



# DOCSIS® MAC MADE VISIBLE

## A DOCSIS 3.1 PROTOCOL ANALYSER, POWERED BY EXCENTIS

### GAIN INSIGHT INTO YOUR MAC LAYER

Analyse all upstream and downstream communication

### LIVE RF AND CAPTURE STATS

Realttime feedback on signal quality and packet count

### PACKET CAPTURES INSTANTLY AVAILABLE

Capture and filter minutes of line rate DOCSIS 3.1 traffic

## HIGHLIGHTS

- Both DOCSIS 3.0 and 3.1 protocols
- All DOCSIS 3.1 signal configurations
  - 2x OFDM up to 192 MHz
  - 2x OFDMA up to 96 MHz
  - SC-QAM
  - all modulations up to 4096 QAM
- 85 MHz-1218 MHz DS and 5-204 MHz US
- Multiple profiles, mixed mode profiles, profile changes
- Filter capture on CM or message type
- Control through API or web GUI
- Traces in standard Wireshark format

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> Frame 382825: 277 bytes on wire (2216 bits), 277 bytes captured (2216 bits)
  XRA (Excentis XRA header)
    Direction: Upstream (1)
    US Packet Type: OFDMA SEGMENT (2)
    TLV length: 58
  XRA TLV: 0101ff03010d0202004805049e46db81060101080b010204...
    US Channel ID: 255
    IUC: 13
    SID: 72
    Start Minislot: 2655443841
    UCD CCC Parity: 1
  Codeword Info: 0102046003010104020000
    Number of code bits: 1120
    LDPC Number of iterations: 1
    LDPC Number of corrected info bits: 0
  Codeword Info: 010202bc03010104020000
  Codeword Info: 010202e203010104020000
  DOCSIS Segment
  1... .... = Pointer Field Indicator: 1
  .0.. .... = Reserved: 0
  ..00 0000 0000 0000 = Pointer Field: 0
  0101 1101 1000 1... = Sequence Number: 2993
  .... .000 = SID Cluster ID: 0
  Request (N bytes): 0
  HCS: 0x9a66

```

REQUEST MORE INFO OR A DEMO, CONTACT [XRA31@EXCENTIS.COM](mailto:XRA31@EXCENTIS.COM)

Established in May 2000, Excentis offers **testing services, specialized training and products for the telecom and ICT industry.**

## TESTING

Excentis is worldwide the no. 1 independent test lab for DOCSIS® & PacketCable™ technology, best known for its thoroughness in certification testing on products for the European cable market.

Excentis strongly believes in its company values of integrity and vendor independence. Its well-equipped lab and proven expertise in data, telephony and video services over HFC networks and home network technologies as Wi-Fi, make Excentis the European competence center. Cable operators, service providers and product manufacturers of over the world rely on Excentis for unbiased, technical support.

## TRAINING

Based on its practical experience, Excentis offers introductory and advanced training programs in the areas of cable networks, DOCSIS, PacketCable, Wi-Fi, IPv6 and many more.

## PRODUCTS

Excentis also develops test and monitoring products. *ByteBlower*® is the cost-efficient traffic generator/analyser of Excentis. It is a flexible and scalable solution to use in operational networks or in a lab environment to assess performance and stability of wired and Wi-Fi networks. Its ease of use and premium support makes it the n°1 choice. *VolPexaminer*® is a software solution that monitors the quality of the Voice over IP (VoIP) telephony service in cable networks. Our latest creation, the XRA-31, is a DOCSIS 3.1 sniffer visualizing the MAC layer in realtime!