





Abstract

We propose MetaCP, a Meta Cryptographic Protocol verification tool, as an automated tool simplifying the design of security protocols through a graphical interface. The graphical interface can be seen as a modern editor of a non-relational database whose data are protocols.

The information of protocols is stored in XML, enjoying a fixed format and syntax aiming to contain all required information to specify any kind of protocol. This XML can be seen as an almost semanticless language, where different plugins confer strict semantics modelling the protocol into a variety of back-end verification languages.

In the paper, we showcase the effectiveness of this novel approach by demonstrating how easy MetaCP makes it to design and verify a protocol going from the graphical design to formally verified protocol using a Tamarin prover plugin.

MetaCP Targets Diverse Audiences



Current

specifications (ISO, IEEE, IETF, ...)

Towards a Data Centric Approach for the

- Proceedings of ACM CCS 2019 - DOI: 10.1145/3319535.3363262 - Poster session



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