Smart Card Alliance

Smart Card Talk

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A Controlled Approach

Dear Members and Friends of the Alliance,

There's a lot going on in the smart card industry. I know it seems as if my letters either begin or end with that statement, but at this juncture, we are particularly busy, and privileged to be so. The Smart Card Alliance is putting the final touches on our Annual Government Conference later this month, while at the same time working at an accelerated pace to keep up with the membership and activities in the EMV Migration Forum. All our work is focused around taking control of something and adding coordination, cooperation, participation and communication. If you're not already part of either organization, I strongly encourage you to do so. I know that whenever I am actively involved, I feel as if I'm making a noticeable difference for the better. I invite you to do the same.

As always, thank you for your support of the Alliance.

Click Here to Read Letter ...

Feature Article:

EMV and NFC: Complementary Technologies that Deliver Secure Payments and Value-Added Functionality

While the U.S. starts its move from magnetic stripe to secure EMV chip technology for payments, another new technology is emerging to make transactions more convenient – NFC-based mobile payments. Are EMV and NFC complementary? Will one impede the progress and acceptance of the other? This month's article discusses how EMV and NFC work together to deliver secure payments.

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Member Profile:

C-SAM

This month Smart Card Talk spoke with innovative mobile leader Barbara Ballard of C-SAM, who is Vice President of Customer Experience and Marketing for the mobile technology transactions company. Ms. Ballard brings over 10 years of mobile user experience to her role, drawing on her past engagements across the entire mobile ecosystem.

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About Smart Card Talk

Smart Card Talk is the monthly e-newsletter published by the Smart Card Alliance to report on industry news, information and events and to provide highlights of Alliance activities and membership.

About the Smart Card Alliance

The Smart Card Alliance is a not-for-profit, multi-industry association working to stimulate the understanding, adoption, use and widespread application of smart card technology.

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A Controlled Approach

Dear Members and Friends of the Alliance,

As I write this, I am attending the Cartes 2012 exhibit and trade show in France, where smart technologies for security, payment, identification and mobility are being showcased by the world's leading industry players. Back in the U.S., I left behind in the state in which I live, New Jersey, people everywhere who are longing for the basic needs of electricity, heat, and internet after their lives were shattered by a devastating storm that raged through entire communities with a force unexpected even by the most experienced storm veterans. And by the time I arrive home and you are reading this newsletter, the country may have a new president.

While this opening sounds like the makings of a non-humorous "Saturday Night Live" monologue, what reveals itself most is how vulnerable we are to things beyond our control. My general attitude is one of optimism, however, so I prefer to think of the things that I am grateful for and focus on the things we can control that will have a positive impact on our lives. We can't control the weather or shape our political environment, but we can choose to have a secure identification option that erases the worry of being a victim of identity theft. We can elect to have our medical records stored electronically, available to any physician within seconds. We can opt to have our Medicaid or Medicare payments delivered to us securely. And so in a couple of weeks, we're going to shift our attention to the positive changes we can control in the government identity, security, and healthcare markets as we welcome the 11th Annual Smart Card Alliance Government Conference scheduled for November 28-29 in Washington, DC.

Our scheduled agenda is as timely as can be, with workshops focusing on mobile devices and the applications those devices can support, including storing and using identity credentials, access control applications, and logical access cases. You'll learn about projects already underway as well as new initiatives planned.

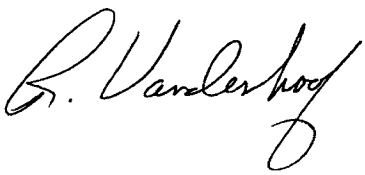
We are fortunate to have keynote sessions from two of the top names in identity management: Jeremy Grant of the National Strategy for Trusted Identities in Cyberspace (NIST), and George Schu of Booz Allen Hamilton. Track sessions and usage cases will also be presented, networking will be in abundance, and our exhibitors are looking forward to meeting with the several hundred Alliance members, government colleagues and industry friends who plan to gather for this annual fall government identity and security conference.

I encourage each of you to make the most out of your Smart Card Alliance membership and attend this event from the front row. I can assure you that the experience will leave you enriched.

Lastly, I have also been focused on another big issue that has to do with control – the rapidly evolving EMV migration plan for the U.S. The EMV Migration Forum, the new association launched in August has, in just over two months, reached 60 new member companies, with four active working committees that hold weekly conference calls addressing the crucial issues related to EMV in the U.S. These committees have scheduled in person meetings at the Forum's December 6-7 meeting hosted by Visa, and they are already talking about meeting again at the 2013 Payments Summit in Salt Lake City.

Thank you for your support of the Alliance and the EMV Migration Forum. I look forward to seeing you in DC and Foster City, and Salt Lake City.

Sincerely,



Randy Vanderhoof
Executive Director, Smart Card Alliance
Acting Director, EMV Migration Forum
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Industry Leadership

Dear Members and Friends of the Smart Card Alliance Latin America & the Caribbean,

Last month, SCALA held an Advisory Board of Directors meeting in Miami, Florida, with participation from Gemalto, Giesecke & Devrient, Magicard, MasterCard Worldwide, Oberthur Technologies, Safran Morpho, Visa Inc., and representatives of the U.S. Smart Card Alliance. Our industry leadership plans to engage our general membership so that we develop a coordinated effort to unite the industry under SCALA to help guide the marketplace into the future.

The Advisory Board reviewed SCALA's year to date operational report that included activities, membership development, Council participation, deliverables, industry outreach, educational progress, and plans for the future of our industry. We had a lengthy discussion about our industry's future as any decision will greatly impact both our region and industry for years to come.

Among the topics discussed included:

- The EMV Tour conference event calendar, locations, and dates for 2013
- The SCALA Center of Excellence
- The SCALA Annual Conference
- A SWOT Analysis (Strengths, Weakness, Opportunities, and Threats)

Our Leadership Council members have decided to reach out to all institutions and their representatives, who are considered valuable to the market and our industry, to join SCALA and take a leadership role in our industry. The Board feels it is vitally important that industry representatives outside of SCALA's membership begin to take on some of the responsibility to help lead our industry. It was agreed that this would require a fundamental change in their vision, scope, and mindsets. These representatives will have to begin thinking beyond their individual organizations and towards the development of our industry, represented by SCALA.

This will add strength to the collaborative efforts of the industry to develop impartial resources and activities for the market.

This is why I invite all industry participants to begin expanding their role in influencing our marketplace with knowledge, awareness, and impartial education; this approach will help to develop business opportunities that benefit all market participants and contributors.

Below is a picture of our industry leadership for Latin America and the Caribbean. I encourage you to take the time to engage these representatives and ask them how you and your organization can get involved in the Smart Card Alliance Latin America & the Caribbean, if you're not already engaged.

(From Left to right: Randy Vanderhoof, Dimas Gomez, Juan Pablo Mejia, Eric Megret-Dorne, Antonio Muñoz, Ian Walmsley, Kim Hangoc, Luis de la Cruz, Cathy Medich, Fernando Mendez, and Edgar Betts)

Have a wonderful month.
Sincerely,

Edgar Betts
Associate Director,
Smart Card Alliance Latin America (SCALA)
Direct Line: +507-225-9089,
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This month Smart Card Talk spoke with innovative mobile leader Barbara Ballard of C-SAM, who is Vice President of Customer Experience and Marketing for the mobile technology transactions company. Ms. Ballard brings over 10 years of mobile user experience to her role, drawing on her past engagements across the entire mobile ecosystem. She has worked with mobile startups, mobile operators and companies in numerous related verticals in between. Prior to joining C-SAM, Ms. Ballard held management positions at a variety of mobile commerce companies, and has also helped majors like AT&T, Sprint, LG, The Weather Channel, Hallmark and Skyfire develop and deliver exceptional user experiences. Ms. Ballard, who is author of the 2007 book "Designing the Mobile User Experience," has degrees in industrial engineering and business. She has also completed significant graduate work in ergonomics, psychology, industrial design, and industrial engineering.

1. What is C-SAM's main business profile and offerings?

C-SAM was founded in 1998 and is a pioneer in secure mobile transactions technology offering a range of mobile phone based applications for financial as well as non-financial services. Based in the U.S., with operations in Singapore, Japan and India, our customers are mobile network operators, large merchants, industry consortia, financial institutions, payment service providers, and specialized verticals like government and healthcare.

Our Mobile Transaction Platform (MTP) is an enterprise-grade infrastructure platform, with a secure (mobile phone optimized) client and secure server. This is our 4th generation platform, which we have enhanced over the past 12 years, and for which we have been granted 11 patents with an additional 35+ patent applications pending. MTP creates a secure, reliable environment for users to easily access personalized services from their mobile phones, enabling service providers to securely and reliably extend business services to the mobile environment for remote and proximity transactions.

The client, consisting of a wallet with secure token and transaction management for remote and proximity transactions, and related service modules for various financial and non-financial services, is a user-friendly, device-centric application installed on the mobile device. The platform supports various channels, including NFC, SMS, USSD, and WAP, the client application is available for all popular mobile platforms including Apple iPhone, Windows Mobile, Android, J2ME, BREW and RIM Blackberry handsets, with additional ability to leverage native smart phone features.

The server provides the necessary frameworks, components, messaging, security, and utilities, supported by interfaces to various host business systems in the ecosystem, to fulfill various business services. The server enables configuration of services based on use-cases, transaction tokens, trust models, and personalization of the user experience, channels and admin utilities. The server is developed with Java/J2EE and supports all popular application servers and databases.

2. What role does smart card technology play in supporting your business?

The mobile transaction ecosystem is beginning to thrive, and C-SAM sits at its center, with a mobile transaction platform that is agonistic to device and technology type. We support all payment technologies, including smart cards, and in this way we can meet the needs of any mobile wallet operator, merchant, or financial services organization.

Our view is that smart cards and wallets are not just about payments. Rather, they are two key technologies within the secure mobile transaction market. C-SAM looks holistically at the whole transactions picture, not just the payments portion. Mass transit, airlines, and medical records are just a few examples of non-payment services within the larger secure transaction market where smart cards and wallets play role.

3. What trends do you see developing in the market that you hope to capitalize on?

The clear global industry momentum behind mCommerce services, as reflected by announcements from Isis, Everything Everywhere, Merchant Customer Exchange (MCX), just for starters. There is a great deal of opportunity for enterprises, app developers, brands, merchants, and service providers to rollout new mCommerce capabilities, but the key to success is to personalize their service offerings to better enable them to acquire consumers.

Even after significant growth in e-commerce and Internet-based transactions, still about 95% of the transactions in the world take place at the point of sale terminal. A true digital wallet with capability to support such transactions opens up a whole new world of

opportunity for banks and service provider to tap in to the proximity transaction space.

C-SAM Founder & Chairman, Dr. Sam Pitroda, has said that the "Mobile wallet will change money as we have understood for 6,000 years." From our perspective, it's not just a change to payments, but to other value-added, non-payment services that can be driven through a mobile wallet -- mobile banking, money transfer, bill payments, ticketing, coupons, loyalty, advertising, education, city services, mobile health and more. C-SAM views a world where every transaction from making a mortgage payment to buying groceries, paying a cabbie, buying a movie ticket, paying for parking, buying a snack from a vending machine, filling out an expense report, or voting for public officers, will be done by clicking a few buttons on your mobile phone.

4. What obstacles to growth do you see that must be overcome to capitalize on these opportunities?

Fragmentation of user experience for mobile wallets must be overcome. What does this mean? There are merchant wallets; Isis and Everything Everywhere; Paypal; Google; Microsoft; and any number of credit-card companies. Consumers are confused. Which one do you use when you go to the store? Do you need to have 20 different merchant apps on your mobile device just to go shopping? How do you pay?

On top of that, the different payment technologies and methods (e.g., cloud, NFC, etc.) and determining which mobile devices support those methods can cause confusion among consumers.
Layer on top of all of this the need to make the customer experience more compelling and more convenient than simply handing over a plastic credit card, and you can see how mainstream consumers may struggle with adoption of mobile wallets.

Ultimately, our mission is to help our customers enhance the relationship between merchants and end users when using a mobile-wallet service by leveraging the just-in-time power of mobile and big data to create high-touch relationships at low cost. The big opportunity lies in making mobile wallets a lifestyle enabler that can be personalized, reduces complexity, and provides a strong customer experience despite the fragmentation.

5. What do you see are the key factors driving smart card technology in government and commercial markets in the U.S.?

C-SAM views the U.S. as an early mover in forming strategic mobile transaction ecosystems such as ISIS, and as other regions adopt this model to drive scale in mobile transactions, we intend to replicate its success in other parts of the globe.

We're addressing the user experience challenges with mobile wallets head on. Our mission is to help our customers enhance the relationship between merchants and end users when using a mobile-wallet service by leveraging the just-in-time power of mobile and big data to create high-touch relationships at low cost.

We expect some standardization of mobile wallets as the industry matures. However, we also need room to innovate new end-user experiences for what may be perceived as niche applications because that's how we will personalize how consumers interact with mobile wallets. Taking a lesson from the Smartphone Wars, who says we all need an oversized screen on our handsets that doesn't fit in our pocket and requires a special purse to carry? Some people may like smaller screens.

The big opportunity lies in making mobile wallets a lifestyle enabler that can be personalized, reduces complexity, and provides a strong customer experience despite the fragmentation.

6. How do you see your involvement in the Alliance and the industry councils helping your company?

The Alliance is beneficial to C-SAM and the industry by fostering the cooperation that is necessary to create new payment solutions and advance adoption among customers and consumers. We partner and work with a number of Alliance members and believe that mobile network operators, financial institutions, and merchants all need to work together in order to aggregate and inter-connect multiple parties in the payment ecosystem into one seamless interface for users.

Member point of contact

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EMV and NFC: Complementary Technologies that Deliver Secure Payments and Value-Added Functionality

EMV™ (Europay, MasterCard™, Visa™) is a global standard for secure and convenient payment using bank cards and the EMV payments infrastructure. EMV provides protection against the use of counterfeit, lost, or stolen cards for payment and against skimming. Issuers, merchants, consumers, and acquirers/processors all benefit from EMV.

The United States is the last market to migrate to EMV. Acquirer processors must support EMV transactions by April 2013. Beginning in 2015, card issuers and merchants accepting credit and debit cards will be affected by the fraud liability shift established by the payment brands. [1]

While the U.S. payment market is now moving to EMV, Near Field Communication (NFC) technology is emerging as a useful vehicle for consumer transactions. NFC is a communications technology that enables proximity-based communication between applications on mobile devices, tablets, personal computers, and other consumer electronic devices. The technology supports an extremely simple man-machine interface, facilitating the use of NFC for a number of functions, including smart posters, identity validation, mobile coupons, mobile advertising, ticketing, mobile payments, access control, information exchange, person-to-person payment, and social networking.

According to Gartner, smartphones will constitute over 90 percent of the overall installed handset base by 2014. [2] The Mobile Movement Study of 2011 found that 70 percent of shoppers use a smartphone while shopping in a store, and 74 percent made a purchase as a result of using a smartphone. The smartphone is becoming the platform of choice for shopping and represents a unique opportunity for retailers to engage with customers. Consumers today are using smartphones to complete financial transactions, evaluate products and services, and participate in merchant loyalty programs. NFC enables consumers to take this interaction to the next level. NFC can improve the consumer experience and the merchant's ability to reach prospective customers, and build loyalty with current customers.

The *NFC Times* found that there were less than 40 million NFC handsets worldwide in 2011. However, according to iSuppli's August 2011 forecast 544.7 million NFC handsets will be in use by 2015 (31 percent of all mobile phones); Informa Telecoms & Media predicts that by 2015, 630 million handsets will ship with NFC, representing 40 percent of all mobile phones.

These developments raise some important questions. Are EMV and NFC complementary? Will one impede the progress and acceptance of the other? How do they fit together? Is it possible to "leapfrog" EMV payments and head straight to NFC mobile payments?

EMV Implementation in an NFC Mobile Device

The implementation of EMV within an NFC mobile device is defined here as the use of an NFC-enabled mobile device in contactless card emulation mode. Operating in this mode, a mobile device can present EMV data over the contactless interface from an EMV-compliant payment application that is stored in the mobile device.

EMVCo has defined multiple specifications to support contactless payments:

- Application level data functionality
- The physical security of the devices in which EMV payment applications reside
- The EMV contactless interface

The EMV specifications define which contactless communications interfaces are supported for payment transactions. Both EMV and NFC support the same ISO/IEC 14443 standard contactless protocol.

EMV for Mobile Devices

EMVCo has published a number of documents to define how an NFC-enabled mobile device should implement an EMV-compliant payment application. These documents include:

- A common set of basic functional requirements for mobile devices
- The common user interface functions for EMV mobile contactless applications
- Requirements for product type approval

These documents reference GlobalPlatform standards that define the platform for the SE and the management of applications within the SE. The payment brands define the mobile contactless payment application functionality offered by their own contactless scheme (as shown in Table 1).

Table 1. Payment Brand Contactless Brand Name

Payment Brand	Contactless Brand
American Express	ExpressPay
Discover	Zip
Interac	Flash
MasterCard	PayPass
Visa	payWave

Mobile Contactless Enhanced Processing

Using a mobile device can facilitate contactless transactions. The application is now hosted in a device with features and functionality that a traditional chip card lacks, such as a keyboard and a communications channel for application management.

The transaction flow between a contactless reader and a mobile contactless payment application is defined by the EMVCo or the payment brand. Mobile contactless transactions that follow the current contactless transaction flow would offer the same cardholder verification methods: PIN, signature, or no cardholder verification (for low value transactions).

Mobile devices also provide additional capabilities for cardholder verification, including the ability to add an offline passcode that is verified by the application on the mobile device. The EMVCo contactless specifications for mobile devices allow cardholder verification to be done either by a POS terminal or by a cardholder device (e.g., a mobile phone).

In addition, even when the offline passcode is not required and the payment could therefore be performed with a mobile device with no or low battery, most mobile payment initiatives require the mobile device to be powered on and active for the payment to be conducted. This ensures that the appropriate messages can be passed to the user through the mobile device's user interface and prevents the mobile device transaction information from being read without the user knowledge or consent.

Similar to an EMV dual-interface card form factor, a mobile NFC-enabled device offers not only an NFC interface to perform a contactless transaction but is also accessible over the air by the payment credential issuer. Unlike a chip card which can only be accessed by the issuer at the time of an EMV transaction, a mobile device is continuously connected to a mobile network and allows issuers to better serve their customers. It is now possible to enhance the traditional interaction between consumer and merchant with value-add services such coupons/promotional offering and real-time account management.

NFC Mobile Device Architecture and EMV

In an NFC mobile device, payment functionality is divided between the user interface and the payment brand's mobile contactless payment application. The user interface functionality may be specifically developed for each particular mobile device and operating system but should follow the same functional principles. The user interface facilitates application management, application selection and cardholder verification. Payment transaction processing is a responsibility of the payment application itself.

The payment application and the consumer's payment account information are stored in the SE. The SE in an NFC-enabled handset can be in one of three locations: in an embedded device; in a removable SIM/UICC or as a separate device (e.g., a microSD card) (Figure 1). [3]

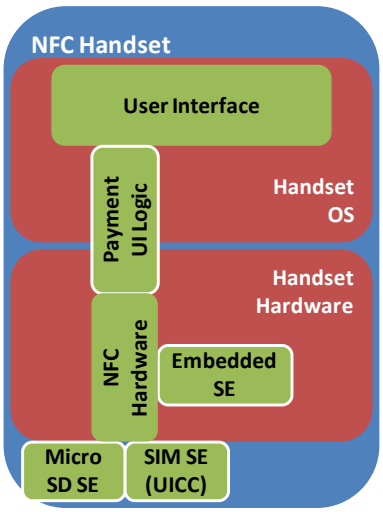

Figure 1. Simplified NFC Mobile Device Schematic

All of the SE technology described above employs the same security and functional architecture, following standards established by EMVCo and GlobalPlatform. The payment application residing on the secure element is in fact in many cases an enhanced version of a market-proven payment application residing on millions of EMV cards today.

Mobile Wallets

Consumers will be able to view and manage mobile payment cards and other applications (e.g., coupons, loyalty programs) through the mobile wallet graphical user interface. Mobile wallets may be

developed by the banks, but other organizations will develop their own wallet applications as well.

A mobile wallet application will typically let the end-user activate or deactivate a mobile payment card and may let the user rearrange the cards in a preferred order. EMVCo has been formalizing the card management and the card's presentation to the end-user in the Application Activation User Interface specification (AAUI). AAUI defines a framework of minimum functional requirements of a mobile wallet, which will likely be refined through business agreements. For example, in the European model defined by AEPM, only one card may be active at a time, but other models may be adopted.

In particular, AAUI defines new requirements for the Proximity Payment Systems Environment (PPSE) application, which is a standard application that is used by contactless terminals to determine which of the active applications should be used for payment. So far, the approval of the mobile wallet applications is defined by the payment brands.

Provisioning Accounts

When the consumer requests a mobile payment service, the service provider must check that the consumer is eligible for the service – that is, that the consumer's mobile environment is compatible with the service (e.g., mobile network, mobile device type, secure element capability).

Once the eligibility check is done, the payment account must be provisioned onto the NFC mobile device. The payment data to be loaded onto the mobile device will likely be very similar to the data used for the personalization of traditional payment cards. Therefore, the issuers of both traditional cards and mobile payment cards should make sure that the personalization profiles created for card applications can be upgraded to NFC applications without introducing major changes in the profile structure or personalization process.

However, the fact that the creation of personalized payment data for an account must be created in real time presents a significant challenge using current card production systems. Currently, most systems deliver payment data for credit and debit products directly to the card manufacturer, typically in a batch file.

A new model for provisioning has emerged to address the difficulty of personalizing products for NFC-enabled mobile devices. Personalized account information is sent over-the-air (OTA) to mobile devices using trusted service managers (TSMs), third parties who work with the payment account issuer and the mobile operator. The OTA approach requires that the process be managed from the point at which the payment product is requested through delivery. Although OTA provisioning uses a new channel of transporting payment credentials securely, it relies on the same foundation defined by EMVCo in terms of formatting the data (using ECPS - EMV Card Personalization Specifications), and ensuring the highest level of security and confidentiality by using industry-proven cryptographic standards defined by EMVCo and GlobalPlatform.

During delivery, a customer may have to accept multiple downloads. The application must then be made available for use over the user interface, either through the EMV user interface or through a proprietary (wallet) process.

Mobile payment accounts are typically either prepaid accounts or a credit or debit account that is a companion to a current customer account. Mobile payment accounts are typically associated with accounts that also issue a physical plastic card, to accommodate use at acceptance points that are not enabled for contactless transactions. The model for issuance varies among providers.

- The Isis™ Mobile Wallet is expected to facilitate standardized integration of payment applications from a number of issuers (including American Express, Capital One, and Chase) into the secure element.
- Google Wallet has partnered with MasterCard and is implementing a solution based on a payment application loaded within the embedded secure element of the phone. This application can then be linked any payment card, whose details are held centrally within a cloud-based wallet. The service also supports Citibank customers loading their payment card details onto the secure element.

In the UK, Orange and Barclaycard offer a prepaid product with Quick Tap. Orange and Barclaycard install their payment application in the SIM SE during the manufacture of a SIM for QuickTap; the SIM is associated with the consumer later.

EMVCo is specifying deployment models with specific SE structures and hierarchies to guarantee fully secure provisioning. In addition, payment brands also have adapted their requirements for certification for the TSM and the OTA provisioning process.

Summary and Conclusions

EMV was introduced in 1996 as a globally interoperable payment standard, with the objective being to reduce fraud. Europe has witnessed a dramatic reduction in the amount of lost, stolen, and counterfeit card fraud since 2005, while fraud activity has tended to increase in the United States. The four major U.S. payment brands have therefore coordinated key milestones for U.S. implementation of EMV. Meanwhile, the United States is one of the largest contactless payments market in the world. In addition, a number of high profile NFC deployments are either in pilot or under way.

Implementing EMV at the same time that NFC spreads makes sense. The three payment technologies—contact EMV, contactless EMV, and NFC in contactless card emulation mode—are standards-based and interoperable within a payment brand. Not all consumers will adopt NFC mobile payments immediately.

For those who do, the NFC mobile payment applications will typically be offered with companion plastic cards, to ensure universal acceptance at merchants without contactless readers. The EMV mobile payment application on the NFC mobile handset will be compatible with the EMV contactless acceptance infrastructure used for cards. As an additional safeguard for privacy, payment applications on NFC mobile phones can optionally include an additional layer of security, requiring a PIN to be entered on the handset to release payment details from the handset and confirm a payment.

Banks are under no mandate to issue EMV cards but are likely to issue EMV-compliant cards widely by 2015 to be ready for the fraud liability shift in October 2015. In addition, NFC mobile payment applications are starting to emerge in 2012, with prominent deployments in the U.S.

Consumers should find the safety and security of compromise-free cards appealing, and NFC mobile contactless payments offer attractive additional functionality. Payment applications can reside in an NFC mobile wallet, which can house other payment-related functions, such as coupons, offers, transit tickets, and loyalty applications. While these applications are technically feasible on multi-application chip cards or in the cloud, the mobile device's user interface makes them more appealing and easier to use.

Merchants should consider meeting the EMV milestones and preparing for all payment interfaces: EMV contact and EMV contactless. Doing so minimizes fraud exposure after the liability shift, ensures that all U.S. and foreign customers are able to perform transactions using their cards and mobile devices, reaps the benefits of PCI audit and account data compromise relief offered by the payment brands, and positions merchants to accept NFC-enabled EMV mobile contactless payments, as well as other NFC-enabled retail applications (e.g., loyalty programs, coupons and offers).

For the payments industry, adopting EMV could allow the U.S. market to reclaim a leading position, leapfrogging the rest of the world with EMV contactless and NFC-enabled EMV mobile contactless payments deployment. Fraud can be reduced, and the next generation of payments innovation can flourish.

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References and Notes

[1] Additional information on the payment brands' timelines, incentives and mandates for EMV migration can be found on the Smart Card Alliance EMV Connection website.

[2] Gartner Inc., *A New Age of Mobile Services*, Oct. 29, 2010.

[3] A discussion of these different approaches can be found in the Smart Card Alliance white paper, *The Mobile Payments and NFC Landscape: A U.S. Perspective*.

About this Article

This article is an extract from the Smart Card Alliance Payments Council white paper, Mobile Devices and Identity Applications, which describes how EMV and NFC complement each other and work together.
Payments Council members involved in the development of this white paper included: Accenture LLP; Acumen Building Enterprise, Inc.; Apriva; Capgemini USA Inc.; Chase Card Services; Clear2Pay; Connexem Consulting; Consult Hyperion; Datacard Group; Exponent; First Data Corporation; FIS; Gemalto; Giesecke & Devrient; Heartland Payment Systems; Identification Technology Partners; Infineon Technologies; INSIDE Secure; Interac Association/Acxsys Corporation; NACHA–The Electronic Payment Association; NagraID Security; NXP Semiconductors; Quadagno & Associates; TSYS; Visa, Inc.; Watchdata Technologies Pte Ltd.

About the Payments Council

The Smart Card Alliance Payments Council focuses on facilitating the adoption of chip-enabled payments and payment applications in the U.S. through education programs for consumers, merchants, issuers, acquirers/processors, government regulators, mobile telecommunications providers and payments service providers. The group is bringing together payments industry stakeholders, including payments industry leaders, merchants and suppliers, and is working on projects related to implementing EMV, contactless payments, NFC-enabled payments and applications, mobile payments, and chip-enabled e-commerce. The Council's primary goal is to inform and educate the market about the value of chip-enabled payments in improving the security of the payments infrastructure and in enhancing the value of payments and payment-related applications for industry stakeholders. Council participation is open to any Smart Card Alliance member who wishes to contribute to the Council projects.

OCTOBER 2012 WEB STATISTICS

- 186,082 visitor sessions for the month
- 6,002 visitor sessions per day
- 958,449 total page views for the month
- 131,717 Industry News items viewed
- 1,251 Card Reader Catalog items displayed
- 23,598 PDF downloads
- 26,881 Product and Service Directory page views

If you have any suggestions on content that you'd like to see on the Alliance web site, please send them to info@smartcardalliance.org.

EMV CONNECTION WEB STATS

- 2,335 visits for the month
- 6,247 total page views for the month

NEW MEMBERS

- SunTrust, Atlanta, GA
  Membership Level: Leadership Council
  Member Contact: Whitney Stewart, SVP Mass Marketing Segment & Value Added Service
  Description: Provides deposit, credit, trust and investment services to a broad range of retail, business and institutional clients

- CH2M HILL, Englewood, CO
- **Membership Level:** General
  Member Contact: Frederick Wedley, Senior Director
  Description: Global engineering firm with large transportation division supporting fare systems projects

- Cryptomathic Inc., San Jose, CA
  Membership Level: General
  Member Contact: Matt Landrock, CEO
  Description: Software security company with 25+ years in business and 15+ years in EMV

- Dynamics, Inc., Cheswick, PA
  Membership Level: General
  Member Contact: Gautam Batra, Director of Corporate R&D
  Description: Next generation intelligent battery powered payment cards and devices

- Init Innovations in Transportation, Chesapeake, VA
  Membership Level: General
  Member Contact: Ann Derby, Director of Marketing and Events
  Description: – Offers advanced ITS solutions for rail, fixed-routed bus and demand-oriented vehicles

- Kona I Co., Ltd., Seoul, Korea,
  Membership Level: General
  Member Contact: Serena SeLim Na, Regional Sales Manager
  Description: Smart card total solution provider

- Paragon Application Systems, Holly Springs, NC
  Membership Level: General
  Member Contact: Martha Engeman, Marketing Manager
  Description: Leading leading global provider of ePayment simulation, configuration and testing solutions

- Prime Factors, Inc., Eugene, OR
  Membership Level: General
  Member Contact: Tamie Millis, Director of Business Operations
  Description: Data encryption and tokenization software

- Unwire US, Inc., New York, NY
  Membership Level: General
  Member Contact: Henrik K. Nielsen, VP International Sales
  Description: Creates new and value-added services for a wide range of leading transit agencies, telecom operators, media companies and financial institutions

- WorldPay US, Atlanta, GA
  Membership Level: General
  Member Contact: Jeff Bohlin, Senior Product Manager
  Description: Manages communication between merchant payment systems and financial institutions

SCALA NEW MEMBER

- AMF Medios Transaccionales S.A., Santiago, CHILE ,
  Membership Level: SCALA, General
  Member Contact: Rodrigo Zamudio, Gerente General
  Description: Medios transaccionales fisicos para la economia, taces lomo trasetas con chip y banda, otp cheques y valores emprasa de seguridad transaccional

ALLIANCE IN THE NEWS

The Alliance has an active communications program to promote industry messages in business, vertical market, and technology publications. Coverage results from both Alliance press releases and interviews with publications writing articles about smart cards. Selected recent coverage is shown below with links to online articles.

- American Banker, 10/23/2012, EMV Migration Gets Answer People
- ATM Marketplace.com, 10/26/2012, EMV Migration Forum gains new member in CreditCall
- ATM Marketplace.com, 10/31/2012, EMV test tools provider ICC Solutions joins EMV Migration Forum
- Blogger News Network, 10/4 /2012, What Security Benefits Does Contactless Technology Offer?
- ComputerWorld, 10/23/2012, Mobile wallet adoption could get boost from deadline on retailers to upgrade terminals
- PaymentsSource, 10/15/2012, Committees Prepare for Next EMV Migration Forum Meeting
- SecureID News, 10/24/2012, CreditCall joins EMV Migration Forum
- Security Document World, 11/2 /2012, Neville Pattinson joins IDESG council
- Stores Magazine, 10/4 /2012, Retailers must prepare now for future smart card acceptance
- Teller Vision, 10/1 /2012, EMV Coalition Created to Support Move to Chip-Based Payments [url unavailable]
- The Green Sheet, 10/8 /2012, Busy month for the SCA
- The Green Sheet, 10/23/2012, Vanderhoof details challenges ahead for EMV

WEB SITE NEWS

Updated web content:

- New Access Control Council resource, PIV Card/Reader Challenges with Physical Access Control Systems: A Field Troubleshooting Guide
- NFC Application Ecosystems: Marketing, Gaming, Access and Identity Applications and NFC Application Ecosystems: Social Media, Payments, Ticketing and Transit webinar recordings on Smart Card Alliance members-only web site and LEAP members-only web site [login required]
- New Mobile and NFC Council resources, Mobile/NFC Standards Landscape Reference Guide and accompanying interactive PowerPoint presentation
- New Payments Council white paper, EMV and NFC: Complementary Technologies that Deliver Secure Payments and Value-Added Functionality
- Updates to EMV Connection web site resources and EMV news
- Updates to EMV Migration Forum information on EMV Connection web site

Updates from the Alliance Industry Councils

Access Control

- The Access Control Council and Identity Council published a new resource, PIV Card/Reader Challenges with Physical Access Control Systems: A Field Troubleshooting Guide. This guide was developed to help users diagnose the cause of the PIV card/reader issues with physical access control systems and provide troubleshooting guidance to quickly identify corrective actions.

  Smart Card Alliance Council members involved in the development of this white paper included: 3M Cogent, Inc.; AMAG Technology; Booz Allen Hamilton; Codebench, Inc.; CSC; Damalas LLC; Datacard Group; Deloitte & Touche LLP; Eid Passport; Exponent, Inc.; Gemalto; Giesecke & Devrient; GSA; HID Global; HP Enterprise Services; IDenticard Systems Inc.; Identification Technology Partners; Identive; IDmachines; IQ Devices; LaChelle LeVan; Marty Frary; NASA; NXP Semiconductors; Oberthur Technologies; Quantum Secure Inc.; RM Industries; Roehr Consulting; SafeNet, Inc.; SAIC; Secure Mission Systems; SHAZAM; Software House/Tyco; U.S. Department of Defense/Defense Manpower Data Center; U.S. Department of State; XTec, Inc..

- The Council is currently completing a white paper on strong authentication using smart cards.

Healthcare

- The Healthcare Council is currently working on an outreach project to recruit new healthcare industry members to join the Council.

- The Council's LinkedIn group, Healthcare Identity Management, is open for discussion on healthcare identity security and management. The group is open to both members and non-members.

Identity

- The Identity Council collaborated with the Access Control Council to develop the new resource, PIV Card/Reader Challenges with Physical Access Control Systems: A Field Troubleshooting Guide.

- The Identity Council is currently defining a cross-council project on mobile devices and PIV credentials.

- The Council is leading Alliance efforts in monitoring and participating in the NIST National Strategy for Trusted Identities in Cyberspace (NSTIC) initiative. Members from the Access Control, Identity and Healthcare Councils are active in the NSTIC working groups.

Mobile and NFC

- The Mobile and NFC Council completed its successful members-only educational webinar series on NFC Application Ecosystems. The Council held two webinars in October, *NFC Application Ecosystems: Marketing, Gaming, Access and Identity Applications,* on October 11th and *NFC Application Ecosystems: Social Media, Payments, Ticketing and Transit*, on October 25th. Presenters included: Deborah Baxley, Capgemini; Brent Bowen, INSIDE Secure; David deKozan, Cubic Transportation Systems, Inc.; Josh Kessler, MasterCard Worldwide; Steve Rogers, Intellisoft; Chandra Srivastava, Visa Inc.; Randy Vanderhoof, Smart Card Alliance; and Tom Zalewski, CorFire. The webinar recordings are available for members on the Smart Card Alliance and LEAP members-only web sites.

  We had excellent Council member participation in this project; a broad cross-section of members contributed to reviewing and commenting on the content that was used in the webinar. Members who participated included: Accenture; American Express; Bank of America; BetterBuyDesign; Booz Allen Hamilton; Capgemini; Chase Card Services; Chase Paymentech; Collis/UL; Consult Hyperion; CorFire; CPI Card Group; C-SAM; Cubic Transportation Systems, Inc.; Datacard Group; Datawatch Systems, Inc.; Discover Financial Services; E & M Technologies; FIME; First Data Corporation; FIS; Giesecke & Devrient; Heartland Payment Systems; HID Global; HP Enterprise Services; Identification Technology Partners; Identive Group; IDmachines; Infineon Technologies; Ingenico; INSIDE Secure; Intellisoft; Interac Association/Acxsys Corporation; Intercede Ltd.; Isis; MasterCard Worldwide; NagraID Security; NXP Semiconductors; OTI America; Probaris; Quadagno & Associates; RM Industries; SafeNet; SecureKey Technologies; TSYS; U.S. Dept. of Homeland Security; UTC; VeriFone Systems; Visa Inc.; ViVOtech; Watchdata; Wells Fargo.

- The Council completed the first phase of its mobile/NFC standards landscape project, publishing the Mobile/NFC Standards Landscape Reference Guide and accompanying interactive PowerPoint presentation to educate industry stakeholders broadly on the standards, specifications and certification requirements for the NFC ecosystem.

Bart van Hoek, Collis/UL, led this project, contributed content, integrated input from Council members and created the interactive PowerPoint presentation.

Participants involved in the development of this white paper included: Accenture LLP; American Express; Chase Card Services; Collis/UL; CorFire; CPI Card Group; Cubic Transportation Systems, Inc.; Datawatch Systems, Inc.; Discover Financial Services; First Data Corporation; Giesecke & Devrient; Heartland Payment Systems; HID Global; Identification Technology Partners; Identive Group; Infineon Technologies; Ingenico; Ingersoll Rand Security Technologies; INSIDE Secure; Interac Association/Acxsys Corporation; Intercede Ltd.; IQ Devices; Isis; MasterCard Worldwide; NFC Forum; NXP Semiconductors; Quadagno & Associates; SafeNet, Inc.; SecureKey Technologies; TSYS; VeriFone Systems; Visa Inc.; ViVOtech, Wells Fargo.

- The Council is currently defining a project to provide educational resources on security options for mobile/NFC applications

Payments

- The Payments Council published a new white paper, EMV and NFC: Complementary Technologies that Deliver Secure Payments and Value-Added Functionality. This white paper was developed to describe how EMV and NFC complement each other and work together.

  Payments Council members involved in the development of this white paper included: Accenture LLP; Acumen Building Enterprise, Inc.; Apriva; Capgemini USA Inc.; Chase Card Services; Clear2Pay; Connexem Consulting; Consult Hyperion; Datacard Group; Exponent; First Data Corporation; FIS; Gemalto; Giesecke & Devrient; Heartland Payment Systems; Identification Technology Partners; Infineon Technologies; INSIDE Secure; Interac Association/Acxsys Corporation; NACHA–The Electronic Payment Association; NagraID Security; NXP Semiconductors; Quadagno & Associates; TSYS; Visa, Inc.; Watchdata Technologies Pte Ltd.

- The Council is currently completing its EMV ecosystem project.

- The Council's LinkedIn group, Smart.Payments, is open for discussion on payments and fraud. The group is open to both members and non-members.

Transportation

- The Smart.Transit LinkedIn Group is open for discussion on transit payments. The group is open to both members and public transit agencies.

Other Council Information

- Five councils – Access Control, Healthcare, Identity, Payments and Transportation – held their biannual steering committee elections. The steering committees are now electing the council officers.

- Members-only council web pages are available at http://www.smartcardalliance.org/councils. These are password-protected pages that contain council working and background documents and contact lists. Each Council area has a separate password since Councils may have different membership policies. If you are a Smart Card Alliance member and would like access to a council site, please contact Cathy Medich.

- A Council meeting calendar is available on the members-only web site at http://www.smartcardalliance.org/pages/members-council-resources.

- If you are interested in forming or participating in an Alliance council, contact Cathy Medich.

Alliance Members: Participation in all current councils is open to any Smart Card Alliance member who wishes to contribute to the council projects. If you are interested in participating in any of the active councils, please contact Cathy Medich.

Gemalto Achieves 25 million Milestone for e-Driver's Licenses Delivered to India

Cartes & IDentification, Paris, France - Nov 7, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, announces that it has delivered over 25 million e-Driver's Licenses and Vehicle Registration Certificates to India. Gemalto has been providing these Sealys secure e-documents to multiple states across India since 2003.

Gemalto Launches Protiva Trade Connect to increase Trading Floor Security, Traceability and overall compliance

Cartes & IDentification, Paris, France - Nov 7, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, today launched Protiva Trade Connect, a solution specifically designed for the unique demands of multi-terminal computing environments such as those used by financial traders. Protiva Trade Connect was developed in close relationship with some of the world's largest financial institutions and has been deployed across their trading floors in key financial centers globally.

Gemalto reinforces Ezio Token range for quicker and easier deployments

Adds new form-factor and software development kit to enhance eBanking authentication and transaction signing

Cartes & IDentification, Paris, France - Nov 7, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, will showcase its extended range of Ezio tokens for eBanking authentication and transaction signing at Cartes 2012 (Hall3, Entrance). The Ezio token portfolio, recently reinforced with the new Ezio Pico, combines enhanced security with outstanding convenience to support the growing needs for instant and easy access to online banking services. Used in conjunction with the Ezio Library software development kit, these ergonomic devices deliver an easily integrated and flexible response to the need for protection during eBanking and eCommerce transactions.

Infineon's SOLID FLASH™ Security Controllers for Payment Applications Gain Worldwide Acceptance in Key Projects

Neubiberg, Germany and Paris, France–November 6, 2012–Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today confirmed at Cartes 2012, the chip card industry's leading tradeshow, the success of its new generation of security products for payment applications. Security controllers based on SOLID FLASH™ technology are already used in key projects around the world. Bank cards issued by the German Sparkasse Verlag, Swiss Maestro debit cards and France's Carte Bancaire cards will be equipped with Infineon's new SOLID FLASH security controllers. They will also be shipped to projects in other European countries, North and South America as well as Africa and Asia (Japan, China, Korea, Indonesia) in the course of volume ramp up.

Infineon Promotes Open Standard to Accelerate NFC Mass Deployment; Fast and Secure Communication Interface Implemented by Major Industry Players

Neubiberg, Germany–November 6, 2012–Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today announced that its high-performance communication interface for Near Field Communication (NFC) applications is gaining wide acceptance as a de facto industry standard. The Digital Contactless Bridge (DCLB) interface specified by Infineon offers fast and secure connection between an embedded Secure Element and an NFC modem. As a freely available and globally open solution, DCLB is widely implemented by manufacturers of NFC modems and Secure Elements for handsets. To date, more than 10 manufacturers including Texas Instruments Incorporated (TI), Inside Secure, MicroPross, MtekVision, Crocus Technology and KEOLABS have licensed the Infineon DCLB interface.

Smart Card Alliance Explains Standards for NFC Mobile Payments and Applications in New White Paper, Interactive PowerPoint Tool

CARTES 2012 EXHIBITION AND CONFERENCE, PARIS, November 6, 2012–The mobile community now has new tools to navigate the standards, specifications and certification requirements for the emerging NFC mobile application ecosystem. The Smart Card Alliance Mobile and NFC Council today released an educational NFC standards landscape document and accompanying interactive PowerPoint tool, covering the core standards as well as several NFC applications.

Both the "Mobile/NFC Standards Landscape" white paper and the PowerPoint tool are available on the Smart Card Alliance website at http://www.smartcardalliance.org/pages/publications-mobile-nfc-standards-landscape. Bart van Hoek, Collis/UL, led the project and created the interactive PowerPoint tool.

Increasing PC Security and Data Integrity - Trusted Platform Module Solution from Infineon Supports Windows 8

Neubiberg, Germany–November 5, 2012–Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today announced that its Trusted Platform Module (TPM) solution supports and secures the recently introduced Microsoft Windows 8 operating system. Infineon provides a complete solution based on Common Criteria certified TPM hardware and the corresponding software suite aiming at use in communication and office applications. In Windows 8, the TPM is used e.g. in the Microsoft BitLocker Drive Encryption to protect the keys for the encryption of the hard disk. In addition, the TPM provides integrity verification during system boot.

Gemalto Receives New Innovation Award at Sesames for PrintPixel

Cartes & IDentification, Paris, France - Nov 6, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, won a new Sesames award at the 2012 CARTES & IDentifi-

cation industry conference for its PrintPixel security feature. The winning innovation is being showcased on the Gemalto booth, Hall 3, Entrance.

"This Sesames award endorses our capacity in developing innovative products that lead to real-life applications and tangible benefits for service providers and end users, as part of our ongoing commitment to serving our customers with pioneering solutions that make them stay one step ahead," commented Tan Teck-Lee, Gemalto's Chief Innovation and Technology Officer. "The security features that are visible with the bare eye are always very efficient, easy to check by officials at border control and providing increased protection for citizens."

Gemalto Joins the Partnership for Cyber Resilience from the World Economic Forum

Cartes & IDentification, Paris, France - Nov 6, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, announces joining the Partnership for Cyber Resilience - a global initiative developed by the World Economic Forum in support of fostering a trusted share digital space and supported by leading global companies. Gemalto will work alongside the initiative partners to identify and address emerging global needs and systemic risks that arise from the increasing digital connectivity of people, processes and objects. The company brings its global experience in digital security applied in particular to authenticated mobile security, trusted cloud access, identity and privacy protection, eHealthcare and eGovernment security and efficiency. Gemalto will also bring in the expertise acquired through its numerous contributions to Information and Communication Technology (ICT) security standards.

Athena Smartcard Completes the Supply of 15 Million eHealth Smart Card Modules in Italy and is Expected to Supply 7 Million Additional Units in 2013

TOKYO, November 1, 2012 /PRNewswire/–Athena is the largest supplier of CRS health insurance and digital signature smart card modules for the Italian Regional Health Card system

Athena Smartcard, the fastest growing independent smart card operating systems supplier for ID and Digital Security, payment and mobile security, announced that it reached a milestone, as it completed delivery in 2012 of 15 million smart card modules for the Italian CRS (Carta Regionale dei Servizi) eHealth and Digital Signature/Authentication and eGovernment card project . It is expected that by the end of 2013 over 20 million Italian citizens will be using Athena products that are Common Criteria certified as a Secure Signature Creation Device and loaded with the NetLink Health Insurance application, including all citizens of the Lombardy and Tuscany regions. Athena is the largest supplier of such smart card solutions in Italy and one of the largest in Europe. The project is managed by Actalis S.p.A. (Aruba group), Athena's exclusive government partner in Italy, and the leading Italian Certificate Authority and smart card system provider for government projects. In addition to the supply of qualified digital certificates, Actalis is responsible for the entire card production, personalization and fulfillment of the CRS card.

Gemalto's Neville Pattinson to serve on the Identity Ecosystem Steering Group

Austin, TX, USA - Nov 1, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, announces the election of its Senior Vice President of Government Programs, Neville Pattinson, to the Identity Ecosystem Steering Group (IDESG) Management Council, formed recently by the National Strategy for Trusted Identities in Cyberspace (NSTIC). Gemalto brings identity and eGovernment solutions to over 60 government programs worldwide and is an active part of 15 national eID initiatives. Neville Pattinson joins 15 other delegates from global organizations with each of the experts serving a range of perspectives.

"I am looking forward to accomplishing a great deal as a part of the first Identity Ecosystem Steering Group–we have a premier team of experts who will no doubt be committed to promoting the Identity Ecosystem Framework in the best interest of the industry and its stakeholders," said Neville Pattinson, Senior Vice President of Government Programs at Gemalto North America.

T-Mobile Selects Gemalto's Trusted Service Manager for First pan-European NFC Launch; Goes Live in Poland

Deploys complete NFC solution for nationwide rollout in Poland

Amsterdam, The Netherlands - Oct 31, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, announces that T-Mobile has selected its LinqUs Trusted Service Manager (TSM) platform for the group-wide rollout of NFC services. Gemalto's TSM platform will enable the secure installation and management of T-Mobile's NFC services across major European markets. This group-wide deployment will be implemented firstly in Poland.

Gemalto provided PTC, T-Mobile's network operator in Poland, with a complete NFC solution encompassing the TSM platform and the mobile wallet software, as well as the UpTeq NFC high-end card for mass deployment of SIM-based mobile contactless services. PTC will start the nationwide SIM upgrade to the new UpTeq NFC card by year-end to ensure NFC-readiness for the deployment of a broad range of innovative services to its 14-million subscriber base.

Vodafone and CorFire to Bring Innovative Mobile Wallet Services to Consumers, Service Providers

CorFire technology enables Vodafone customers to simply tap smartphone to pay for goods, redeem vouchers, access buildings, transit systems and more

ATLANTA, October 29, 2012–CorFire™, the mobile commerce business of SK C&C USA and the industry-leading mobile technology expert, is providing mobile wallet capabilities to Vodafone Group, enabling Vodafone's customers to use their smartphones to conduct a number of transactions, including paying for goods and services at the point of sale, during 2013.

CorFire's leading mobile wallet solution, CorPay™, helps Vodafone further its goal of eliminating the need for physical wallets by delivering customers with comprehensive digital mobile wallet solutions.

Vodafone selects Gemalto to setup and manage global NFC Mobile Payment Services

Amsterdam - Oct 29, 2012 - Gemalto (Euronext NL0000400653 GTO), the world leader in digital security announces that it has been selected by Vodafone Group, one of the world's largest mobile communications service providers, to provide and operate its global Trusted Service Management (TSM) platform and deploy NFC services solutions.

This multi-year global contract will provide the foundation for secure and convenient 'wave and pay' contactless transactions via mobile phone, as well as for numerous new services that demand the highest levels of security and integrity. Key elements of the end-to-end solution that is being integrated by Gemalto include the Allynis TSM service platform (a complete solution that ensures mobile payment end-to-end security encryption between financial institutions and mobile operators) and the company's UpTeq NFC high-end card product.

Cubic Receives Contract to Expand Clipper Fare Collection System

SAN DIEGO, Calif., October 26, 2012–As the Bay Area Rapid Transit District (BART) takes its first step to expand train service into Silicon Valley, it is also bringing its regionally interoperable Clipper® Card payment system to its new customers. Cubic Transportation Systems, Inc. has received a $10 million contract to deliver the fare collection system to Warm Springs/South Fremont and integrate it into the Clipper system. The Warm Springs Extension, scheduled to open in 2015, will add 5.4 miles of new track from the existing Fremont Station south to the Warm Springs District in Fremont.

"We are pleased to be part of a project that is so important to BART. This continues our relationship of providing fare collection technology to a longstanding customer, as well as furthering the reach of the Clipper system which has organized the region onto a single smart card across multiple agencies and multiple transit modes," said Richard Wunderle, senior vice president and general manager, North America, for Cubic Transportation Systems.

TSYS Extends Processing Services Agreement with BB&T Financial, FSB

Agreement Continues Current and Well-Established Relationship

COLUMBUS, Ga., Oct. 23, 2012–TSYS (NYSE: TSS) announced today that it has extended its long-term agreement with BB&T Financial, FSB, a subsidiary of BB&T Corporation, to serve as their full-service payment solutions provider. Under the terms of the agreement, BB&T will utilize TSYS' authorization/capture and clearing/settlement processing platforms, dispute resolution services, payment acceptance applications, and other technology and support services. BB&T has been a TSYS client since 1997.

"BB&T is a true market innovator whose focus is on treating their clients as partners and providing excellence and quality in all of their products and services. We value the confidence BB&T continues to place in us as one of their strategic partners," said Mark Pyke, president of TSYS' Merchant Services segment. "TSYS' superior world-class processing services facilitate BB&T's offering innovative card products designed around their customers' needs. We are delighted to continue our partnership with BB&T." Financial terms of the long-term agreement were not disclosed.

Gemalto wins Asian Human Capital Award 2012

Amsterdam - Oct 23, 2012 - Gemalto, the world leader in digital security announces having won the prestigious Asian Human Capital Award 2012. The award honors innovative and impactful people practices adopted by organizations with a presence in Asia. Gemalto was recognized for the company's human capital strategy of Sustainable Innovation Leadership. It is the first time that a European company wins the award.

This Sustainable Innovation Leadership award praises Gemalto's key Human Resource practices that emphasize promotion from within, structure talent maturity through its "3 Axis Mobility" approach which allows employees to move across geographies, functions and business units, grow managers as humanistic developers, encourage employee development and foster a culture of innovation. In addition, Gemalto's senior management was pointed out for being strongly involved in the shaping of the company's Human Resource practices and in employee development.

Isis™ Launches in Austin and Salt Lake City; As Many as 20 Isis Ready™ Handsets to Be Available by Year End

Launch Represents Milestone for Mobile Commerce Industry

AUSTIN, Texas & SALT LAKE CITY, Oct 22, 2012 (BUSINESS WIRE)–Isis™, the mobile commerce joint venture created by AT&T Mobility, T-Mobile USA and Verizon Wireless, today announced the availability of the Isis Mobile Wallet™ in Austin and Salt Lake City.

Starting today, consumers can visit their AT&T, T-Mobile or Verizon retail location and select from nine Isis Ready™ handsets, with an expected 11 additional handsets coming to market by year end.

"The launch of the Isis Mobile Wallet in Austin and Salt Lake City represents a milestone for both Isis and the mobile commerce industry," said Ryan Hughes, chief marketing officer, Isis. "With as many as 20 Isis Ready handsets headed to market by year end, we are experiencing an unprecedented level of support for NFC and consumer choice."

TSYS to Provide Transaction-Specific Marketing Offers

COLUMBUS, Ga., Oct. 22, 2012–TSYS (NYSE: TSS) announced today an agreement with Truaxis, a MasterCard company, to make available transaction- and behavior-specific marketing offers. The new offering integrates cardholder spending patterns and behavior with an innovative platform that delivers personalized rewards, offers, loyalty incentives and other services to the end consumer.

TSYS Releases White Paper on the Convergence of Social Media and Payments in India and Southeast Asia

COLUMBUS, Ga., U.S., and MUMBAI, India, 18 Oct., 2012–TSYS today announced the publication of a white paper, the third in its Emerging Market Perspective Series, titled 'Convergence of Social Media and Payments in India and Southeast Asia.' The whitepaper explores adoption levels of popular social networks across the South and Southeast Asia region and how their fast growth could influence consumer banking and retail payment preferences in the future.

Smart Card Alliance Now Accepting Speaking Proposals for 2013 Payments Summit

Proposals Accepted Through November 16

PRINCETON JUNCTION, N.J., OCTOBER 17, 2012–The Smart Card Alliance is accepting speaking proposals through November 16 for the 2013 Payments Summit, the industry's leading forum for smart, secure payment technology including EMV card payments, mobile payments, and transit payments. The 2013 Payments Summit is being held February 5-7, 2013, with pre-conference workshops on February 4, at the Grand America Hotel in Salt Lake City, Utah.

TSYS Releases 2012 Research Results On Consumer Payment Preferences

COLUMBUS, Ga., Oct. 17, 2012–TSYS® (NYSE: TSS) today announced it has made available to the industry the results of its second annual nationwide primary consumer research study, which can be accessed at http://www.tsys.com/debit. TSYS will also offer a complimentary webinar to discuss the results on Tuesday, November 13, at 2:00 p.m. ET. Interested participants may register for the webinar at the same website address.

EMV Migration Forum Continues Support of U.S. Move to Chip-based Payments with December Meeting, Launch of Working Committees

PRINCETON JUNCTION, N.J., OCTOBER 15, 2012–Industry leaders from across the broad payments market are marking their calendars in anticipation of the EMV Migration Forum's next meeting, to be held December 6-7 at Visa's corporate headquarters in Foster City, CA. The Forum, an independent organization created by the Smart Card Alliance, supports the coordination of the implementation steps required to successfully migrate from magnetic stripe technology to secure EMV contact and contactless technology in the United States.

Infineon Sets New Standards for Security Applications - Flash-based Security Controllers Awarded for the First Time with Highest Security Certificate by German Federal Office for Information Security

Neubiberg, Germany–October 15, 2012–Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today announced that its new Flash-based security controllers have been awarded with the highest security certificate (Common Criteria EAL 6+ (high)) by the Federal Office for Information Security (BSI). They are the world's first Flash-based security controllers fulfilling these currently highest security standards. The new SOLID FLASH™ security chips with "Integrity Guard" are aimed at use in contactless and contact-based applications demanding highest security levels such as Government IDs, contactless payment transactions or embedded systems. They are the latest addition to the SLE 78 product family from Infineon with around 100 million units shipped worldwide.

Gemalto Delivers Record Activation Services for Millions of New LTE Subscribers in North America

TSYS Signs International Payments Agreement with Scotiabank

COLUMBUS, Ga., Oct. 10, 2012–TSYS (NYSE: TSS) announced today that it has signed a payments agreement with Scotiabank (NYSE: BNS) to provide processing services for Scotiabank's banking cards portfolio in Mexico.

The agreement calls for Scotiabank to convert its consumer card portfolio in Mexico to TSYS' industry leading TS2® platform. In addition to processing services, TSYS will also provide campaign and data management, and fraud and risk management tools as part of the agreement.

Members submit news each month to the Smart Card Alliance, with news items highlighted on the Alliance web site and in the monthly news letter. Members are invited to submit their news releases (as a Word document) to news@smartcardalliance.org to contribute to the Members in the News content.

Smart Card Alliance 11th Annual Government Conference
November 28-29, 2012
Walter E. Washington Convention Center, Washington, D.C.

EMV Migration Forum
December 6-7, 2012
Hosted by Visa
Foster City, CA

2013 Payments Summit
A Smart Card Alliance event
February 5-7, 2013
Grand America Hotel – Salt Lake City, UT

NFC Solutions Summit
May 15-16, 2013
San Francisco, CA