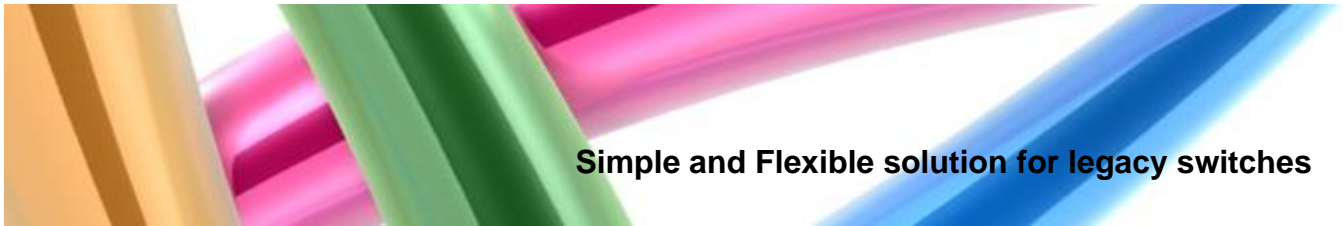# MARBEN CDR COLLECTION

THE GATEWAY BETWEEN PHONE SWITCHES AND BILLING SYSTEMS

Simple and Flexible solution for legacy switches

MARBEN CDR COLLECTION IS A FLEXIBLE SOLUTION TO COLLECT CALL DATA RECORDS ON LEGACY NETWORK ELEMENTS FOR BILLING, FRAUD DETECTION, NETWORK OPTIMISATION AND OTHER APPLICATIONS.

WIDELY DEPLOYED – *THE BEST TRACK RECORDS*

SUPPORT THE MOST WIDELY DEPLOYED LEGACY SWITCHES

- Alcatel-Lucent E10 & S12, Ericsson AXE 10, Lucent PRXA & 5ESS, Siemens EWSD, Nortel DMS 200, Nokia DS200…

EMBEDDED IN A LARGE NUMBER OF COLLECTION PLATFORMS

- Largely used in Billing, Mediation and Performance Management applications but also in Network.

X.25 TO TCP–IP SOLUTIONS – *SUPPORT ALL KINDS OF NETWORKS*

NETWORK INDEPENDENT

- Over X.25, TCP/IP or Ethernet networks.
- No modification of the existing network equipment.

ADAPTIVE AND FLEXIBLE

- A solution that works in all kind of network topology thanks to Microtronix Access 4000 X.25 to TCP/IP Gateway (XOT, X.25/IP Translation, X.25 to IP Migration, RFC1006, MBIT...).
- Compatible with various network equipment such as Cisco routers.

FULL FEATURED AND EFFICIENT – *EASY TO INTEGRATE*

STRONG CAPABILITIES

- Support FTAM & CMISE protocols.
- Support real-time (hot) billing capabilities, automatic scheduled and manual collection solutions.
- Support hundreds of simultaneous connections and transfers at the same time.

SMART INTEGRATION

- Offer easy-to-use configuration interface.
- C/C++ and Java development toolkit.

TARGET APPLICATIONS

CDR Collection, Legacy Telco Switches, Fixe and Mobile phone network elements, Mediation, Billing, Fraud, Supervision, Management, Network analysis, Data warehouse...

About Marben

A leading provider of key software solutions for next generation service-driven networks.

More than 30 years of experience

Delivers interoperable, robust and efficient signaling, routing and AAA solutions to accelerate the delivery of network services.

Marben Customers

Airbus, Be-Mobile, Bosch, Ciena, Cisco, Continental, CSG, Ericsson, ESA, Fujitsu, GMV, HP, Nokia, NEC, Oracle, Siemens, Sprint, Telstra, Valeo, Verizon, Volvo …

MARBEN CDR Collection

TECHNICAL OVERVIEW

PRODUCT TARGET

The MARBEN CDR Collection offers a robust and reliable solution to bridge the gap between the network of heterogeneous telephone switches and the billing system. It interoperates with the most widely deployed kind of switches and easily adapts to interface with any billing system. Moreover, it is flexible enough to be tailored to communicate with any part of the back office systems.

The Marben CDR Collection integrates all networking aspects of CDR Collection enabling system implementers to concentrate on activities with high added value.

FLEXIBLE SOLUTION

The MARBEN CDR Collection is a flexible solution to collect CDR using FTAM with its multiple specialized features such as passwords supported on "FTAM-get" or "FTAM-delete", download interrupts and recoveries. CMIP is often used for real-time billing capabilities and frequently used to communicate with switches that need to prepare the CDR before achieving the FTAM transfer.

MARBEN CDR Collection supports a wide range of hardware/OS platforms and can be integrated in one of the Telco back-office platforms (mediation, billing…) or even embedded in gateways.
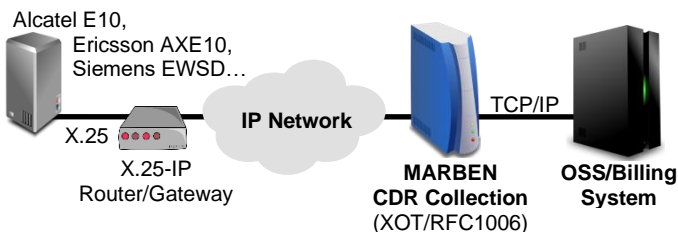
GET RID OF X.25 WITH X.25 TO TCP-IP GATEWAYS

PSTN legacy switches from major equipment vendors (Alcatel E10, Ericsson AXE10, Siemens EWSD…) still rely on X.25 network interface for connecting to the X.25 backbone and linking the OSS systems in the carrier back office.
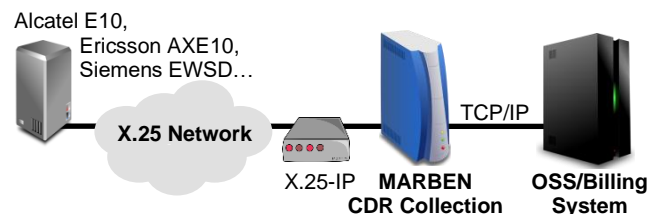
X.25 is a protocol that gets less and less market support and knowledge, making it increasingly expensive and driving carriers to phase out their X.25 networks. IP is becoming the only networking technology for wide area networking. Legacy X.25 switches will have to move to IP whereas they are still effective and do not need to be replaced in a short-term.

Marben Product built multiple solutions to help carriers to overcome X.25 to IP migration issues in their OSS system. Those solutions allow a step by step migration without any reconfiguration of Telecom switches to minimize integration risks and save time. They are based on Marben CDR Collection product in standalone or in conjunction with X.25-IP translation systems. Marben CDR Collection product is qualified with trustable partners to guaranty the full compatibility with their equipment.

1) CDR collection on IP Backbone

Alcatel E10, Ericsson AXE10, Siemens EWSD…
X.25
X.25-IP Router/Gateway
IP Network
TCP/IP
MARBEN CDR Collection (XOT/RFC1006)
OSS/Billing System

2) CDR Collection on X.25 Backbone

Alcatel E10, Ericsson AXE10, Siemens EWSD…
X.25 Network
X.25-IP
TCP/IP
MARBEN CDR Collection
OSS/Billing System

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CONFORMANCE

ISO 8571 FTAM Protocol
ISO 9595, 9596 CMIP Protocol
ISO 8650, 9072, 8327 ACSE, ROSE, Session
ISO 8073, 8602 Transport over CONS, CLNS
RFC 1006 Transport Protocol over TCP/IP
ISO 8878, 8473 CONP, CLNP
ISO 8473 add1 SNSDCF X.25/CLNP
ISO 9542 ES to IS Protocol

SYSTEM REQUIREMENTS

Windows XP, 2003 server and later, RedHat Linux EL 4.0 and later, HPUX 11i, HP Itanium and Later.

X.25 S9X series Dialogic Eicon cards (Windows and Linux, built in Ethernet.

Alcatel-Lucent E10 & S12, Ericsson AXE 10, Lucent PRXA & 5ESS, Siemens EWSD, Nortel DMS 200, Nokia DS200…

RELATED OFFERS

Our FTAM/CMIP knowledge to deliver you the best of Consulting, Training and Custom services.

CDR Converter, an easy command line tool to convert ASN.1 CDR files into XML or CSV files for a comprehensive CDR processing, analysis and database filling.