MERCHANT PAYMENTS

POSITIONING FOR FUTURE SUCCESS

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QUINLAN&ASSOCIATES

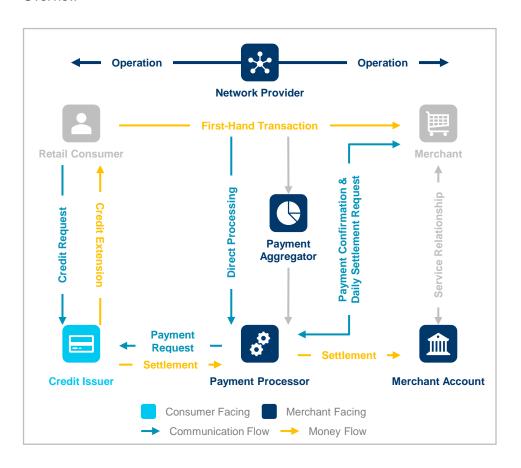


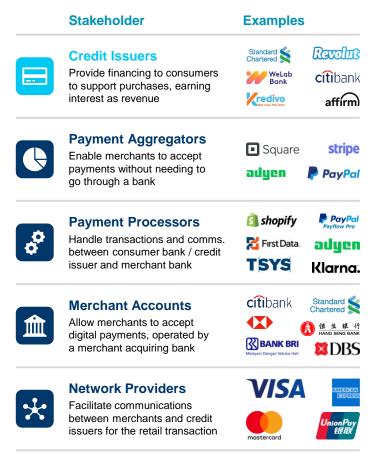
PAYMENTS ECOSYSTEM

The merchant payments ecosystem consists of various players, each with different responsibilities to help enable and execute consumer transactions

Payments Ecosystem

Overview





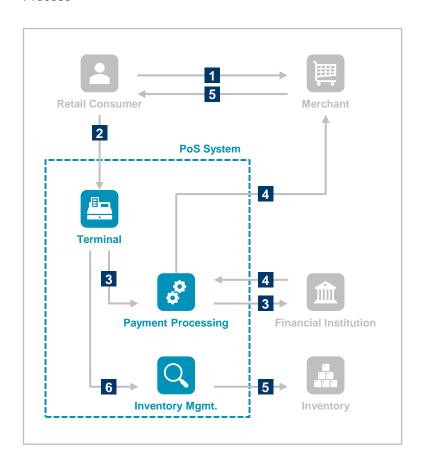


POINT OF SALE ("PoS") SYSTEMS

Merchants implement PoS systems in store (both physical and online) to accept payments from retail consumers, via various channels

PoS Systems

Process



Process Flow Description

- Consumer visits the merchant's store, either online or offline, and chooses to purchase certain products / services
- PoS terminal calculates the total price for the chosen products and offers various channels through which the consumer can pay
- Payment instruction is then passed on to a payment processing system, which is subsequently passed to a financial institution
- Once payment instruction is approved by the financial institution, a confirmation is passed to the PoS system and indicated to the merchant
- Upon confirmation of the transaction, the merchant delivers the purchased products / services to the consumer
- Amount purchased is communicated to an inventory management system, which tracks the inventory status

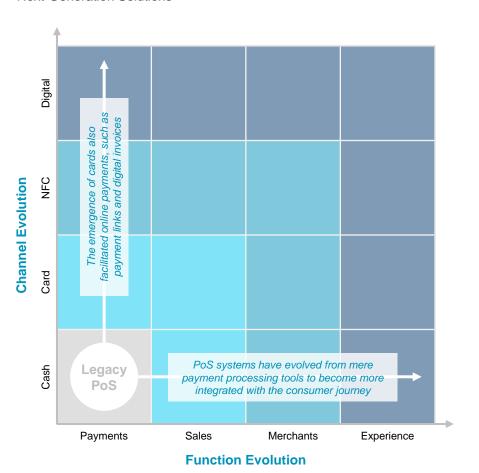


PoS SYSTEM EVOLUTION

PoS systems have evolved over time, both in terms of the payment channels and functions, to enhance the customer journey / experience

Development Direction

Next-Generation Solutions



Channel Evolution

Cash

Cash is the oldest unit for exchange, and PoS systems were set up to facilitate cash-based transactions

Card

PoS systems handled card-based transactions via physical manners, such as swiping and punching

NFC
Non-contact-based transactions for cards, which also enables the adoption of virtual credit / debit cards

Other payment methods are being developed and adopted, such as mobile wallets and QR-codes

Function Evolution

Payments
PoS systems were used only for payment handling and separated from the overall sales process

Sales
Integration with the sales process, providing relevant information to enhance the customer journey

Merchants

New functions added to facilitate merchant operations, such as CRM, inventory mgmt., and business analytics

4 Experience
Additional features are being explored to integrate customer journey and enhance purchase experience



PAIN POINTS

However, PoS systems still present various pain points to both consumers and merchants, suggesting room for further enhancements

Pain Points

Existing Systems



CUSTOMER JOURNEY



Sales Fragmentation

PoS may not fully integrated into the sales experience, resulting in a fragmented journey



Channel Limitations

Most PoS handle limited types of payments, and multiple systems are needed for coverage



Customer Service

Dedicated staff are required, both in-store and online, to address any failures / problems



BUSINESS OPERATIONS



System Integration

PoS may not be interoperable with other systems, requiring additional manual inputs



Hardware Defects

PoS terminals become outdated or defective over time, and need to be replaced



Service Cost

Upfront instalment expense and ongoing service fees required to implement PoS systems



TECHNOLOGICAL SYSTEMS



Internet Connectivity

Network connectivity issues may cause delays and failures during transaction processing



Maintenance & Upgrades

Both PoS hardware and software need to be maintained, incurring additional costs



Security / Fraud Risk

There are identity theft concerns both at the PoS terminal level and for back-end processes

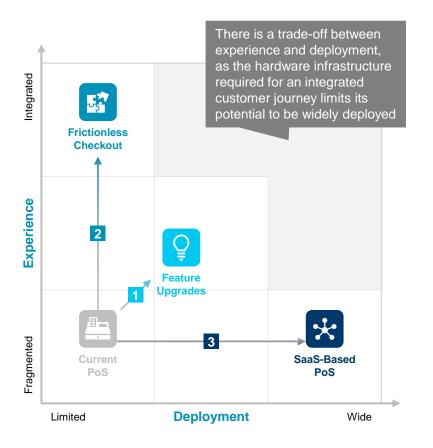


NEXT-GENERATION SOLUTIONS

To address these pain points and enhance customer experience, the industry has been exploring next-generation solutions across three directions

Development Direction

Next-Generation Solutions



1

Feature Upgrades

Additions to a PoS system's hardware or software, providing smoother customer experience or additional functions



2

Frictionless Checkout

Complete integration of the sales process, where payment is made automatically after goods are selected



3

SaaS-Based PoS

Modularised PoS software that can be deployed on any smart devices, enabling scalability of transaction processing





CASE STUDIES

Various companies have pursued all three directions in upgrading their PoS systems, finding different degrees of success

Use Cases

Next-Gen. PoS

Feature Upgrades

Additions to a PoS system's hardware or software

QR Payments



QR codes are increasingly being adopted at PoS systems, with push QR referring to QR codes displayed by merchants and pull QR referring to QR codes shown by customers at purchase

Contactless payment method that only requires a smartphone

Convenient and easy to use, with little customer education required

Potential integration with financial apps for consumer financing

Frictionless Checkout
Complete integration of the customer journey

Amazon Go



Amazon Go is a chain of cashierless stores in the US and UK, where customers use an app to enter the store and can then purchase items without the need to physically undergo the payment process

Completely automated stores without any physical PoS systems

Fully integrated customer experience with little potential for friction

Holistic data collection for business intelligence and consumer analytics

SaaS-Based PoS
PoS software deployed on smart devices

Smartphone PoS



Smartphone (or tablet) applications that enable merchants to receive payments via bank cards with a subscription model, and additional upgrades can be implemented for other payment methods

Easy-to-use PoS solution deployed without the need for initial installation

Remote PoS terminal to facilitate transactions anywhere

Subscription-based model enables scaling according to business needs



KEY BENEFITS

These next-generation solutions focus on addressing various pain points currently experienced by merchants

Benefits

Next-Generation Solutions

NEXT-GENERATION SOLUTIONS SaaS-Based **Feature Frictionless Upgrades** Checkout **PoS Description** Frictionless checkout is fully integrated into a 11 Sales Fragmentation seamless customer journey from entry to exit Customer Journey Many solutions expand payment channel coverage, 11 Channel Limitations but SaaS-based solutions are easiest to deploy SaaS service vendors tend to operate a dedicated 11 **Customer Service** 1 customer service team to address any problems Processes are integrated in frictionless checkout, 11 **System Integration** with all systems being interoperable and automatic Operations Business No specific hardware is required for SaaS-based **Hardware Defects** 11 solutions, and any smart device can be used SaaS services follow a subscription-based model, Service Cost with service costs scaling to business needs Frictionless checkout stores can run independently, **Internet Connectivity** 11 **Technological** without relying on any external connections SaaS solutions are maintained by the vendor and 11 Maintenance & Upgrades upgrades are typically easy to deploy Additional security and protection mechanisms are 11 11 Security / Fraud Risk being developed across all new solutions



Fully Addressed

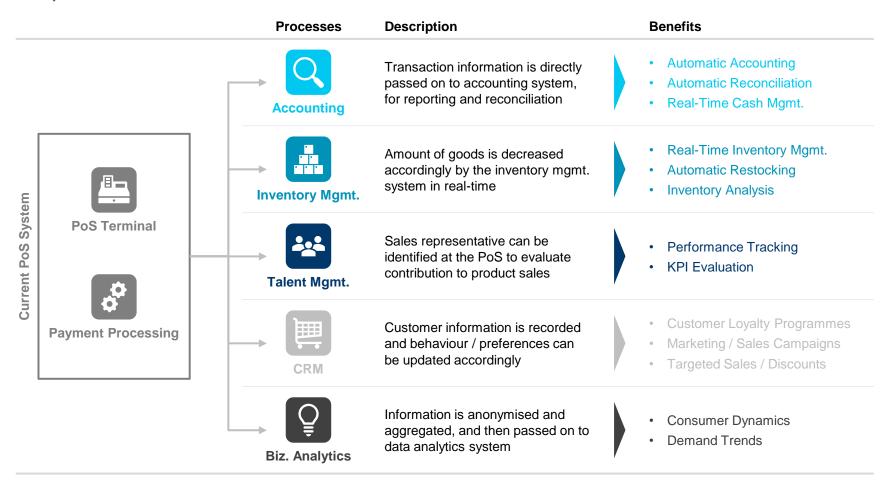


PoS INTEGRATION

In addition to upgrading the PoS system itself, merchants have also been looking to integrate the PoS with their various operational processes

Integration

PoS Systems



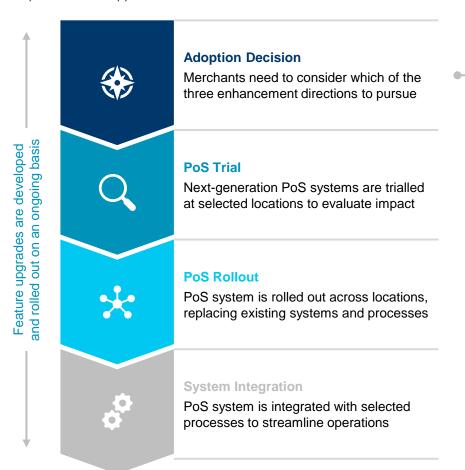


ADOPTION TIMELINE

Merchants need to consider how their PoS systems should be upgraded, taking into account the impact of the PoS on remaining operations

Adoption Timeline

Implementation Approach



DECISION FACTORS



Brand Positioning

Expectations around the impact of PoS on customer journey, based on brand perception



Consumer Behaviour

Payment behaviour of target consumers, especially with regards to payment channels



Existing Pain Points

Ability of new PoS systems to address pain points currently experienced by consumers



Implementation Complexity

Cost and ease of solution implementation, along with ongoing maintenance and upgrades



PoS System Scalability

Potential for the PoS system to be deployed across online and offline locations



HOW WE CAN HELP (1/2) – MERCHANTS

We offer end-to-end consulting support for merchants looking to upgrade their PoS systems, helping them to identify the most appropriate optimisation pathway

Project Approach

Merchants



Industry Evaluation

Review the PoS systems space Evaluate current PoS systems to identify key trends in target to identify gaps against industry markets, focusing on relevant best practices, and work with retail segments / industries, to senior management teams to determine PoS system adoption understand key priorities and and progress of integration operational constraints

- System benchmarking
- Sales process / value chain
- Shortfall identification
- Management interviews
- Prioritisation criteria

Determine the optimal direction of PoS evolution and develop business case to drive stakeholder buy-in, along with KPIs and milestones against which to measure success

- Options evaluation
- PoS system evolution
- Bus. case (cost vs. savings)
- Integration recommendation
- KPIs / metrics establishment

PoS Roll-Out

Establish an implementation roadmap and timeline, along with key stakeholders and project owners, to support the evolution of the firm's PoS systems and processes

- Implementation roadmap
- Timeline and milestones
- Workstream design
- Stakeholder alignment
- PMO support

Identify PoS trends and best practices in relevant segments

PoS systems development

Retail segment adoption

Competitive benchmarking

Product features

Integration trends

Evaluate current PoS shortfalls and capabilities **Determine optimal PoS** evolution route

Support adoption of upgraded PoS systems



HOW WE CAN HELP (2/2) - PoS VENDORS

We advise payment services providers and PoS vendors on their strategic growth plans, include identifying relevant market entry opportunities and product expansion pathways

Project Approach

Merchants



Review consumer-facing industries with PoS demand, to identify key trends in target segments and to understand preferences in PoS system adoption and integration trends

Industry adoption trends

Merchant preferences

Product requirements

Integration trends

Evaluate the target's current PoS business, in terms of market presence and product suite, supported by mgmt. interviews to understand aspirations and constraints

- Market presence review
- Product evaluation
- Capability benchmarking
- Management interviews
- · Prioritisation criteria

Determine suitable opportunities for corporate growth across key target markets, industry segments, and product offering, along with KPIs and milestones to measure success

- · Options evaluation
- Market entry
- Industry prioritisation
- Product suite expansion
- KPI establishment

Establish an implementation roadmap and timeline, along with key stakeholders and project owners, to support the execution and implementation of

Implementation roadmap

the target's growth strategy

- Timeline and milestones
- · Workstream design
- Stakeholder alignment
- PMO support

Identify PoS trends and suitable retail opportunities

Competitive benchmarking

Evaluate the target's PoS presence and capabilities

Determine optimal growth route for the PoS business

Support execution of the established growth strategy



STRATEGY WITH A DIFFERENCE