

# Smart Card Integration with Wireless LANs

- **Learn** about business case for smart cards in WLANs
- **Understand** WLAN architecture (components, roaming... )
- **Discover** why the first WLANs were insecure
- **Learn** how 802.1X and EAP methods are now used
- **Understand** the existing standards for WLAN smart cards
- **See** how EAP smart cards work

The wireless LAN market is currently booming. According to the Yankee group, the WLAN adapter shipments in the US increased by more than 300% to 10 million units in 2002 ! Yet, these figures could have been higher without the lack of security of the first equipments.

The smart card appears to be an interesting solution to bring a high level of security without tampering with the ease of use. Operators begin to study the technology and a major European telecom operator, recently announced that it would be using smart cards for its WLAN offer deployments.

The training will be given by Jerome Ajdenbaum.

Jerome is Senior Consultant for Iteon, the company he started two years ago.

Jerome is a specialist of smart card technology working with telecom operators, banks and card and terminal manufacturers.

Before starting Iteon, Jerome held various R&D and marketing responsibilities with Bull CP8 (now SchlumbergerSema).

### Customised trainings ?

Simply call us to organise a customised training in your home city (subject to a minimum number of attendees)

### Training fee

Fee: EUR 1000.00 + VAT 19.6%  
Total: EUR 1196.00

Payment terms are that 100% is due prior to the training and on receipt of invoice.

### How to register

- By mail  
trainings@iteon.net
- By fax  
+33.1.5676.6026
- By phone  
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### Contact

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## Training programme

- **Cryptography basis**

WLAN security is heavily based on the use of cryptographic techniques. We will discuss the basis of cryptography in order to give the participants a minimum background for the training to be fully profitable.

- **General presentation of WLAN technology**

We will explain the general architecture of WLANs, the standards involved, the context for roaming.

- **WLAN security**

Based on the information publicly available from standardisation bodies and researchers, we will explain the attacks that affected WLANs. We will then explain the new security architecture, based on 802.1X framework and the available EAP methods.

- **Why use a smart card ?**

Several telecom operators are currently evaluating the case for smart cards and France Telecom already announced a deployment. We will explain the business case and the marketing reasons for using smart cards.

- **Existing standards**

Several standards already exist to integrate smart cards with WLANs. We will explain how they work. We will especially focus on EAP-SIM and EAP-TLS. According to the existing (draft) standards we will evaluate how smart cards can embed an EAP engine. As an illustration, a practical work on an EAP enabled smart card will be done.

**Yes, I want to register**

Name \_\_\_\_\_

Surname \_\_\_\_\_

Company \_\_\_\_\_

Position \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_ City \_\_\_\_\_

Country \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_