
# Schrack Seconet Fire Alarm Systems

FIRE ALARM

SCHRACK SECONET

# Facts & Figures – basic data.

Headquarter
Eibesbrunnergasse 18, 1120 Vienna

Manufacturing premises

- BECOM Electronics GmbH (Lockenhaus - AT)
- HEKATRON Technik GmbH (Sulzburg - DE)

Products

- Intelligent Addressable Fire Alarm System
- Intelligent Addressable Heat Detection Cable
- Nurse Call / Hospital Communications Systems

# Milestones.

1919
Radio Laboratorium E. Schrack

1948
Company renamed as Schrack Elektrizitäts AG

1994
Management Buy Out

1997
Securitas AG purchases a stake

2009
Operations in India

2012
Forst & Sullivan Award

FROST & SULLIVAN

# Fire, Security and IBMS Award 2012
# Excellence in Product Differentiation Award (Fire Detection)
# India Fire and Gas Detection & Suppression Market

This is to certify

**Schrack Seconet India**

Received the Excellence in Product Differentiation Award (Fire Detection) in India Fire and Gas Detection & Suppression Market

from

Frost & Sullivan

**Aroop Zutshi**
Global President &
Managing Partner

**Anand Rangachary**
Partner & Managing Director
South Asia, Middle East & North Africa

# Some Indian Customers …















# Some Indian Customers …

APGENCO

KARNATAKA POWER CORPORATION LTD

NPCL

दामोदर घाटी निगम DVC

पावरग्रिड Power Grid Corporation of India Ltd

एसजेवीएन SJVN

एन बी सी सी NBCC A Navratna CPSE

IPGCL PPCL

चण्डीगढ़ प्रशासन CHANDIGARH ADMINISTRATION

Empowering India • कोल इण्डिया Coal India • Nurturing Nature • Enabling Life

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

GUJARAT INDUSTRIES POWER CO. LTD.

कोलकाता पत्तन न्यास KOLKATA PORT TRUST

PSPCL Punjab State Power Corporation Limited

# Some Indian Customers

# Premium fire alarm systems – Overview


- Fire alarm panels
- Management systems and interfaces to other systems
- IP applications
- Networking
- Peripherals and alarm devices
- Special detectors
- External power supplies

Link to Integral IP video clip

Schrack Seconet Fire Alarm Systems


# Fire alarm panels Integral IP

**Higher value • Highest reliability • Best practice for users and installers**

# Integral IP system family

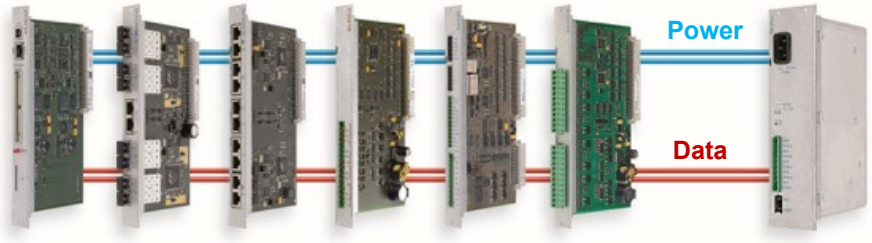
- Common hardware platform
- Same firmware and PC tools for all panels
- For all system sizes
- Intelligent network structures
- Hardware & software redundancy
- Interfaces BACnet, OPC, MODBUS etc.
- Intuitive operating concept
- Operation in national languages
- Forward and backward compatibility
- Designed in Austria, made in Germany

# Integral IP MX

- Fully redundant and modular fire alarm control panel
- Decentralised system design
- Could be networked from a single control panel up to large systems by using copper or fibre connections
- Up to 16 loops (4,000 elements) per control panel
- Event memory for up to 65,000 messages
- Freely programmable inputs/outputs and algorithms
- Remote access via TCP/IP
- Various communication protocols for connection to management systems and higher-level systems
- 100% compatible to former systems
- Multi-zone extinguishing panel

# Double security thanks to real redundancy

- Two identical systems work constantly in "Hot-Stand-By-Operation”




- Not only the microprocessor structure, but all other system structures, components and parts are also duplicated
- The occurrence of a fault in the active section of the system causes the system to be automatically switched over to the second side of the system and for a system fault to be indicated
- All functions, such as detection, triggering of alarms, plain text indication and controlling of fire alarm devices etc. remain unaffected

# System availability

## Hardware & software redundancy

- Integral IP is the one and only system with full and real redundancy
- No function limitation in the event of a fault - even the fire control devices (such as door holding magnets) continue to work without restrictions!
- The fault can be fixed in an ordered and planned way
- Non redundant systems are restricted to 512 detectors!

## Redundant device connection via MMI-BUS

- Even in the event of a system or a connection fault, all operating and display functions continue to work without restriction, therefore no need for internal operating panels

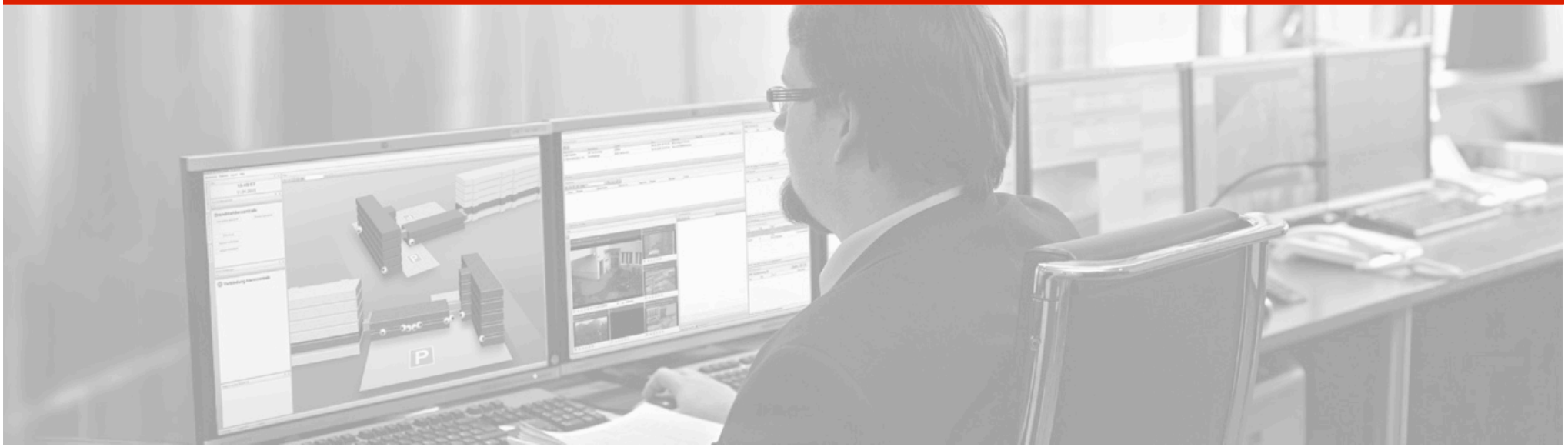
## Redundant mesh network

- Even if a connection fails, the system continues to operate without restrictions
- No production downtime or other operating interruptions

# Operating panel Integral MAP


Membrane keypad and plain text display available in more than 20 languages

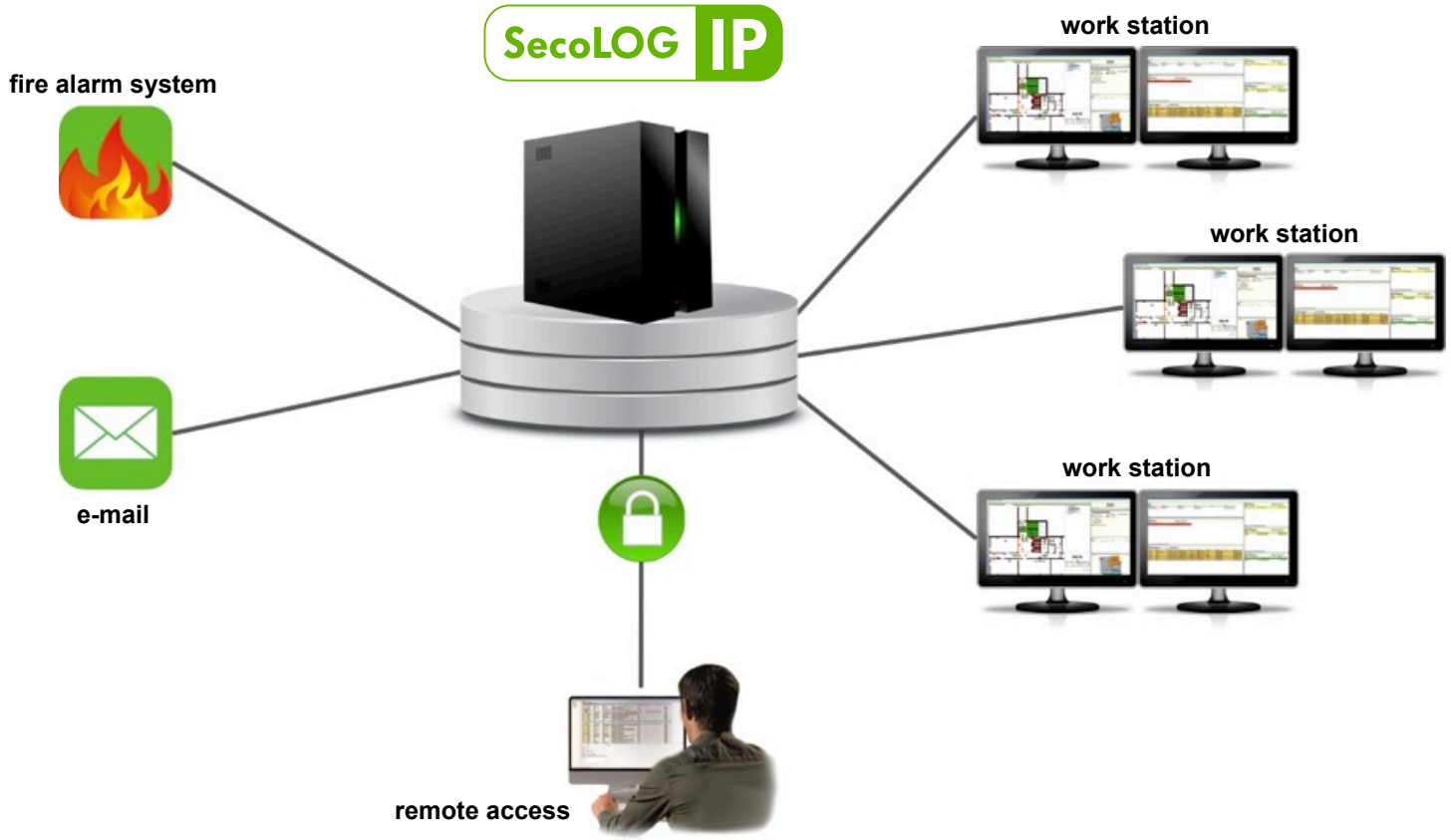
Schrack Seconet Fire Alarm Systems



# Fire alarm operation control system and interfaces

**SecoLOG IP • Interfaces • Selectable transmission media • Different protocols**

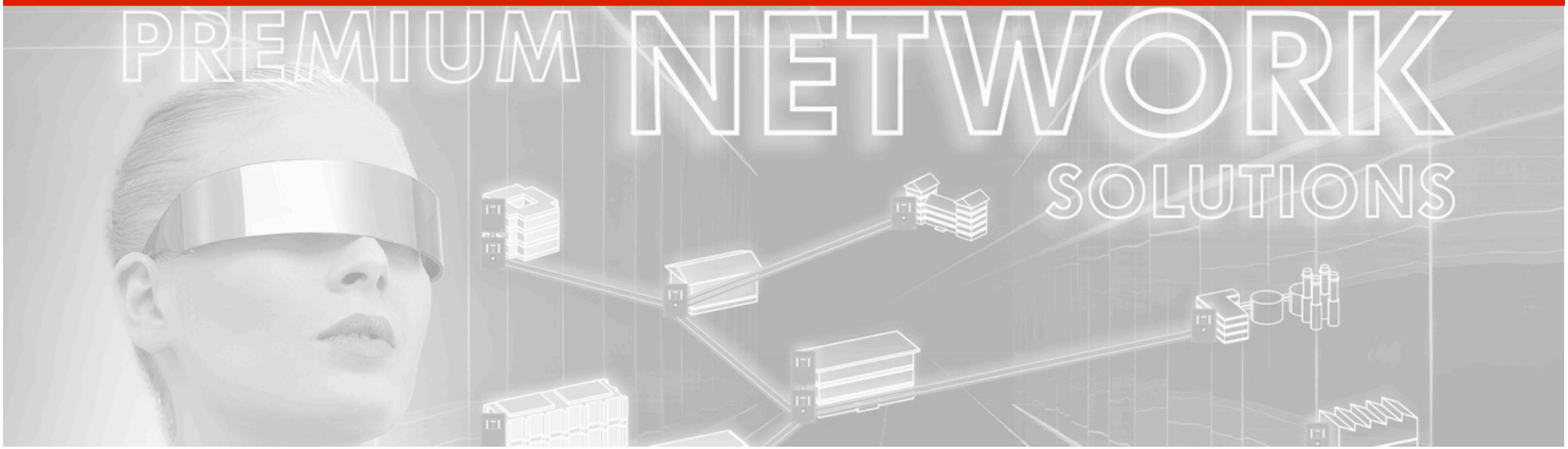
# Fire alarm operation control system SecoLOG IP



# Fire alarm operation control system SecoLOG IP

- Clear and user-friendly operation in message and command direction
- IP interface for networking using existing LAN networks
- Compatible with all Schrack fire alarm systems - can also be integrated subsequently
- Multi-user enabled and approved in accordance with ÖNORM F 3003

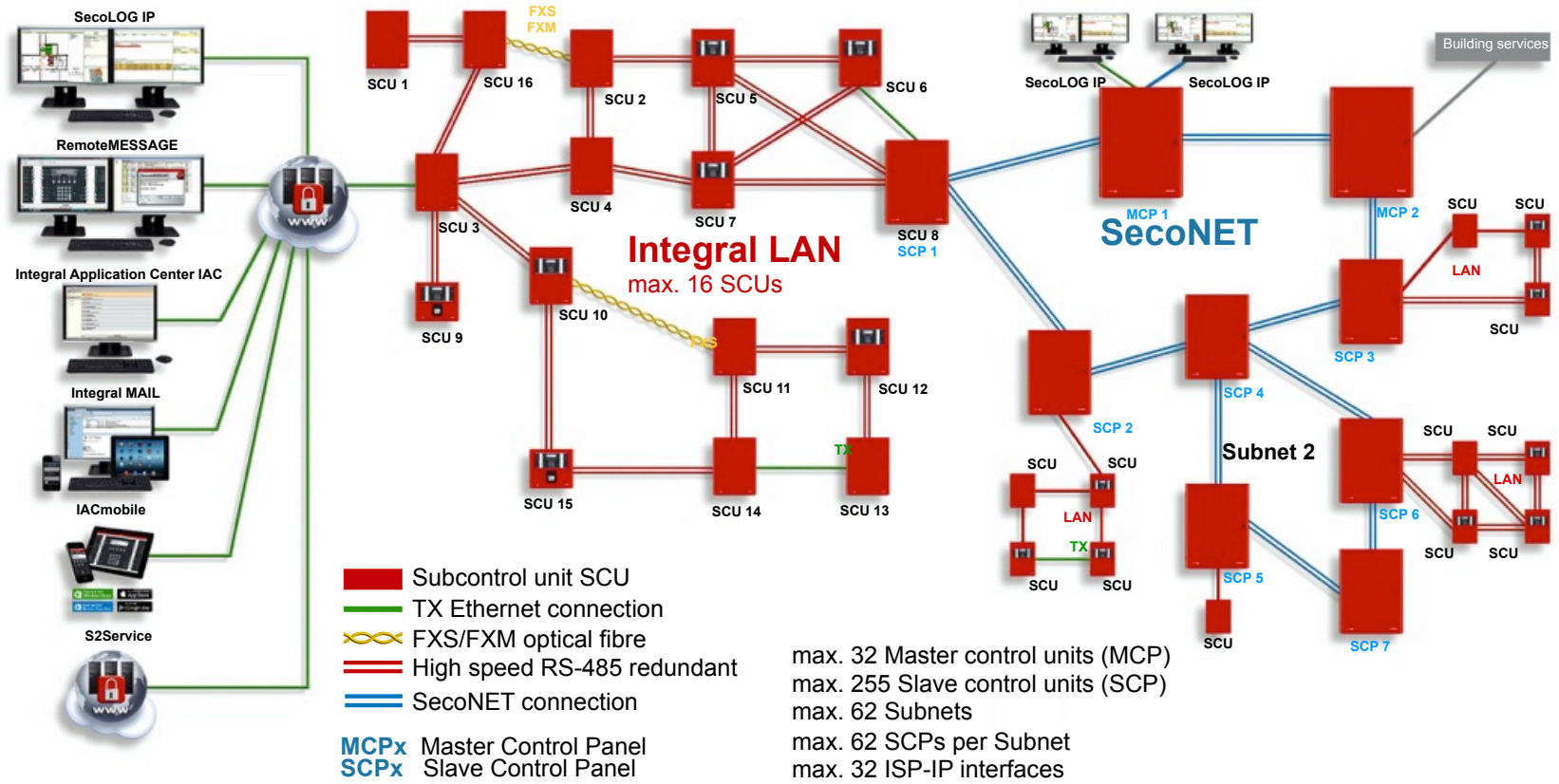
Schrack Seconet Fire Alarm Systems



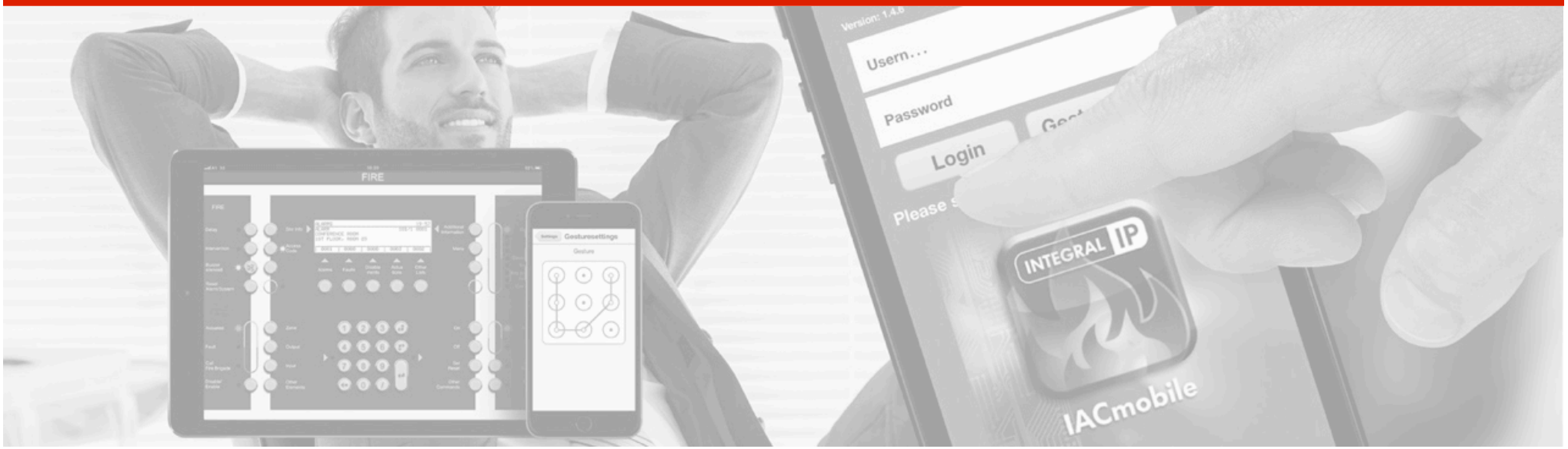

# Premium network solutions

**Investment security • Flexible modernisation • Forward & backward compatibility • Scalability**

# Integral IP – Premium networking



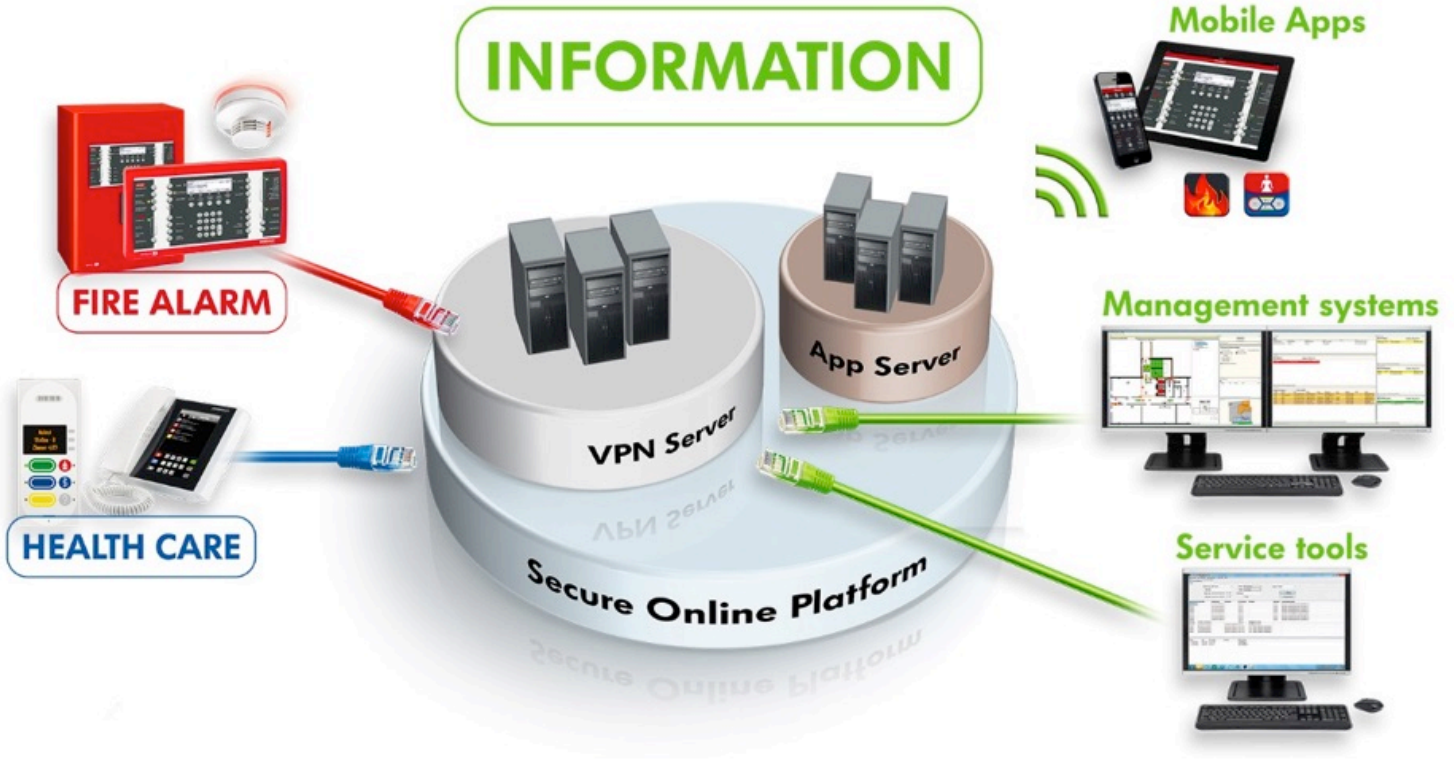
Schrack Seconet Fire Alarm Systems




# Premium IP solutions

**Get all information • Operate the system • Programming and service options**

# IP Applications – Overview



# Integral IP Applications - Overview


## Getting information

- Analysis of the current system status before a service or maintenance action
- Receipt of selected messages (alarms, faults etc.)

## Operating the system

- Remote operation of the control panel or
- Remote help during system operation

## Programming

- Support during system start-up
- Assistance during trouble-shooting or reprogramming

# Premium IP-Solutions

## Remote operation

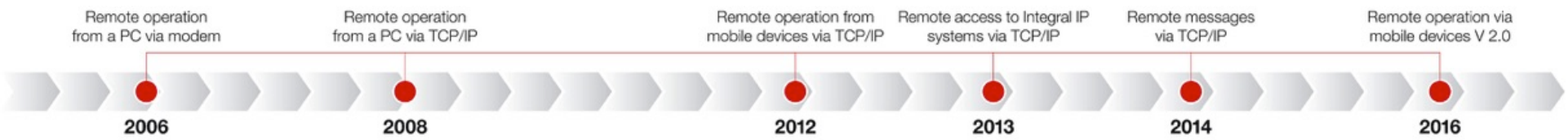
## Remote Messages

## Notifications

- Push notifications
- SMS
- E-Mail
- Pop-up messages

## Mobile Access

## FROM VISION TO REALITY

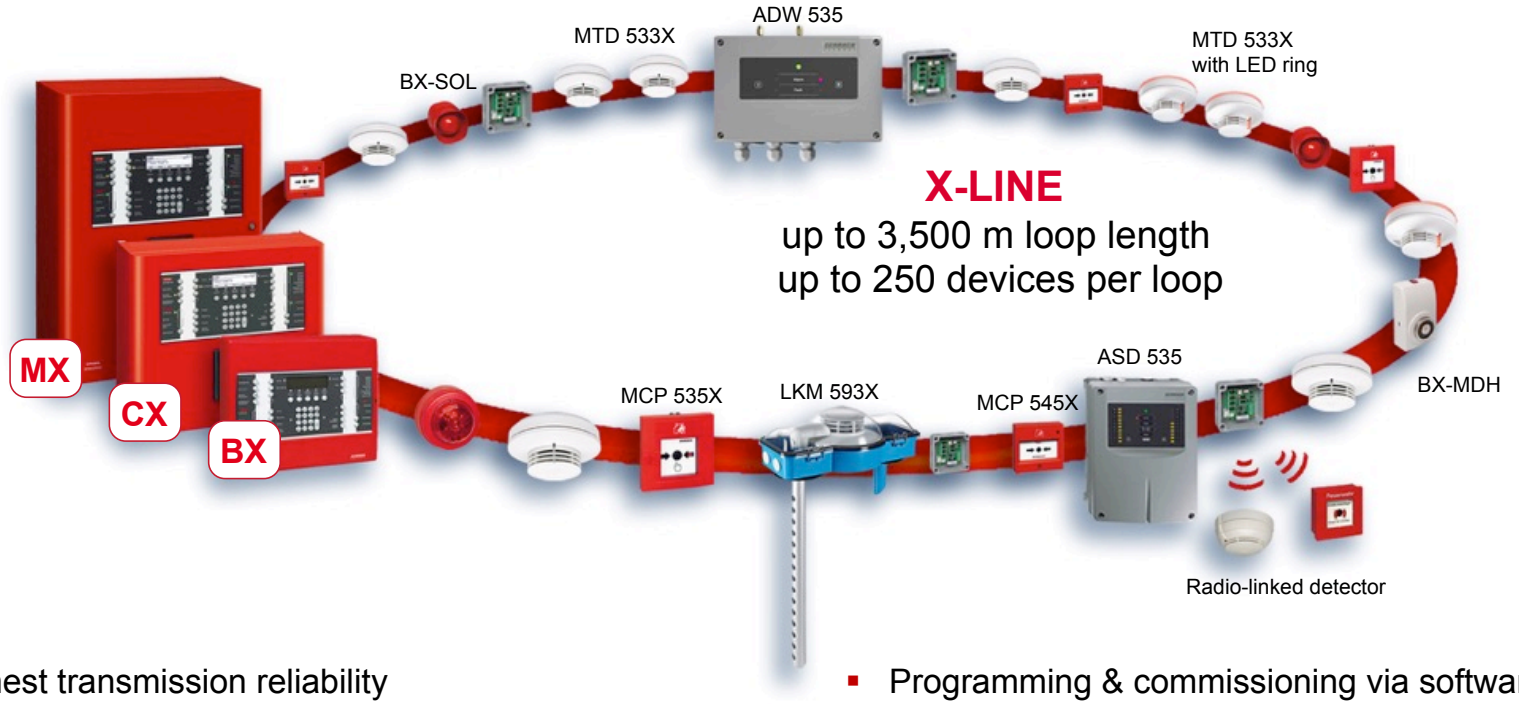


Schrack Seconet Fire Alarm Systems

# Premium peripherals

**Complete detector range • Powerful and flexible X-LINE • CUBUS technology • with sound & voice alarm**

# Integral X-LINE




- Highest transmission reliability
- Short circuit isolator in each element
- Connectable to all Integral panels IP MX, CX & BX
- Programming & commissioning via software
- Start-up time <100s when fully equipped
- A high degree of backward compatibility

# Integral X-LINE

- Up to 250 elements per loop
- Up to 3,500 m loop length
- Start-up time <100s when fully equipped
- Integrated short circuit isolator in each element
- Digital, interactive loop communication
- Universal or individual parameter sets programmable
- Inputs and outputs are freely programmable or can be assigned by means of parameter sets
- Intelligent integration of special detectors
- Intelligent implementation of power supply devices
- High degree of backward compatibility

# Complete detector range for all applications

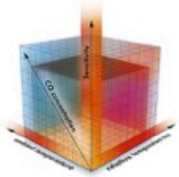
## X-LINE

- Up to 250 elements and up to 3,500 m loop length
- Combines detection and alarm transmission perfectly
- Forward and backward compatibility
- Eliminates wire breaks and short circuits

Planning and direct configuration of special detectors ASD and ADW with modern software tools

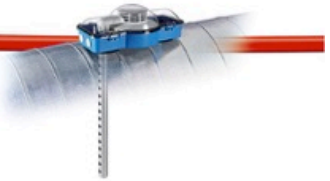
## Special detectors

For difficult environmental conditions



## CUBUS

- Earliest possible fire detection
- Maximum protection against deceptive alarms
- Automatic adjustment to the ambient conditions
- Flexible configuration in accordance with EN 54



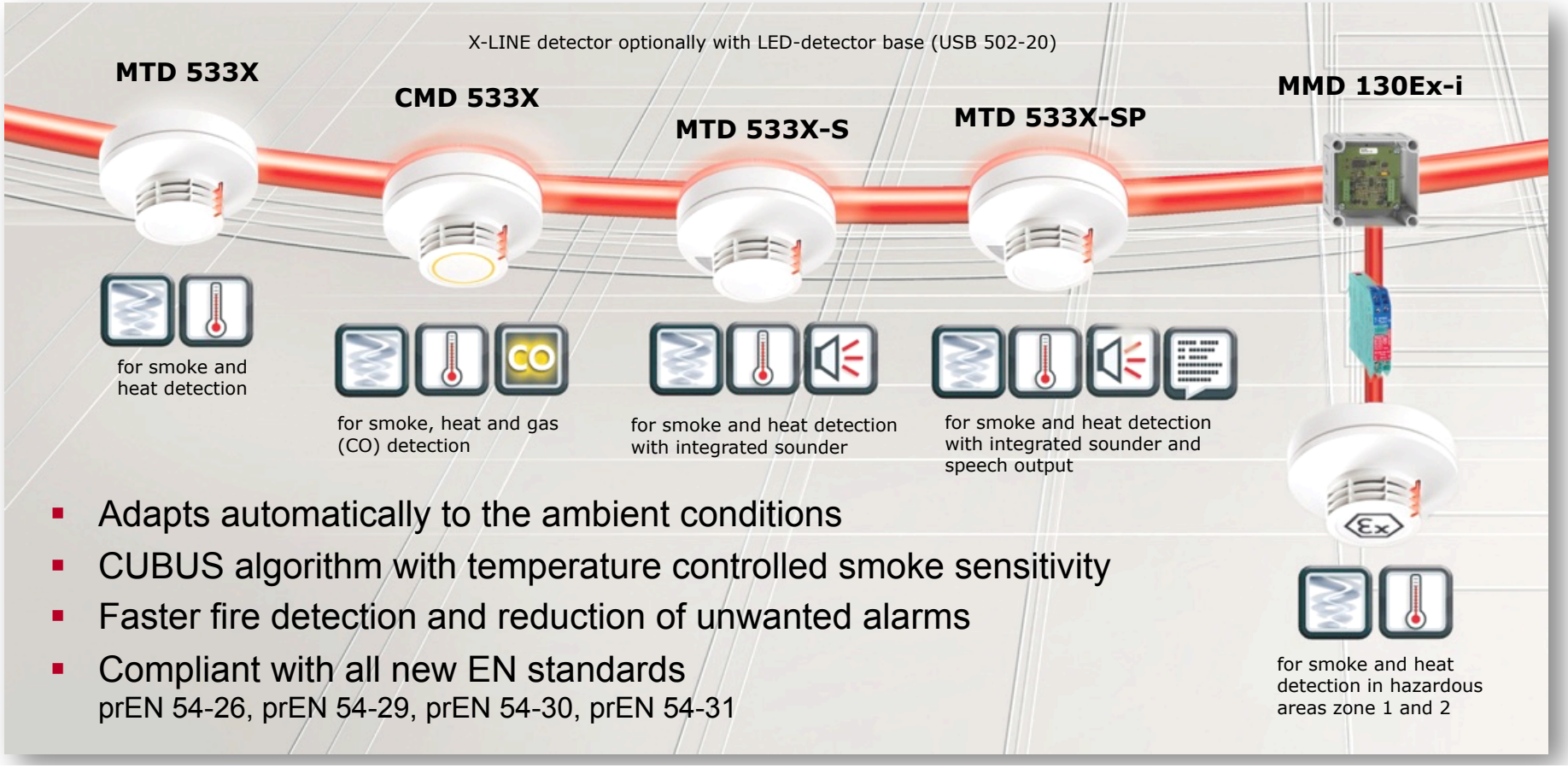
Schrack Seconet Fire Alarm Systems

SCHRACK SECONET

# New standards in detection

**Multiple sensor detectors for all applications • CUBUS technology • Compliant with all new EN standards**

# CUBUS detector family




- Adapts automatically to the ambient conditions
- CUBUS algorithm with temperature controlled smoke sensitivity
- Faster fire detection and reduction of unwanted alarms
- Compliant with all new EN standards
  prEN 54-26, prEN 54-29, prEN 54-30, prEN 54-31

# CUBUS detectors – Applications

**MTD 533X**
offices, shopping centres, super markets

**CMD 533X**
care homes, industrial kitchens, laundries, bakeries, carpentries, theatres, discos

**MTD 533X-S/SP**
hotel rooms, public buildings, schools

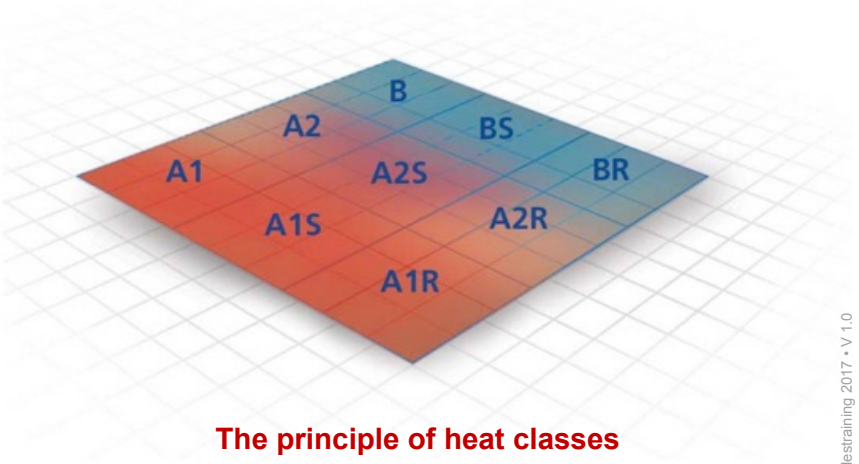
**MMD 130 Ex-i**
hazardous areas of zones 1 and 2

# CUBUS detectors in accordance with EN 54

| Standard | Typical application | MTD 533X | CMD 533X | MTD 533X-S/ SP | MMD 130 Ex-i |
|---|---|---|---|---|---|
| EN 54-3 | Sounders e.g. in hotel rooms, public buildings, schools etc. | | | ● | |
| EN 54-5 | Heat detectors (conventional) where smoke is expected to be a source of deceptive alarms and where heat is not expected to be a source of a deceptive alarm (e.g. smoking areas) | ● | ● | ● | ● |
| EN 54-7 | Smoke detector for standard usages<br>for rapid detection in the event of fires with formation of smoke (e.g. office buildings) | ● | ● | ● | ● |
| EN 54-26 | CO sensor for purely technical alarms without automatic alarm forwarding to the fire brigade (e.g. garages) | | ● | | |
| EN 54-29 | Combined smoke and heat detectors where short-term disturbances such as smoke, dust, insects, steam may occur (e.g. in workshops and warehouses) | ● | ● | ● | |
| EN 54-30 | Combined CO and heat detectors for particularly quick and certain heat detection with CO assisted heat detection in areas where both smoke and heat can occur as sources of deceptive alarms (e.g. in industrial kitchens, and where human life is endangered) | | ● | | |

# CUBUS multiple sensor detectors – Configurable heat classes

- The heat sensor can be configured for standard classes A1, A2 and B (for special areas of application also with the index R or S) in accordance with EN 54-5
- Class index "S" is particularly well suited for use where deceptive values should be filtered out (e.g. in boiler houses or kitchens)
- Class index "R" for areas with low ambient temperatures (e.g. unheated buildings)
- The three standard classes combined with the indexes R or S give a total of 9 variations in order to ensure optimal adaptation to surrounding conditions




The principle of heat classes

# MTD 533X – Technology

- Detects the fire characteristics smoke and heat acc. to EN 54-5, EN 54-7, EN54-29
- CUBUS technology for automatic sensitivity adjustment (smoke detection supported by heat)
- Constant operational safety - thanks to constant self tests
- Pre-alarm levels can be set at 30% or 75%, and a pre-alarm signal can be sent to the fire alarm control panel
- Compensation of detector pollution
- Integrated short circuit isolator
- Parameterisable heat sensor
- Parameterisable alarm output
- Parallel indicator connectable

# CMD 533X – Technology

- **Detects the fire characteristics smoke, heat and carbon monoxide (CO)**
  acc. to EN 54-5, -7, -26, -29,-30 and -31
- **CUBUS technology**
  for automatic sensitivity adjustment
  (smoke detection supported by heat & CO)
- **Adjustable technical CO alarm**
  acc. to EN 50291-1 from 20 to 320 ppm
- Ambient CO concentration can be read out
- Fire characteristics acc. to EN 54 and technical CO alarm can be activated individually
- Durable CO cell: life-time up to 8 years
- Compensation of detector pollution

# MTD 533X-S/-SP – Technology

- Detects the fire characteristics smoke and heat detection acc. to EN 54-5, EN54-7 & EN54-29
- Integrated sound & voice alarm acc. to EN54-3
- Four tones: DIN, Slow Whoop, Sweden and continuous tone selectable via the control panel
- Three volume levels:
  92dB (high), 81dB (middle) and 69dB (low)
- Simultaneous sounder activation on one loop:
  approx. 20 (high), 32 (middle) and 60 (low)
- Voice output of 12 stored texts in different languages
- Synchronized audio and voice output
- Voice output of stored texts in different languages

Link to Integral CUBUS video clip

# There is a name for worldwide competence.
# SCHRACK SECONET.

## Thank you for your attention !