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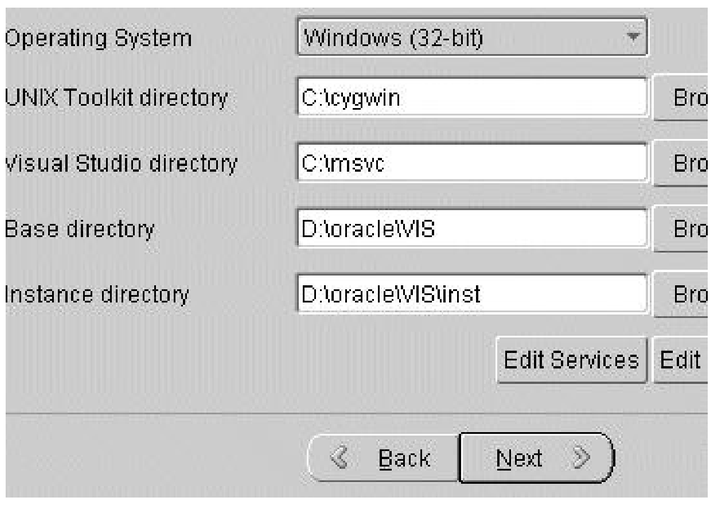

ptc.com Type 5 (TWINAX) Type 5 was defined by the IEEE 802.5 Working Committee in 1986 and standardised by the ANSI X3T9.2-1986. The Type 5 link consists of two double-coax cable pairs. Like Type 4 the signalling system is compatible with the AX.25 protocol. Although similar, it is not to be confused with the IEEE 802.5 Type 4. Type 5 is commonly used by local area networks, using a 4-pair twisted-pair cable. It is mainly used in North America and Europe. Type 6 Type 6 is the standard 4-pair, 2-elements twisted-pair cable used in the IEEE 802.11a radio link. The cable has four pairs of insulated wire twisted around one another in pairs. Type 7 Type 7 is a signalling protocol for twisted-pair local area networks. It can be used over four pairs of a standard coax cable, but is not compatible with protocols for other media such as FDM. Type 7 uses a frame structure similar to that of HDLC, but it is not compatible with HDLC. However, type 7 is defined as an HDLC compatible FCS field for backward compatibility. Type 7 defines the type and length of a frame as defined by ANSI X3T9.5, while HDLC specifies the field content of the frame structure. The IEEE 802.3 and X3T9.5 messages are encoded using the 2's complement value coding technique, providing for detection of bit errors, while HDLC uses 3's complement value coding, which is not as robust. An extension to Type 7 is Type 7A, which adds a 32-bit CRC as specified in X3T9.5, increasing the speed and robustness of the protocol. Type 7A is not yet specified by ANSI X3T9.5 and it is unknown how it will be implemented in hardware. Type 8 Type 8 is a protocol similar to HDLC, but it differs in the FCS field and frame formats. It is used for communication between a host and a single device on a local area network. Type 9 Type 9 is a protocol developed by the IEEE for the SONET digital telephony protocol. It is a modified variant of HDLC with a different framing, message headers and FCS. Type 9 is specified in ANSI X3.207-1989 and 82157476af