

# Strongly Secure Authenticated Key Exchange in the Standard Model

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Complete guideline for publication lovers. it was writtern really properly and useful. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Treva Hamill)

## STRONGLY SECURE AUTHENTICATED KEY EXCHANGE IN THE STANDARD MODEL



Shaker Verlag Sep 2013, 2013. Buch. Condition: Neu. Neuware - Nowadays many crucial network applications rely on the existence of a confidential channel established by authenticated key exchange (AKE) protocols over public networks. With the rapid development of cyber technology, novel attacks to cryptosystem emerge in an endless stream. This has also led to the development of AKE solutions to provide increasingly stronger security guarantees. In this thesis we focus on provision of practical constructions for AKE protocols which are provably secure in a strong sense without resorting to random oracles. We first we present three new efficient compilers to generically turn passively secure key exchange protocols (AKE) where security also holds in the presence of active adversaries. Our compilers are not only a useful tool for the design of new AKE systems with many additional security properties in a modular and less error-prone fashion, but they also help to relax the assumptions on existing, practical key exchange mechanisms which are not known to be provably secure AKE protocols. Security of our compilers is shown in a strong modified CK model where the adversary is allowed to reveal either long-term secret key or state information of the protocol participants. On the second, we study the open problem on constructing eCK secure two party AKE protocol without random oracles and NAXOS alike trick. A generic construction satisfying those requirements is given based on well-known cryptographic primitives following the guideline of efficiency. Then a concrete protocol is proposed which is the first eCK secure protocol in the standard model under both standard assumptions and post-specified peer setting (i.e. without knowing any cryptographic information about its communication peer). Both proposed schemes can be more efficiently implemented with secure device than previous works which are eCK secure in...

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