

Organizers



6th edition
e-Smart 
conference & demos **2005**

2005 - 2015:
Smart Card Future starts today !

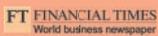
September 21, 22 & 23 - Sophia Antipolis - French Riviera

Program

Sponsors



Press Partners



Welcome to the Future of Smart Card

Welcome to e Smart 2005

Smart Card Industry Associations, Eurosmart, GlobalPlatform and Java Card Forum, are proud to announce the 6th edition of their annual conference on Sept. 21-23. For your benefit, the Scientific Committee Members have brought together the best and most knowledgeable speakers of the industry to Sophia Antipolis French Riviera to give presentation of new ideas, new technological and strategic trends. This will give you the opportunity to have fruitful exchanges and share visions of the future with your peers.

The organizers and the Scientific Committee wish that this year again the conference will exceed successfully your professional expectations.

Security issues will be at the heart of the discussions as 2 complementary tracks "Systems Security" and "Product Security" with 4 half day subsequent sessions are proposed. Issues relevant to "Emerging Technologies" will be featured with 2 half day subsequent sessions. "Terminals & Devices" session will bring valuable insight on the latest developments.

On day 1st, press partner "SmartCards Trends" will animate a large debate on "The Emergence of Systems Integrators in the Smart Card Industries". The delegates of the sister and co-located "World e-ID" conference are invited to join.

e-Smart at a glance

	Morning	Afternoon
DAY 1 Sept. 21	Opening session Plenary session "The future of Smart Card: 2005-2015 issues"	Systems Security (1) Transversal and common debate "The Emergence of Systems Integrators in the SC and e-ID"
DAY 2 Sept. 22	Systems Security (2) Java & Operating Systems	Product Security (1) Emerging Technologies (1) Terminals & Devices
DAY 3 Sept. 23	Product Security (2) Emerging Technologies (2)	

Scientific Committee

- Eric Alzai, Oberthur Card Systems
- Jean-Paul Billon, GlobalPlatform STIP Consortium
- Marc Chancerel, Gemplus
- Wolfgang Effing, Giesecke & Devrient
- Christian Goire, Java Card Forum
- Juergen Hammerschmitt, Multimedia Card Association
- Mark Kekicheff, GlobalPlatform
- Akio Kokubu, New Media Development Association
- Lutz Martiny, Chip Card Consultant
- Clotilde Servajean, Eurosmart
- Sergio Cozzolino, GSM Association
- Jean-Paul Thomasson, STMicroelectronics
- Frank Xu, Smart Card Forum of China

Consult regularly the "e-Smart" website
for updated program
www.strategiestm.com/conferences/esmart/05

DAY 1

Wednesday Sept. 21st

10.00am - 01.00pm
 01.00pm - 02.30pm
 02.30pm - 05.00pm
 05.00pm - 05.30pm
 05.30pm - 06.45pm

Plenary : **OPENING SESSION** : "The Future of Smart Card : 2005-2015 issues"
 Lunch -sponsored by  **EUROSMART**
 The Voice of the Smart Card Industry
 Plenary - **SYSTEMS SECURITY (1)**
 Coffee tea-break
 Common debate "e-Smart" and "World e-ID" conferences :
 "The Emergence of Systems Integrators in SC and e-ID"

OPENING SESSION :

The Future of Smart Card: 2005-2015 issues

Welcome Address (10.00am - 10.30am)

Olivier Piou, Chairman - Eurosmart

Marc Kekicheff, Card Committee Chair - GlobalPlatform

Christian Goire, President - Java Card Forum

Keynote address

"1995-2005-2015 : Our Future is in the Cards"

Bertrand du Castel, Head of Research - Axalto

EMV Migration:

An Experienced View of Moving to Chip and off-line PIN

John Bragg, former Project Director, APACS UK EMV Migration Program - Account Ltd

Smart Cards: The 2nd wave. EMV Leveraging New and Future Card Applications and Services

Pascal Dufour, Vice President, Head of Chip Products Management - MasterCard

SIM technologies: Prospects of Evolution

Speaker from Vodaphone (tbc)



Olivier Piou



Mark Kekicheff



Christian Goire



Bertrand du Castel

Systems Security (1)

How recent R&D programs and SC technology can enforce or contribute to on-line transaction security ?
 The 1st sub-session will be dedicated on systems security aspects, in the 2nd one speakers will review key Platform Security initiatives including TPM's for the PC and Mobile Industry.

Moderator: Wolfgang Effing, Executive Vice President, Cards and Solutions- Giesecke & Devrient

InspiredD - A New Technology Platform for the Next Generation of Secure Devices

Co-speakers:

Laurent Manteau, Gemplus - Dr Andreas Linke, G&D

Sub-session: Web cards

The Smart Card is the Network Key

Michael Montgomery, Scientific Advisor, Austin Research Team - Axalto

What do Web-Services Expect from Java Cards ?

Jean-Loup Dépinay, JavaCard OpenPlatform Architect - Oberthur Card Systems - Damien Sauveron, Assistant Professor, LMSI, University of Limoges

Web Card Applications with Card based Servlet

Laurent Lagosanto, Research Architect - Gemplus Research Labs

Online Identity Theft Prevention Using Network Smart Cards :

Dr Karen Lu, Principal Engineer, Asad Ali - Smart Cards Research Austin - Axalto

Speaker: Karen Lu



Michael Montgomery



Jean-Loup Dépinay



Laurent Lagosanto



Karen Lu

Transversal Common Debate

"The Emergence of Systems Integrators in SC and e-ID"

animated by Yvon Avenel, Editor & Publisher - SmartCards Trends.

The debate will feature the emerging role and the value propositions of the Systems Integrators (SI) in the smart card industry. It will gather delegates from both conferences "e-Smart" and "World e-ID"

- **System, solution, product approaches: who does what?**
- **How the smart card is a specific sub-system?**
- **Are the ID-card applications driven the increasing role of the Systems Integrators?**
- **Standards or complexity : which are the main pillars of the SI business models?**



Yvon Avenel

DAY 2

Thursday Sept. 22nd

09.00am - 01.00pm

2 parallel sessions: **SYSTEMS SECURITY (2)**
JAVA & OPERATING SYSTEMS

10.30am - 11.15am

Coffee tea-break

01.00pm - 02.30pm

Lunch

02.30pm - 06.45pm

3 parallel sessions: **PRODUCT SECURITY (1)**
EMERGING TECHNOLOGIES (1)
TERMINALS & DEVICES

04.00pm - 04.45pm

Coffee tea-break

Systems Security (2)

Moderator: Eric Alzai, Oberthur Card Systems

Sub-session: **TPM**

How Trusted Platform Modules and Secure USB Tokens Combine to Secure the On-line Environment!

Alain Jarre, Director Consumer & IT Business Unit Smartcard IC's division - STMicroelectronics

KasraTPM: A TPM External Token on Serial Port

Omid F. Nadjarbashi, President & Technical Director – Morteza Djafari PhD, Technical Advisor – Hashem Tatari, Embedded Software engineer – KasraCard

Speaker: Omid F. Nadjarbashi

Combined User and Trusted Platform Smart Card Authentication for VPN Clients

Patrick George, Gérald Maunier Senior Architect – Gemplus

Speaker: Gérald Maunier

Trusted Computing and TPM: Replacing Smartcards or are There New Possibilities?

Hans Brandl - Infineon Technologies

Why and How to Integrate TPM in the Telecom SIM Infrastructure

Jean Claude Paillès, R&D, Platform & Middleware - France Télécom



Omid F. Nadjarbashi



Gérald Maunier



Jean-Claude Paillès



Tanjore Ravishankar



Stephan Spitz



Ksheerabhi Krishna



Pascal Urien



Srinivas Gumma



Nicolas Rousset



Bruno Legeard



Kaishen Zhu



Stefan Trautner

Java & Operating Systems

This session based on a top down approach will let the audience first reassess the background of the JavaCard world, then get in several detail presentations of key technical aspects of some fundamental elements of the chain that lead to a JavaCard product

Moderator Christian Goire, President – Java Card Forum
Introduction by Christian Goire

Java Card Technology Transitions for Future Security Architectures

Tanjore Ravishankar, Senior Staff Engineer, Java Card Engineering - Thierry Violleau, Staff Engineer, Java Software – Sun Microsystems

Speaker: Tanjore Ravishankar

Security Challenges in New Smart Card Operating Systems

Franz Hauswirth, Project Manager for Java Card Operating Systems - Dr Stephan Spitz, Project Manager for New Smart Card Operating Systems- Ulrich Kolzenburg, Director Project Management Smart Cards – Giesecke & Devrient

Speaker: Dr Stephan Spitz

A Flexible Content Management Framework for Programmable Smart Cards

Sylvain Prevost, Kapil Sachdeva, Ksheerabhi Krishna - Axalto

Speaker: Ksheerabhi Krishna

OpenEapSmartCard, an Open Initiative for Emerging Open WLANs

Pr. Pascal Urien, ENST – Pr. Guy Pujolle, LIP6

Speaker: Pr. Pascal Urien

XML processing on Smart Card

Srinivas Gumma, Masters Student, Kanwal Rekhi School of Information Technology, IIT BOMBAY - Prof. Deepak B.Phatak, Head of School of Management, IIT Bombay

Speaker: Srinivas Gumma

Demonstrations Area

An innovative approach of the future of smart card and eID through live demonstrations. for updated demos program

www.strategiestm.com/conferences/esmart/05

Product Security (1)

Products & Systems Security seems to be an endless challenge for the Industry and for those who deploy and use secure technologies such as smart cards. During the two sub-sessions we will cover the following issues:

Are there methodologies that could help testing and increasing the lifespan of secure technologies? Are new scenarios of attacks proliferating at the same speed of countermeasures? What's new there? Are these, real threats or scientist's wild imaginings? What is the answer from the Technology side? How Issuers and Consumers can trust secure products and systems security ?

Moderator: Bruno Rouchouze, Eurosmart

Methodology & tools

Speaking presentation by

Colin Whittaker, Head of Security - APACS (tbc)

Formal Verification of an epurse

Boutheina Chetali, Nicolas Rousset, Formal Methods Group, Smart Cards Research - Axalto

Speaker: Nicolas Rousset

Requirements Traceability in Automated Test Generation for Smart Card Software Validation

Bruno Legeard - LEIRIOS Technologies & LIFC University of Franche Comté, CNRS-INRIA – G. Debois, Axalto – Eddie. Jaffuel, LEIRIOS Technologies

Speaker: Bruno LEGEARD

Hash Function Collisions and Electronic Signatures: Threats and Implications

Helena Handschuh, Applied Cryptography & Services Manager - Gemplus

Conclusive Panel

Emerging Technologies (1)

Where to meet with the latest innovations in the smart card industries and finalising them in real life applications (Biometrics, TPM, RFID, DRM,...). The session will focus on the real benefits deriving from the implementation of these features discovering the synergies between the different application environments (Mobile, Banking, Entertainment, Transportation,...)

Moderator: Sergio Cozzolino, GSM Association

A Grid of Java Cards to Deal with Security Demanding Applications Domains

Serge Chaumette, Professor, LaBRI University of Bordeaux – Eve Atallah, PhD Student, LACO & LMSI University of Limoges and LaBRI University of Bordeaux – Frank Darrigade, Software Engineer, LaBRI University of Bordeaux – Achraf Karray, PhD Student, ENIS, Sfax, Tunisia & LaBRI, University of Bordeaux
Speaker: Prof. Serge Chaumette

RFID Readers – Status Quo & future prospects

Stefan Trautner, Product Manager RFID Readers – ACG Identification Technologies

New Technologies for Contactless Air Interfaces

E. Crochon, B. Gomez, D. Caucheteux, F. Vacherand - CEA-LETI

Mobile Security: The Mutually Beneficial Cooperation between Smart Cards and Terminals to Untap High Value Added Services

Etienne Cambois - Gemplus

Shattering the Technology Barriers in Smart Card Technology

Ira Cohen, VP of Business Development - M-Systems

Digital Rights Management: New Technological Standards and Trends

Hans Brandl - Infineon Technologies

Terminals & Devices

Device Interoperability, Security and Intelligence: Present and future perspective on Trusted Devices

In this 2005 session a large scope of concern for the present and future will be surveyed. Starting from the present, the EMV deployment on payment terminals is still a big breakthrough in term of transnational interoperability.

For the immediate future, with GPD/STIP 2.2 specifications from GlobalPlatform published this year, the path of a greater interoperability beyond the world of payment terminals is now well clarified and gains a wider geographical and industrial support. Also, and complementarily, for the future, a very interesting research/trend is the coming in the world of intelligent and secure devices of a new generation of enhanced smart cards possibly supporting JavaCard 3.0 and STIP virtual platforms and high-speed communication and mass storage capabilities.

Moderator: Jean- Paul Billon, Device Committee Chair - GlobalPlatform

Devices from Present to Future

Jean-Paul Billon, Device Committee Chair – GlobalPlatform

Implementing SmartPOS on STIP terminal

Kaishen Zhu, Chief Technology Officer - Shera International

EMV and Interoperability – The role of SPA

Marc Birkner, President – Smart Payment Alliance

Next Generation Smart Cards used as Intelligent Devices

Speaker from InspireD Consortium

Use of OVM and STIP

Laurent Coureau - Orange

A new way to pay: How to get the most strategic benefit from EMV

Aneace Haddad, CEO - Welcome

DAY 3

Friday Sept. 23rd

09.00am - 12.45am

2 parallel sessions: **PRODUCT SECURITY (2)**
EMERGING TECHNOLOGIES (2)

10.30am - 11.15am

Coffee tea-break

Product Security (2)

Security Evaluation

Moderator: Jean-Paul Thomasson, Eurosmart

Acoustic and Crosstalk Analysis (ACA) : Measures and Countermeasures

David Samyde, FemtoNano

Can a smart card rely on its DPA countermeasures to prevent an EM attack ?

Adjay Gopie, Security Evaluator – Rob Bekkers, Senior Security Evaluator- Pascal Van Gimst, Manager Business Development – TNO ITSEF BV

Speaker: Adjay Gopie

A New Approach to Counteract Power Analysis

Christophe Giraud, Emmanuel Prouff, Engineers – Embedded Cryptography & Security Group, Oberthur Card Systems

Speaker: Emmanuel Prouff

Power and Fault Analysis in ECC. Problems and Solutions

Ihor Vasytsov, Senior Engineer - Hee-Kwan Son, Eugene Baek - System S/W, System LSI - Samsung Electronics

Speaker: Ihor Vasytsov

Evolution of Smart Cards Certifications and Real Life Risks

Armand Linkens, Group Vice President Software Platforms, Smart Card IC's Division - STMicroelectronics



David Samyde



Adjay Gopie



Emmanuel Prouff



Didier Elbaz



Dr Ullrich Martini



Andreas Linke

Emerging Technologies (2)

Moderator: Juergen Hammerschmitt, Multimedia Card Association

The Multi Component Card Technology

Didier Elbaz, Multicomponents Production Director, SPS – Jean-Paul Michel Production, Director - NBS TECHNOLOGIES

Speaker: Didier Elbaz

Biometric Security with RF Smart Card in Clustered Linux Environment

Prof. D.B Kulkarni, Head of Department of Information Technology – Suhas A. Desai, Research Student, Department of Information Technology - Walchand College, Sangli, INDIA

Speaker: Prof. D.B Kulkarni

SmartCard Implementation of an ISO-Compliant Fingerprint Matcher

Dr Ullrich Martini - Giesecke & Devrient

System on Card: A survey

Dr- Ing. Andreas Linke, Assistant to the board of directors – Giesecke & Devrient

EMV c/less Transaction Feasibility and Conditions for Deployment

René Beltrando - Gie Cartes Bancaires

Sponsors



Axalto is the world's leading provider of microprocessor cards (Gartner 2004, Frost & Sullivan 2004) - the key to digital networks - and a major supplier of point-of-sale terminals. Its 4500 employees serve customers in more than 100 countries, with worldwide sales reaching 3 billion smart cards to date. The company has more than 20 years' experience in smart card innovation and leads its industry in security technology and open systems.

Axalto continuously creates new generations of products for use in a variety of applications in the telecommunications, finance, retail, transport, entertainment, healthcare, personal identification, information technology and public sector markets. Smart card solutions provide convenience, security and privacy to public and private services operators, their customers and end users.

www.axalto.com



History tells us that big new commercial infrastructures - railways, telephones, the electric grid, the card payments industry itself - eventually deliver value far in excess of initial expectations and in ways which were not originally envisaged. The EMV chip infrastructure is likely to be no exception.

The global migration to EMV chip presents MasterCard and its members with an unprecedented opportunity for sustained growth in business. Over the next year or two a new global EMV chip infrastructure will rapidly emerge, starting with Europe. Soon, members will be able to leverage this infrastructure with added value business propositions which sharply differentiate their card offerings to customers. MasterCard is extremely well positioned to take advantage of the migration to EMV chip in Europe. MasterCard has over the past few years developed a comprehensive range of OneSMART packages, each of which is focused on a specific opportunity for leveraging the EMV infrastructure with an added value business proposition.

www.mastercard.com

Riviera Smart Event at a glance

Co-located with "eSmart" are two other international meetings:

- "World e-ID", the conference devoted to main issues involved in trusted electronic identities.
- "Smart University", an educational program designed and delivered by high level academics.

	Smart University Educational Program	e-Smart Conference	World e-ID Conference
	Morning	Afternoon	
Sept. 20	Biometrics DRM & Content Protection Global Platform Specifications Advanced Java Technologies SC & ID Security	Biometrics DRM & Content Protection Global Platform Specifications Advanced Java Technologies SC & ID Security	
Sept. 21	Opening Session	Systems Security (1)	Common transversal debate "Emergence of Integrators in SC and e-ID"
	World & Regional Strategies (1)	Opening Session World & Regional Strategies (2)	
	Biometrics DRM & Content Protection Advanced Java Technologies SC & ID Security ID Management Issues & Prospects New Emerging Standards	Biometrics DRM & Content Protection Advanced Java Technologies SC & ID Security ID Management Issues & Prospects New Emerging Standards	
Sept. 22	Systems Security (2) Java & Operating systems	Product Security (1) Emerging Technologies (1) Terminals & Devices	
	Applications & e-Passports (1) National Implementations & Business Models (1)	Applications & e-Passports (2) National Implementations & Business Models (2)	
	New Emerging Standards	New Emerging Standards	
Sept. 23	Product Security (2) Emerging Technologies (2)		
	Biometrics Architectures & Standardisation		



With sales of 450,8 million Euros in 2004, Oberthur Card Systems is one of the world's leading providers of card-based solutions, software and applications including SIM and multi-application smart cards as well as services ranging from consulting to personalization. Innovative products, security expertise and high quality services ensure Oberthur Card Systems' strong positioning in its main target markets:

- Payment & Services : 57% of 2004 revenues. World leader and number one upplier of Visa and MasterCard payment cards
 - Mobile Communications : 33% of 2004 revenues, with open and interoperable solutions based on Java™ technology
 - Identity : strong positions in ID projects throughout the world
 - Multimedia : leading position in the Pay-TV market with an end-to-end expertise in the value chain: software development, manufacturing and personalization
 - Transit : focus in the high-end segment with a microprocessor-based offer
- Close to its customers, the company benefits from an industrial and commercial presence across all five continents. Listed on the Euronext Stock Exchange (ISIN: FR0000124133) since July 2000, Oberthur Card Systems is a subsidiary of the François-Charles Oberthur Group.

www.oberthurcs.com



STMicroelectronics is a world leader in field of smartcard semiconductor integrated circuits (ICs), biometric technology and secure solutions.

We have over 20 years of experience in designing, developing and manufacturing secure IC's for the smartcard market.

This experience, within the one of the world's largest semiconductor manufacturers, provides the financial and technological support needed to meet the demands of today's advanced security requirements.

Whether your security needs are in the field of Personal ID, eGovernment, ePassports or trusted identities STMicroelectronics has the solution.

www.st.com/smartcard

How to register ?

- through our e-commerce platform and secure payment: <http://www.strategiestm.com/conferences/esmart/05>
- through any other way, please send your request to **Strategies Telecoms & Multimedia**
 Fax N° + 33 1 70 07 05 05 or email to lperron@strategiestm.com

Registration Rates in euros*	1 day		Full Event Package	
	no VAT	with VAT	no VAT	with VAT
* European Community Members are submitted to VAT (19.60 %)				
Regular Attendees	550€	657,80€	800€	956.80€
Early Bird (until July, 8, 2005)	480€	574,08€	700€	837,20€
Associated Members (1)	450€	538,20€	600€	717,60€
Academics, Non Profit organizations (2), authors	300€	358,8€	400€	478,40€
Full Board (3) Academics, Non Profit organizations, authors	not available		600€	717,60€

- (1) *Associated Members from : Eurosmart, GlobalPlatform, Java Card Forum, e-Forum, Smart Card Forum of China, Smart Card Alliance, NMDA*
- (2) *Non-profit organizations include professional associations, administrations, government department and agencies, local authorities.*
- (3) *** hotel accommodation - 2 nights and 2 dinners Sept. 21, Sept. 22.*

All prices are per 1 delegate inclusive lunches (no lunch on Sept. 23), coffee tea breaks for the days booked, the Worlde-ID Proceedings Cd-rom. World e-ID delegates have free access on the co-located "e-Smart" conference and qualify for preferential conditions to get the Proceedings cd-rom of e-Smart: 60 euros instead of 100 euros up to Sept. 23rd. (+ Vat for European Community Members)

The conference is held at the CICA - "Centre International de Communication Avancée" - 2229 route des Crêtes - 06560 Valbonne - Sophia Antipolis. An invitation together with all useful information will be sent to you before the event. This brochure is not a contractual document.

The organizers reserve the right to change the program or the identity of the speakers.



Program and registration rates: <http://www.strategiestm.com/conferences/we-id/05>

Program and registration rates: <http://www.smart-university.net>

Organizers



Eurosmart is an international association of 35 members companies located in Brussels representing the Smart Card Industry for multi-sectors applications and smart card users. The Association is a non-profit organisation committed to expanding the world's smart card standards and continuously improving quality and security of applications. Members are largely involved in political and technical initiatives as well as research and development projects. Eurosmart aim is to work on interoperability at worldwide level by close relationships with American and Japanese counterparts. Eurosmart achievements have been acknowledged by the smart card community as «the voice of the experts».

www.eurosmart.com



The charter of the Java Card Forum is to :

- give visibility to the market on solutions using Java Card™, stressing standards, flexibility and multiple applications solutions ;
- promote interoperability of smart card applications and products ;
- ease creation of products for the whole transaction chain, smart cards, terminals and their applications.

Members of the Java Card Forum have chosen to develop new families of multiple-application products around the Java Card API specification.

Java Card Forum is chaired by M. Christian Goire - Business Committee by M. Franck Edme - Technical Committee by M. Bertrand du Castel.

www.javacardforum.org



Driven by over 50 cross-industry member organizations, GlobalPlatform is the leading, international association, focused on establishing, maintaining and driving the adoption of standard to enable an open and interoperable infrastructure for smart cards, devices and systems that simplifies and accelerates development, deployment and management of applications across industries.

These specifications are known as the standard for smart card infrastructure, thanks to their balance of technical superiority and business justification.

GlobalPlatform specifications are available royalty-free and have been adopted in Europe, North America, Asia and Australia by many public and private bodies. Currently estimates predict that by the end of 2004, the number of GlobalPlatform smart cards in circulation will exceed 70 million and over 450 million GSM cards will utilize GlobalPlatform technology world-wide.

GlobalPlatform is an independent, not-for-profit organization and its strategy is defined and prioritized by a Board of Directors. GlobalPlatform is currently chaired by Chairman Robert E. Beer, Vice President Business Development, Datacard Group.

www.globalplatform.org

Implementation
<http://www.strategiestm.com>

