



*an Ovation Data Services Company*

# Diplomat™

**Transcription, Digitizing and Data Management  
Software and Systems**

DPTS Limited  
Unit 2.02, Crayfields Industrial Park  
Main Road  
St Paul's Cray  
Kent BR5 3HP  
England

Telephone: +44 (0)1689 824 777  
Fax: +44 (0)1689 834 550  
Email: [sales@dpts.co.uk](mailto:sales@dpts.co.uk)  
Web: <http://www.dpts.co.uk>

**Contact:**

Alan Jepson – Managing Director ([alan.jepson@dpts.co.uk](mailto:alan.jepson@dpts.co.uk))  
Steve Murphy – Sales Manager ([steve.murphy@dpts.co.uk](mailto:steve.murphy@dpts.co.uk))  
Barbara Hobson – Software Support Manager ([barbara.hobson@dpts.co.uk](mailto:barbara.hobson@dpts.co.uk))



# Diplomat™ Software & Systems

The **Diplomat** suite of software includes:

<b>Copy</b>	media to media copying
<b>Demux</b>	seismic data demultiplexing
<b>Utilities</b>	transcription QC tools and utilities
<b>Logman</b>	well log digital data utilities
<b>Wellman</b>	well log digitizing and data manipulation
<b>MultiStore</b>	data library management and project control

Additional third party software modules can be provided for seismic and map digitizing, scanning and plotting.

Software can be supplied with fully integrated systems for operation anywhere in the world.

## 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



## 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 SEGY and SEGD 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
- Various devices may be used for input or output, including 9-track tape, 3480, 3490E, 3590, 3592, LTO Ultrium, DTF, DLT, 8mm, 4mm, CD, DVD and USB disk
- 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 minimize Operator workload and maximize throughput
- Audit trail maintained of files copied and errors encountered
- Onscreen plotting of selected records and/or traces (e.g. near trace plot) for SEGY and SEGD 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 SEGY and SEGD 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/octal 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 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 SEG Y or SEGD (demultiplexed) formats.

**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
- Various devices may be used for input or output, including 9-track tape, 3480, 3490E, 3590, 3592, LTO Ultrium, DTF, DLT, 8mm, 4mm, CD, DVD and USB disk
- 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 sticking 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 minimize Operator workload and maximize 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 or BNP 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
- Insert navigation data from navigation tapes into trace headers (3D data)

## System Requirements

- Intel compatible Pentium PC
- Windows 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:

<b>SEGYCHK</b>	To verify the contents of a tape or disk file in SEGY format. Produces a listing of details from tape and trace headers, with user control over the information presented.
<b>SEGDCHK</b>	To verify the contents of a tape or disk file in SEGD format. Produces a listing of details from tape and trace headers, with user control over the information presented.
<b>YVU</b>	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 or BNP files for subsequent viewing or producing hard copy displays.
<b>MAPLOT</b>	Onscreen plotting of lines and shots or time slices from navigation coordinates
<b>SEGYSPPLIT</b>	To fix SEGY data so that it can be written to CD, DVD or TAR SGY
<b>UKLIST</b>	Navigation data utility program – lists, selects areas and converts UKOOA and SEGP formats
<b>RUNLIST</b>	Generates a Run List from Index Files
<b>SELECT</b>	Generates a Run List from a SP selection list and Index Files
<b>REPLF</b>	Replaces line feed in a text file with carriage return + line feed
<b>REPCR</b>	Replaces carriage return in a text file with carriage return + line feed

### System Requirements

- Intel compatible Pentium PC
- Windows 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 recognized 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, 4mm DAT drives, CD, DVD 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 SEG Y

## System Requirements

- Intel compatible Pentium PC
- Windows XP Professional



# Diplomat™ Wellman

**Diplomat Wellman** is an advanced well log digitizing and well data manipulation program. Its main feature is the ability to track and digitize 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 digitizing option when required
- Enhanced features for digitizing color logs
- 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 digitized 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
- Windows XP Professional
- A continuous feed scanner capable of producing compressed TIFF group 4 or group 3 format images



# 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

- Customized modules for seismic data, well log data and paper data
- Customizable 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 XP Professional
- Microsoft Access V2.0 or higher
- Microsoft SQL Server (optional)



# 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

## Systems Integration

- DPTS can supply fully integrated and configured systems for any combination of **Diplomat** products – scanning, digitizing, plotting, database management and transcription. These systems can include specialized 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