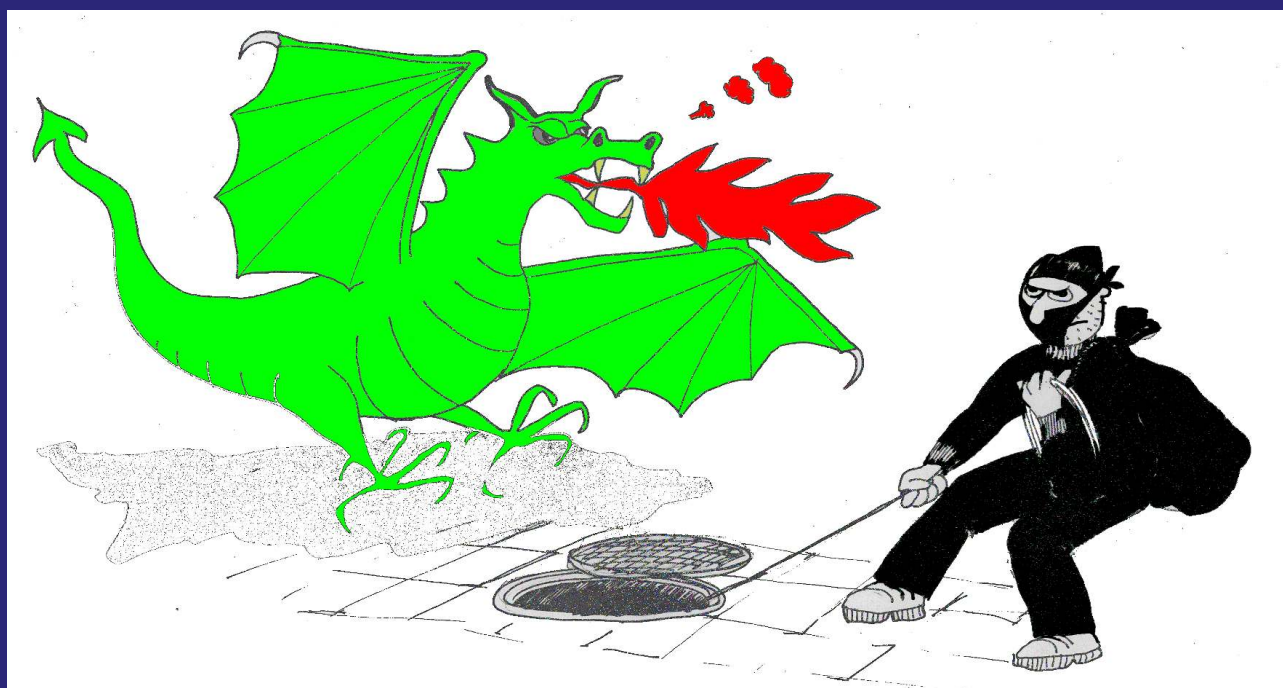


SMOK-2U **Cable Monitoring and Protection System**



- SMOK-2U is effective against theft of communication cables in locations within 10 km radius.
- Gives automatic alert to security personnel in 2 seconds.
- Installation of additional cabling along protected telecommunication line is not necessary.
- Can be quickly installed and set up.
- Easy integration with existing security systems.
- Recommended by Security Agency Scorpion Sp. z o.o. and Network Maintenance Department of TPSA.
- Can protect all kinds of copper cable communication lines.

EFFECTIVE PROTECTION OF CABLING SYSTEMS

System applications

SMOK-2U system is designed for monitoring, protection and supervision of:

- Aerial cables and duct cables,
- Unmanned facilities like street cabinets, manholes and entrances to them, cabinets housing access network equipment, containers with remote switching systems, etc.

The system enables to:

- Detect unauthorized entry, destruction and vandalism attempts, theft or terrorist activity,
- Monitor operation of internal supervision of protected facilities,
- Monitor and respond to multiple alarms generated by protected facilities and equipment.

SMOK-2U is able to either operate independently, make use of signals generated by other systems or to be integrated as a part of another security system. Such capabilities make it useful even when certain network elements, e.g. access cabinets have their own simple security functions. Many of them have door opening sensors, but no other security devices as available, and alarms generated there are often not used at all.

SMOK-2U makes it possible to continuously monitor all threats to access cabinets or other facilities and properly respond to them. Extensive functionality, flexibility and ability to protect a variety of network facilities make this system truly outstanding among other similar solutions and a very versatile one.

Application of SMOK-2U is desirable not only because of functionality, but economics as well, as it reduces networks maintenance costs (OPEX). Network operator can avoid:

- expenses needed to re-install pilfered cables and rebuild destroyed or damaged facilities,
- loss of revenue,
- loss of dissatisfied customers,
- additional costs and workload due to lack of automatic infrastructure monitoring, supervision, control and logging,
- customer complaints due to loss of service.

SMOK-2U can be an important part of network sealing process, as it:

- complies with national and European standards for alarm systems, generated and tolerated interference levels and environmental conditions,
- has been tested by Central Testing Laboratory of National Institute of Telecommunications and awarded Technical Opinion No. 018/2005,
- has been approved by the director of TPSA Network Maintenance Department, following trial operation in Katowice and Warsaw networks.

SMOK-2U is not physically interconnected with switching network, so its operation and technical specifications do not affect system operation.

WE KNOW, HOW

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