

4.13.3.2 Technical Requirements.

The Optical Memory Card Reader/Writer connectors shall be compatible with AT-compatible PCs. The Contractor shall provide a high-speed computer interface card for the computer. No damage shall occur to the Optical Memory Card or the Reader/Writer when the Card is removed before, during, or after reading or writing operations. The Reader/Writer shall be designed for maximum ease of card insertion and removal, and shall withstand those environmental conditions commonly encountered by data processing equipment. The Optical Memory Card Reader/Writer shall be compact and fit on a desktop.

4.13.3.3 Separately Orderable Components.

The Contractor shall provide the following Separately Orderable Components for the Optical Memory Card Reader/Writer:

- a. Computer Interface Card;
- b. Cable for Computer Interface Card.

4.13.4 Contact Memory Device Reader/Writer for PDCT.

The Contractor shall provide small, portable devices that enable reading and writing of data to Contact Memory Devices. A Contact Memory Device Reader/Writer is a probe that fits over the Contact Memory Device, and supplies a small electrical current to read from, and write to, the Device. The probe shall support connection by a cable or wireless connection to the PDCT-B1. All provided Contact Memory Devices shall be capable of being read by the same Reader/Writer.

4.13.5 Magnetic Stripe Encoders and Readers.

4.13.5.1 Stand-Alone Magnetic Stripe Encoder.

The Stand-alone Magnetic Stripe Encoder is used to write data to, and read data from, ANSI/ISO standard magnetic stripe tracks.

4.13.5.1.1 General Requirements.

The Contractor shall provide a Stand-alone Magnetic Stripe Encoder that can encode standard two-track, high-coercivity, magnetic stripes, using manual inputs. The Stand-alone Magnetic Stripe Encoder shall operate either in the stand-alone mode, or shall interface with AT-compatible PCs. Software shall be provided with the Encoder that allows the user to encode ANSI/ISO standard magnetic tracks 1 and 2 with user-provided information using an AT-compatible PC.

4.13.5.2 Magnetic Stripe Reader, Keyboard/Computer Configuration.

The Magnetic Stripe Reader, Keyboard/Computer Configuration (also known as a keyboard wedge reader) allows magnetic stripes to be read using an AT-compatible PC, or other host computer.

4.13.5.2.1 General Requirements.

The Contractor shall provide a Magnetic Stripe Reader, Keyboard/Computer Configuration. This Swipe Reader shall interface with an AT-compatible PC, or other host computer, and allow data read from ANSI/ISO standard magnetic tracks 1 and 2 to be displayed on the computer monitor, as though the data had been keyed in manually. Software shall be provided with the Reader, if required, that allows the user to read, display, and process information read from tracks 1 and 2 of magnetic stripe cards.

4.13.5.3 Magnetic Stripe Reader for PDCT.

4.13.5.3.1 General Requirements.

The Contractor shall provide a Magnetic Stripe Reader for PDCT that interfaces with the PDCT-B1 subclass. The Magnetic Stripe Reader for PDCT shall be capable of reading ANSI/ISO Standard magnetic tracks 1, and 2. Software shall be provided with the Reader, if required, that allows the user to read, display, process, and store data read from magnetic stripe cards.

4.14 TRANSIT CASE GROUPS.

The Contractor shall provide four functional Transit Case Groups of AIT II equipment consisting of twelve Configurations. The PDCT Group consists of five Configurations, the RF Access Point Group consists of two Configurations, the Bar Code Label Printer Group consists of four Configurations, and the Optical Memory Card Reader/Writer Group consists of one Configuration. The Contractor shall request a National Stock Number (NSN) for each Transit Case Group by submitting a DD Form 61, Request for Nomenclature. Additionally, the Contractor shall provide a B1GZ Transit Case Only for Government Ad Hoc Configuration.

4.14.1 Transit Cases.

The Contractor shall use best commercial practices in the design and manufacturer of the configured Transit Cases to protect the contained AIT II equipment. The Transit Cases shall be rigid, stackable, suitable for rugged environments, reusable, and waterproof to protect AIT II components during intermodal transport, and storage. Transit Cases shall protect AIT II components from rugged environment damage resulting from dropping during cargo loading and unloading, and vibration and shock when transported as loose cargo over unpaved secondary roads. The Transit Case shall be flexible enough to absorb shock, yet durable enough to protect the contents from forces striking the case from any angle. Transit Cases shall be equipped with automatic pressure-vacuum relief valves to accommodate differences in pressure from sea level up to an altitude of 40,000 feet. The Contractor shall certify the Transit Cases have been previously accepted by the DoD (i.e., tested and certified under MIL-STD 810D) for use in a rugged environment or have been manufactured and tested in accordance with ATA Specification 300, "Packaging of Airline Supplies"-1960 (R1996), for Category 1 containers. The test parameters shall be as follows:

a. Drop Test or Revolving Hexagonal Drum Test

(Note: Only one of the following four drop tests need be performed depending on the size and weight of the configuration.)

- a. Operator's Maintenance Kit;
- b. 8-inch roll of 4 by 6-inch, plastic bar code label stock, 2 each;
- c. Automatic Take-up Reel with 8-inch reel;
- d. Resin Printer Ribbon (sufficient for printing 2 rolls label stock);
- e. Portable Bar Code Verifier;
- f. 5 mil, visible light, wand bar code scanner for portable bar code verifier;
- g. Set of rechargeable batteries for portable bar code verifier, 2 each;
- h. AC Adapter for portable bar code verifier;
- i. Battery Charger for portable bar code verifier;
- j. Bar Code Symbology Test Sheets for portable bar code verifier;
- k. Reflectance Measurement Stand for portable bar code verifier;
- l. End User Manual for portable bar code verifier (GFI);
- m. Set of Universal Power Plug Adapters for portable bar code verifier;
- n. Contractor Furnished Transit Case Configurations Training Videotape and CD-ROM;
- o. Transit Case.

4.15.4 Optical Memory Card Reader/Writer Transit Case Group.

4.15.4.1 Optical Memory Card Reader/Writer Transit Case Configuration.

The Optical Memory Card Reader/Writer Transit Case Configuration is exempt from the protection from "rugged environment damage" and "vibration and shock" requirements of the paragraph entitled "Transit Cases" above. However, the Optical Memory Card Reader/Writer Transit Case, as well as the cutouts or molded cushioning, shall be of the same quality and possess at least the same degree of protective characteristics as the other Transit Cases. The Transit Case and packing shall protect the contents from rugged environment damage, vibration, and shock to the same degree as the Contractor's standard packaging for commercial delivery. The Optical Memory Card Reader/Writer Transit Case Configuration shall consist of the following:

- a. Optical Memory Card Reader/Writer, 1 each;
- b. End User Manual (GFI), 1 each;
- c. Set of Universal Power Plug Adapters, 1 each;
- d. Contractor Furnished Transit Case Configurations Training Videotape and CD-ROM;
- e. Transit Case.

4.15.5 B1GZ Transit Case for Government Ad Hoc Configuration.

The B1GZ Transit Case contains no equipment and is exempt from the Part D-1 paragraph 4.14.1.3 - Inventory List, paragraph 4.14.1.8 - Identification Plate and paragraph 4.14.1.9 - Transit Case Health and Safety Labels requirements. The B1GZ Transit Case shall contain cutouts for the following:

- a. PDCT-B1G (2.4 to 2.5 Ghz) RF PDCT, 2 each;
- b. PDCT Class B Communication Docking Station/Battery Charger, 2 each;
- c. Portable Bar Code Label Printer, 1 each;

- d. Portable Bar Code Printer AC Adapter, 1 each;
- e. Wireless LAN Adapter (2.4 to 2.5 Ghz), 1 each;
- f. RF Access Point (2.4 to 2.5 Ghz), 1 each.

4.15.6 Separately Orderable Components for Transit Case Configurations.

The Contractor shall provide the following Separately Orderable Components for the Transit Case Configurations:

- a. Transit Case Only for the PDCT-B1 Transit Case Configuration;
- b. Transit Case Only for the PDCT-B3MX2 (902-928 MHz) RF Transit Case Configuration;
- c. Transit Case Only for the PDCT-B3GX2 (2.4 to 2.5 GHz) RF Transit Case Configuration;
- d. Transit Case Only for the PDCT-B3MX5 (902-928 MHz) RF Transit Case Configuration;
- e. Transit Case Only for the PDCT-B3GX5 (2.4 to 2.5 GHz) RF Transit Case Configuration;
- f. Transit Case Only for the RF Access Point, 902-928 MHz, Transit Case Configuration;
- g. Transit Case Only for the RF Access Point, 2.4 to 2.5 GHz, Transit Case Configuration;
- h. Transit Case Only for the Portable Bar Code Label Printer Transit Case Configuration;
- i. Transit Case Only for the Portable Bar Code Label Printer Accessories Transit Case Configuration;
- j. Transit Case Only for the Medium Capability Bar Code Label Printer Transit Case Configuration;
- k. Transit Case Only for the Medium Capability Bar Code Label Printer Accessories Transit Case Configuration;
- l. Transit Case Only for the Optical Memory Card Reader/Writer Transit Case Configuration.
- m. Transit Case Only for Government Ad Hoc Configuration.

5 SOFTWARE, FIRMWARE, AND SECURITY REQUIREMENTS.

The Contractor shall provide software that will operate on a variety of Government-owned workstations, and on AIT II equipment provided under this Contract. The Contractor shall provide the necessary software to enable the Government to develop applications for AIT II equipment. The Contractor shall provide Bar Code Label and Form Design and Printing Software, Application Software Development Kit, Application Generation Software, and Wireless Transaction Support Software. The Contractor shall provide development software that operates under the Windows NT® 4.0 operating system. The Contractor shall provide all AIT II software on CD-ROM, or 3-1/2" high-density diskettes.

5.1 BAR CODE LABEL AND FORM DESIGN, AND PRINTING SOFTWARE.

5.1.1 Bar Code Label and Form Design Software.

Bar Code Label and Form Design Software is a set of programs in one package that will allow the Government user to design and print bar code labels and forms. The Contractor shall provide bar code label and form design and printing software with graphic support, as well as ISO 9075 SQL Call-Level Interface (open database connectivity). The software shall be capable of generating low, medium, high, and ultra-high Code 39 bar codes, as well as the other bar code symbologies listed in the paragraph entitled "Bar Code Symbologies". The software shall also be capable of generating DD 1348-1 and DD 1387 forms, and shall be designed to drive the provided bar code label printers. The Contractor shall provide software that allows rapid label and form design without having to learn the complexities of bar code symbologies and printer control languages, displays a "what-you-see-is-what-you-get" editor for designing bar code labels and forms, and allows viewing of bar code labels and forms prior to printing. The software shall also permit the use of fixed or variable data for label or form text and bar codes, and shall import information to be used with labels and forms from databases. The bar code label and form design and printing software shall be capable of running under Windows 95®,

For each required instructional and overview CD-ROM, the Contractor shall provide one Read/Write commercial standard CD-ROM to be used by the Government as its master copy for use in reproduction and distribution purposes. The Contractor shall also provide CD-ROM copies as Separately Orderable Components.

12.4 TRANSIT CASE CONFIGURATIONS TRAINING VIDEOTAPES AND CD-ROMS.

The Contractor shall provide AIT II Transit Case Configurations Training videotapes and CD-ROMs for each of the four functional Transit Case Groups. In those cases where the Transit Case Configuration is delivered before the training videotapes and CD-ROMs are available, the Contractor shall ensure that space is made available in each Transit Case for the videotapes and training CD-ROM (one or two CD-ROMs). The Transit Case Configurations Training Videotapes and CD-ROMs shall provide detailed, step-by-step explanations of fundamental AIT II equipment start-up operations, user procedures, interfaces, user maintenance, precautions, troubleshooting, and problem-solving for each of the four functional Transit Case Groups:

- a. PDCT Transit Case Group;
- b. RF Access Point Transit Case Group;
- c. Bar Code Label Printer Transit Case Group;
- d. Optical Memory Card Reader/Writer Transit Case Group.

12.4.1 Transit Case Configurations Training CD-ROM Requirements.

Each AIT II Transit Case Configurations Training CD-ROM shall consist of a one or two CD-ROM set. The Contractor shall use a professional authoring package and the CD-ROM shall be interactive in nature. The Training CD-ROMs shall be a stand-alone software training package, providing computer-based training with video, audio, and animation.

12.4.2 Transit Case Configurations Training Videotape and CD-ROM Masters and Copies.

For each required Transit Case Configurations Training videotape, the Contractor shall provide one master dubbing videotape to be used by the Government for reproduction and distribution purposes. The Contractor shall also provide videotape copies as Separately Orderable Components.

For each required Transit Case Configurations Training CD-ROM, the Contractor shall provide one master CD-ROM on an industry-quality, glass master CD-ROM to be used by the Government for reproduction and distribution of the multimedia training package. The Contractor shall also provide CD-ROM copies as Separately Orderable Components.

13 DOCUMENTATION REQUIREMENTS.

13.1 GOVERNMENT RIGHTS.

The Government shall have full and unrestricted rights, in accordance with copyright laws and regulations, to use and reproduce for its own use, all documentation provided under this contract. In addition, a separate set of user manuals and software reference documentation shall be