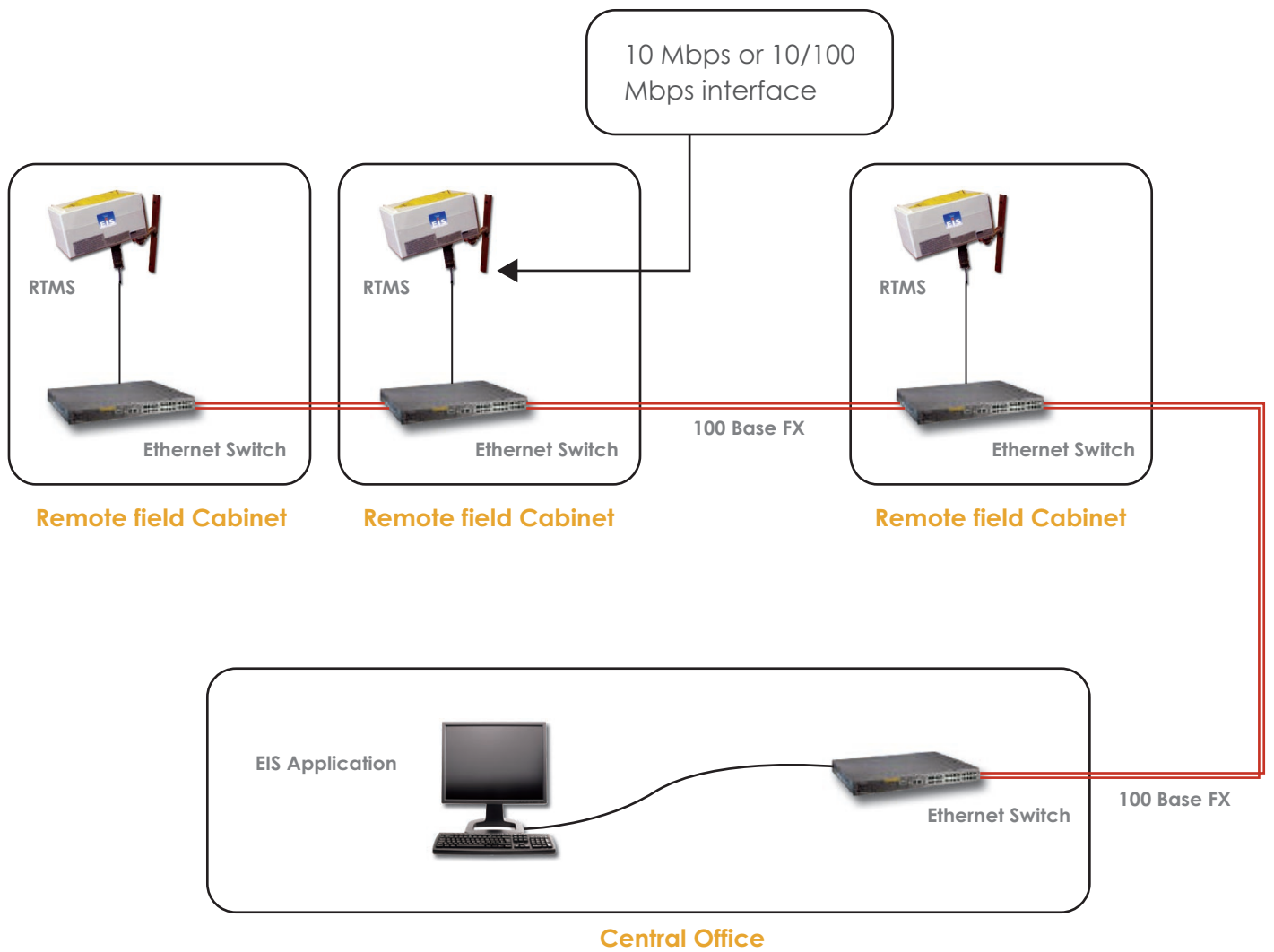


Impath & EIS RTMS INTERCONNECTS

The following describes various ways to communicate to EIS RTMS from the central site server application to the remote field units using either an Ethernet interface or by simply using the serial interface on the Impath i-Volution Encoders or Decoders.

RTMS with Ethernet Interface – Direct connect to an Ethernet Switch

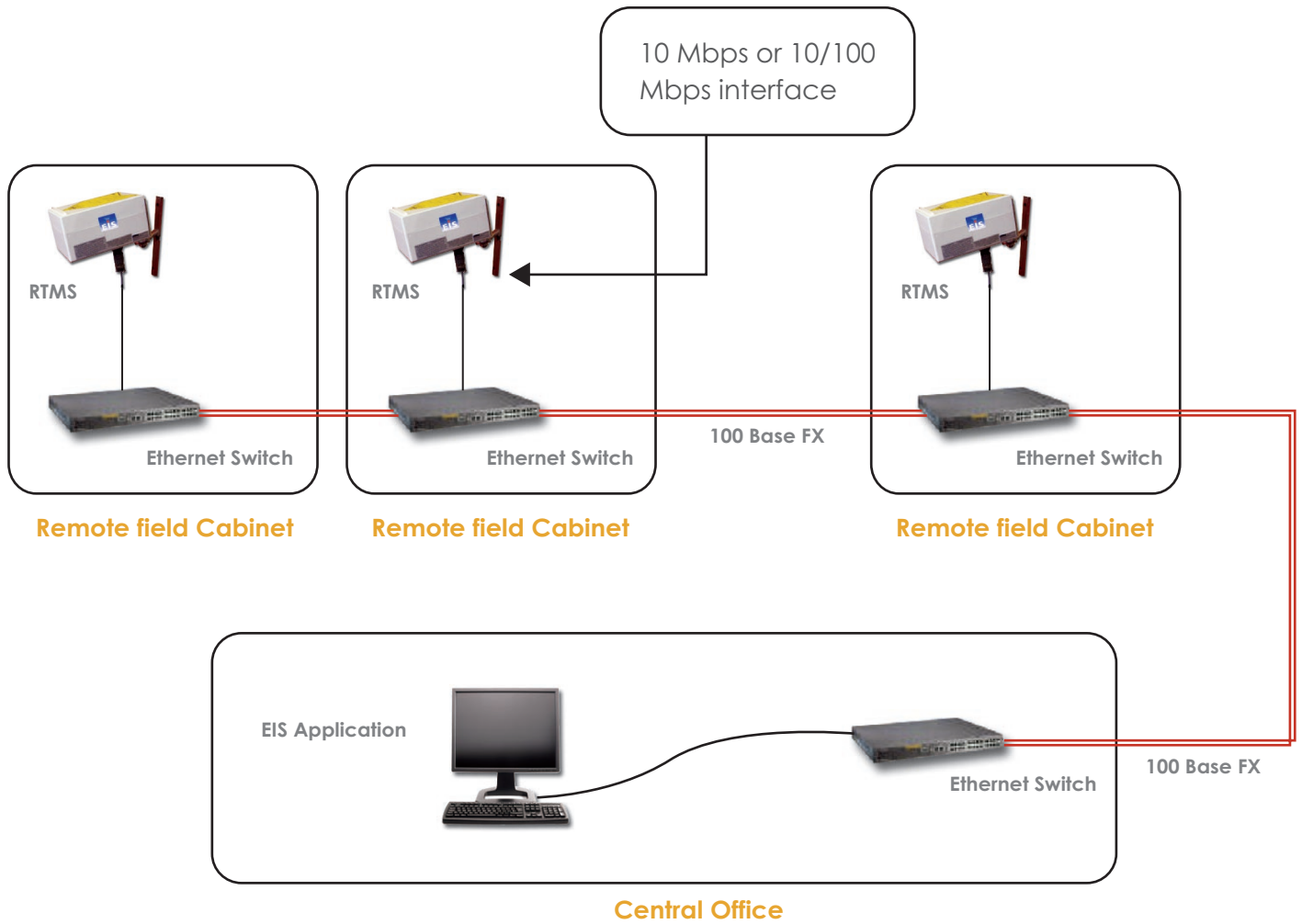


Standard (1 to 1) Cat 5e cable is used to interconnect the RTMS to the Ethernet Switch.

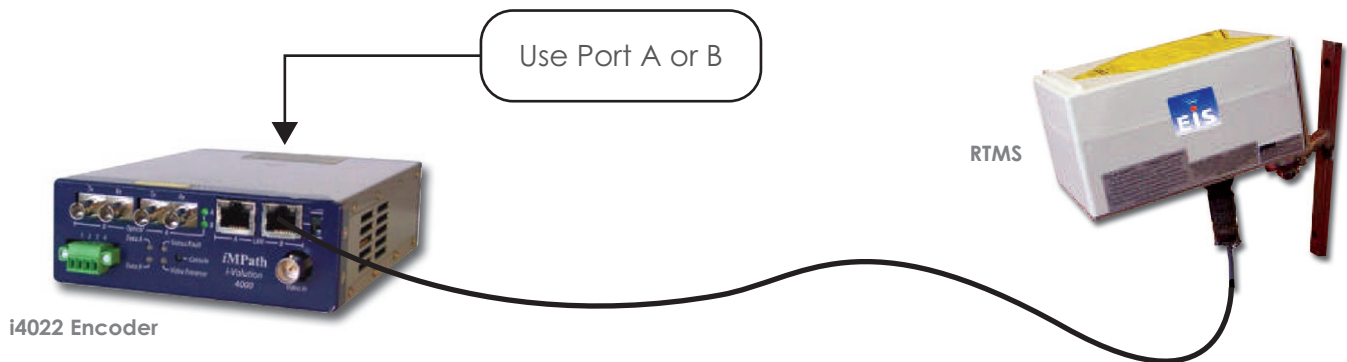


Impath & EIS RTMS INTERCONNECTS

RTMS with Ethernet Interface – Direct connect to an Encoder



Standard (1 to 1) Cat 5e cable is used to interconnect the RTMS to Ethernet Port A or B of the i4022 Encoder.



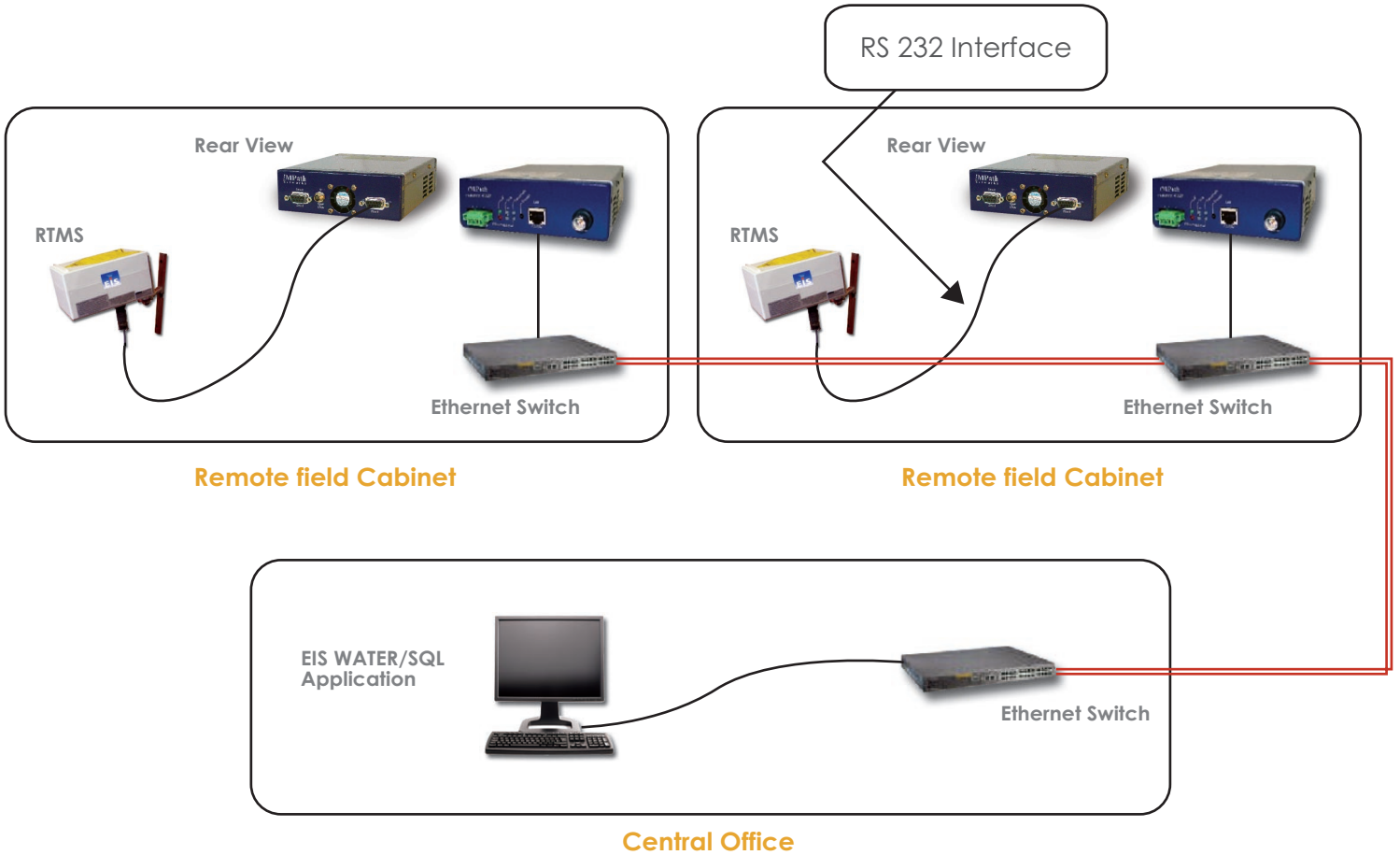
NOTE: EIS RTMS **must** be equipped with a network interface module that supports 100 Mbps. Modules that only support 10 Mbps are not intended for this application.



Impath & EIS RTMS INTERCONNECTS

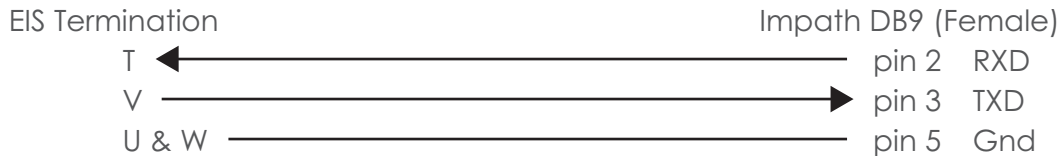
RTMS with Serial Interface

Typical configuration of RTMS products using the IP Interface on the server and using a serial interface of an i4110 Encoder to a remote RTMS unit.



- 4 Wire RS 232 interface is used between the RTMS and Impath i4110 Encoder.
- This solution can also work on all Impath i-Volution Encoders or Decoders.
- Serial port A or B on the Impath can be used for this application

RS 232 interface pin-outs:



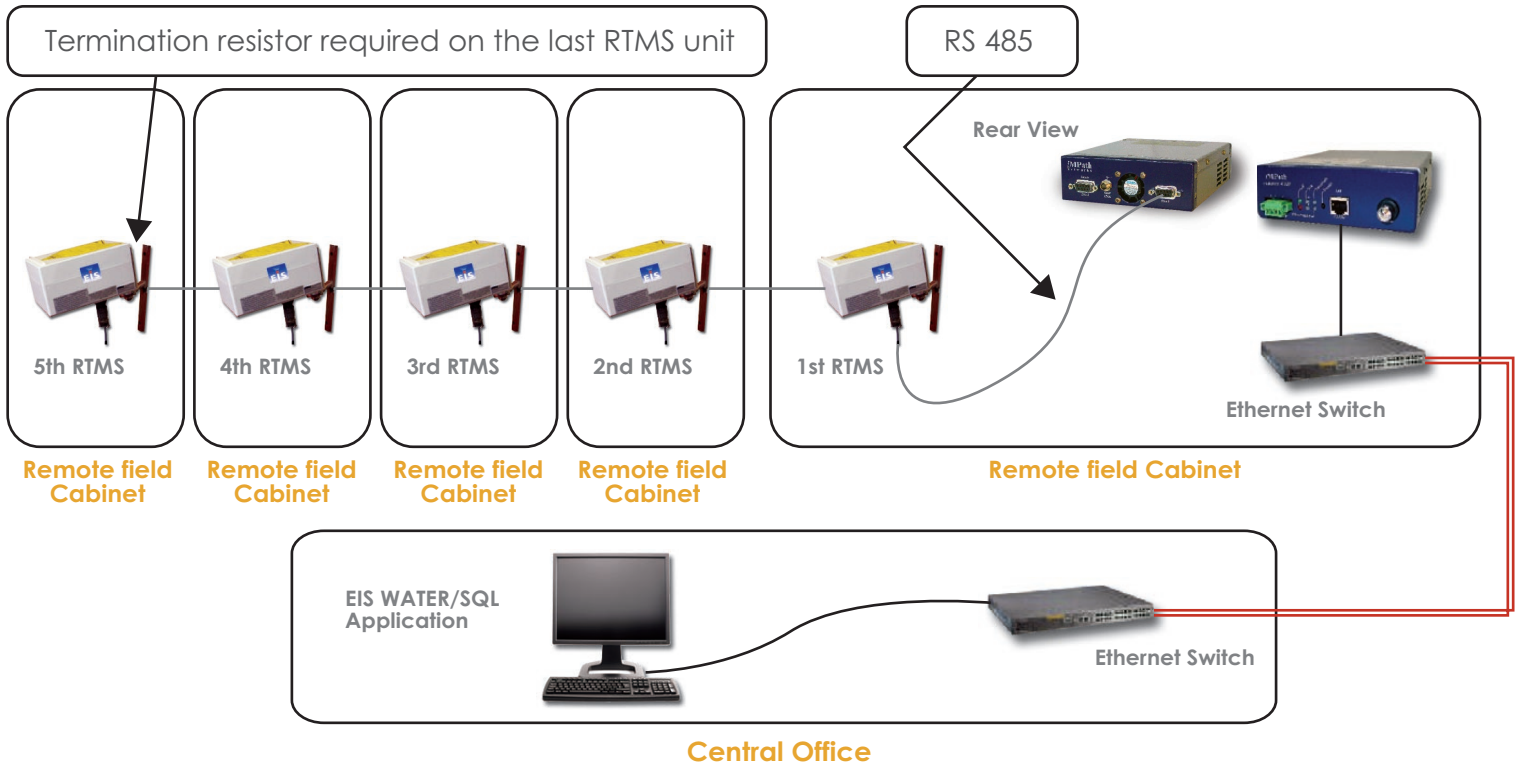
You must ensure that the serial interface on the Impath and on the RTMS are both set to RS 232 configuration. Bit rate should also be set to 9600 bps, 8 bit no parity with 1 stop bit. (Other bit rates are supported by both Impath and EIS.)



Impath & EIS RTMS INTERCONNECTS

RTMS with Serial Interface – Multidrop

Typical configuration of RTMS products using the IP Interface on the server and using a serial interface of an i4110 Encoder to distribute the signal to various remote RTMS units in multidrop.



- 4 Wire RS 485 interface is used between the RTMS and Impath i4110 Encoder.
 - This solution can also work on all Impath i-Volution Encoders or Decoders.
 - Serial port A or B on the Impath can be used for this application
- Please refer to EIS to determine the distance and the number of RTMS supported in this topology.

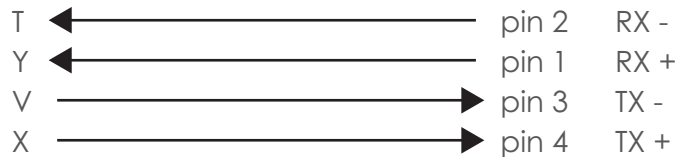
RS 485 interface pin-outs between the first RTMS and iMPath Encoder:

2nd RTMS Termination

1st RTMS Termination

Impath DB9 (Female)

Refer to the RTMS manual for multidrop wiring between the RTMS



You must ensure that the serial interface on the Impath is set to RS 485 in 4 wire full duplex configuration. Bit rate should also be set to 9600 bps, 8 bit no parity with 1 stop bit. (Other bit rates are supported by both Impath and EIS.)

Equipment configurations are available from Impath and EIS User Guides. Please contact Customer Support at Impath Networks or EIS for support.

