

## 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

