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AMD/Xilinx embeddedsw

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lwIP 2.1.2
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 * This file is part of the lwIP TCP/IP stack.
 *
 * Author: Adam Dunkels <adam@sics.se>
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PolarSSL

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Original version by James Carlson

This implementation of EAP supports MD5-Challenge and SRP-SHA1 authentication styles. Note that support of MD5-Challenge is a requirement of RFC 2284, and that it's essentially just a reimplementation of regular RFC 1994 CHAP using EAP messages.

As an authenticator ("server"), there are multiple phases for each style. In the first phase of each style, the unauthenticated peer name is queried using the EAP Identity request type. If the "remotename" option is used, then this phase is skipped, because the peer's name is presumed to be known.

For MD5-Challenge, there are two phases, and the second phase consists of sending the challenge itself and handling the associated response.

For SRP-SHA1, there are four phases. The second sends 's', 'N', and 'g'. The reply contains 'A'. The third sends 'B', and the reply contains 'M1'. The forth sends the 'M2' value.

As an authenticatee ("client"), there's just a single phase -- responding to the queries generated by the peer. EAP is an authenticator-driven protocol.

Based on draft-ietf-pppext-eap-srp-03.txt.

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REVISION HISTORY

06-01-01 Marc Boucher <marc@mbsi.ca>
Ported to lwIP.

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Van Jacobson (van@helios.ee.lbl.gov), Dec 31, 1989:
Initial distribution.

Modified June 1993 by Paul Mackerras, paulus@cs.anu.edu.au,
so that the entire packet being decompressed doesn't have
to be in contiguous memory (just the compressed header).

Modified March 1998 by Guy Lancaster, glanca@gesn.com,
for a 16 bit processor.

=====
SSLeay MD5 (Eric Young)
=====

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