Enter ATM Contract
 - Client Contract
 - Acquiring Contract

Clients (Corporate) << < > >> 1 of 2 x

Short Name	Reg Number	Client Number	Company Full Name	Is Ready
→ ATM TEST	0001A0001	0001A0001		Ready
CLIENT AMT 0002	0002A0002	0002A0002		Ready

Ins Del Query Action ... Client - Edit Iss Contr Acq Contr All Contracts Classifiers

Acq Contr for ATM TEST << < > >> 1 of 1 b x

Contract # 105-C-100006

Client 1696424

Contract Name ATM TEST

Product 105-PGB ATM

Acnt Scheme 24386

Type 105-Corporate Client Account

Service 105-Acq Accounting Commercial

Report Type Merchant Default

Card Centre Bank ATM

RBS #, Member ID 1052034005 APP0105

Settlement Type Available VND 0.00

Usage Scenario Main and Own

Liab Contract Liab Category

Comment

SIC Code 6011 ATM Card Acceptor ID 105CARD

Open/Close 04/01/2012 00/00/0000 Status Account OK Approval Ready

Ins Del Query Approve Client Accounts Subs Balance Serv Cards Pers.Usage Svch Usage Jn/On Usage Devices ATM Retail Address AddParms All Clients

– Device Contract/ATM contract

Devices for ATM TEST

Terminal ID

00111740

Client

1696424

Device Name

ATM TEST

Comment

Product Settings

Product

105-Our ATM Local

Type

105-ATM

Service

105-PG Bank ATM

Risk Parameters

Risk Scheme

Floor Limit Factor

1.000

Usage Scenario

Main and Own

Opened/Closed

04/01/2012

00/00/0000

SIC Code

Card Acceptor ID

Status

Device OK

Ready

Ins

Del

Query

New Client

Client

ATM

Serv Cards

Parms

Pers.Usage

Swch Usage

On/Off Usage

Address

SubDevices

ATM for ATM TEST

Terminal ID

00111740

Denominations

DDC_TYPE_200K

Online

ATM Type

ProCash 1500 NDC

Global/Coin Limit

0

0

NS Service

ATM Location

HAN

Cut-Off Time

:

Socket

12678

Service Group

Time Offset

0

NW Address

10.0.0.22

Default Curr

VND

MAC Status

None

Configuration

1

PIN Prevalidation

None

ATM Status

OK

Ins

Del

Query

Setup

Hardware

Operations

Messages

Cassettes

Parms

Enh Parms

Keys

- Mandatory Properties for ATM
 - SIC – contract parameter
 - Card Acceptor Id (ISO Field 42)
 - contract parameter
 - City (ISO Field 43) – address parameter
 - Country (ISO Field 43) – address parameter
 - Merchant Name (ISO Field 43)
 - address parameter
 - URL

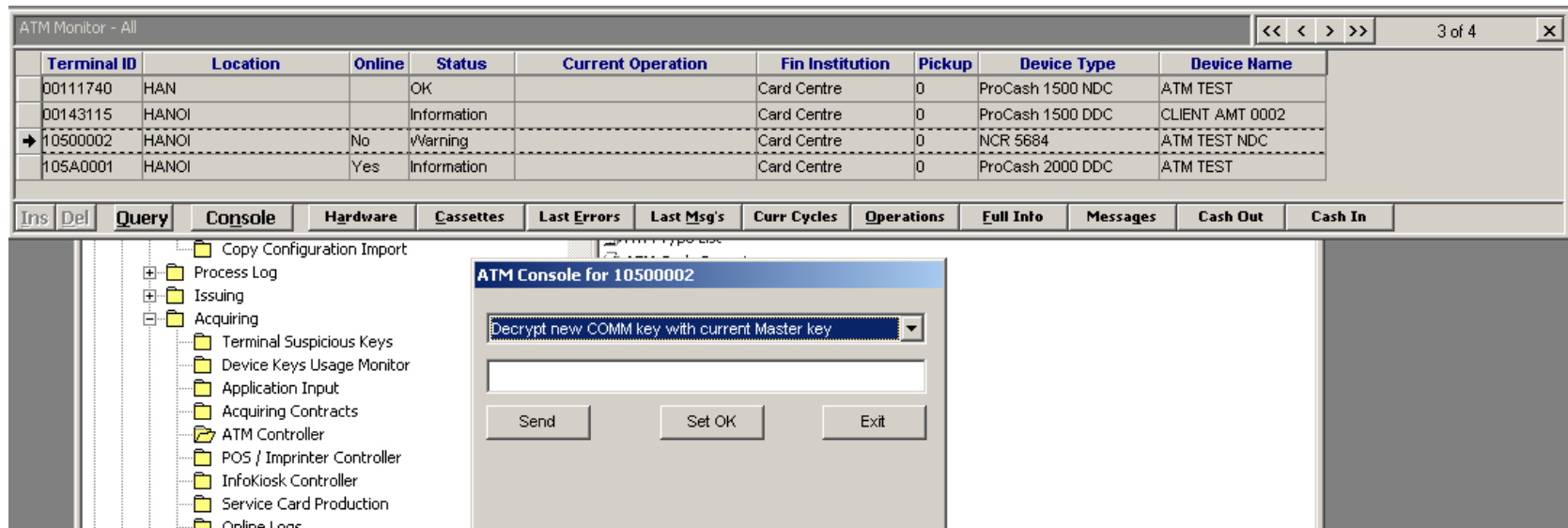
- **ATM Keys**
 - TMK (Terminal Master Key)
 - TPK (Terminal PIN Key)
 - TAK (Terminal Authentication Key)

OpenWay\Full\Acquiring\ATM Controller\ATM Monitor - All

- ATM Monitoring
 - Cassettes

ATM Monitor - All										<< < > >>			3 of 4		X	
Terminal ID	Location	Online	Status	Current Operation	Fin Institution	Pickup	Device Type	Device Name								
00111740	HAN		OK		Card Centre	0	ProCash 1500 NDC	ATM TEST								
00143115	HANOI		Information		Card Centre	0	ProCash 1500 DDC	CLIENT AMT 0002								
→ 10500002	HANOI	No	Warning		Card Centre	0	NCR 5684	ATM TEST NDC								
105A0001	HANOI	Yes	Information		Card Centre	0	ProCash 2000 DDC	ATM TEST								
Ins	Del	Query	Console	Hardware	Cassettes	Last Errors	Last Msg's	Curr Cycles	Operations	Full Info	Messages	Cash Out	Cash In			
Cassettes for ATM TEST NDC										<< < > >>			1 of 4		b X	
Cycle Type	Key Value	Direction	Item Type	Position	Name	Mapped To	Subtype	Currency	Denomination	Limit	Status	Loaded	Loaded Amount	Dispenser	Disp Amount	Checked
→ Cash-Out	DBP1	Debit	Banknote	11				VND	50,000.00	40	OK	0	0.000		0.000	
Cash-Out	DBP2	Debit	Banknote	22				VND	50,000.00	40	OK	0	0.000		0.000	
Cash-Out	DBP3	Debit	Banknote	33				VND	50,000.00	40	OK	0	0.000		0.000	
Cash-Out	DBP4	Debit	Banknote	44				VND	50,000.00	40	OK	0	0.000		0.000	
											0		0		0	
Ins	Del	Query	Status	Console	Dispense											

- ATM Monitoring
 - Send Console Command to ATM



Thanks you for your attention

Do you have any question?

