Färist VPN

– Secure communications over untrusted IP-networks

Färist VPN provides secure communication over untrusted IP-networks. It makes it possible to interconnect private networks over untrusted public networks using encrypted tunnels.

The Färist VPN is a high assurance system that has been evaluated and certified according to Common Criteria for IT Security Evaluation (ISO/IEC15408:1999) with assurance packet EAL4+. It is approved to protect EU-restricted information in Sweden (specific version).

The Färist VPN-system is based on IPSEC standards and supports digital certificates for automatic key exchange. There is also support for encapsulating the ESP-packets in UDP for NAT-traversal.

Traffic in the tunnels can be restricted using IP-filters and it is possible to have traffic encrypted multiple times to be able to pass through multiple layers of VPN-gateways.

All management can be done using a standard web-browser, with no need for a special management station. The system provides detailed logging and traffic statistics. There is also a centralized management system available that can be used to effectively manage large groups of Färists.

Färist VPN appliance comes in various sizes, from a small mobile unit to a datacenter high performance 19" system.

Performance depends on the hardware and will increase over time as faster hardware becomes available. A 2.8 Ghz P4 machine will deliver performance of up to 150 Mbit/s.
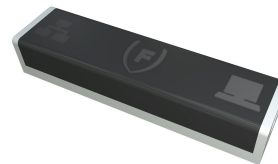
Key Features

» Provides secure communication over untrusted public networks.

» Formally evaluated and certified according to Common Criteria for IT Security Evaluation (ISO/IEC15408:1999) with assurance packet EAL4+.

» Approved to protect EU-restricted information in Sweden.

» Manual keying or automatic key exchange using RSA-certificates.

» Encryption using 3DES (168-bits) or AES256 (256-bits).

» Supports up to 500 concurrent tunnels.

» Performance up to 200 Mbit/s

» Built in failover functionality for high availability configurations.

» Automatic secure update capability over the network.

» User friendly management using a standard web browser.

» Internally based on a standard PC-architecture makes it highly scalable, economical and future proof.

» Made in Sweden

Technical specifications

Appliance 40100c4CF

» 1 GHz Intel Celeron M CPU

» 256 MB RAM

» 512 MB Flash

» 4 Ethernet

» Fanless

» USB for configuration and certificate import/export

» Max performance of 40 Mbit/s

» Dimensions: 48.5 x 234 x 175 mm

» Rack mount kit available (1U)

Personal A100m2

» For personal use with a laptop

» Very easy to use administration

» Provides a single tunnel to a central

» 200 Mhz X-scale CPU

» 64 MB RAM

» 16 MB Flash

» 2 Ethernet

» Power from USB for mobile applications

» Max performance of 1 Mbit/s

» Dimensions: 34 x 24 x 135 mm

Rack mount B100r4

» 19" Rack mounted high performance system

» 2.67 Ghz Xeon 3330 QuadCore

» 4 GB RAM

» 4 Gigabit Ethernet

» Max performance of 200 Mbit/s

» Dimensions: 480 x 44 x 390 mm

» Weight 5.6 kg

Assurance

» Formally evaluated and certified according to Common Criteria for IT Security Evaluation (ISO/IEC15408:1999) with assurance packet EAL4+.

» Swedish national crypto verification and approved for EU-restricted information

» Source code reviewed by a national laboratory.

Standards

» IPv4

» IPSEC ESP (RFC 2406) in tunnel mode

NAT Compatibility

» UDP encapsulation of ESP-packets for NAT-traversal

Key management

» Manual keying

» Automatic key exchange using RSA-certificates with TLS-based SKUT protocol

Administration

» HTTPS based remote administration with client certificates

» Any standard Web-browser can be used for administration

» Centralized management system available

Remote logging and monitoring

» Remote logging with syslog protocol

» Remote monitoring with SNMP

Advanced tunneling

» Supports multiple layers of tunneling (tunnel in tunnel)

» Enables concurrent end-to-end and hop-by-hop authentication by each tunnel

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