



# ISDN Lines Active Monitoring

2N<sup>®</sup> BRI Enterprise





## 2N TELEKOMUNIKACE

- ▣ We have been a European manufacturer and systems developer in the telecommunications market since 1991
- ▣ We are a joint stock company with 150 employees located in the Czech Republic
- ▣ All products and accessories are made in Europe





## Our partners

### ▣ Europe

- ▣ Telefónica O2 Czech Republic
- ▣ Vodafone Spain
- ▣ Telefónica Spain
- ▣ Orange Spain
- ▣ AinaCom Finland
- ▣ Turkcell Turkey

### ▣ Asia and South America

- ▣ Telefonica Movistar Colombia
- ▣ Maxis Malaysia
- ▣ Vodafone Fiji

### ▣ Africa

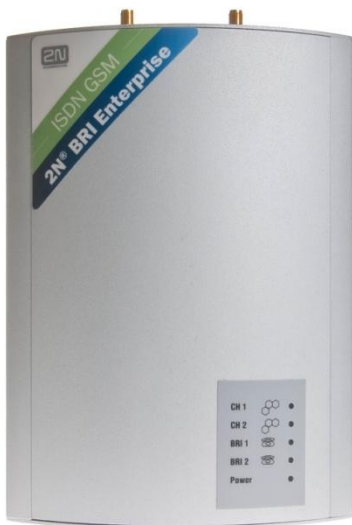
- ▣ Djezzy Orascom Algeria
- ▣ Morocco Telecom
- ▣ Meditel Moroco
- ▣ MobiNil Egypt
- ▣ Etisalat Egypt





# ISDN Lines Monitoring

## Basic functionality:

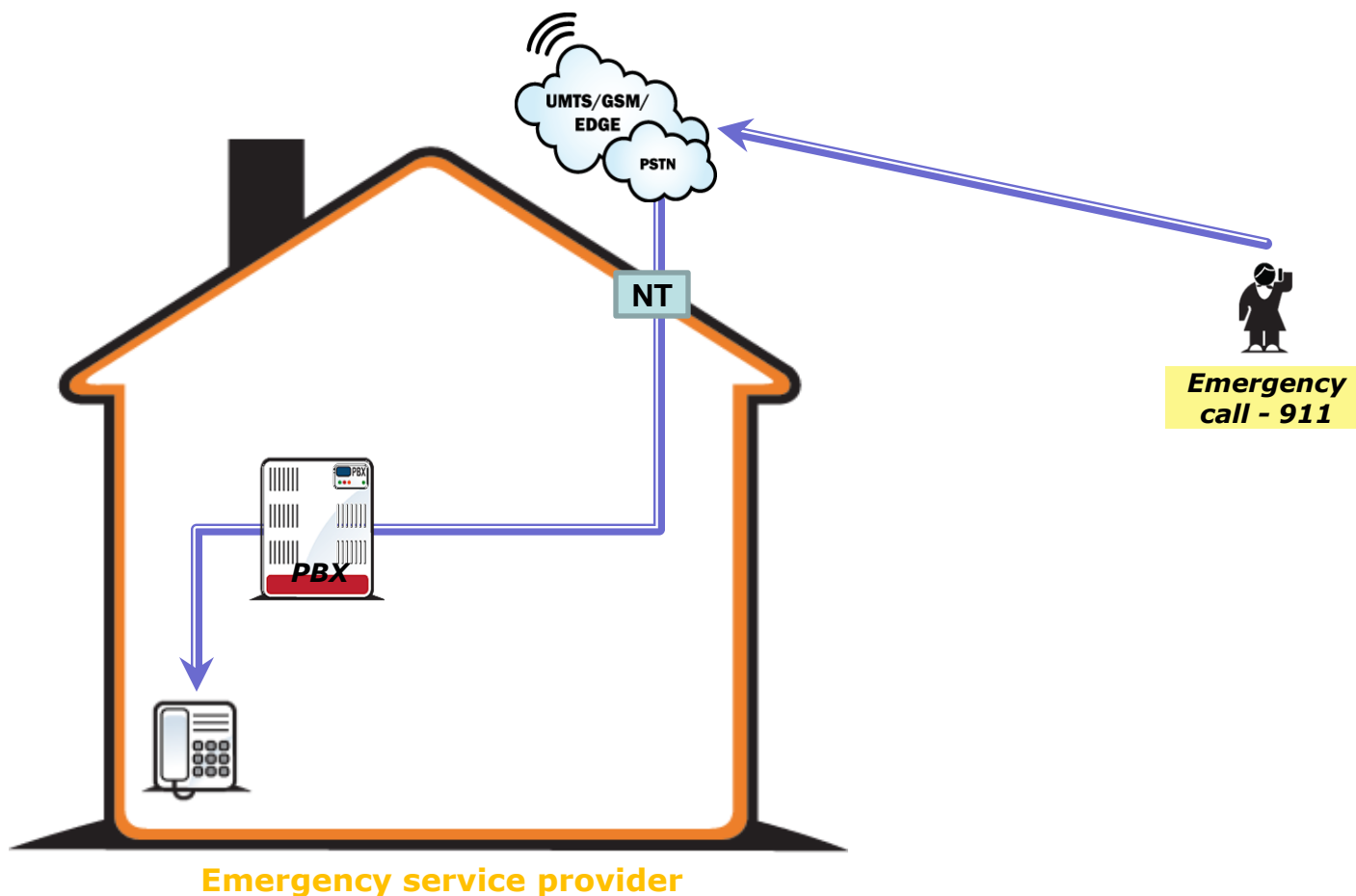


- ISDN Lines active monitoring
- SMS sending
  - When a change of state on a ISDN line occurs
  - To specified number/numbers
- Fully configurable alarm SMS messages

# Case Study

## Operators business – Emergency Service

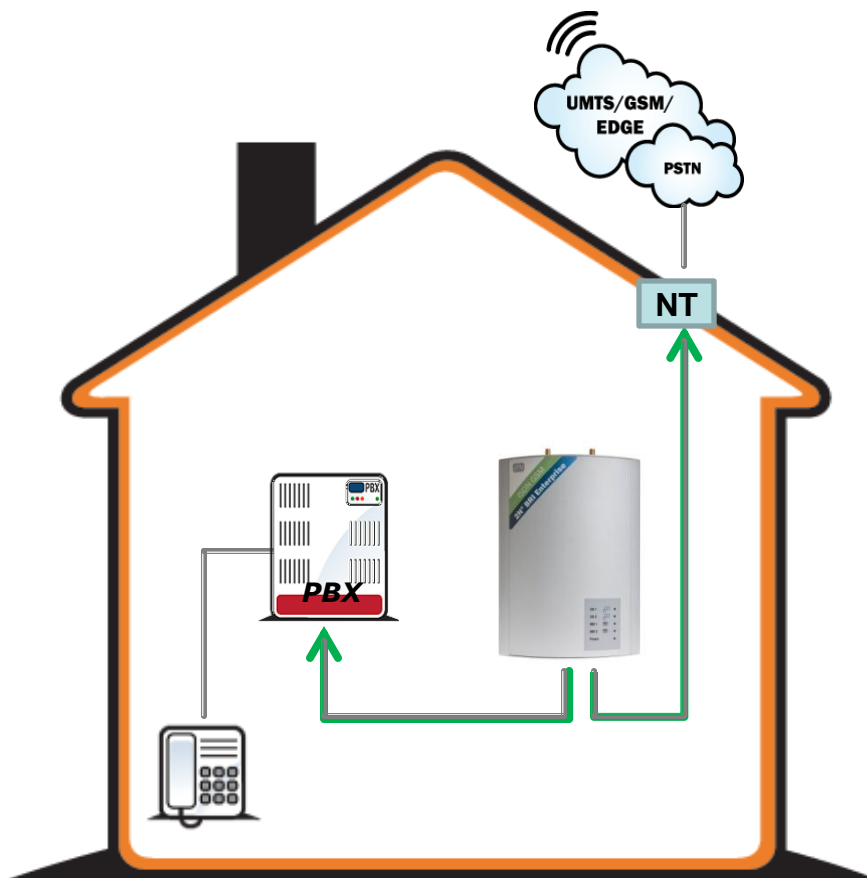
- An incoming emergency call to number 911.
- Operator guarantees 24/7 emergency call service availability.
- ISDN lines status can be hardly monitored at PSTN networks
- Emergency service provider needs to know ISDN line status



# Case Study

## Operators business – Emergency Service

- 2N BRI Enterprise Gateway actively monitors ISDN lines statuses
- Gateway monitors both sides
  - From ISDN provider
  - To Customer's PbX



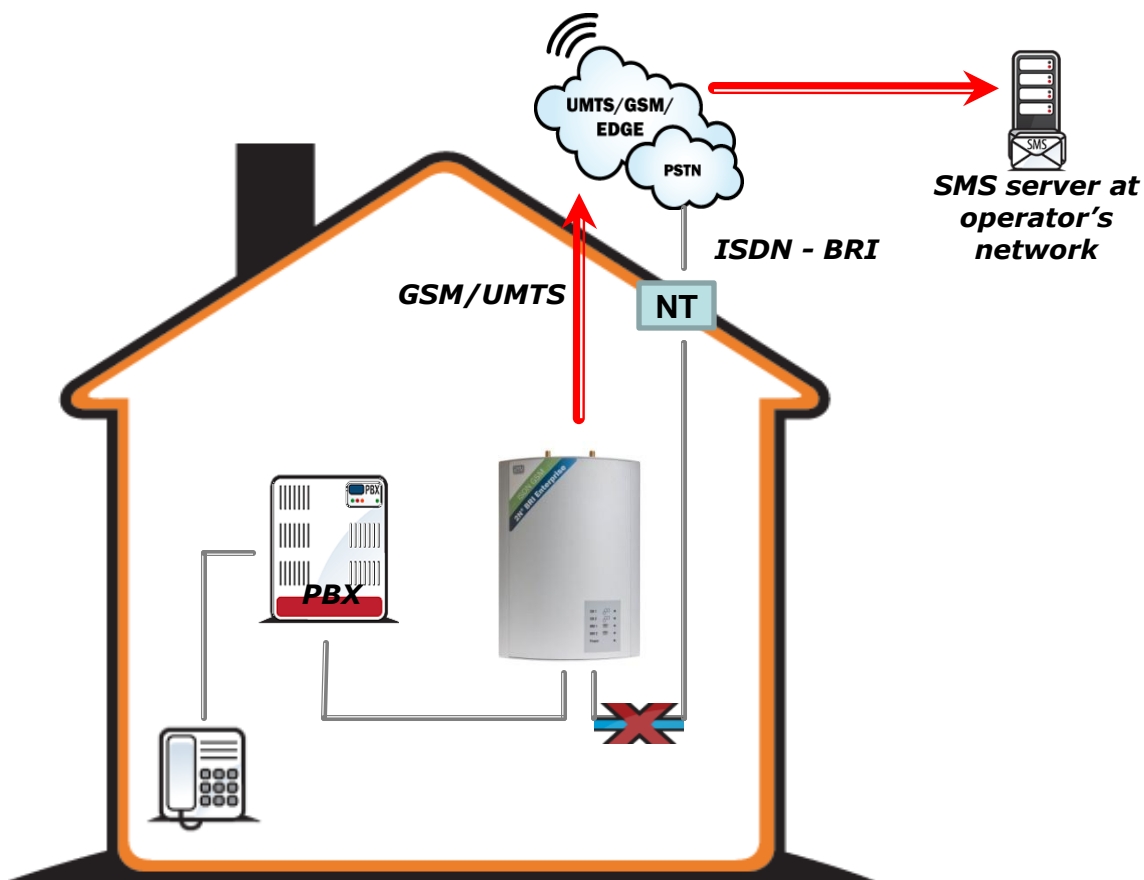
**Emergency call - 911**

**Emergency service provider**

# Case Study

## Operators business – Emergency Service

- 2N BRI Enterprise sends an SMS in case of ISDN line failure
- Operator can reroute calls to the Emergency Service over GSM/UMTS network instead of using ISDN BRI line.



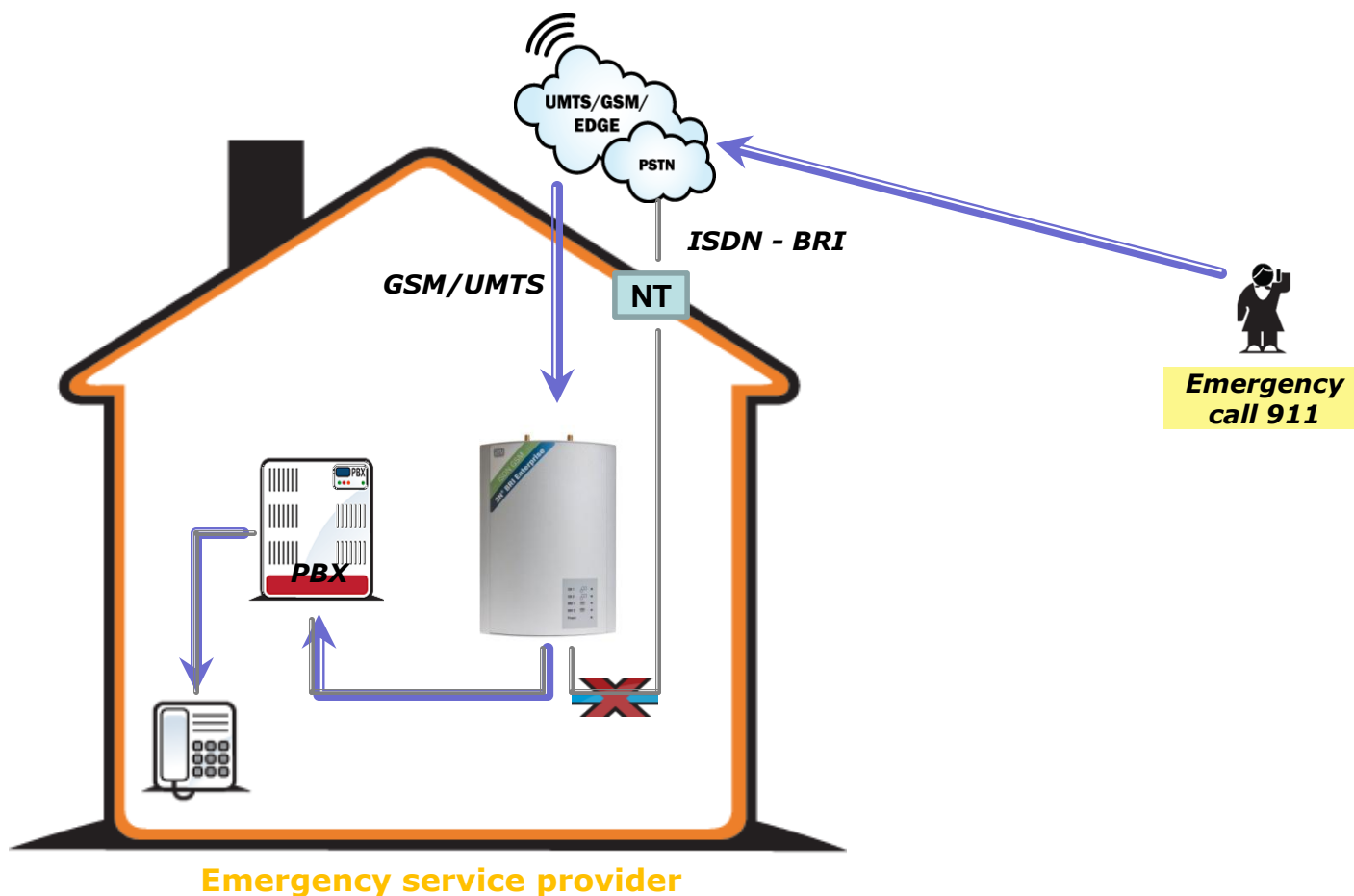
**Emergency call - 911**

**Emergency service provider**

# Case Study

## Operators business – Emergency Service

- Call routing on operator side was changed
- Calls are now going through GSM/UMTS network instead of using ISDN BRI line.
- The operator has enough time to fix the ISDN line

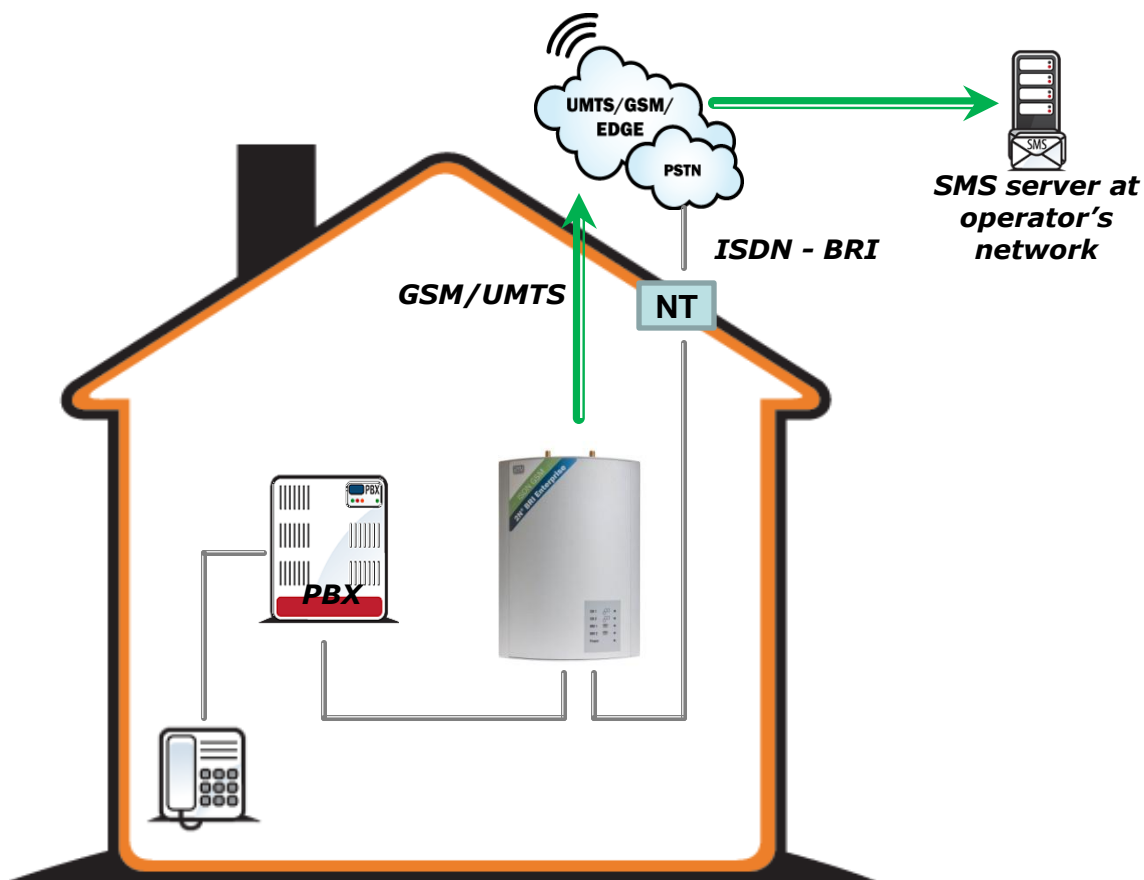




# Case Study

## Operators business – Emergency Service

- 2N BRI Enterprise sends an SMS in case of ISDN line is ready again
- Operator can reroute calls to the Emergency Service by standard way using ISDN BRI line.



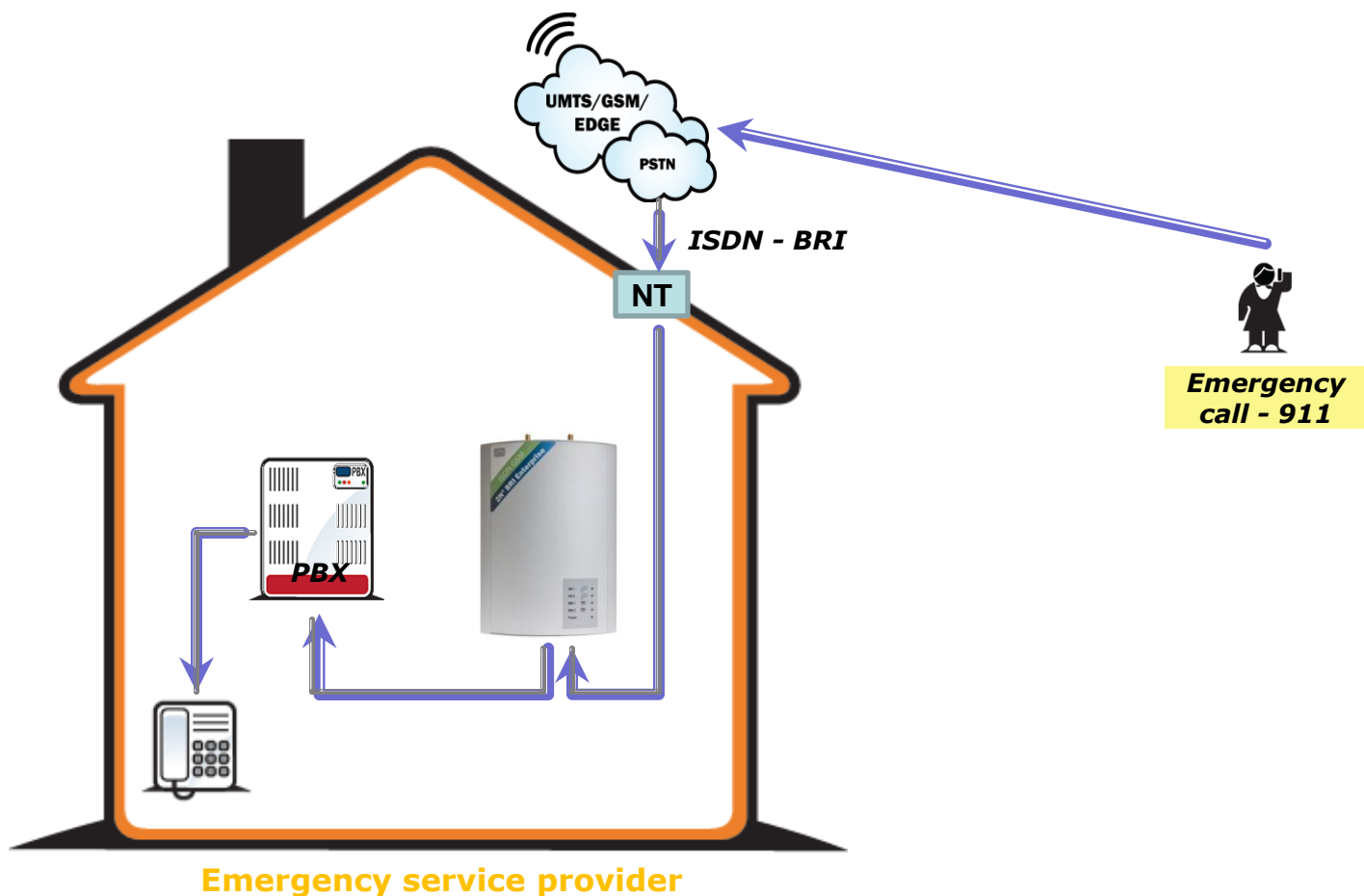
**Emergency call - 911**

**Emergency service provider**

# Case Study

## Operators business – Emergency Service

- Everything is done fully automatically
- Operator can guarantee his services





# ISDN Lines Monitoring

## SMS Messages examples:

- GSM Gateway provides 4 types of SMS
- You have 2 parametres (Port1-Port2, on-off)
- Together you have 4 types of SMS



### ISDN Line Failure

SMS output for ISDN port 1	SMS output for ISDN port 2
DEACTIVE 123456 PORT 1	DEACTIVE 123456 PORT 2

### ISDN Line Repaired

SMS output for ISDN port 1	SMS output for ISDN port 2
ACTIVE 123456 PORT 1	ACTIVE 123456 PORT 2

#### Where

- ▣ 123456 - ISDN Line number
- ▣ PORT 1 – ISDN 1 (NT) port on 2N<sup>®</sup> BRI Enterprise
- ▣ PORT 2 – ISDN 2 (TE) port on 2N<sup>®</sup> BRI Enterprise



# ISDN Lines Monitoring

## Target groups :

- ▣ Operators
- ▣ Banks
- ▣ Dispatching services
- ▣ Companies who would like to be available 24/7 with reliable always working connection





## Why 2N?

Customized  
solutions

Proven international  
track record

Quick /high-  
quality/flexible





## Contact us for more information

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