

TRC 7535: Mistral

Secure VPN for TCP/IP networks

TO PROTECT YOUR
INFORMATION SYSTEMS:

- **AGAINST ATTACKS
FROM THE NETWORK**

TO PROTECT YOUR DATA:

- **AGAINST UNAUTHORIZED
DISCLOSURE OF
INFORMATION**

MISTRAL PROVIDES A
WHOLE SET OF SECURITY
SERVICES TO PROTECT
TCP/IP NETWORKS

- **The highly modular Mistral system comprises:**
 - independent, high-performance security equipment,
 - roaming clients for the remote terminals,
 - a centralized Management Centre for remote-management of the Mistral equipment deployed,
 - a Key Production Centre for generating the secret elements.

Based on VPN (Virtual Private Network) technologies and IPSec standards, the Mistral system is an essential security solution for any deployment of applications on TCP/IP networks.

- **The Mistral system is applications-transparent and:**
 - enforces security policies and associations,
 - guarantees access control through filtering of authorized IP addresses, filtering of protocols and ports and through encrypting, decrypting and implicit authentication of data,
 - checks the integrity of the data transmitted.

Whether used alone or together with a firewall, the Mistral system allows the use of unprotected networks such as the Internet to transmit confidential information, by establishing virtual private networks (VPN) on public communication infrastructures.

MODULAR CONFIGURATION

Mistral equipment is operated from:

- either a console connected locally (password protection),
- or a smart card containing the configuration parameters,
- or secure remote-management from a Mistral Management Centre.

The Mistral equipment can be configured in two main modes:

- the equipment is stand-alone, with all configuration parameters kept in the Mistral equipment,
- a valid smart card is needed to operate the equipment.

GREATER PROTECTION

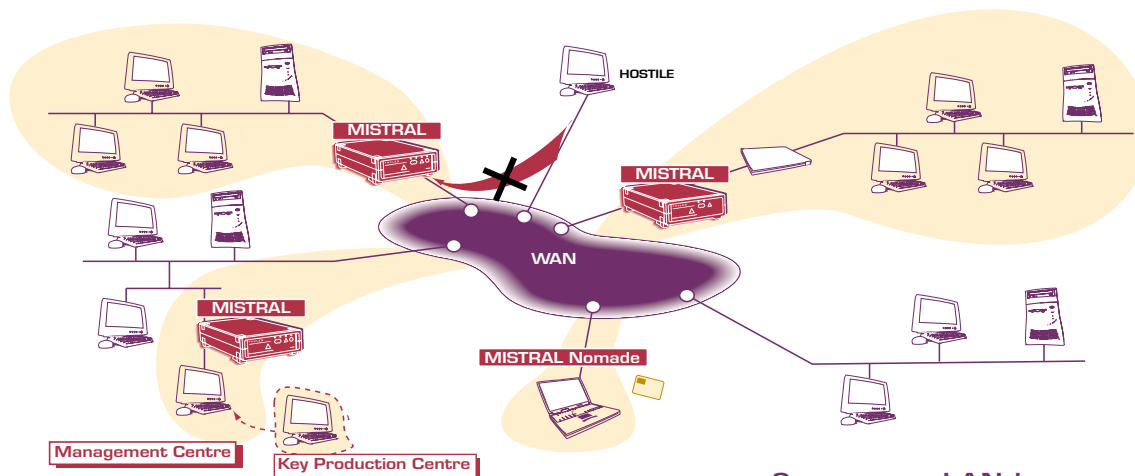
If errors are detected on the frames, the Mistral equipment transmits alarms to the Management Centre for real time monitoring.

TOTAL FLEXIBILITY

For software upgrades, the Management Centre provides secure, remote downloads to the deployed equipment offering total operational flexibility.

REMOTE ACCESS

Users equipped with the Mistral Nomade solution have remote access to sites protected by Mistral equipment.



SECURITY OF LAN INTERCONNECTIONS

Security

- Block encryption algorithm
- 128 bit keys
- IP source / destination address filtering
- Protocol and port filtering
- Fast forward mode encryption of the data field of IP/TCP datagrams
- IPSec (RFC 2406) tunnel mode encryption; authentication and integrity
- Up to 1,000 simultaneous VPNs
- Up to 1,000 security policies (IP address or address group pairs)
- Up to 1,000 security associations (keys)
- Transmission of security alarms

Network

- 10 base T & 100 base TX network interface
- IEEE 802.3, Ethernet and IP V4 compatible
- Transparent to application protocols
- Totally transparent in Fast Forward mode
- Network supervision by SNMP

Administration

- Configuration by smart card
- Local configuration from a console
- Configuration by secure remote-management
- Audit & transmission of security alarms
- Secure downloading of software updates

Environment (Mistral equipment)

- Dimensions: 260 mm x 158 mm x 62 mm
- Power supply: 115 / 230 volts, 50 / 60 hz

THALES

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