



CUSTOMER SUPPORT BULLETIN

Using the Telos Zephyr family in Japan

23 August, 2002

Many users inquire if they can use members of the Zephyr family in Japan. The answer is “yes you can”. The settings are slightly different for the Zephyr Xstream versus the older models. The following information will assist you in doing so.

ZEPHYR XSTREAM

1) ISDN lines and NT1's. In most parts of the world (US and Canada excluded), the NT1 is owned, operated, and powered by the Telephone Company. In Japan, the NT1 is called a “DSU”. Be sure that the Telco understands that you wish them to provide the DSU with the line. The DSU connects to the line and the “S” or “4 wire” interface of the Zephyr Xstream is connected to the DSU.

Therefore, you will need to use the RJ-45 to RJ-45 style cable, which you received with your Zephyr Xstream, to connect between the Xstream’s “S” jack and the DSU (NT1). Since the DSU has a separate source of power, it is highly advisable that you disable this power feed from the Xstream by setting jumpers blocks JP1 and JP3 on the ISDN interface card to their upper pair of pins. See section 12.1 in the Zephyr Xstream manual (version 2.0) manual for details.

2) ISDN protocol. The correct protocol for use in Japan is INS-64. You will need to set the Zephyr’s *Telco* setting to *INS-64* in the third *TEL* screen. You will have a single ISDN number. If you need to receive two calls the calling party should dial this number twice.

ZEPHYR & ZEPHYREXPRESS

Users with the European Terminal Adapters should skip to step 2.

1) ISDN lines and NT1's. In most parts of the world (US and Canada excluded), the NT1 is owned, operated, and powered by the Telephone Company. In Japan, the NT1 is called a “DSU”. Be sure that the Telco understands that you wish them to provide the DSU with the line. The DSU connects to the line and the “S” or “4 wire” interface of the Zephyr Xstream is connected to the DSU.

Therefore, you will need to use the RJ-45 to RJ-45 style cable, which you received with your Zephyr, to connect between the Zephyr’s “S” jack and the DSU. However, Terminal Adapter cards sold for use in the USA & Canada provide “PS-2 power” on this same cable. Since the DSU is powered independently, it is highly advisable that you disable this power feed from the Zephyr by modifying an 8 pin modular to 8-pin modular (RJ-45 style) cable as follows:

- Orient one end of the cable as follows. Hold the plug in your hand with the gold pins facing you (at the top) and the rest of the wire hanging towards the floor. Observe the wire color codes through the transparent plug. Determine the color of the last 2 leads all

the way to the right. These will normally be White/Brown and Brown/White. These 2 leads will need to be cut.

- Slit the insulation of the cable for about 2 inches approximately 3 inches back from one of the plugs. Locate the pair of wires identified above and cut these leads. Remove about 1/4" of each of the 2 leads. Stagger the cuts so that none of the ends can short to another.

- Tape up the cable and clearly label it "Euro/Asia S cable-No PS-2 power for NT1's"

2) ISDN protocol. The correct protocol for use in Japan is National ISDN-1. You will need to set the Zephyr's "Telco" setting to "Natl I-1". Leave the SPID and Directory number fields blank. This protocol is available on all Zephyrs that support ISDN. You will have a single ISDN number. If you need to receive two calls, the calling party should dial this number twice.

Thanks for your support of Telos Systems. For more information, email support@telos-systems.com, or europa@telos-systems.com. Good luck with your remote.

This bulletin replaces the previous version dated March 2001