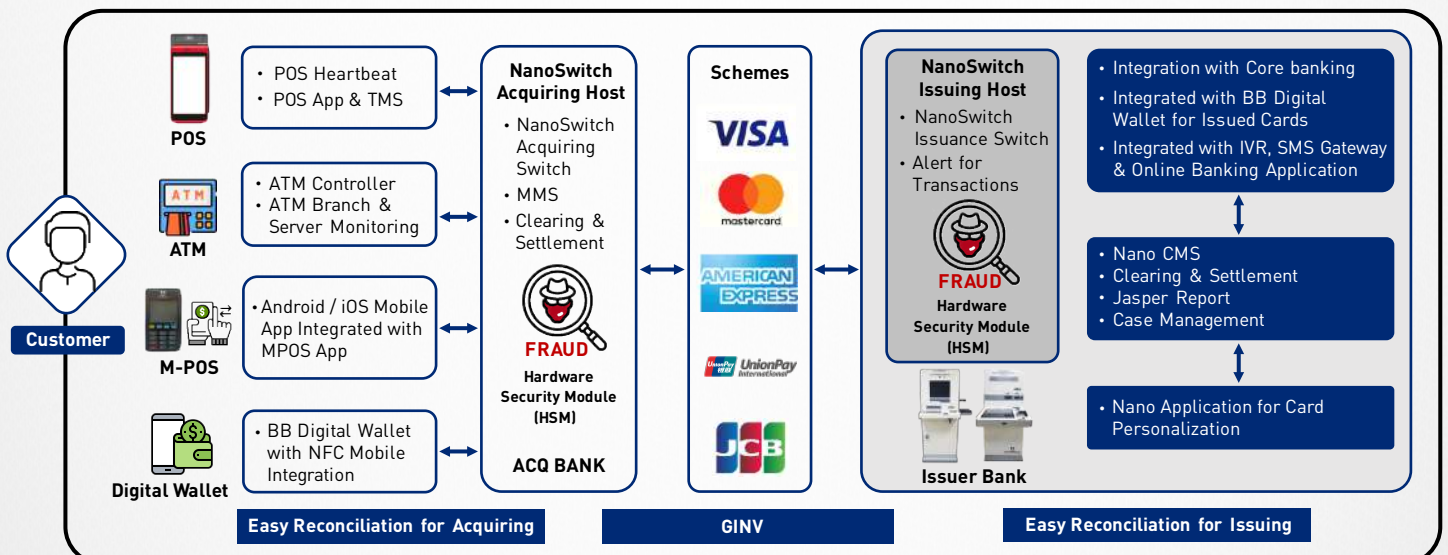# NANO SWITCH

Nano Switch is a multi-channel, open-systems transaction switching platform that has been adopted by many financial institutions and national switches, to provide 24×7 transaction processing, ATM and POS driving. It is a highly scalable, it links to all the major international and domestic card schemes, providing complete management of transaction processing from POS networks, ATMs, mobile and self-service channels.

- At the Bank level, it connects the payment system to the Bank Host, and/or a National switching system, and / or international networks like JCB, MasterCard, Visa & AMEX etc.

- Interbank system level, it interconnects the respective payment systems, and connects to international networks like JCB, MasterCard, Visa, AMEX etc.

- Communications between the different interfaces and systems use the ISO 8583 standard but use the proprietary standards at the system end

- EFT Switch has been developed according to the ISO standards

- Nano Switch is PCI-PADSS certified & full EMV compliant

- All security procedures are evenly based on ISO and PCI-DSS standards

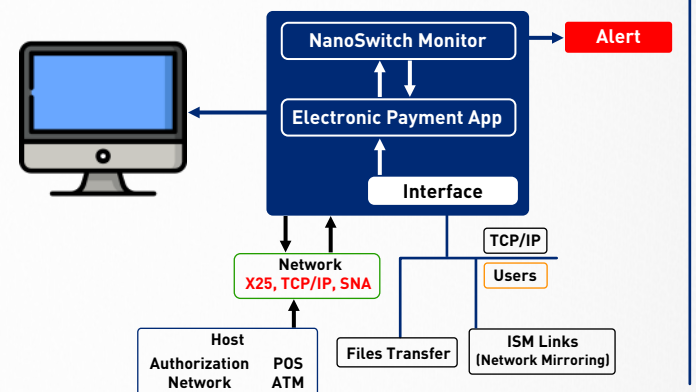- All standardized fields are structured and implemented according to their standards

NanoSwitch:

Front End	Bank End
NanoSwitch Core	
Authorization Module - Stand-In & Routing	Core, Parameter and Admin
Dual Module with Dispute Management	
NanoSwitch for Authorization	Nano CMS for Clearing
Issuing Modules	
Cardholder Module	Credit Module Debit Module Prepaid Module Collection Module
Acquiring Modules	
Merchant Settlement Module	Merchant Management Module
Fraud Management Module	
Transaction Clearing & Settlement Management	
HSM Interface	
ATM & POS Driver	
CBS Interface	
Easy ATM Interface	
NanoSwitch Monitor	
Easy Reconciliation for Issuing & Acquiring	

NANO SWITCH Monitor

This module is designed to control & monitor effective real-time applications 24 x 7. In case of failure of the process, the module automatically redirects transactions toward a process of relief & restarts the process.

NanoSwitch Monitor → Alert

Electronic Payment App

Interface

TCP/IP

Users

Network
X25, TCP/IP, SNA

Host
Authorization POS
Network ATM

Files Transfer

ISM Links
(Network Mirroring)

Platform
- Best practices of object oriented technologies & N-Tier architecture
- Settlement in multiple currencies
- Multilingual Easy interfaces (English, Arabic)

Nano MMS is having support for following Payment schemes on Acquiring
- Mastercard
- AMEX
- Rupay
- Visa
- PAYPAK
- CUP

Integration
- Core Banking
- POS / ATM / Web / Mobile

Infrastructure
- EMV Compliant
- Modular
- ORACLE as DB

Service Offerings
- Development
- Interfaces for integrating with Multiple Systems using Online Messages,SOA files
- GUI based interface
- OLTP ready environment

Scheme Support for both Issuing & Acquiring Nano CMS is having Support for following Payment Schemes on Issuance
- Mastercard
- Visa
- AMEX
- CUP

Implementation
- Payment network Integration & pre-certification support
- Performance tuning & enhancement