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A new attack on Jakobsson Hybrid Mix-Net

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Abstract: The Jakobsson hybrid Mix-net proposed by Jakobsson and Juels, is a very practical and efficient scheme for long input messages. But this hybrid Mix-net does not have public verifiable property. In this paper a new attack to the Jakobsson hybrid Mix-net is introduced. This attack breaks the robustness of the hybrid Mix-net scheme, given that the corrupted first mix server and one of the senders collude with each other.

Category / Keywords: cryptographic protocols / Mix-net, Hybrid Mix-net, Anonymity

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