On properties of AEAD algorithms

draft-irtf-cfrg-aead-properties

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Latest news

- After some problems with datatracker, the draft was updated to version 02.
- Some new properties and examples of functional applications were added.
  In particular (thanks to Samuel Lucas for noticing!):
Most requested property — Indifferentiability

Indifferentiability for AE in the sense of [1] has been asked to be added starting from version 0. I remember about it!

### The problem

Indifferentiability is not an additional property, but an entirely different definition of AEAD security.

Will try to find an approach to that problem in the next version.

NIST Workshop on Block Cipher Modes of Operation

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- Additional security features (e.g., misuse-resistance, key commitment, etc.) that would be desirable in a new encryption technique
- Case studies of encryption techniques for specific uses, such as storage and key wrapping
- The security and efficiency of tweakable wide encryption techniques
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- At least 1 paper cites the draft 😊
Please contact me if:

- There is some property you want to see in the draft,
- There is some application/protocol you know which requires AEAD with additional properties,
- Your research is connected with the draft’s problematic.

And on any other draft/AEAD related occasion!

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