

A trace has been found.

Abbreviations
$\sim X\_1 = (\text{Auth2}(\text{h}(\sim M\_1), a, a\_1, \text{spk}(a\_2)), \text{sign}(\text{Auth3}(\text{Auth2}(\text{h}(\sim M\_1), a, a\_1, \text{spk}(a\_2)), \text{hash}(\text{Client1}(\sim M\_1, \sim M\_2))), a\_2, \text{Client1}(\sim M\_1, \sim M\_2))$ $= (\text{Auth2}(\text{h}(\text{rp\_id\_4}), a, a\_1, \text{spk}(a\_2)), \text{sign}(\text{Auth3}(\text{Auth2}(\text{h}(\text{rp\_id\_4}), a, a\_1, \text{spk}(a\_2)), \text{hash}(\text{Client1}(\text{rp\_id\_4}, \text{challenge\_3}))), a\_2, \text{Client1}(\text{rp\_id\_4}, \text{challenge\_3}))$

