FCC ID: PSMDATATAC001

Exhibit 3

Operational/Technical Description

E-TRANSACTIONS, INC.

ARTEMA
DataTAC

Technical Description

1 Terminal Characteristics

1.1 Physical Characteristics

The terminal case is made of ABS Plastic.
The terminal houses the printer, the keyboard, the display, the magnetic card reader and, the smart card reader. This unit contains a rechargeable NICAD battery that allows for usage away from the base. There are two metal pads located on the underside of this unit that conduct current from the base to recharge the battery.

The base is the section on which the terminal rests. There are also two metal pads located on the top of the base which conduct current from the power supply to the rechargeable battery located in the terminal.

The dimensions of the unit are as follows:

(8.57 inches x 3.2 inches x 2.3 inches)
(243 mm x 90 mm x 65 mm)

The weight of the unit is as follows:

23.9 oz (680 g)

Operating Temperatures: +41 °F (+5 °C) to +104 °F (+40 °C)

Storage Temperatures: -13 °F (-25 °C) to +131 °F (+55 °C)

1.2 System Processor and Memory

The main system processor is a RISC 32 bits processor.
The terminal has 256K of RAM standard (upgradable to 1M). It has 2M of Flash memory standard (upgradable to 8M).

1.3 Display

The terminal **Display** is an LCD that can display 132 x 40 bit graphics (5 lines of 24 characters). The normal character size is .125 inch by .093 inch (3.175 mm x 2.362 mm).

1.4 Smart Card Interfaces

The terminal supports a smart card interface accessed through a slot at the front of the terminal. The smart card reader is ISO7816, EMV compliant.

1.5 Magnetic Card Reader

The magnetic stripe reader provided in the terminal is capable of reading ISO track 1, ISO track 2, ISO track 3 or a combination of these.

The card must be inserted with the magnetic stripe facing the keypad of the terminal. It can be read (swiped) in either direction.

1.6 Printer

The terminal uses a quiet and fast thermal printer for printing receipts and reports.
It enables the printing of 24-character lines on a receipt at a speed of 11 lines per second.

1.7 Motient Radio

This radio consists of a Research In Motion (RIM) OEM Radio Module 802D, manufactured by RIM to support the Motient network standard. The module supports a serial interface of 4.0Vdc with a data interface rate up to 9600 bauds. The transmitter delivers from __W to __W to the antenna port.
The transmit frequency band is 806 – 825 Mhz and receive band is 851 - 870 Mhz .

2 Battery Management

The terminal is equipped with two batteries, a small 3 V Lithium cell that is used to protect data in the memory (ex : Store software and transactions in RAM), and a larger 7.2 V rechargeable NICAD battery that is used to provide power for the terminal when it is in use off of the base and when a receipt is being printed either on or off of the base.

2.1 Lithium Cell (3 V)

If the battery pack is removed, a non rechargeable internal battery supplies power to the internal clock, ram, and PinPad keyboard in the terminal. This internal battery is a lithium replaceable cell. It is accessible only by opening the unit and therefor should only be replaced by an authorized service technician.

2.2 NICAD Battery (7.2 V)

The terminal is equipped with a rechargeable NICAD battery to allow for operation of the handset unit when it is not resting on the base. The battery reaches full charge in 6 to 8 hours.