Security Protocols and Verification

Attack of Cryptographic Protocols

Garance Frolla Ely Marthouret Ewan Decima

Team: ASKO OM8464A2

September / November 2025

Contents

1 Attack? 2

1 Attack?

This protocol does not work by itself.

- 1. $A \to B : A, \{|N_A, B|\}_{K_{AS}}$
- 2. $S \to B : S, \{|N_A, A|\}_{K_{BS}}$

How can S know that it has to send a message to B? How can B decrypt $\{|N_A,B|\}_{K_{AS}}$ without knowing the symmetric key K_{AS} ?