

EAP-TLS with TLS 1.3 Commitment Message

- When an EAP server has sent its last handshake message (Finished or a Post-Handshake), it commits to not sending any more handshake messages by sending a Commitment Message. The Commitment Message is a TLS record with application data 0x00 (i.e. a TLS record with `TLSPlaintext.type = application_data`, `TLSPlaintext.length = 1`, and `TLSPlaintext.fragment = 0x00`). Note that the length of the plaintext is greater than the corresponding `TLSPlaintext.length` due to the inclusion of `TLSInnerPlaintext.type` and any padding supplied by the sender. EAP server implementations **MUST** set `TLSPlaintext.fragment` to 0x00, but EAP peer implementations **MUST** accept any application data as a Commitment Message from the EAP server to not send any more handshake messages. The Commitment Message may be sent in the same EAP-Request as the last handshake record or in a separate EAP-Request. Sending the Commitment Message in a separate EAP-Request adds an additional round-trip, but may be necessary in TLS implementations that only implement a subset of TLS 1.3.