

subprotocol for the establishment of child SAs

Protocol Purpose

IKE is designed to perform mutual authentication and key exchange prior to setting up an IPsec connection.

This subprotocol of IKE, known as CREATE_CHILD_SA, is used to establish child security associations once an initial SA has been set up using the two initial exchanges of mv(o)2.As

Model Limitations

Issues abstracted from:

- The parties, Alice and Bob, should negotiate mutually acceptable cryptographic algorithms. This we abstract by modelling that Alice sends only a single offer for a crypto-suite, and Bob must accept this offer.
- There are goals of IKEv2 which we do not yet consider. For instance, identity hiding.
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init State := 1

transi ti on

