A.bis Interceptor

A.bis Interceptor is unique in offering the most compact, fully featured A.bis Interception. The A.bis Interceptor design and implementation is the result of extensive experience in advanced hardware design, statistical voice analysis, voice compression, fax modulation/ demodulation, data packetization, traffic-congestion handling and error Management. A.bis Interceptor is supplied in a compact rectangular chassis designed for locating within a standard 19 inch telecommunications equipment rack. Abis Interceptor is equipped with MRJ21 connectors to interface with up to 38 E1s and two 100base-T lines for management function. All cable connectors are located to the front of the enclosure for ease of access. The DSP based Central Processing Unit (CPU), High Capacity Line Interface Card (HLIC) and power modules are modular and can easily be inserted and/or removed from the front of the unit.

Salient Features

The probe supports standard and non-standard A.bis interfaces.
- *The demultiplexed is available as 4 E1s per direction of bearer.*
  - *This E1 output can be connected to standard data logger system.*
- *The demulitiplexed output is available as an IP interface.*

The specific A.bis makes supported : *Nokia, Huawei, ZTE, Ericsson & Motorola*

The probe can automatically identify the A.bis operational mode :
GSM-HR codec, GSM-FR codec, GSM-AMR codec and GSM-EFR codec

Reports
GUI can generate various reports related to alarms and traffic state.
- *Target Alarm Reports (IT Alarms, DLC, Channel Check Failure etc.)*
- *E1 Statistics Reports (E1 errored seconds, severely errored seconds, slips etc.)*
- *Traffic Reports (Voice Activity, Data Activity, Fax Activity etc.)*

NOTE : The specifications can be changed without notice due to technological advances.

A.bis Interceptor

Monitor/View Call Detail Records

CDR Record mainly includes following fields:

- Call ID
- Call Status (In Progress/ Completed)
- Calling Number
- Called Number
- Call Start Date & Time
- Call Duration
- Call Release Cause
- OPC
- DPC
- CIC
- National/International
- SLC

Salient Features

- The system supports identification and CDR formation
- The probe supports up to 10 CEPT (2.048 Mbps) lines per IO card.
- The probe shall handle Voice, Data & SMS traffic as per the A.bis mode detected/configured
- Alarm Indication can be through
  - Through LEDs
  - Monitoring Software
  - Alarm Panel (can be connected to centralized alarm system using DB15 connector (Critical, Major, Minor))
- O&M GUI - The operation and maintenance software is provided by the OEM in order to configure and monitor the A.bis Interceptor probe. All the O&M is done through a 100 base-T Ethernet port.
- Different levels of access for different users like Administrator, Monitor & Operator.
- Monitoring : Monitor Trunk/Bearer:
  - Alarms
    - LOS, LOF, AIS, RAI, BE, etc.
  - Stats
    - Errored Seconds, Severely Errored Seconds
    - Slips, slip rate
- Monitor Target Device
  - Alarms : IT alarms, Bearer alarms, Channel Check Failure, DLC ON
  - Bearer Stats : Bits per Sample, Voice Activity ratio, Data Activity ratio, DLC ratio, Avg. BER of CC, BER Excess of CC
- Monitor system health status and Individual cards health status
- Facility to view Current Alarms on device & Previous Alarms on device
- Monitor traffic type of each trunk channel
- View Control Channel Data
- View any Trunk/Bearer's any Time Slot's data.

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