

1.0 PRODUCT DISCUSSION

The following outlines the ATAC Workstation, Satellite and Server Data Processing Software (DPS) options. Software, Basic Kit and Complete PC options are based on the performance required by most users. This is an introductory list; ATAC is able to support various PC configurations in order to provide you the maximum flexibility possible in an ever-changing technology based business.

We have priced the PC configuration aggressively and provided a comprehensive warranty to aid your decision. It is imperative that new revisions of hardware, BIOS and operating systems be tested by ATAC with our Data Processing Software. This software and the associated drivers are not trivial. A substantive risk of hardware incompatibility exists if non-validated hardware components are added or used in the host computer.

2.0 DATA PROCESSING SOFTWARE OVERVIEW

The DPS suite is based on three central capabilities; Workstation, Satellite and Server. The ATAC DPS suite capability and growth options differ significantly from the ATAC licensed DAS software distributed by Metrum Datatape. Most notably, ATAC DPS can support additional input types under the project definition screens. PC card input from MERLIN recorders and pure digital recorder input are supportable in the ATAC DPS product line. In addition, the ATAC DPS line will include a central server configuration whereby all workstation and satellite users can present projects, missions, library and output files for configuration management.

2.1 Workstation DPS

The Workstation DPS is a complete turnkey system designed to provide instrumentation engineers, data analysts, and test engineers complete control of the data process. Logging and analysis tools in the Workstation DPS provide the capability to simultaneously process and merge IRIG PCM Class I / II, IRIG Chapter 8 PCM, and Direct MIL-STD-1553 recorded on the MARS-II, MARS-IIe, and MARS-II-L tape drive units. This system has the capability to log up to eight channels of data simultaneously and output it in user-defined file formats at up to twice the normal playback speeds. In addition, the user can specify ASCII text file data be included in the merge of the MARS-II data during playback. These features provide an End-to-End solution from Data Acquisition to Data Analysis.

The Workstation DP Software provides the user with the ability to analyze MARS-II or MARS-IIe data immediately after a test. The DP software is a full 32-bit program that runs on a PC operating with Windows 95 or NT. The driver modules incorporate the latest OLE controls offered by Visual C++ and third party manufacturers. The user interface provides many easy-to-use features including drag-and-drop output definition; point-and-click data format selection, and a complete set of standard Windows menus and icons. The DAS software uses a standard file format to store parameter definitions, making it easy to import existing definitions using readily available spreadsheet and database programs.

2.2 Satellite DPS

ATAC DPS includes satellite stations as network seats or as standalone engineering stations. The DPS Satellite reads binary files as input and is Server DPS ready to access information from the configuration managed database. The EU conversion features of the Workstation DPS are retained in the Satellite DPS.

The satellite DPS possess all the normal features expected with ATAC products, simultaneous multi-channel merging, simultaneous PCM/1553/ASCII merging, mission history and controls, library importers, and project management. Satellite output files are compatible with all spreadsheet and graphics programs.

Using a single or multiple workstations, the satellite user can access binary images from the tape and manage them individually or through the database on the workstation. As a network seat, the satellite can slave to, but not modify the workstation database. Data can be processed seamlessly by pass against the workstation database and associated STD files.

Alternatively the satellite user can build an individual database by simply reading the STD files from PC supported peripherals or across the network.

2.3 Server DPS

The Server DPS will allow multiple workstations and satellites to use a common database for configuration management. Other than the network, there will be no physical hardware requirement between the satellites, server or workstations. Users can present project, mission, library or output file updates to configuration control as desired. The server will also act as the process link between the DPS workstations, satellites and existing test location processes. For example, library conversion from contractor source documentation can occur in many formats. The server will provide process dependent add-ins to accommodate the formats as required. Though defined for linking to workstations and satellites, the server software is not available for near term (90 day) shipping.

2.4 Digital Extractor and Sweeper Add-in

ATAC manufactures a Digital Extractor workstation. This workstation and associated software duplicates MARS II tapes to up to two target drives and builds an ARC file image of the channels on the tape. This process runs faster than real time dependent on the utilized bandwidth of the tape. Digital extractor is a 32 bit windows program.

ATAC produces an add-in to the digital extractor that removes message content from the duplicated tape. This process retains the time stamp and command word and fills the remaining data words with random data. The process is approved by the NSA to remove cryptovariable information while duplicating, allowing the duplicated tape to be reclassified at the next lowest level. The message filter is password protected by the system administrator. The Sweeper can be modified to meet the needs of all platforms. In addition, the Sweeper can be used to remove classified data during duplication to completely declassify the duplicated tape.

3.0 WORKSTATION BASIC KIT CONTENTS

Workstation DPS Software
ATAAC drivers for Windows NT
CD ROM with plug and play hardware setup under windows
Customized SCSI Host Adapter with one each 50 pin internal and external connector.
Internal adapter cable
Complete Installation and User Documentation.
Hardlock device and instructions

3.1 Workstation Interface Technical Specification

Computer Bus	PCI local Bus
Data Transfer	Programmed I/O (Proprietary Drivers)
Synchronous data rate up to	10 MByte/sec
Device Protocol	SCSI-2
Electrical Connector	50 pin high density
Hard Disk Capacity	Extended translation supports up to eight GBytes per disk
Device Support	Plug and Play support for the DLT-7000
Electrical Termination	Single ended, active, automatic
Operating Environment	Microsoft® Windows XP Workstation
Minimum Optimal PC	3.06 GHz Pentium II, 1 Gbyte RAM and 20 GByte Drive

4.0 PRICING

4.1 Workstation DPS

ATAAC offers three options of the PC DPS Workstations to meet your needs:

- 1) Basic kit without drive
- 2) Basic Kit with DLT 7000 drive
- 3) Complete PC

Configurations	PRICE
Option 1-BASIC KIT The Basic Kit consists of the following components: SCSI PC host adapter Adapter Cable Workstation DP Software and drivers with users manual on CD ROM.	\$35,000
Option 2-BASIC KIT with Drive Option 2 includes a DLT 7000 drive addition to the Option 1 kit	\$43,000

Option 3-Complete Workstation

\$48,500

Option 3 Consists of all Option 2 components and the following:

Workstation DP Software and drivers with users manual on CD ROM.
External DLT 8000 drive, Pentium IV at least 3.06 MHz Intel 845PE chip set and 800 MHz front side bus, 1 GB PC 2700 533 MHZ DDR2 SDRAM, 400 GB ATA hard drive, 48x CD-RW Drive + 12x DVD+RW/+R, Kensington removable drive tray, Adaptec 2940 Ultrawide bus mastering host adapter, ATTO Ultrawide bus mastering adapter, 1.44 floppy drive, 8X AGP graphics 128MB PCI Express, Mini tower server case, 300 Watt power supply, MS keyboard, MS Mouse, User defined 1 GB card, Microsoft Windows 2000 professional workstation, MS Office professional, 17" Monitor

Additional PC Software or Component Options

IRIG 106 Chapter 10 Module	Add \$13,750
IRIG 106 Chapter 10 Module w bus error checking	Add \$15,500
Software Add-in for PC Card (Analog) as input	Add \$7,000
Downgrade to DLT 4000	Subtract \$3,900
Extractor Software (ARC) ¹	Add \$9,150
NSA approved Sweeper Word Sweeper/Blanking add-in to Digital Extractor (requires two or more drives per workstation)	Add \$9,500
Additional external DLT 4000 ²	Add \$3,800
Additional external DLT 7000	Add \$8,000
Upgrade to Ultra SCSI Drive	Add \$1,100

¹Duplication feature will require a second drive, ARC file generation does not

²DLT 7000 can be copied to DLT 4000 assuming total recording size is compatible

4.2 Satellite DPS

Individual Stand Alone License	\$7,750
Single Seat Network License	\$1,000
10 Seat Network License	\$8,000

4.3 Server DPS

Server pricing will be based on Beta 2 cost and add-in requirements.

4.4 Digital Extractor and Sweeper add-in

Digital Extractor Workstation

Contains the same PC hardware configuration as the Workstation DPS except two external DLT 4000 drives are configured on the system in place of the single DLT 7000 Drive.	\$29,965
Digital Extractor Software and ATTO SCSI card	\$15,750
Substitute DLT 7000 for DLT 4000 (X2)	\$7,890
MARS II Word Sweeper/Blanking add-in to Digital Extractor	\$4,500
IRIG 106 and MARS II Sweeper add-in to Digital Extractor with PCM word sweeping plus selective blanking	\$9,250
Additional external DLT 4000 ¹	\$3,800
Additional external DLT 7000 ²	\$7,000

¹ DLT 7000 can be copied to DLT 4000 assuming total recording size is compatible.

² Extractor supports single source to dual target configuration.

Additional PC components can be added as requested.

All PC's will pass a 72-hour burn in.

Price includes shipping FOB within the CONUS.

Prices and detailed hardware components are subject to change without notice.

5.0 Maintenance Costs and Software Upgrades

Software upgrade requests will be supported and are considered part of the natural product evolution. The DPS suite is a commercial software product designed to meet the needs of the specific customer. The DPS suite was specifically designed following Object Oriented and HLA methodology to allow flexibility for input, database and output upgrade flexibility. The upcoming release of the Sever DPS is a result of the need to be native process compatible.

Product Support-annual	1	13%	13%
13% of total system cost for base systems.			
Product Support	1	\$94.31	\$94.31
FFP or FFP per hour			

6.0 SERVICE AND SUPPORT

ATAC will provide level 2 support of the software. This support is envisioned to include questions involving optimizing configurations and software set-up, trouble shooting installations, problem resolution and eliciting direct customer feedback for product improvements and expansion.

ATAC will provide products that meet an ATAC prepared specification. In the event that a software product fails to meet specification, ATAC will release a revision to correct the anomaly. Release revisions to create additional capability will be performed solely at ATAC's discretion. ATAC will create major block upgrades solely at ATAC's discretion. ATAC's warranty will include the customary disclaimers namely, repair or replace within 60 days, and no liability for sequential damages or in excess of the amount paid to ATAC.

ATAC will provide post sales support on site as requested and mutually agreed to by ATAC. In the event that the product is defective, ATAC will bear the cost of all travel to the specific site. This warranty does not apply to software installations into PC's with non-validated hardware configurations.

The Complete PC warranty is for three years to the original licensee. Additional OEM warranties apply. ATAC will act as the OEM agent for all warranties for equipment installed in the PC. Shipping costs to ATAC or its agent will be the responsibility of the licensee. ATAC will pay for the return shipping. On-site support is not included in this proposal.

7.0 LICENSE AGREEMENTS

The DPS Software package will be issued under a US Government "restricted rights" license. ATAC will be the sole authority to license the software and will provide the license directly to the end user. License verification, registration and end user agreements will be the responsibility of ATAC. ATAC is the sole authority to grant duplication rights.

Government accessible add-ins may be developed as Time and Materiel efforts as mutually agreed between the US Government and ATAC. These add-ins will be free distribution modules to US Government sponsored DPS users as executable code only. Additional restrictions may apply.