

Treck TCP/IP release 4.2 features:

1. Added Universal Plug and Play

2. Added PPPoE

- . Dialer ported to DSP

3. Added DHCPv6

4. New APIs for web server

- . Allow user to set first parameter to the File System Interface.
- . Allow app to tell webserver if URL is CGI or not.
- . Allow app to add new content types for static pages.
- . Allow app to set content type for CGI pages
- . Allow app to retrieve username & password for a connection
- . Allow app access to "Host Name" and "Date and Time" header fields (this functionality all ready exists in the dev path).
- . Change format of header fields given to user to contain field name as well
- . Check problems with server timing out on multiple connections from the same IP address, especially via SSL
- . tfHttpdUserCgiSend/tfHttpdUserSendBuffer never returns TM_EWOULDBLOCK like documentation indicates
- . Added enhancements for UPnP such as low-level APIs, HEAD method support, RANGE and CONNECTION header support, chunked body receiving, etc.

5. Added pre-allocated timers

- . Added pre-allocated timers for ARP, Neighbor Discovery, TCP, IPsec, and IKE

6. Added 802.3 Link Layer support

7. Added 64-bit compiler support

8. Updated WinPcap device driver to work with latest version (3.1)

9. IKE ported to 16-bit platform

10. Added protection from attacks

- . Now protected from Denial of Service "Land Attack" and TCP SYN flood attack
- . Now protected from length analysis attack

11. Added FTP over SSL (client only)

12. VLAN tagging support