# **TICTOC Security Requirements**

draft-ietf-tictoc-security-requirements-03

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## Main Topics Discussed in this Draft

- Threat analysis.
- Security requirements.
- Additional security implications.

Section	Requirement	Туре
4.1	Authentication of sender.	MUST
	Authentication of master.	MUST
	Recursive authentication.	MUST
	Authentication of slaves.	SHOULD
	PTP: Authentication of TCs.	SHOULD
	PTP: Authentication of Announce Messages.	SHOULD
4.2	Integrity protection.	MUST
	PTP: hop-by-hop integrity Protection.	MUST
	PTP: end-to-end integrity Protection.	SHOULD
4.3	Protection against DoS attacks.	MUST
4.4	Replay protection.	MUST
4.5	Security association.	SHOULD
	Unicast and multicast associations.	SHOULD
	Key freshness.	MUST
4.6	Performance: no degradation in quality of time transfer.	MUST
	Performance: lightweight.	SHOULD
	Performance: storage, bandwidth.	MUST
4.7	Confidentiality protection.	MAY
4.8	Protection against delay attacks.	MAY
4.9	Secure mode.	MUST
	Hybrid mode.	МАҮ

### History of this Draft

- Oct 2011 1<sup>st</sup> draft
- Nov 2011 accepted as WG document
- Sep 2012 current draft

#### What happened since the previous draft?

Various fixes following feedback from WG.



#### Awaiting comments from additional reviewers.

Proceed to WG last call.