

# Re-direct Mechanism for IKEv2

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IPSECME, Virtual Interim Meeting

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# Open Issue (1)– Re-direct during IKE\_AUTH exchange

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- There are two possible solutions
- Gateway sends a NO\_ADDITIONAL\_SAS payload in the IKE\_AUTH response and follows up with a REDIRECT payload
  - Prevents the creation of IPsec SAs
  - Prevents the client from sending any traffic
  - IKEv2 SA is still valid, needs to be torn down after the REDIRECT payload is received
- Pros
  - Less complicated state machine
- Cons
  - Two step process
  - Leaves the client with an IKEv2 SA but with no IPsec SAs for a short period of time (but this is not necessarily a big issue ....)

# Open Issue (1) – Re-direct during IKE\_AUTH exchange

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- Gateway sends the REDIRECT payload in the IKE\_AUTH response
  - Prevents the creation of IPsec SAs
  - Prevents the client from sending any traffic
  - IKEv2 SA is torn down after the REDIRECT payload is received
- Pros
  - Just one message is used
- Cons
  - More complicated state machine, since there are more number of cases where a REDIRECT message can be sent

# Open Issue (2) – Non Gateway Uses Cases

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- ❑ New proposal to allow the use of the Re-direct mechanism for uses cases other than IKEv2 gateways and clients
- ❑ Allow any IKEv2 responder to re-direct the initiator to another responder
- ❑ No use-case or justification yet
- ❑ Does not require any modifications to the protocol
- ❑ Need more opinions/views on this