Turbo Treck TCP/IP release 4.5 features:

IKE
1. Added IKE Policy Support
2. Added NAT-T support
3. Added DPD support
4. Added support for IKE as a separate task

IPsec
5. Added support for IPsec as a separate task
6. IPsec Policy Enhancements
   . Multiple phase 2 proposals
   . Enhanced bundle processing
   . IPsec policy opaque data support
7. Added IP Compression negotiation support

IKE & IPsec
8. Added IKE & IPsec priority processing
9. Security Protocol Enhancements
   . Simultaneous re-keying optimizations
   . AES authentication and encryption algorithm support
   . Diffie-Hellman Group 14 support
   . ESP/UDP Encapsulation support with NAT-Translation (NAT-T)
   . 64-bit SA lifetime support
   . 64-bit sequence number support
   . Infinite lifetime support
   . Enhanced logging
10. Added Security Statistics
   . Statistic information is available for IKE and IPsec.

BOOTP & DHCP
11. Added support for setting and retrieving DHCP & BOOTP options not recognized by Treck

12. Added support for setting the hostname option with BOOTP

13. Added API tfFinishConfigInterface()
   . The user can open an interface without configuring an IP address immediately, then, once an IP address has been obtained using AUTO-IP, user BOOTP, or user DHCP, the user can finish the configuration. This is an extension to tfFinishOpenInterface() allowing the user to choose any multihome index.

14. Added support for switching from BOOTP to DHCP (or vice versa) without having to close the interface
15. Added BOOTP user interface similar to the DHCP user interface

IKE, IPsec, & SSL
16. Asynchronous Crypto Processing
   . The user can block a crypto engine while it is executing and then awaken it when the processing has completed.

<u>POP3</u>
17. **Added support for POP3 with SSL**

18. **Added support for the POP3 UIDL command**

<u>General</u>
19. **Added Strong End System Model support**

20. **New APIs for adding and deleting IPv6 Default "Gateways" (Routers)**

21. **New API allows the user to specify the remote MAC address, output interface, and remote and local IP addresses when sending a packet.**

22. **New API allows the user to get the remote MAC address, input interface, and remote and local IP addresses when receiving a packet.**