Monitoring a regional/local DAB+ network

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DAB+ network architect - digris
digris DAB+ architecture

All the headend is hosted in a Tier III data-center with all necessary security and redundancy.

- Strict access control
- Electrical system redundancy N+1
- Cooling redundancy N+1
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Transport

From the HeadEnd to broadcast site

ED/transport

EDI/tcp over internet

EDI/udp over dedicated link

TRANSPORT To other broadcaster

BROADCAST digris

Gateway EDI/tcp-udp

Emetteur 1

Gateway EDI/tcp-udp

Emetteur 2

Gateway EDI/tcp-udp

Emetteur 3

Gateway EDI/tcp-udp

Emetteur 4
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Which sensor?

Internet

EDI/tcp

Router

EDI/tcp

Gateway EDI/tcp-udp

EDI/udp

Transmitter

forward power
reflected power
current
MER
EDI input status
fan status

interfaces status

margin discontinuities

input/output voltage

temperature

battery status

...
The minimum to monitor

Is your transmitter *broadcast* to the *nominal power*?
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- 80%
- 1480rpm
- 1200w
- 150mV
- 230v
- 130w
- 15°C
- 800W

ZABBIX

Triggers

Collect
if NetworkType = SFN then:
    if Margin + ProcessingDelay < $TotalDelay_min:
        Alarm !
    if Margin + ProcessingDelay > $TotalDelay_max
        Alarm !
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REAL-TIME ALERTS
SMS, Email, Social Media Messaging Apps, Team Collaboration Tools
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Anticipation
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Anticipation

![Temperature graph](image)

![Fan details](image)
Merci !

Question ?

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