THALES COMMUNICATIONS

FOX

THE ITSEC E4 CERTIFIED FIREWALL

THALES

FOX - THE SOLUTION FOR SECURE NETWORK INTERCONNECTIONS

The growth and standardisation of telecommunications and of computing, the geographical spread of systems, and the volume of information processed greatly magnify the threats posed to information systems.

FOX - THE ITSEC E4-CERTIFIED PROTOCOL FIREWALL

With FOX, exchanges of e-mails, Intranet / Extranet applications, and access to data servers are rigorously controlled.

FOX has a line of configurable filters to meet all security requirements.

INNOVATIVE ARCHITECTURE

Filtering processing is done by two independent units, each assigned to one of the networks to be interconnected. The two units are themselves interconnected by a high-speed link and supervised by a specialised management station. This architecture ensures that the information received from the networks is kept completely separate.

USER-FRIENDLY CONFIGURATION

Control of security requires a precise overall vision of the filtering policy that governs exchanges. The FOX management station makes it possible to define the network topology and the configuration of the filters. It may be local or remote. It ensures real-time surveillance of activity and provides a detailed analysis of the audit logs. For maximum security, the management functions are performed by two distinct categories of operators:

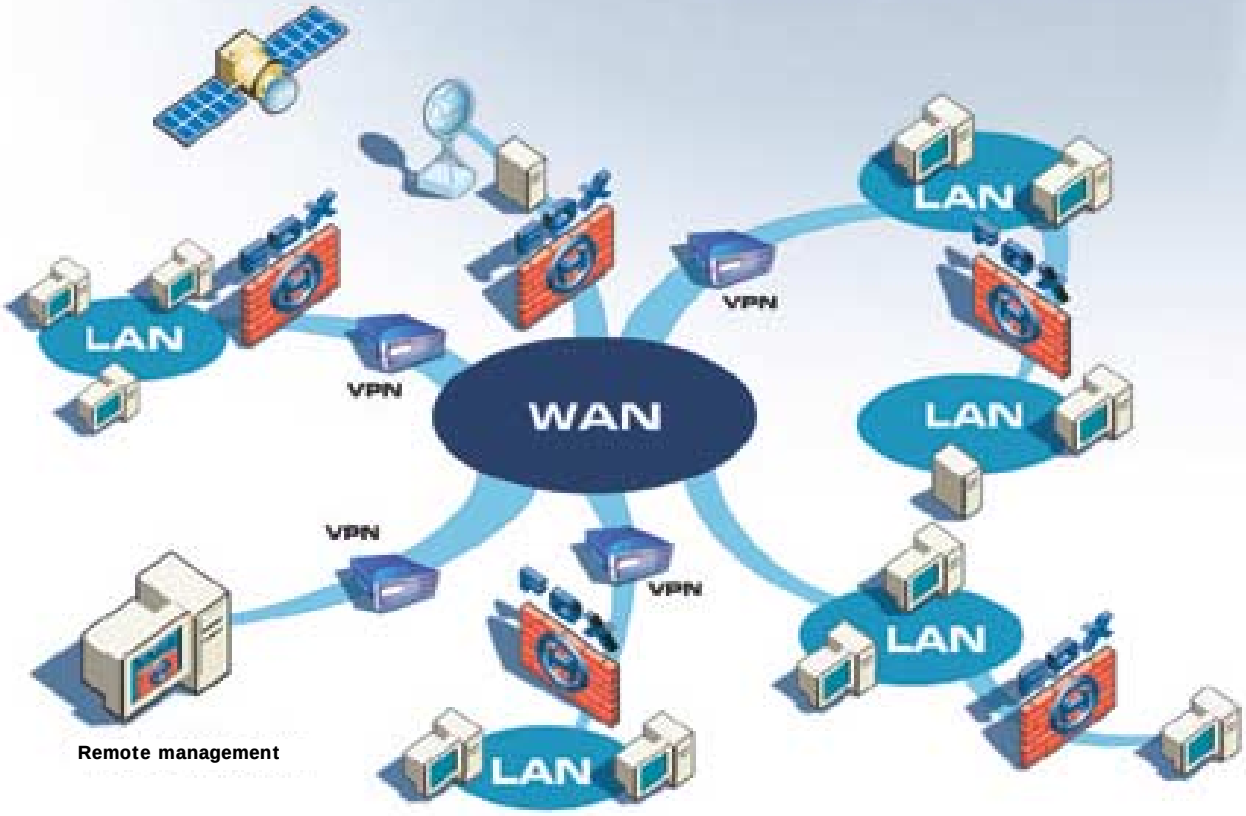
- the 'security officer', who defines the context of the security policy by imposing the minimum level the filters must satisfy,
- the 'operators', who configure FOX within the limits set by the security officer.

AN OPEN-ENDED LINE OF CONFIGURABLE FILTERS

FOX supports the communication technologies used in information systems. The filters are applied to all levels of Internet protocols: communication protocols (IP, TCP, UDP, ICMP), network resource management protocols (DNS), applications protocols such as SMTP for e-mail, HTTP for Web applications, and FTP for computer file exchanges.

The filters can be customised and combined to adapt them to the required level of protection.

For each of these protocols, FOX checks the consistency of queries against the security policy in force. It is possible to limit exchanges selectively to requests for sending or reception of information, or to server administration.



FOX examines Web applications based on the HTTP protocol more specifically in order to analyse and filter queries by:

- checking URLs,
- disabling JavaScript instructions, Java applets, and ActiveX components,
- eliminating potential hidden channels.

FOX also analyses and filters electronic messaging applications that use the SMTP protocol in a similar way by:

- checking the size of e-mails, and verifying senders and addressees,
- restricting authorised types of MIME content.

FOX has many mechanisms to:

- control attempts to saturate the network (denial-of-service attacks),
- delete any information hidden in protocol headers (hidden storage channels),
- eliminate hidden time channels based on the frame transmission frequency,
- mask the network topology by translating IP addresses and by checking ICMP messages and DNS queries.

A FLEXIBLE, FULL-SERVICE OFFERING

THALES Communications proposes a broad range of support services to help its customers to deploy and operate systems, including:

- **training,**
- **installation / deployment,**
- **warranty extension,**
- **software updating,**
- **customer call centre,**
- **on-site technical support,**
- **maintenance.**

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