CoX.25

Software Protocol Stack for adding X.25 Functionality to new or current Devices

Product overview

CoX.25 is a comprehensive software implementation of CCITT/ITU and ISO X.25 definitions that can be rapidly ported to target hardware platforms such as multi-protocol adapters, multiplexors, circuit switching equipment, wireless/RF interfaces and routers.

CoX.25 software modules were designed and created using industry-standard STREAMS. Chosen for scalability and ease of use, STREAMS is an efficient and well documented resource manager that is supported on a wide range of operating systems. For platforms that lack native STREAMS support CoSystems offers CoSTREAMS, a small footprint implementation that provides a common operating environment for all CoSystems protocol stacks and third-party applications.

CoX.25 includes four functional groups of modules:

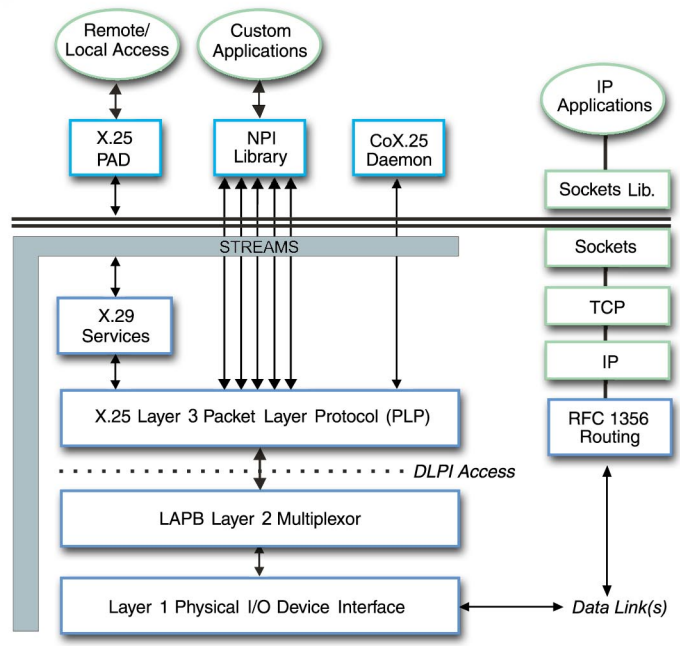
- X.25 Packet Layer (Layer 3)
- LAPB Data Link Layer (Layer 2)
- Physical Device Driver Interface (Layer 1)
- Daemon processes

Settings are dynamically configurable, permitting "tuning" of individual layers and virtual circuits. During installation, diagnostic and event-tracing tools provide a straightforward method for system validation and testing.

Highlights of CoX.25 include:

- ANSI 'C' libraries.
- ITU/CCITT X.25 (1988).
- ISO DIS 8208.
- X.25 Packet Layer Protocol (PLP).
- X.3/X.28/X.29 "triple X" asynchronous PAD.
- RFC 1356 IP Routing
- Transport Provider Interface (TPI) and Network Provider Interface (NPI).
- Data Link Provider Interface (DLPI) access at Layer 2.
- Robust LAPB Layer 2 Multiplexor.
- Support for multiple data streams over a single link.
- Physical layer "generic" I/O interface for adapting existing or proprietary device drivers.
- Pre-built HDLC device drivers available for popular SCCs, communications processors and framers.

CoX.25 is available for ISI pSOS, Wind River VxWORKS, ATI Nucleus (call for availability) and SunSoft Solaris (x86 and SPARC). The overall architecture of the CoX.25 protocol stack is shown below.



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