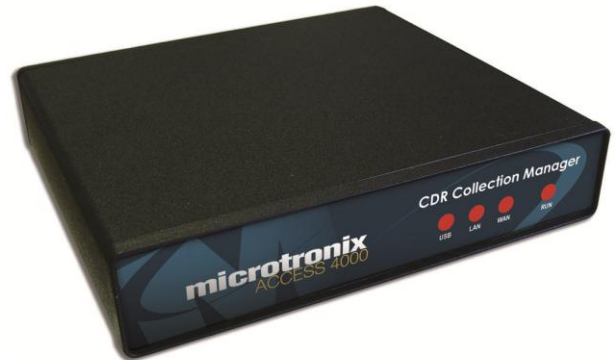




# Access 4000 CDR Collection Manager

## Product Features

- Collects AMA/CDR data for Telecom Billing & OSS Systems
- AMATPS, EADAS, XFER (AMA & SMDR), FTAM & MTP (SFI & SFO) collection protocols
- SFTP/IP collection from Softswitches
- Supports conversion to EMI record formats
- Supports redundant (fail-safe) collection configurations
- Output formats: BAF, Blocked/Non-Blocked AMA, and AMADNS
- FTP/SFTP push or pull to Mediation or Billing System
- Integrated local storage or NFS mounted file server
- Supports Lucent 5ESS, Siemens EWSD, Nortel DMS, Ericsson AXE, Alcatel and other Class 5 switches
- Integrated X.25 to TCP/IP Gateway replaces dial-up X.25 with IP network



## Overview

The Access 4000 CDR Collection Manager is a complete all-in-one Switch to Billing solution for X.25 and TCP/IP networks. The Access 4000 CDR Collection Manager connects directly to the X.25 or BX.25 port of the voice switch and to the local IP network eliminating the need for expensive X.25 network and modems with leased/dial lines and their associated support costs. By moving to IP, performance is significantly improved over legacy X.25 networks.

The integrated X.25-TCP/IP Gateway capability provides simultaneous access from operation/management systems on the same X.25 interface.

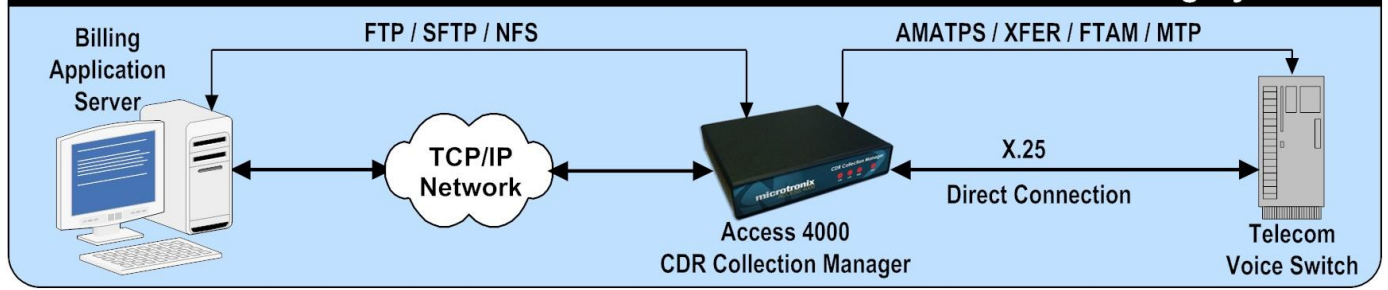
## Description

The Access 4000 CDR Collection Manager polls Network Elements for AMA/CDR data with a flexible automatic schedule or manually with an easy to use web-based GUI. The unit can poll directly from two Network Elements (NEs) using the X.25 ports or it can be configured to poll multiple NEs across a X.25 network or through a TCP/IP connection using remote Gateways.

Collected AMA files can be named in required output format using a definable file naming configuration, and are made available to the Billing Application Processor via FTP/SFTP push or pull. Files are then archived with a definable retention schedule. They can also be converted to EMI format files, which can be split between billing and access records for separate upstream handling, greatly reducing third-party CABS per-record handling charges.

The Network Element is polled with a direct X.25 connection, maximizing the throughput of the X.25 interface and significantly reducing data collection time associated with legacy modem connections. For high call volume data collection applications, an integrated solid-state drive can be used for backup storage of data records to ensure fast, reliable collection of CDR/AMA data, eliminating "leakage" of billing data caused by network outages and aging legacy X.25 components.

## Collection of AMA Call Data Records for TELCOM Revenue Accounting System



# Technical Specifications



## Hardware Features

- Dual DB25F RS-530 sync/async ports supporting: V.24/RS-232, V.35, X.21 (speeds to 2Mbps)
- RJ45 - 10/100-BaseT Ethernet port
- Power: 12VDC @ 1.3A
- Power adapter: 120/240VAC 50/60Hz
- Dimensions: (D x W x H) 5.5" x 7.25" x 1.625"

## Software Features

### CDR Features

- Poll scheduling 24 / 7 / 365
- Configurable output file format
- User-definable output file names
- Supports standard X.25 over TCP protocols
- AMATPS, EADAS, XFER (AMA & SMDR), MTP (SFI & SFO) and FTAM (optional feature) over X.25
- FTP, SFTP or NFS delivery to billing
- Integrated SSD for optional backup of data records
- NTP time synchronization
- User-friendly web configuration interface

### X.25 Features

- DTE and DCE configurable on LAPB and X.25
- Up to 1024 logical channels per link
- Switched and permanent virtual circuits (SVC and PVC)
- Modulo 8 and 128
- Packet size facility negotiation from 16 to 4096 bytes
- Window size facility negotiation from 1 to 127
- Facilities: reverse charge, throughput class, hunt groups
- DTE Facilities: called and calling address extension

### Management

- Remote Telnet access via SSH
- Local or remote logging via Syslog
- Remote management via web browser UI (HTTPS)
- SNMP polls, link alarms
- 24/7/365 scheduler (cron)

### Network

- 10/100 Ethernet with auto-detection
- 802.1Q VLAN (multiple interfaces)
- DHCP or static IP assignment
- DNS client
- RADIUS authentication
- NTP client
- SSL secure socket encryption

## Ordering Information

| Part Number   | Description                                  |
|---------------|--|
| 4002-S01      | Access 4000 CDR Collection Manager           |
| 4002-S01-FTAM | Access 4000 CDR Collection Manager with FTAM |

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