

TPS[®] /SNA Primary

GENERAL INFORMATION



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OVERVIEW

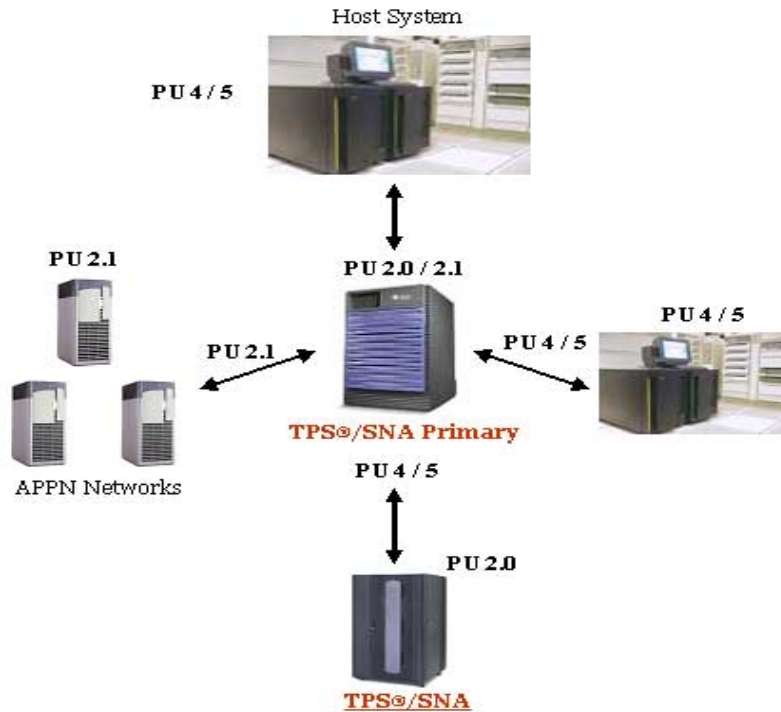
TPS®/SNA Primary and [TPS®/SNA](#) (Systems Network Architecture) combine to create a “Virtual SNA Mainframe” software environment on a UNIX® System. TPS®/SNA Primary enhances the flexibility of [TPS®/SNA](#) by enabling a single UNIX®-based system to support upstream host PU type 4/5 connections to any downstream PU type 2.0 system (such as a 3270 device) or to a host PU4/5 system using Cross Domain support. Standard SNA software implementations in the UNIX® environment, including TPS®/SNA, supports traditional PU type 2.0/2.1 connections to host PU type 4/5 systems and PU type 2.1 connections to peer-to-peer networks (APPN). TPS®/SNA Primary offers dependent LU support for LU type 0, 1, 2, 3, 4, and 7. Data link or connection types supported include: SDLC, Token Ring, Ethernet, and Data Link Switching - DLSw (Switch-to-Switch Protocol).

HIGHLIGHTS

- Robust SNA functionality for high-end SNA environments
- Upstream host PU type 4/5 connectivity to downstream PU2.0 devices (such as 3270)
- Upstream host PU type 4/5 connectivity to other PU4/5 host systems using Cross Domain support
- Executes with TPS®/SNA - providing PU2.0/2.1 connectivity to upstream host systems and APPN networks
- High performance solution with low resource utilization
- Interfaces with EHLLAPI of LU2 -type API
- Advanced diagnostic tools for problem determination
- Very easy installation and configuration
- Creates a “Virtual SNA Mainframe” environment on a UNIX® system
- From [TPS® Systems](#) — with 25+ year tradition of excellence in providing network software and support for large global enterprises

TPS®/SNA Primary -- General Information

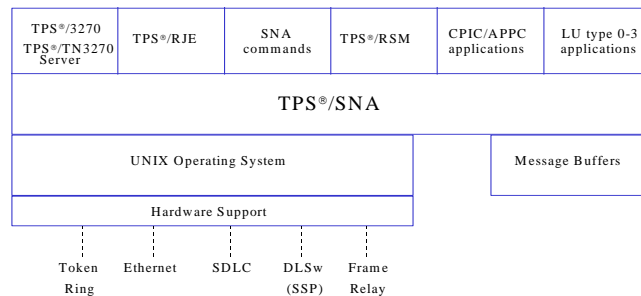
TOPOGRAPHY



ARCHITECTURE

TPS®/SNA Primary uses standard UNIX® functions to support the data link and application interfaces. This makes the SNA product portable to other UNIX® platforms and gives a common look and feel if SNA is run on multiple UNIX platforms. It also makes the product very independent of UNIX® version changes.

TPS®/SNA Primary 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 Primary provides for connecting to a diverse set of communication environments by supporting the following 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

SNA PU Protocols

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

- PU type 2.0 support (connection to host PU4/5 system)
 - Up to 255 dependent LUs per PU
- PU type 2.1 support (connection to APPN networks or host PU4/5 systems)
 - Up to 10,000 independent LU sessions
 - Up to 255 dependent LUs per PU (for PU4/5 host system)
 - APPN LEN node support
 - APPN EN node support
 - APPN NN node support
- PU type 4/5 support
 - Connection to other PU4/5 host systems using Cross Domain
 - Connection to downstream PU type 2.0 systems

SNA LU Protocols

Complete LU level support is provided to connect to any host application, downstream LU, or peer program:

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

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

- [TPS®/3270](#) or [TPS®/TN3270 Server](#) - 3270 terminal emulation
- [TPS®/RJE](#) - Remote Job Entry emulation

Standard SNA APIs

A wide variety of standard programming interfaces is provided to allow program-to-program interfaces to host systems, downstream 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
- APPC (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 Secondary and Primary LUs
 - Support for C language
 - Advanced diagnostic facilities

Management Systems

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

- Installs using the standardized install method for the operating system
- Designed for ease and speed of configuration
- Full SNA and PU status display
- Error logs
- Complete trace facilities including fully formatted output

Additional Features

TPS®/SNA Primary 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
- LU Gateway/Passthru feature allows LU sessions from one or more hosts to be routed to one or more downstream PUs.
- Conversion utility to convert IBM SNA configuration to TPS®/SNA Primary configuration

Network Availability & Resiliency

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

OPERATING ENVIRONMENT

Operating Systems:

- 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 OpenServer5®

Other Requirements:

Supported driver for communications adapter
[TPS®/SNA](#)

PRODUCT POSITIONING

TPS®/SNA Primary provides the basis for an easy migration from host environments to UNIX®. It is an ideal solution when organizations are:

- Moving mainframe applications to a UNIX® environment
- Needing to preserve their investment in existing PU2.0 (3270) devices
- Providing PU4/5 support for customers dialing in from downstream PU2.0/2.1 connections or PU4/5 host systems requiring Cross Domain support

CUSTOMER CONSIDERATIONS

Evaluation Licenses

Evaluation copies of TPS®/SNA Primary 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

All 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 Primary 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®/SNA Primary is available under the Agreement for TPS® Licensed Programs. To order TPS®/SNA Primary or for further information, please contact the TPS® Sales Department at (210) 496-1984 or e-mail sales@tps.com.