Protecting Euro-ISDN systems and telecommunication environments against eavesdropping

Top-security encryption of telephone calls, data, faxes and video conferences

■   SYSTEMS 2001, Munich — Rohde & Schwarz SIT has developed the Euro-ISDN encryption unit TopSec730 for comprehensive protection of the telecommunication environments in business enterprises and public authorities. The unit comes in a 19" cabinet and is connected into the S_{2M} link; it provides simultaneous encryption of up to 30 connections. All ISDN services, such as telephone calls, faxes, data transmission and video conferences with a remote TopSec station, can be reliably protected against espionage or other misuse.

With the TopSec730, Rohde & Schwarz SIT adds a solution for ISDN systems to its TopSec encryption products for secure communication. When the TopSec730 is connected to the S_{2M} link, all information transmitted via Euro-ISDN will be reliably encrypted, if required. To activate the crypto mode, a defined code number has to be dialled before the number of the called station. The two TopSec stations then agree on a 128-bit key, which is randomly selected from 10^{38} (10 to the power of 38) possibilities and erased as soon as the connection is terminated. An asymmetrical 1024-bit algorithm is used for the key agreement. The combination of the two different encryption methods provides maximum security.

The TopSec730 encryption unit for Euro-ISDN systems is available now from Rohde & Schwarz.

<u>Rohde & Schwarz SIT GmbH</u>

Rohde & Schwarz SIT GmbH, a subsidiary of Rohde & Schwarz GmbH & Co. KG, offers solutions to security problems in information technology. Key activities are the development of crypto products for the protection of data in modern information and communication systems as well as consulting and IT security analyses for industry and government authorities.

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