How our main markets are evolving

PAYMENT & IDENTITY

The digital age is creating countless opportunities to deliver services more conveniently and efficiently. At the same time it is also creating ever greater demand for solutions that protect transactions, data and identities, combat fraud – and help bring trust.

Payment
Shipments of smart payment and banking cards worldwide will increase from 4.2 billion in 2014 to 9.1 billion in 20201, driven by the adoption of EMV2 in major countries like the US and China.

Strong growth is also forecast for online payment, doubling from 79 billion remote transactions in 2015 to 163 billion in 2020. By then, 69% will be made via mobiles and tablets3.

With contactless and NFC as further drivers, demand for protection and authentication is constantly rising.

Enterprise Security
Since 2013, more than 3.6 billion personal and financial data records have been stolen or lost worldwide1.

With the growth of cloud-based services, big data, mobility and social media, enterprises are realizing that perimeter security alone is not enough to protect sensitive data and identities. As a result, more organizations are moving to protect their sensitive information with encryption, strong authentication and user access controls.

Recent reports forecast the value of the worldwide Identity & Access Management (IAM) market to grow at 8% CAGR to 20192.

Government
The public sector globally is adopting ‘eGovernment’ which, with state-issued eID, cuts fraud and red-tape, and offers citizens the convenience of online services. With mobile access rising fast, there is an increasing need to protect data and authenticate users.

120 countries are also issuing contactless travel documents which, with the ICAO’s1 global Traveler Identification Program, enable access to automatic border gates as well as fast-track immigration and visa services.

1 International Civil Aviation Organization

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1 Source: IHS Technology
2 Source: Juniper Research
3 Source: HCI Technology

VALUE OF REMOTE (MOBILE & ONLINE) TRANSACTIONS 2020
$4.4 trillion
Source: Juniper Research July 2015

DATA RECORDS EXPOSED BY BREACHES IN 2015
700 million
Source: Breach Level Index

PENETRATION OF eDOCUMENTS IN TOTAL OF ALL GOVERNMENT DOCUMENTS IN CIRCULATION

2.1bn  3.9bn
26% CAGR  13% CAGR  37% CAGR

Source: ABI research
Mobile connectivity is bringing consumers a convenient digital life, wherever they go. Services are proliferating on the many devices they carry. And machines are increasingly connected in the rapidly expanding ‘Internet of Things’. Ultimately, every business needs a mobile strategy, and their services must be secure.

Mobile Communications

Mobile devices are delivering more and more services. In payment, issuers wanting to deploy their digital cards on mobile frameworks are driving the need for global TSH infrastructures, providing banks with reach, autonomy and future proof security. Simple, robust technologies supporting NFC are also accelerating its adoption. MNOs are answering the growing need for secure access to online services in a new role as identity providers. Everywhere, the security of the mobile ecosystem needs continuous attention to counter cyber threats.

1 TSH: Trusted Services Hub

Internet of Things

Industrial applications

Internet connectivity is moving beyond laptops and smartphones to encompass virtually everything – from cars and smart meters to medical devices and home appliances. This is creating the Internet of Things (IoT), the combination of connected devices and software that produce, receive and analyze data – and so generate increasing demand for protection and authentication.

There will be 38 billion such devices by 2020, and the global value of the sector will then be $290 billion, more than doubling from $138 billion in 2015.

Consumer electronics

People have an increasing number of connected devices such as tablets and wearables which in turn are changing the way they consume services. This is driving the need for flexible mobile connectivity, convenient service provisioning and security.

Growing consumer confidence in these devices will add momentum to the trend for mobile contactless payments, authentication, ticketing and enterprise applications.

Sources: Juniper Research 2015