QuickSec Server Toolkit

Carrier-Grade IPSec toolkit for Embedded Security Developers

QuickSec Server Toolkit is a complete IPSec development toolkit that provides a carrier-grade IPSec VPN solution for networking device developers. QuickSec Server Toolkit enables robust and standards-compliant authentication, confidentiality, and data integrity for security gateways, routers and network servers. With hundreds of proven OEM implementations, QuickSec provides the advanced levels of protection, reliability, and performance mandated by OEM customers and industry standards.

Secure Mobility with MOBIKE

Fully interoperable with QuickSec and other standard-based clients, the server toolkit includes IKEv2 as well as MobIKE for mobile VPN client support. MobIKE is the latest mobility and multihoming addition to the IKE key exchange protocol specified by IETF. It enables seamless roaming of IPSec VPN clients from one IP network to another without terminating and re-negotiating the secure VPN connection.

Complete Security Solution

The QuickSec security toolkits provide a complete, standards-compliant, and interoperable IPSec protocol implementation including IPSec cryptography algorithms such as AES, 3DES, SHA-1, SHA-256, MD5, Diffie-Hellman, RSA, DSA, as well as PKI acceleration.

Server and Client IPSec Toolkit

The QuickSec Server and Client Toolkits are the first compatible client-side and server-side development tools implementing the most current IPSec security features including MobIKE, IKEv2, stateful TCP/IP firewall, IPv6/IPv4 support, 64-bit platform support, and pre-integration with high-speed security processors for hardware acceleration.

Secure Mobility with Support for MOBIKE

• Carrier-grade IPSec VPN Security Solution
• Secure Mobility with Support for MOBIKE
• Proven Reliability and Interoperability
• Seamless Scalability
• Standards-Based VPNC Certified Compatibility
• Broad OS and Hardware Acceleration Support
• Small Footprint and Deterministic Memory Allocation
• Integrated Client and Server-side IPSec Toolkits
• Reduced Development Cost and Time
• World-wide OEM Customer Support

Advanced Features

The server toolkit also includes remote access features and high availability APIs for import and export of IPSec security associations for device redundancy and failover. The small runtime footprint with linear deterministic memory allocation ensures seamless scalability to meet the highest performance demands.

Robust Security Performance through Hardware Acceleration

To accelerate performance-critical security algorithms and protocols, QuickSec supports all popular security processors in the market, including SafeNet’s SafeXcel 51x0, 1141, 1741, and 184x series, giving OEM developers the flexibility to select security hardware that meets their specific design goals.
Specifications

Complete IPSec Cryptography
• AES, DES, 3DES, RSA, SHA-1, SHA-2, MD5, Diffie-Hellman, and PKI

IKE Policy Manager
• Dual-mode IKEv2/IKEv1 policy manager with auto-negotiation and IKEv1 fallback features

Authentication
• Mobike *
• Robust IKEv2/v1 authentication
• X.509 certificates
• XAUTH
• EAP-AKA, EAP-SIM
• Pre-shared keys
• Dead peer detection
• Re-keying

Remote Access Support
• Built-in IP address allocation
• NAT, NAT Traversal
• EAP authentication
• RADIUS server authentication

Other Features
• High availability APIs for import and export of IPSec security associations
• ALGs for various protocols (including HTTP, SIP, FTP, CIFS)
• Application traffic inspection at the firewall
• Multi-layer stateful TCP/IP firewall with attack prevention
• IPv4 and IPv6 support

Platform Support
• Linux 2.4 / 2.6
• MontaVista Linux 4.0
• Microsoft Windows 2000 / XP / Server 2003(32-bit and 64-bit),MSTA
• VxWorks
• NetBSD

Hardware Acceleration
• SafeXcel-51x0
• AMCC 440 EPx/GRx

SafeNet OEM Security Solutions
SafeNet's comprehensive security systems are deployed by the world's leading networking OEMs, including AMCC, AMD, Cisco Systems, Hitachi, HP, Juniper Networks, Lucent Technologies, PMC-Sierra, Samsung, Siemens, and Texas Instruments, to name a few. The leading global semiconductor, telecommunications, enterprise, and wireless OEMs trust SafeNet's best-in-class security solutions for their next-generation networking solutions.

SafeNet is the only vendor that provides complete and proven security systems, including QuickSec security toolkits, SafeXcel security processors, and silicon-proven semiconductor IP – delivering superior protection while reducing cost and time to market for networking OEMs. For more information about SafeNet and the QuickSec Toolkits, please visit http://www.safenet-inc.com/QuickSec.