



DS2000 Data Server Operation

The DS2000 collects, validates, formats, stores, and forwards up to 25 million call detail records per hour to downstream processing applications (e.g. Rating/Billing, Fraud, Churn, Marketing/Sales, Data Warehousing, Customer Care). The DS2000 can collect data in continuous or burst mode. It can be configured in passive (parallel) mode or active (emulation) mode. The collected data is immediately committed to non-volatile storage for further processing. The DS2000 can detect duplicate files and blocks.

A complete audit trail is maintained and available for future diagnostics and call tracing. File naming conventions are completely flexible; the DS2000 can operate to industry standards or rename the files to the service provider's specific conventions. Usage files are forwarded according to user-definable schedules, in increments down to five minutes. The DS2000 may be configured in redundant, hybrid or simplex modes, maximizing the service provider's return on investment.

DS2000 Data Server Features

- Multiple means of collecting data (LAN, X.25, AFT, SCSI, Magnetic Tape Emulation)
- Multiple means of forwarding data (FTP, EMAIL, HTTP, DVD-RW)
- Web-based user interface
- Multiple generating system interfaces available from one vendor
- Independent Processing Modules for ease of data processing
- Complete Audit Trail
- Supports commercial off-the-shelf processing platforms
- Utilizes Open Standard Linux® Operating System.
- 3 levels of user security
- Modular architecture

Technical Specifications

- FCC Part 15
- Power -48 VDC, 110 to 220 VAC

DS2000 Data Server Hardware Configurations

The DS2000 is available in 3 hardware configurations:

- Redundant - Two complete sets of processing elements, redundant storage elements and redundant power supplies
- Hybrid - A single processing element with mirrored storage elements and dual power supplies
- Simplex - A single processing element with a single storage unit and a single power supply

Hardware configurations vary with processing platform vendors.

DS2000 Data Server Compatibility

The DS2000 is offered with interfaces for the following Generating Systems:

- Nortel – DMS-10, DMS-100, DMS-250, DMS-500
- Lucent - 5ESS
- Marconi
- Siemens - EWSD, DCO, hiQ8000
- NEC NEAX-61E, NEAX-61K, Sigma
- Ericsson - AXE-10
- Fujitsu - F150
- Alcatel - System 12, E10
- Italtel - UT100
- Softswitches

DS2000 Data Server Hardware Interfaces

- Pertec
- SCSI: Differential
- SCSI: Single-Ended
- Cook 2200/2216
- LAN
- Serial
- HP
- ISI

DS2000 Data Formats Supported

The DS2000 is offered with dictionaries for the following data types:

- Telecordia AMA
- CISCO Softswitch
- Siemens hiQ8000 Softswitch
- Nortel USC08
- ATIS/OBF EMI
- NEAX
- CostGuard NUF
- ST3
- Alcatel SYSTEM-X

DS2000 Data Format Conversions Supported

The DS2000 has rules for converting the following data types:

- AMA to EMI
- AMA to NUF
- SYSTEMX to Custom ASCII CDRs
- UCS08 to ST3
- UCS08 to EMI
- UCS08 to NUF
- CDR to EMI
- CDR to AMA
- AMATPS to AMADNS
- AMADNS to AMATPS
- Unblocked AMA to Blocked AMA
- Siemens hiQ8000 Softswitch to AMA
- AMATPS to EMI
- AMATPS to NUF
- AMA to SQL
- AMADNS to EMI
- NORTEL SMDR to Custom e-mail Reports
- CISCO BTS 10200 Softswitch to AMA
- Customized Formats

Operator Commands via:

- Web Interface
- Central Console
- Local Console

DS2000 Data Server Alarms

The DS2000 alarms provide indications of notable system events. Four severity designations are assigned to the alarms:

- Critical
- Major
- Minor
- Informational

The alarms can be sent via:

- E-mail
- SNMP Traps
- Dry contact alarm relays
- SMS

Telecom Standards Compliance

- GR-1343-CORE AMADNS (Telcordia)
- GR-1100-CORE Billing AMA Format (BAF)
- GR-385-CORE AMATPS (Telcordia)
- EMI (Exchange Message Interface)
- NUF (CostGuard) NFE-001-2.0.14
- Nortel DMS-100 Telcordia Format
- AMA 297-1001-830
- Customized Formats
- NEBS

About Telegence Corporation

Telegence provides the telecommunications industry with reliable and proven hardware and software turnkey solutions for CDR/AMA data collection, mediation, processing and revenue assurance.

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