A workshop on Smart Card OS and Applications with 
SCOSTA case study

October 03-06, 2006. 
IIT Kanpur

Introduction

Plastic ID cards are used extensively for identification and authentication purposes in various applications such as driving licenses, Bank ATM card, Credit card, Club membership card, and in various Academic and commercial organizations as well. Some of these cards contain a magnetic-strip to make it machine readable. However these cards are not secure enough and given the right kind of equipment, the information on these cards can be modified easily.

Smart card is the youngest and cleverest one in the family of identification card. Its characteristic feature is in an integrated circuit embedded in the card, which has components for the transmission, storage and processing of data. Smart card offers many advantages compared to magnetic-strip card. One of the important advantages is that stored data can be protected against unauthorized access and modification. Smart cards can be divided into two groups according to the underlying technology. Cards in the first group use memory based technology and provides a secure storage of data. Cards in the second group use microprocessor cards and provide a standardized exchange of information to implement authentication, verification, secure storage, encryption and decryption etc. Cards in this category use an Operating System interface.

IIT Kanpur, along with National Informatics Centre (NIC) and a sub-committee of SCAFI piloted an effort to standardize Operating System that could be used for Indian Governmental applications. This standard, known as SCOSTA (Smart Card Operating System for Transport Application), was originally designed for Driving License and Vehicle Registration and is currently accepted as an OS for all Governmental application.

About the Workshop

This workshop aims at introducing the Smart Card technologies, Operating System for Smart Cards, SCOSTA and variety of applications where SCOSTA could be used such as loyalty applications, ID applications, membership applications, security applications. The workshop will include the hands-on experiments for the users to try out a variety of ideas to build such applications. All participants of the workshop will be provided a few SCOSTA cards and a reader to interface with the PC for such experiments.

The workshop is meant for system integrators, Operating System developers, application developers and persons who would like to integrate secure solutions in their operations.

It is expected that at the end of the workshop, the participants will have a fair amount of expertise in building smart card based systems including secure data extraction, password and key management schemes and standard methods for personalization.
How to apply

The seats in this workshop are limited and will be offered on the First Come First Serve basis. Up to a maximum of three participants will be taken from an Industry. Those who would like to apply in an individual capacity may note that the seats will be offered to them only on a low priority basis. Interested persons may contact coordinator of the workshop.

Contact

Prof. Rajat Moona,
Coordinator Workshop on Smart Card OS and Applications.
Department of Computer Science and Engineering
Indian Institute of Technology,
Kanpur 208016.
Email: moona@iitk.ac.in
Phone: +91-512-2597652
Fax: +91-512-2590725

Fees

Each participant will be charged Rs. 15000.00 towards the fee of the course. The fees will include the food, course notes and hands-on material. Shared accommodation (two per room) for the participants may be made available in the Visitors’ Hostel as IIT Kanpur on actual payment basis. For three participants from a single industry, a package deal of Rs. 35000.00 is available which includes food, course notes and hands-on material. Accommodation is to be paid on actual by the participants. All fees are payable through a bank draft payable at Kanpur.

About IIT Kanpur

Situated about 12 km in the north of the centre of Kanpur, Indian Institute of Technology Kanpur is a premier technology institute in India. IIT Kanpur is known worldwide for its excellence in teaching and research. It awards Bachelors, Masters and Doctoral degrees in various branches of technology and science. The Institute has about 1450 undergraduate and 850 postgraduate students, 300 faculty, and more than 1500 supporting staff. It has one of the finest scientific and technological library with an online information retrieval system over the campus LAN.
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Registration Form

1. Name:  
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2. Name of the Company:
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3. Address:  
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4. Email:  
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5. Phone:  
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6. Fax:  
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7. Qualification:  
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8. Fees details:

   a. Amount: Rs.  
      …………………………………………………………………………………

   b. Draft Number:  
      …………………………………………………………………………………

   c. Issued by:  
      …………………………………………………………………………………

   d. Payable at:  
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All draft must be payable at Kanpur in the name of “Coordinator, Workshop on Smart Card OS and Applications with SCOSTA Case Study”.

Registration form must reach IIT Kanpur by September 25, 2006.

Registration forms along with the bank draft must be mailed to:

Coordinator Workshop on Smart Card OS and Applications.
Department of Computer Science and Engineering
Indian Institute of Technology,
Kanpur 208016.