



NEWNET SECURE TRANSACTIONS CASE STUDY

Europe's Leading Mobile Payment App Provider Selects NewNet's STC



NewNet
SECURE PAYMENT TRANSACTIONS

Overview

Leading Mobile Application provider in Europe offering Payment applications for Android, iOS, Windows smart devices to transform these as Point of Sales terminals, picks NewNet's STC application for ensuring security of the payment transactions using DUKPT based P2PE cryptographic schemes.

The leading European Payment application provider aims to make payments less complicated and cumbersome for millions of merchants and deliver a software solution which is transforming payment acceptance and the smartphone – with a single tap, every phone becomes a POS and ATM, and with 'cashback' every merchant becomes a bank. This European providers ensure rapid digital deployment with phone and bank agnostic – any smart phone, any bank or acquirer. This application provider seamlessly integrates payment acceptance with a universe of business applications for merchants, including data driven e-commerce tools, automated marketing, loyalty, payroll, etc. They offer merchants a replacement of old and expensive technology with a simple high value added solution.

NewNet's STC application on AWS together with the CloudHSM was selected to deliver top security for this mobile application enabling smart mobile devices to act as secure mobile POS devices for seamless and easy to use payment acceptance. NewNet's STC delivers benefits that include heightened security, faster transaction throughput, unmatched resiliency, seamless expansion, and economic efficiencies.

Requirement/Challenges to Solve For:

The application provider was seeking a high security solution in the Cloud for faster deployment, shorter time to market, high reliability, conformance to the standards, highly scalable and proven ability to offer seamless redundancy and resiliency. ***The key areas of focus included the following.***

Security

The necessity to ensure standards based security of the transactions from these devices, providing protection to the sensitive payment data as collected on these devices and the merchants' systems dealing with the transactions are very critical for end to end security. As the provider expands the solution to large population of mobile devices it is critical to ensure top level security for handling the payment transactions from these devices acting as Smart POS devices.

Performance & Reliability

Ability to deliver and sustain performance availability and highly scalable payment processing systems was key for the solution. Systems and solutions must have the scalability to expand to meet the higher demands of performance over the years.

Redundancy

The solution for securing the Smart POS or Mobile as POS must be integrated closely with the Application providers systems and the Payment Service Provider's systems and must have the highest level of redundancy to suit deployment and payment service models. The need is for a system that can deliver wide level of services uninterrupted and continuously, meet international standards of security and support all relevant security and payment protocols.

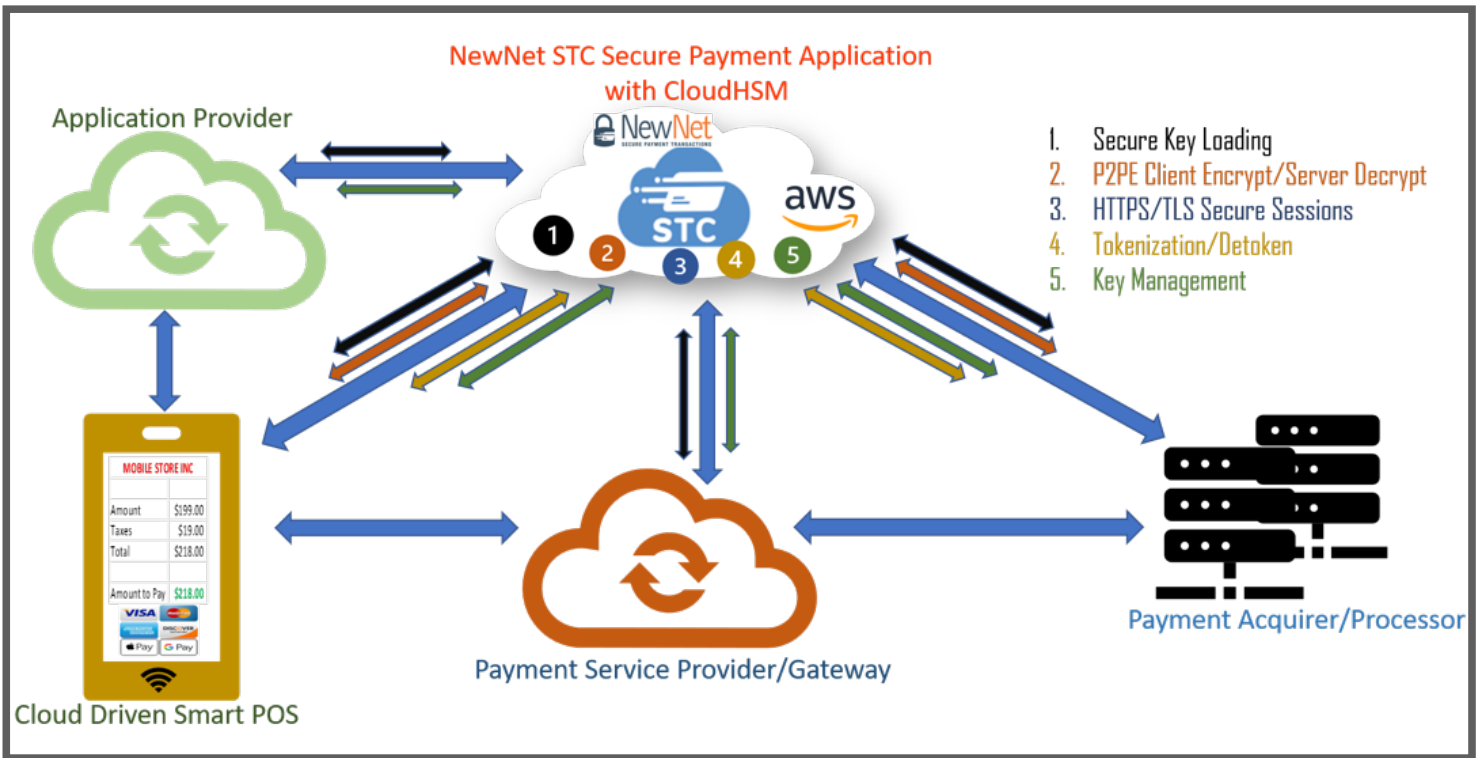
The other generic challenges to solve for:

- Reduce per transaction costs as scale is achieved
- Address risk of fraud and the resulting costs
- Meet ever evolving regulatory compliance



NewNet' Solution of Choice

To address the targeted technical requirements, minimize upfront capital investments and gain pay as you grow solutions, the provider selected a NewNet configuration that includes multiple STC instances consumed in an AWS cloud environment integrated with AWS CloudHSM solutions for security, performance and redundancy. The deployed configuration includes the Common Element Manager (CEM) application which is a graphical tool for configuration, management, monitoring etc.



STC's Benefits for the Provider

NewNet offers enhanced payment security solutions for providing security of payment transactions from Smart POS terminals together with support for the specific messaging protocols. NewNet's STC application is an industry first payment application in cloud for securely acquiring, aggregating, and transporting millions of mobile, broadband, web based POS/ATM transactions, m-commerce and e-commerce payments transactions, mobile wallet payments etc.

1. Security

STC application in the public or private cloud along with CloudHSM delivers the fundamental security capabilities needed to enable safe and reliable transport of financial transactions, security verification, multi-level security for the payment transactions which requires high levels of standards based data encryption, as payment traverses over many network types. Key cryptographic functions include the following:

- ✓ Secure Key Loading to Smart Devices
- ✓ P2PE Client for Data Encryption
- ✓ Secure REST/JSON API interface
- ✓ HTTPS/TLS based data exchange
- ✓ Tokenization for Merchant Datastore
- ✓ High Security Key Management

2. Device Agnostic

NewNet's STC application offers multiple security and payment handling capabilities to provide overall payment security and compliance to security standards for the Smart POS devices based on Android, iOS, Windows OS having mobile payment applications. STC application can be leveraged extensively by Smart POS deploying payment entities including Smart POS device/application vendors, Payment Gateways/PSPs, MNOs and also Acquirers/Banks leasing/renting these smart devices to retail merchant location or similar payment interaction centers.



3. Optimum Processing Power

Cloud deployments have almost limitless and scalable processing capability and storage ensure transaction processing is optimized.

4. Leverage Cloud Infrastructure

STC, with its relevant cloud infrastructure, offers significant benefits to the processing and acquiring transaction processing industry segment including:

- ✓ Geographically agnostic
- ✓ Scalability with rapid creation of additional instances
- ✓ STC is centrally monitored and always current to regulatory requirements
- ✓ Extremely secure/disaster recovery capability, and
- ✓ Elastic computing - pay for the usage and grow on demand

NewNet Value to Smart POS Applications

NewNet solutions unleash the power for millions of mobile devices to securely operate with hundreds of payment applications for merchant POS transactions at the multiple industry verticals including Retail stores, Healthcare, Hospitality, Restaurants, GigEconomy users, Transportation, Entertainment, Travel and much more.

With the crucial security aspects being addressed by the NewNet STC solution, the millions of mobile devices could be seamlessly employed for smart payment acceptance at all global geographies and spanning a multitude of business scenarios. Working together with the solution providers, NewNet application operating on the major cloud service providers together with the CloudHSM, enables the payment solution providers to have their service deliveries to be fully compliant and obtain certifications corresponding to the PCI standards.

Leveraging our global deployments and interactions with the leading Acquirers, Processors across the world, NewNet ensures the rapid integration and seamless interfacing with the backend Acquirers, Processors and Banks to be a smooth and easy process, saving big in terms of time and money required otherwise. Great Mobile application providers and Mobile device manufacturers have a new way to form part of the payment ecosystem in the smart mobile based POS revolution. Mobile Network Operators which would facilitate the mobile data connectivity of these millions of mobile smart devices would find a great opportunity to power up the merchant payment terminals with these smart devices on their networks and realize tremendous new revenue generating opportunities. Payment Service Providers, Payment Gateways also have a great potential to leverage this opportunity.

About NewNet Communication Technologies and NewNet's Secure Transaction Cloud (STC)

NewNet Communication Technologies is a leading provider of innovative payment and communication solutions. NewNet's Secure Payment Transactions BU offers secure payment solutions for global acquirers, processors, payment service providers, Mobile Network Operators, Telcos, FinTechs, ISOs, banks, and financial institutions. NewNet's secure payment systems facilitate payment transaction routing, secure network access and payment data security for the broader payment entities. NewNet transports 1-in-4 transactions worldwide annually.

NewNet's Secure Transaction Cloud (STC) solutions offer NFV based virtualized secure payment applications for transaction transport, routing, and switching with specific Virtual Network Functions (VNF) for security (TLS, IPSec, SSH, HTTPS), transaction protocols (ISO20022, ISO8583, TPDU, VISA, XML), Tokenization, Host Interfaces, Load Balancing, etc. The virtualized capabilities allow the solution to support a wide range of payment types including Internet payments, mobile payments, IoT payments, POS based transactions which are IP/Mobile access based and all forms of eCommerce, mCommerce payments with PCI standards compliant security utilizing HSMS.

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