



Diplomat™

A Complete Exploration and Production Data Management System

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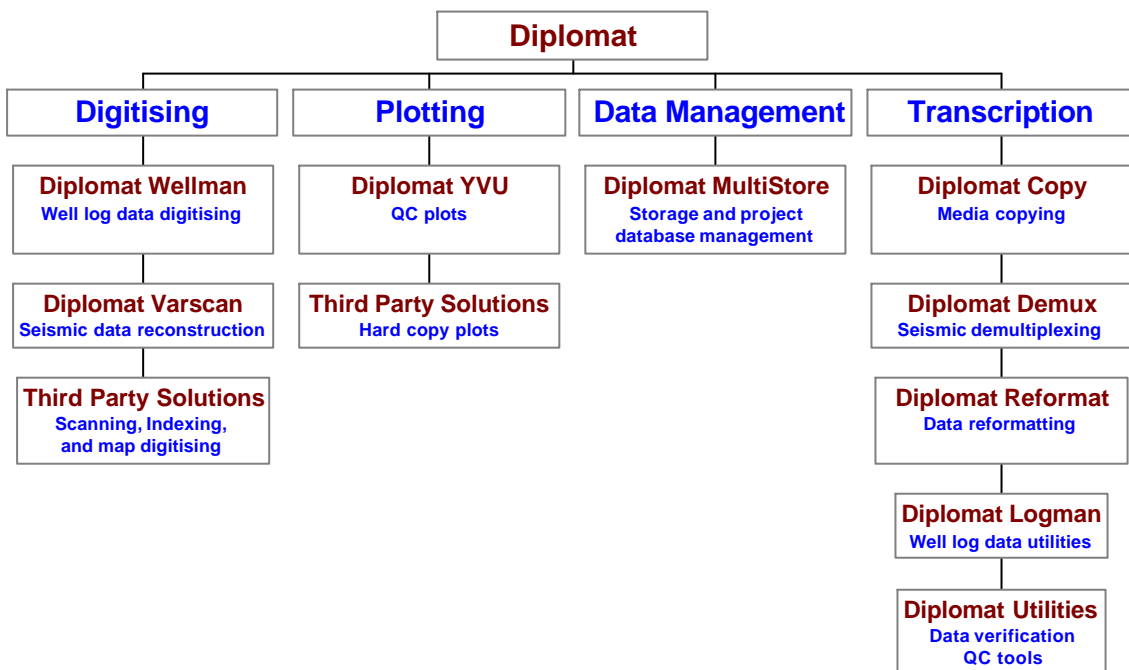
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Diplomat™

A complete Exploration and Production Data Management System,
modular and configurable to suit all E & P requirements.

Diplomat = Digitising, **Pl**otting, **Ma**nagement and **T**ranscription



Key Advantages

- Designed by DPTS technicians for use in our own world-wide bureau service operations
- Proven high speed, reliability and efficiency – over 300,000 tapes transcribed by DPTS per year
- Portable, modular and configurable to suit all requirements
- Unrivalled data recovery from tapes with stiction problems
- Automatic generation of index files for populating databases and Databanks
- Software can be supplied with fully integrated systems for operation anywhere in the world



Diplomat™ MultiStore

Diplomat MultiStore is an integrated relational Microsoft Access database for the library management of Petroleum Exploration and Production data, held digitally and on paper.

Diplomat MultiStore can also be used for the control and monitoring of production work-streams from data catalogued and stored in the data repository, or index information can be imported in industry standard formats from other catalogues.

Standard Features

- Catalogue contains media and data information
- Industry naming metadata standards can be enforced by pre-population of dynamic reference tables
- Copy forward tape and record options for fast data entry
- Automated data entry validation
- Query facilities for media and data
- Comprehensive record search facilities
- Flexible SQL Query interface
- Files may be imported from other databases and other **Diplomat** modules and exported to other databases and Databanks
- Access and audit trail facilities
- Creates Run List to interface with other **Diplomat** modules and Pick List for data retrieval – option to select data for a given job by area, line or tape
- Tapes may be returned to the store on an individual basis, in groups, or by the original Pick List
- Powerful ad-hoc report generation facility
- Provides statistics for invoicing
- Learning curves are dramatically reduced through the use of the efficient and user-friendly Windows common desktop environment

Additional Features

- Customised modules for seismic data, well log data and paper data
- Customisable for specific customer requirements
- Optional bar-coding management module
- OOBC compliant enabling inter-operability with other data products, e.g. SQL Server

System Requirements

- Intel compatible Pentium PC
- Windows 95/98/NT/2000/XP
- Microsoft Access V2.0 or higher
- Microsoft SQL Server (optional)



Diplomat™ Copy

Diplomat Copy is a flexible, powerful and fast copying program for data held on media types commonly found in the oil & gas exploration industry.

Diplomat Copy includes an “intelligent” copy feature for SEG Y and SEG D data that allows onscreen plots of the data to be viewed during copying and which extracts index information from tape headers for updating databases and Databanks.

Standard Features

- No knowledge of data format required
- Any SCSI interface device may be used for input or output - for example 9-track tape drive, 3480, 3490E, 3590, LTO Ultrium, DTF, DLT and Exabyte 8mm drives
- Includes DPTS tape drivers for long seismic records and enhanced error recovery
- Batch mode or interactive operation
- Interactive operation allows full Operator control over input and output devices for maximum recovery of data on decaying and stiction tapes
- Copy speed is only limited by the drive hardware – a 2400 ft, 6250 bpi tape can be copied to cartridge in less than 5 minutes, a 3480 cartridge can be copied in under 4 minutes
- Editing and concatenation of input tapes
- Auditing capability to assess condition of media
- Supports the use of cartridge stackers to minimise Operator workload and maximise throughput
- Audit trail maintained of files copied and errors encountered
- Onscreen plotting of selected records and/or traces (e.g. near trace plot) for SEG Y and SEG D data during copy (can also be saved as TIFF files for subsequent viewing or producing hard copy plots)
- Analyses run lists, index files and copy logs to produce a summary of data transcribed and any errors encountered, warning the Operator of possible anomalies – e.g. missing files, missing traces, parity errors
- Index information extracted from SEG Y and SEG D headers and index files created for updating databases (e.g. **Diplomat MultiStore**) or Databanks

Additional Features

- Encapsulation and de-encapsulation of RODE, TAR and IBM Standard Label data
- Hexadecimal dump feature for solving tape and format problems
- ASCII/EBCDIC file conversion
- Extraction of data based on navigation X/Y co-ordinates or in-line and cross-line ranges

System Requirements

- Intel compatible Pentium PC
- Windows NT V4.0 / 2000 / XP Professional



Diplomat™ Demux

Diplomat Demux is an easy to use and fast program for demultiplexing seismic field data into trace sequential order. All known versions of SEGA, SEGB, SEGC, SEGD and non-SEG standard (multiplexed) formats can be converted to SEGY or SEGD (demultiplexed) formats. 21-track multiplexed tape formats can also be handled.

Diplomat Demux allows onscreen displays of the data to be viewed during demultiplexing for online quality control, and extracts index information from tape headers for updating databases and Databanks.

Standard Features

- Automatic format analysis and recognition of all known variations of SEGA, SEGB, SEGC and SEGD data, including Sercel variations, and non-SEG standard multiplexed formats
- Any SCSI interface device may be used for input or output - for example 9-track tape drive, 3480, 3490E, 3590, LTO Ultrium, DTF, DLT and Exabyte 8mm drives
- Includes DPTS tape drivers for long seismic records and enhanced error recovery
- Batch mode or interactive operation
- Interactive operation allows full Operator control over input and output devices for maximum recovery of data on decaying and stiction tapes
- Option for intermediate output to disk to allow maximum data recovery prior to writing to output cartridge
- Demultiplex achieved at tape copy speed, limited only by the drive hardware – a 2400 ft, 6250 bpi tape can be demultiplexed to cartridge in less than 5 minutes
- Supports the use of cartridge stackers to minimise Operator workload and maximise throughput
- Audit trail maintained of files demultiplexed and errors encountered
- Onscreen plotting of selected records and/or traces (e.g. near trace plot) after demultiplex for online quality control (can also be saved as TIFF files for subsequent viewing or producing hard copy plots)
- Analyses run lists, index files and demux logs to produce a summary of data transcribed and any errors encountered, warning the Operator of possible anomalies – e.g. missing files, missing traces, parity errors
- Index information extracted from tape headers and index files created for updating databases (e.g. **Diplomat MultiStore**) or Databanks
- A Project Control File (PCF) acts as a database holding all information for a single project. Labels and reports can be generated from the PCF database as required.

Additional Features

- Vibroseis correlation

System Requirements

- Intel compatible Pentium PC
- Windows NT V4.0 / 2000 / XP Professional



Diplomat™ Reformat

Diplomat Reformat is an easy to use, fast and versatile program for reformatting non-standard, trace-sequential, seismic data into SEGY format.

Diplomat Reformat allows onscreen displays of the data to be viewed during reformatting for online quality control, and extracts index information from tape headers for updating databases and Databanks.

Standard Features

- Automatic format analysis and recognition of various seismic non-standard and proprietary formats
- Any SCSI interface device may be used for input or output - for example 9-track tape drive, 3480, 3490E, 3590, LTO Ultrium, DTF, DLT and Exabyte 8mm drives
- Batch mode or interactive operation
- Interactive operation allows full Operator control over input and output devices for maximum recovery of data on decaying and stiction tapes
- Option for intermediate output to disk to allow maximum data recovery prior to writing to output cartridge
- Audit trail maintained of files reformatted and errors encountered
- Onscreen plotting of selected records and/or traces (e.g. near trace plot) after reformatting for online quality control (can also be saved as TIFF files for subsequent viewing or producing hard copy plots)
- Index information extracted from tape headers and index files created for updating databases (e.g. **Diplomat MultiStore**) or Databanks.

Additional Features

- 21-track multiplexed formats module – requires a 21 track tape drive with suitable controller
- Can be customised to handle additional formats as required

System Requirements

- Intel compatible Pentium PC
- Windows NT V4.0 / 2000 / XP Professional



Diplomat™ Logman

Diplomat Logman is a utility program for well log digital data. It includes options for reformatting, listing, editing and extracting files, curves and depth ranges.

Standard Features

- Automatic format analysis and recognition of well log formats and method of encapsulation – formats recognised include:

BIT	ASCII	EBCDIC	BCDIC
Amoco A	ECL	ITF	PTF
IMF	SPWLA	TAR	BAR
VMS Backup	Dresser Atlas		
- Any input device commonly found in the industry is handled - for example 9-track tape drive, cartridge drives DAT drives, CD and disk files
- Batch mode or interactive operation
- Interactive operation allows full Operator control over input device for maximum recovery of data on decaying and stiction tapes
- Detailed list of tape contents, including header information and data samples, can be produced
- Header information can be edited and augmented
- Specific files, curves and depth ranges can be extracted
- A series of tapes (of different formats) can be reformatted or listed in one pass using a single command
- Output format options include DLIS, LIS and LAS
- A **Logman** project Control File (LCF) serves as a database for a single project. This holds information about the well log tapes belonging to the project, including the logical files, curves and header information present on each tape

Additional Features

- Option for the repair of damaged tapes
- Option for conversion of VSP data to SEGY

System Requirements

- Intel compatible Pentium PC
- Windows NT V4.0 / 2000 / XP Professional



Diplomat™ Utilities

Diplomat Utilities are powerful tools for quality control and verification of seismic and navigation data.

Diplomat Utilities comprise the following modules:

SEGYCHK/SEGDCHK

- To verify the contents of a tape or disk file in SEGY or SEGD format
- Produces a listing of details from tape and trace headers
- Batch mode or interactive operation
- User control over information presented
- Index files can be produced summarising tapes and record ranges found

YVU

- Onscreen plotting of selected records and/or traces (e.g. near trace plot) for SEGY and SEGD data
- Up to three plots can be produced simultaneously, each with different plotting parameters
- Plots can be saved as TIFF files for subsequent viewing or producing hard copy displays

UKLIST

- Analysis tool for navigation data

SEGYNAV

- To insert navigation data from navigation tapes into trace headers

System Requirements

- Intel compatible Pentium PC
- Windows NT V4.0 / 2000 / XP Professional



Diplomat™ Wellman

Diplomat Wellman is an advanced well log digitising and well data manipulation program. Its main feature is the ability to track and vectorise scanned images of log curves quickly and accurately using the automatic curve tracking algorithm, with manual intervention when required.

Diplomat Wellman also includes facilities to edit, composite, depth shift and overlay digital data and raster images.

Standard Features

- Powerful automatic curve tracking algorithm, with a manual digitising option when required
- Accepts uncompressed or compressed TIFF format images on disk and decompresses on a screen by screen basis
- Includes raster image manipulation capabilities and pan and zoom facilities
- Accepts digital data in LIS, LAS, BIT or PTF format
- Ability to overlay digital data against scanned images to show the correlation between digital data and paper logs, and to highlight discrepancies and missing data
- Automatic gap checking facility for digital data
- Resampling and units conversion capability
- Outputs digitised data to disk in LIS or LAS format

Additional Features

- Editing of well log data
- Production of a composite from several log runs
- Depth shifting and matching capability

System Requirements

- Intel compatible Pentium PC, running Windows 2000
- Or any Sun Workstation running Solaris II and OSF/Motif
- A continuous feed scanner capable of producing compressed TIFF group 4 or group 3 format images



Diplomat™ Varscan

Diplomat Varscan provides automatic vectorising of seismic sections with output to SEGY format.

Standard Features

- Vectorising may be performed on all seismic data types including Variable Area Only, VA/Wiggle and Wiggle Only
- Accepts uncompressed or compressed TIFF format images on disk
- Timing line masking facility
- Clipped peak restoration
- Ability to vectorise wiggles or interpolate troughs, as applicable
- May be run in batch mode or interactively
- Option to apply filters after vectorising
- Outputs digitised data to disk or cartridge in SEGY format

System Requirements

- Any Sun Workstation running Solaris II and OSF/Motif
- A continuous feed scanner capable of producing compressed TIFF group 4 or group 3 or uncompressed TIFF format images



Diplomat™ - Additional Products

Other Software

DPTS are able to supply various third-party software products for:

- Scanning and indexing of small and large format documents
- Scanning documents to PDF format
- Conversion of SEGY, TIFF and various other formats to CGM
- Hard copy plotting of CGM files
- Digitising of contour maps, shotpoint maps, geological and seismic cross-sections

Systems Integration

- DPTS can supply fully integrated and configured systems for any combination of **Diplomat** products – scanning, digitising, plotting, database management and transcription. These systems can include specialised tape drives and tape cleaners for data recovery, and interface boards to enable some older drives to be connected to modern SCSI interfaces
- DPTS manufacture and supply Heat Treatment Ovens for treating tapes with stiction problems prior to transcription. The fully-insulated units have a capacity for approximately 50 tapes with temperature control from 20° C to 70° C

Installation, Training and Technical Support

- DPTS can provide installation and commissioning of systems in the customer's facilities by our experienced Engineers
- Full training programs in the operation of the system and use of the software can be conducted in the UK or the customer's offices
- Ongoing technical support via telephone, fax or email, is available from our experienced Geophysicists, Engineers and Programmers
- An on-site Technical Supervisor or Project Manager can be provided to facilitate the operation of a data management project