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F. E. C. O.

FECO:	IO#13
PRODUCT:	SPECIALIX MTS/MTA/JETSTREAM 6/8500
PRODUCT WEB SITE:	www.perle.com
RELEASE DATE:	25th March 2003
ESTIMATED MAN HOURS:	N/A
CLASS OF CHANGE:	New Information and to Combine OLD FECO's
REASON FOR CHANGE:	Change of cable spec/connector and f/w issue
RELATED FECO/AB:	N/A

CHANGE OF CABLE SPECIFICATION AND CONNECTOR TYPE FIRMWARE VERSION 5 ISSUE

1. **Change of Cable Specification**

Specialix have changed the **RJ45** connector for the RS232 Ports on the **MTS** and **MTA** products from non-shielded to shielded connectors. At the same time they have changed the pinout of the ports
This will only be an issue on the minority of sites that are using **RJ45** connectors and wish to upgrade

ITEMS AFFECTED

> **SPECIALIX - MTA (RJ45)**
> **SPECIALIX - MTS (RJ45)**
> **SPECIALIX - JETSTREAM - 8500 (8) (16) (24)**

All Jetstream 8500 series will have the new configuration

MTA/S older style with EDP Mec description **SP-MTS(RJ45)** has **NO** earth shielding around the RJ45 connectors
MTA/S new style with EDP Mec description **SP-MTSJ(RJ45)** has shielding around the RJ45 connectors

PINOUT

The RJ45 pinout of the old non-shielded connector is:

        1=   DSR
        2=   DCD
        3=   RxD
        4=   CTS
        5=   Ground
        6=   TxD
        7=   DTR
        8=   RTS

The new shielded connector pinout is:

        1=   DCD
        2=   DSR
        3=   DTR
        4=   Ground
        5=   TxD
        6=   RxD
        7=   CTS
        8=   RTS
Shield = Chassis ground

This pinout is the one adopted by AT&T for their 258A(T568B) cabling standard
Specialix advise that if these standards are followed and coupled with a Cat5 installation,
greater distances and a more reliable throughput can be achieved
They will give no guarantee on the maximum cable length that can be used, however a Cat5
installation has a maximum single cable run of 100 meters

Screened cable must be used when connecting to any screened Specialix port
NEW INTERFACE CABLE (Cable Type **HR** which superseded Cable Type **GR**)

Specialix Jetstream 8500 to psuedo RTC connector

    Network Terminal Adapter

    8500   RTC connector
    8pin   25pin
    RJ45 Male   Dtype Female

    Side connector-------Shield---
    1--8
    2--6
    3--20
    4--7
    5--3
    6--2
    7--5
    8--4
    Length 2ft

The older style interface cable is now revised to be Cable Type **HQ1,** which superseded Cable
Type **GQ**

2.   **Change of Connector Type**

The Specialix MTS as supplied earlier to EDP had a BNC (10Base2) and an AUI (15 pin D Type) Connector for connection to the LAN

The new MTS was only supplied with an AUI (15 pin D type) and a RJ45 (10BaseT) connector

To facilitate connection a transceiver (AUI to BNC) is required to allow connection to the co-axial cable via a BNC connector

Switch settings

The switches are located underneath the top panel displaying the Specialix Logo

For connection directly to the thin wire co-ax (BNC) the switches are set to

> **UP 1 2 3   DOWN 4 5**

For connection via the transceiver the switches are set to

> **UP none   DOWN 1 2 3 4 5**

3.   **Firmware Issue**

There is a problem using MTS terminal servers with Firmware version 5 and below. When a gateway is added it functions correctly but times out after approximately 3 minutes usage

The problem was referred to **PERLE**. Their response was all MTS terminal servers with firmware version 5 and below will not support the use of gateways and there will **NOT** be an upgrade to overcome this problem

If a gateway is required then a Jetstream 8500 terminal server will have to be purchased