

TPS[®]/SNA

GENERAL INFORMATION



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OVERVIEW

TPS®/SNA (Systems Network Architecture) is a full-featured SNA implementation for both traditional hierarchical subarea networks (PU 4 / 5 to PU 2.0) and peer-to-peer networks (PU 2.1). LU support includes dependent support for LUs 0, 1, 2, 3, 4, 7 and dependent and independent LU support for LU 6.2. TPS®/SNA supports multiple links (PUs) and data link types on the same system (limited only by the number and type of hardware adapters on the system). Data link types supported include: SDLC, Token Ring, Ethernet, or Data Link Switching—DLSw (Switch-to-Switch Protocol).

TPS®/SNA provides a full set of standard SNA APIs, including CPI-C (Common Programming Interface - Communications), APPC (Advanced Program-to-Program Communications) and dependant LU API for LU types 0, 1, 2, 3, 4, and 7. Developers can then write user application programs to interface directly with host applications. TPS®/SNA can also be used with [TPS®/SNA Primary](#) to create a 'Virtual SNA Mainframe' so you can migrate your host applications to the UNIX® platforms.

TPS®/SNA works with TPS®/3270 emulation, [TPS®/RJE \(Remote Job Entry\)](#), and many other networking software applications to provide exceptional client-to-host connectivity. TPS®/SNA can also be used with [TPS®/TN3270 Server](#) to create an Internet TN3270 gateway environment.

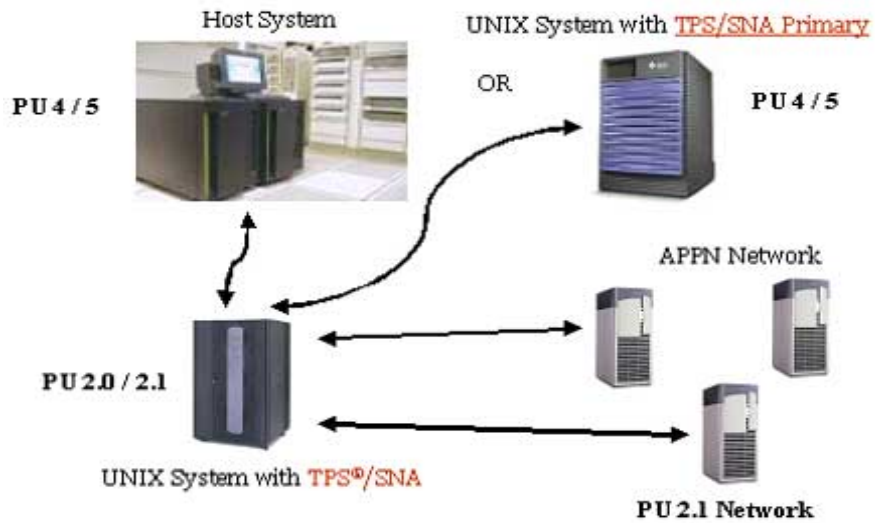
TPS®/SNA is not only exceptionally reliable, but it makes host connectivity economical and easy.

HIGHLIGHTS

- Full-featured SNA software platform for connecting to upstream SNA Hosts and APPN networks
- Supports Application Program Interfaces (APIs) for LU 6.2 (CPI-C and APPN) and for Dependant LU types 0, 1, 2, 3, 4, and 7
- Supports a wide range of data link connection types including SDLC, Token Ring, Ethernet, Data Link Switching - DLSw (Switch-to-Switch Protocol)
- Very easy installation and configuration
- Can be used with [TPS/SNA Primary](#) to provide a 'Virtual SNA Mainframe'
- Low system resource requirements
- High reliability and performance
- Interfaces with a full set of SNA applications
- Advanced diagnostic tools for problem determination
- From [TPS® Systems](#) — with 25+ year tradition of excellence in providing network software and support for large global enterprises

TPS®/SNA -- General Information

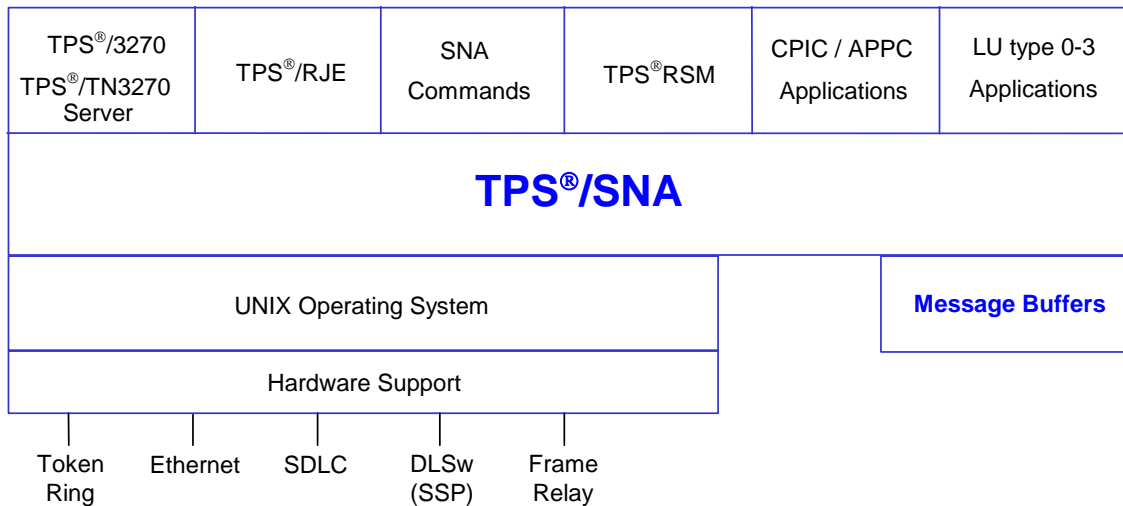
TOPOGRAPHY



ARCHITECTURE

TPS®/SNA uses standard UNIX® functions to support the data link and application interfaces. This makes TPS®/SNA portable across UNIX® platforms and gives a common look and feel if TPS®/SNA is run on differing UNIX® platforms. It also makes the product very independent of UNIX version changes. When an upgrade is made to the operating system, a new version of SNA is not required.

TPS®/SNA was designed with performance in mind. Advanced message buffering and handling techniques have been used for the SNA traffic to reduce the processor and memory overhead.



FEATURES

Data Link Protocol Support

TPS®/SNA supports many data link types:

- Synchronous Data Link Control (SDLC)
 - Leased or switched connections
 - RS-232, RS-422, V.35, V.25, and SmartModem
- Token Ring
 - IEEE 802.2 LLC
 - IEEE 802.5
 - Multiple connections per Token Ring supported
- Ethernet
 - IEEE 802.2 LLC
 - IEEE 802.3 Ethernet or Standard Ethernet
 - Multiple connections per Ethernet supported
- DLSw - Data Link Switching connection (SSP – Switch to Switch Protocol)
 - Uses TCP/IP connection
 - PU connection to DLSw server using SSP
- Frame Relay
 - Speeds to T1/E1
 - Uses TPS®/SoftFRAD product

SNA PU Protocols

Complete PU level support is provided to connect to an upstream SNA PU4/5 host or an APPN environment:

- PU type 2.0 support (connection to PU4/5 host system)
 - Up to 255 dependent LUs per PU
- PU type 2.1 support (connection to APPN networks or PU4/5 host systems)
 - Up to 10,000 independent LU sessions
 - APPN LEN node support
 - APPN EN node support
 - APPN NN node support

SNA LU Protocols

Complete LU level support is provided to connect to any host application or any peer program in an APPN node:

- Dependent LU support for LU types 0, 1, 2, 3, 4, and 7
- Dependent and independent LU support for LU type 6.2

SNA LU Protocols (Continued)

SNA works with any of the following LU applications to provide complete communications support:

- [TPS®/3270](#) - 3270 terminal emulation
- [TPS®/RJE](#) - Remote Job Entry emulation
- [TPS®/TN3270 Server](#) - TN3270 gateway
- Any application using the SNA APIs (without extensions) described below.

SNA APIs

A wide variety of standard programming interfaces is provided to allow program-to-program interactions with host systems and to peer-to-peer nodes.

- CPI-C (Common Programming Interface - Communications)
 - Peer-to-peer applications using LU type 6.2
 - Support for C and COBOL language
 - Conformance classes: Conversations, LU 6.2, Server, Data Conversion Routines, and Security
 - Extended functions including dynamic update of TPN and SIDEINFO information
 - Advanced diagnostic facilities

SNA APIs

- APC (Advanced Program to Program Communication)
 - Peer-to-peer applications using LU type 6.2
 - Support for C language
 - Advanced diagnostic facilities
- Dependent LU API for LU types 0, 1, 2, 3, 4, and 7
 - Support for C language
 - Advanced diagnostic facilities

Management Systems

TPS®/SNA is designed for straightforward central site installation/deployment and efficient ongoing manageability. A Management Subsystem provides:

- Installation using the operating system's standard facilities
- Quick and easy configuration
- Full SNA and PU status display
- Error logs
- Complete trace facilities including fully formatted output

Additional Features

TPS®/SNA also provides the following additional features:

- LU prioritization by dependent LU address or COS (Class Of Service)
- Multiple PUs can be multiplexed on the same Token Ring or Ethernet link
- A Conversion utility that transfers configurations from IBM® SNA Server for AIX into TPS®/SNA. It is not unusual for users to completely install TPS®/SNA and convert their existing IBM® SNA Server configuration in under 10 minutes!

Network Availability & Resiliency

TPS®/SNA provides automatic link restart and standard link error recovery procedures to support mission critical networks.

OPERATING ENVIRONMENT

TPS®/SNA currently requires:

Operating System:

- IBM® AIX® for IBM® pSeries (32 / 64-bit)
- Linux® for IBM® pSeries (64-bit), Intel®/AMD®(32-bit), Intel® Itanium (64-bit)
- HP-UX™ for HP9000 (32 / 64-bit)
- Sun Solaris® for Sparc (32 / 64-bit)
- SCO® OpenServer 5

Other Requirements:

Supported driver for communications adapter

PRODUCT POSITIONING

TPS®/SNA is an ideal solution for SNA connectivity in distributed UNIX® networks. In addition to being full-featured, ultra-reliable and delivering maximum performance with minimum system overhead, TPS®/SNA is very competitively priced.

CUSTOMER CONSIDERATIONS

Evaluation Licenses

Evaluation copies of TPS® software products are available for a pre-specified timeframe under the terms and conditions of the one-page TPS® Evaluation Agreement.

Return & Refunds

TPS® Systems guarantees that if a product does not meet your requirements, it may be returned within 60 days for a full refund.

Warranty Period

TPS® software products have a 90-day warranty period. After this period, customers should register for annual maintenance to receive continued technical support and no-charge program updates.

CUSTOMER CONSIDERATIONS (Continued)

Maintenance

TPS®/SNA post-warranty maintenance is available through the TPS® Annual Maintenance Agreement. Maintenance coverage includes telephone technical support and availability of new versions/releases at no additional charge. Annual maintenance charges are 20% of the license fee per system up to a maximum per customer enterprise. Please contact your TPS® Sales Representative for further details.

Customer Responsibilities

Customer responsibilities include:

- Performing site preparation, system planning, and other vendor preparations.
- Arranging common carrier service installation and maintenance/support coverage.
- Performing product installation, setup and configuration.
- Performing routine trouble-shooting procedures before contacting TPS® support.
- Providing diagnostic or trouble-shooting information as directed by TPS® support.

PRICING

For current pricing information, please contact TPS® Systems at (210) 496-1984, or email us at sales@tps.com.

ORDERING INFORMATION

TPS® software products are available under the Agreement for TPS® Licensed Programs. To order this product or obtain further information, please contact the TPS® Sales Department at (210) 496-1984 or e-mail sales@tps.com.