

Methodist SA

Request for threatactorreport , read, N_A , methodistsa, uthealthsa, MAC (threatactorreport, read, N_A , methodistsa, uthealthsa, K_{AB})

Verifies the request and policies

$E(\text{threatactorreport}/e_2, \text{uthealthsa}, \text{methodistsa}, [h(N_A + 1, \text{uthealthsa}, \text{ctisystem}, N_B)]_{\text{uthealthsapvtkey}}, [h(\text{threatactorreport}, \text{uthealthsa}, \text{ctisystem}, N_B)]_{\text{uthealthsapvtkey}})$

CTI System

threatactorreport , read, N_A , methodistsa, uthealthsa, MAC (threatactorreport, read, N_A , methodistsa, uthealthsa, K_{AB})

authreq, uthealthsa, ctisystem, N_A

$\{\text{ctisystem}, \text{uthealthsa}, N_B\}_{\text{uthealthsapubkey}}, [h(N_A, N_B, \text{ctisystem}, \text{uthealthsa})]_{\text{ctisystempvtkey}}$

$\{\text{uthealthsa}, \text{ctisystem}, N_B + 1\}_{\text{ctisystempubkey}}, [h(N_B + 1, \text{uthealthsa}, \text{ctisystem})]_{\text{uthealthsapvtkey}}, \text{Is methodistsa authorized to read threatactorreport}, \text{uthealthsa}, \text{ctisystem}, \text{read}, [h(\text{threatactorreport}, \text{uthealthsa}, \text{ctisystem}, N_A, N_B)]_{\text{uthealthsapvtkey}}$

yes/no, ctisystem, uthealthsa, $[h(\text{yes/no}, N_A + 1, N_B, \text{ctisystem}, \text{uthealthsa})]_{\text{ctisystempvtkey}}$

threatactorreport, K_{AB} , uthealthsa, methodistsa, $[h(N_A + 1, \text{uthealthsa}, \text{ctisystem}, N_B)]_{\text{uthealthsapvtkey}}, [h(\text{threatactorreport}, \text{uthealthsa}, \text{ctisystem}, N_A, N_B)]_{\text{uthealthsapvtkey}}$

UT Health SA