Presented by Tu B. Nguyen.

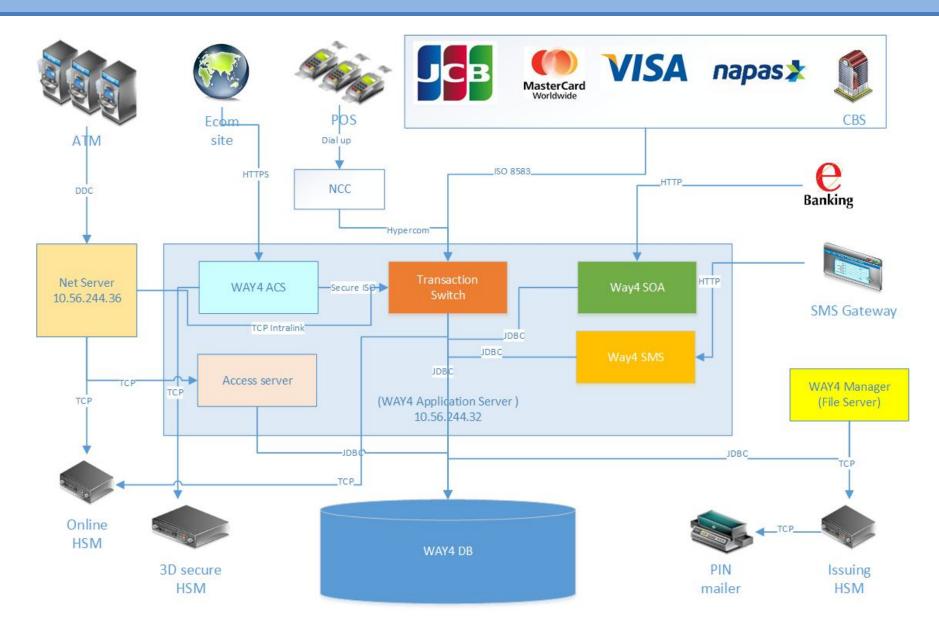


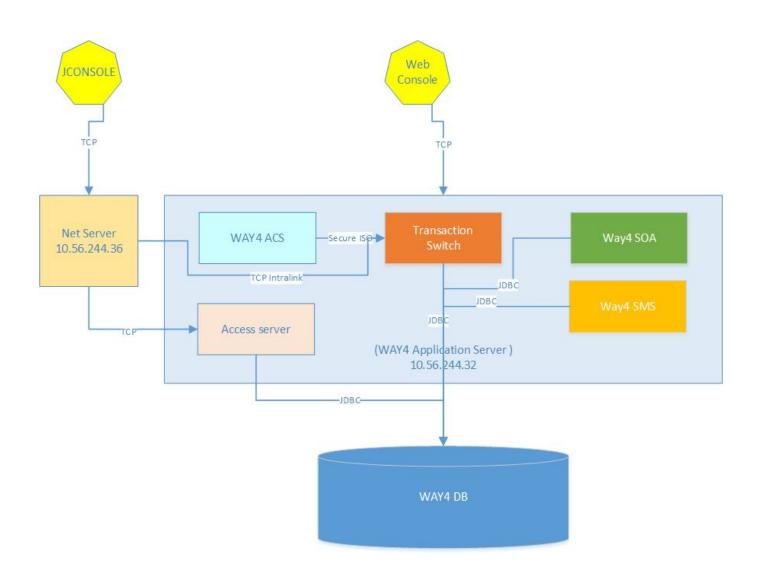
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## **WAY4** Functionalities

# Agenda:

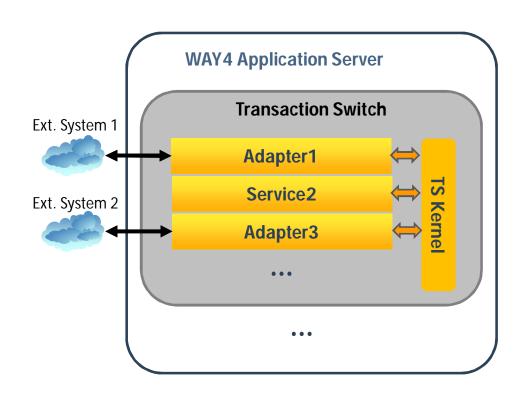
- WAY4 System Architecture
  - WAY4 Transaction Switch
  - WAY4 Net-server
  - WAY4 Manager
- Question?





# **WAY4 Transaction Switch**

## WAY4 Transaction Switch - Architecture



- Service separately manageable and configured unit. Service can implement internal functions which can be called by other services.
- Adapter is a service connected to a single external system.

## WAY4 Transaction Switch - Architecture

- Service can implement *functions*
- *Function* processes request and returns response

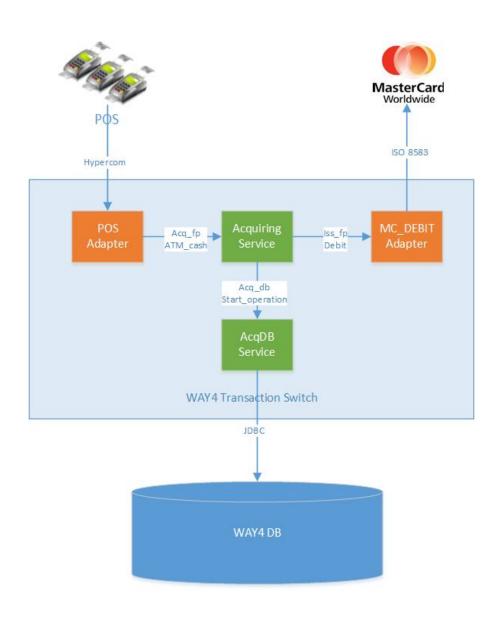
Function Name	e.g. "debit"
Request message type	e.g. "DebitRq"
Response message type	e.g. "DebitRs"

• **Protocol** = group of related functions

"acq_fp"	Acquiring Financial Protocol (credit, debit, bill_payment, mini_statement, p2p,)
"iss_fp"	Issuing Financial Protocol (credit, debit, mini_statement, pin_change,)
"hsm"	HSM Functions Protocol

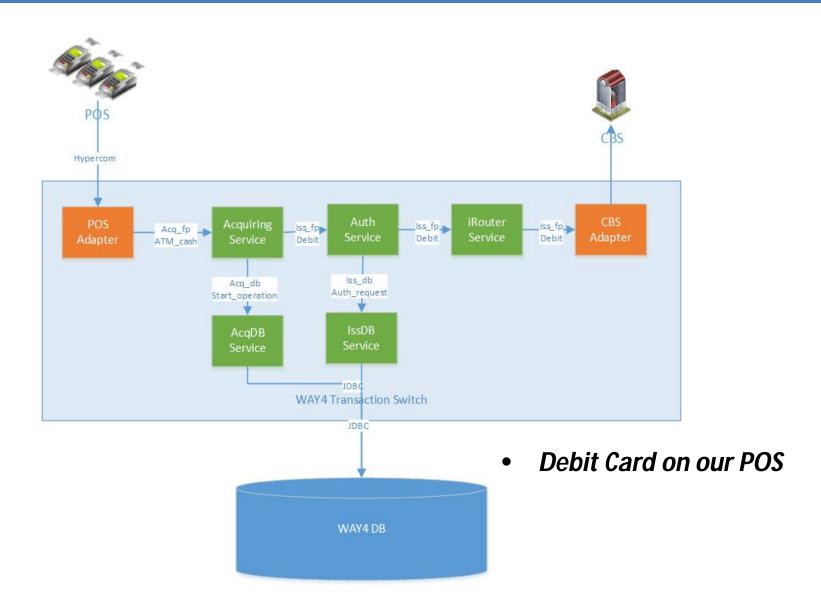
- Each service must implement one and only one protocol.
- Service may implement a subset or superset of protocol functions.

# WAY4 Transaction Switch - Example



MasterCard on our POS

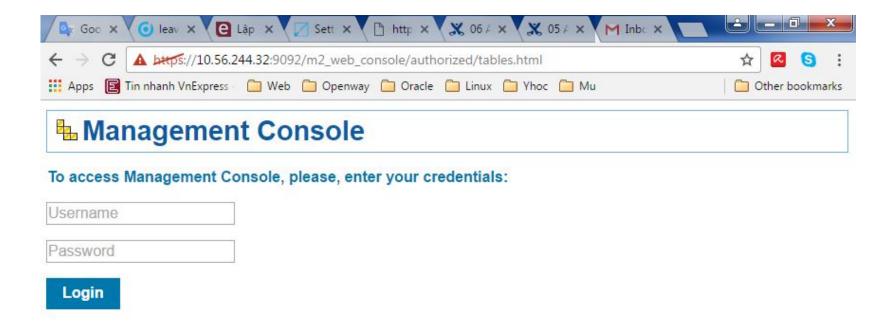
# WAY4 Transaction Switch - Example



## WAY4 Transaction Switch - Monitoring

http://<server\_ip>:9090/m2\_web\_console

https://<server\_ip>:9092/m2\_web\_console



## WAY4 Transaction Switch – Monitoring

**Application** 

**Service** 

Configuration

Log

**La Management Console** 

admin logout

#### Applications > ts\_1-1-135 on transactionSV > Logs > ext\_20161012165303.log

ext\_20161012165303.log

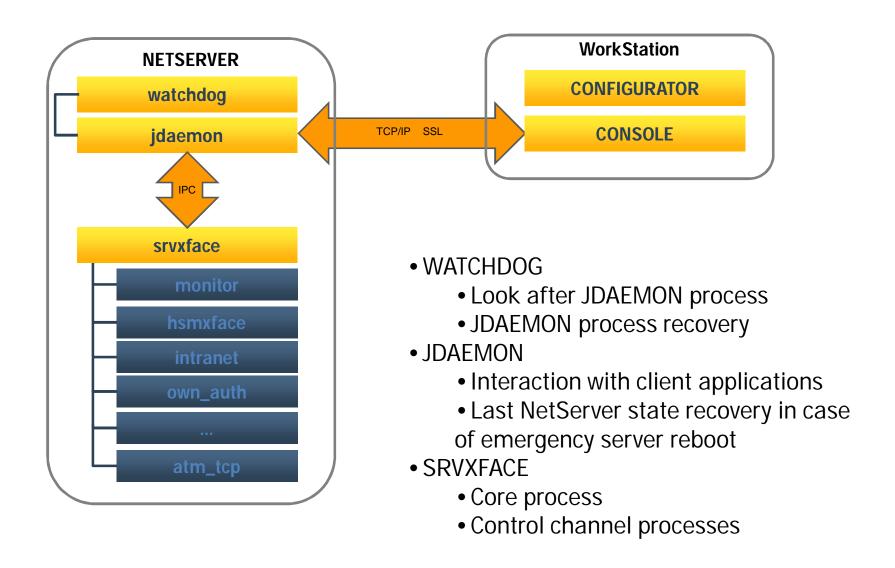
```
2016-10-12 17:53:29.293 M System
                                          Ir.timer DataGateAdapter.ExtlaskProvider.cneckSender: cnanneis=0
                                          In.oller [WAY4DB] G_main: # capture C_main2
2016-10-12 17:53:29.838 M Intranet
2016-10-12 17:53:29.838 D Intranet
                                          In.oller Raw connection context got: C_main2 (1309409209)
2016-10-12 17:53:29.838 M Intranet
                                          In.oller Executing soft_intra.CHECK_MAIL
        addressto=[998]
2016-10-12 17:53:29.840 M Intranet
                                          In.oller Executed soft_intra.CHECK_MAIL
        qrec=[0]
2016-10-12 17:53:29.840 M Intranet
                                          In.oller Raw connection context to be released (action 1): 1309409209
2016-10-12 17:53:29.841 M Intranet
                                          In.oller [WAY4DB] G main: # release C main2
2016-10-12 17:53:30.841 M Intranet
                                          In.oller [WAY4DB] G main: # capture C main2
2016-10-12 17:53:30.842 D Intranet
                                          In.oller Raw connection context got: C main2 (1309409209)
2016-10-12 17:53:30.842 M Intranet
                                          In.oller Executing soft intra.CHECK MAIL
        addressto=[998]
2016-10-12 17:53:30.843 M Intranet
                                          In.oller Executed soft_intra.CHECK_MAIL
        qrec=[0]
2016-10-12 17:53:30.844 M Intranet
                                          In.oller Raw connection context to be released (action 1): 1309409209
2016-10-12 17:53:30.844 M Intranet
                                          In.oller [WAY4DB] G main: # release C main2
2016-10-12 17:53:31.359 M System
                                          J_srv1 [WAY4DB] get service S_groupTasks0 period=10s run=-100000000
2016-10-12 17:53:31.359 M System
                                          J srv1 [WAY4DB] < done service S groupTasks0 period=10s run=-1000000000
2016-10-12 17:53:31.845 M Intranet
                                          In.oller [WAY4DB] G main: # capture C main2
2016-10-12 17:53:31.845 D Intranet
                                          In.oller Raw connection context got: C main2 (1309409209)
2016-10-12 17:53:31.845 M Intranet
                                          In.oller Executing soft intra.CHECK MAIL
        addressto=[998]
2016-10-12 17:53:31.846 M Intranet
                                          In.oller Executed soft_intra.CHECK_MAIL
        qrec=[0]
2016-10-12 17:53:31.846 M Intranet
                                          In.oller Raw connection context to be released (action 1): 1309409209
2016-10-12 17:53:31.847 M Intranet
                                          In.oller [WAY4DB] G main: # release C main2
                                          Tr.timer POS1.ExtTaskProvider.checkSender: channels=1
2016-10-12 17:53:32.346 M System
2016-10-12 17:53:32.390 D System
                                          po.ead-1 POS1 > bytes=0, channel=Xchannel [id: 0x6371a9a9, /10.56.244.32:8083 => /138.229.11.70:60486]: xoff=false, reading=false,
writing=false, nr=0, active=true, open=true
```

Download

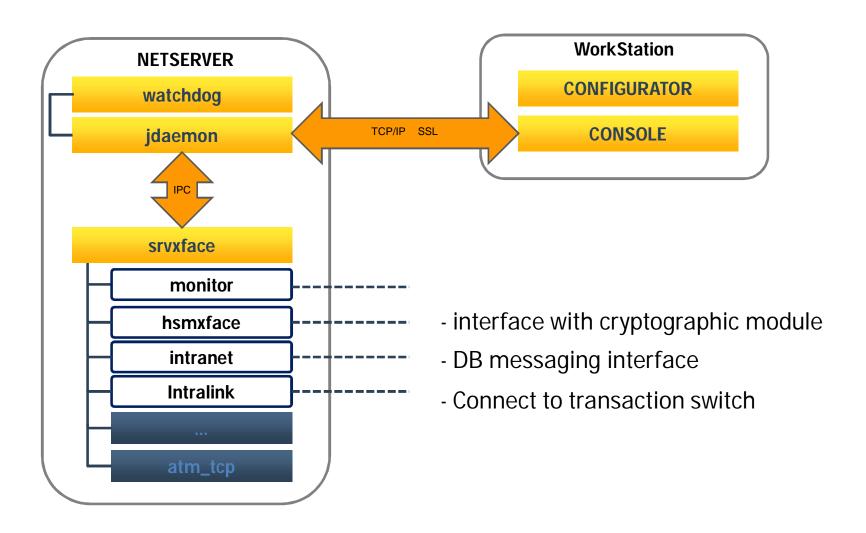
Copyright @ OpenWay, 2016. All rights reserved. Management Console version 1.0.1764. Application Server version: 1.6.1141.

# **WAY4 Net-Server**

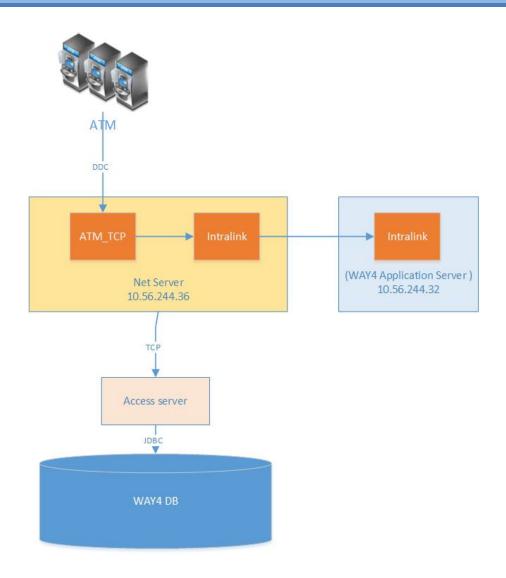
#### WAY4 Netserver - Architecture



## WAY4 Netserver - Architecture



# WAY4 Netserver - Example



## WAY4 Netserver - Monitoring

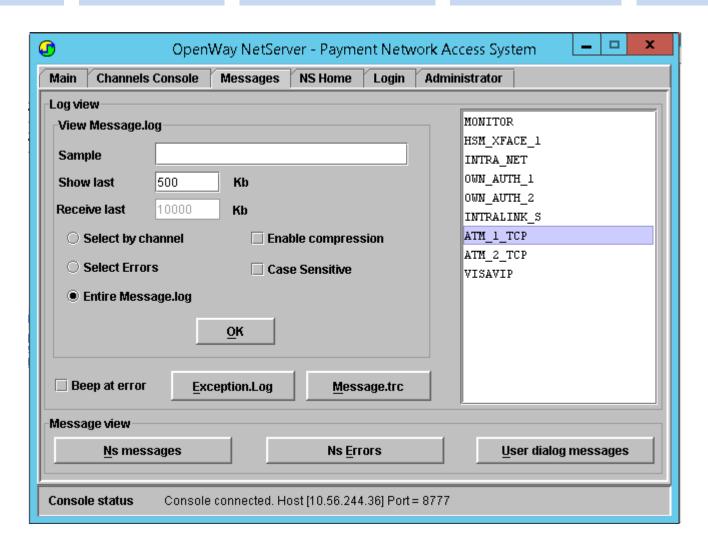
Log in

Main

Configuration

Channel

Message



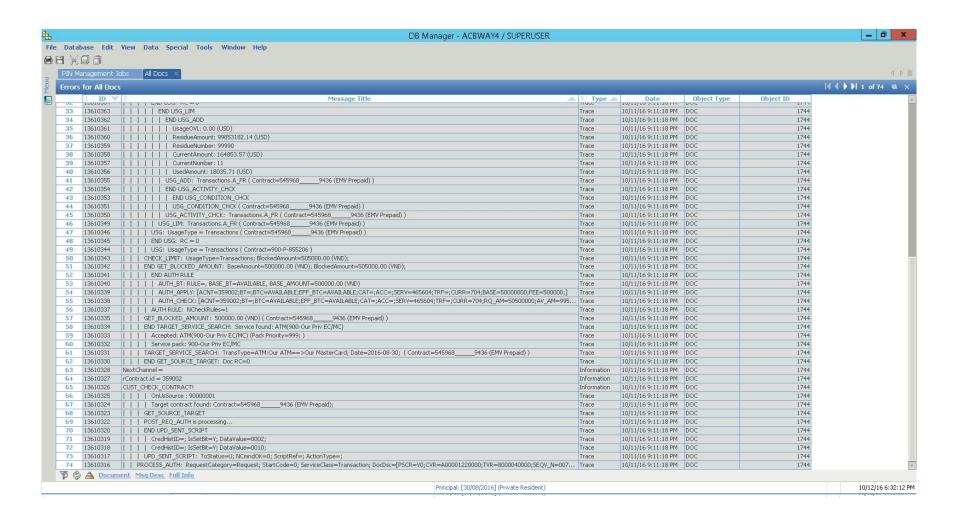
# **WAY4 Manager**

## WAY4 Manager – All doc

All doc

**Full Info** 

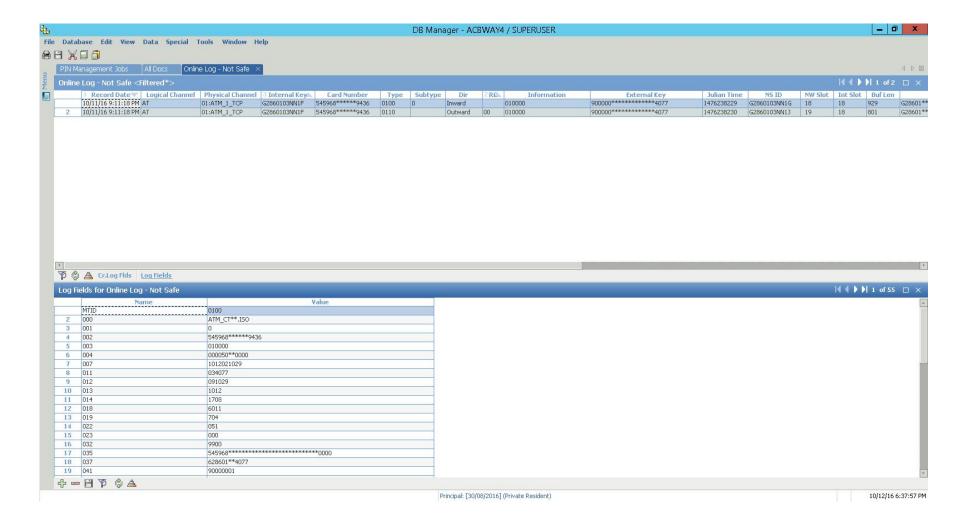
Error



# WAY4 Manager – Not safe Log

#### **Internal key**

#### Log field



## **WAY4 Manual**

Net Server.pdf

Administering\_WAY4\_Application\_Server.pdf

M2\_Web\_Console\_Operation\_manual.pdf

Transaction\_Switch\_Setup\_2.pdf

# Question

Thanks you for your attention

Do you have any question?

