



THE 1997 RSA DATA SECURITY CONFERENCE

SPEAKER BIOGRAPHY

DEVELOPERS' TRACK

Panel:

Securing ATM

Speaker: **Christof Paar**

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Company Background:

Founded in 1865, Worcester Polytechnic Institute (WPI) is the third oldest private university of engineering and science education in the United States. Since its founding days, WPI has been a pioneer in technological education. Today the university provides its students with a thorough conceptual foundation in science, engineering, the humanities, management and the social sciences.

Presentation Overview:

Data security plays an increasingly important role in today's information technology. Potential data rates in giga bit range, such as offered by ATM networks, put many constraints on the design of a secure, but usable, network. This presentation describes recent development in the area of data security and cryptography for ATM networks. The high data rates and the cell structure make bulk data encryption as well as public-key security services a challenging task. The special aspects and problems associated with security for ATM networks are described. Proposed solutions based on our findings are summarized with several high detail descriptions of hardware/software used to implement the details discussed in the talk.

Speaker Background:

Christof Paar received his Ph.D. in electrical engineering from the Institute of Experimental Mathematics in Essen, Germany. He is now with Worcester Polytechnic Institute where he leads the research and teaching activities in cryptography. Current research interests include network security and fast implementation of elliptic curve systems.

PRESENTATION