

## IKpsk2 Initiation

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Initiator

$(S_i^{pub}, S_i^{priv})$

Knows:  $S_r^{pub}$

$(E_i^{pub}, E_i^{priv}) \leftarrow \text{ECDH-Generate}()$


$es \leftarrow \text{ECDH}(E_i^{priv}, S_r^{pub})$

$ss \leftarrow \text{ECDH}(S_i^{priv}, S_r^{pub})$

Responder

$(S_r^{pub}, S_r^{priv})$

$E_i^{pub}, \text{AEAD.Enc}(S_i^{pub}) , \text{AEAD.Enc}(\text{time}())$



$es \leftarrow \text{ECDH}(S_r^{priv}, E_i^{pub})$

$ss \leftarrow \text{ECDH}(S_r^{priv}, S_i^{pub})$