

TESLA Documents update
MSEC meeting, August 2004

Ran Canetti
IBM Research

TESLA Reminder

- TESLA is an scheme for source authentication of multicast communication [Perrig, Canetti, Tygar, Song].
- Main characteristics:
 - Very efficient (comparable to MACs)
 - Handles high-bandwidth, lossy communication
 - Requires loose time synchronization
 - Incurs an authentication delay.

TESLA document map

- An “intro” document:
 - Describes the basic scheme. No implementation details, but should contain enough info to write an implementation document.
 - To be an informational RFC
- Two standards-track documents:
 - TESLA-ESP
 - TESLA-SRTP

Document status

- Intro draft:
 - Version 01 passed WG last call in Dec. 03.
 - Remarks from AD in March 04.
 - Version 02 published May 04.
 - Version 03 posted on the list yesterday.
 - The changes: Only clarifications and consistency corrections.

Document status

- TESLA-ESP draft:
 - Version 00 expired, relates to the old MESP format. (Was called tesla-mesp)
 - Version 01 (actually 00) of tesla-esp coming soon.
- TESLA-SRTP draft:
 - Next talk.

Questions to the audience

Are people interested in implementing
TESLA?

- In ESP?
- In SRTP?
- With which key management protocol?
- Please come talk to me.