

TPS®/WSM (WAN↔Sockets Middleware) is an RS/6000®-based software system which enables manageable, high-function file transfers between downstream legacy networks/devices and upstream processors requiring TCP/IP. Currently supported legacy protocols include:

- Bisync – including a 2780/3780 subset
- SNA Remote Job Entry (RJE) 3777 printer/punch emulation
- Async Kermit, Xmodem and Zmodem

WSM contains three major subsystems:

1. A front-end legacy communication/protocol subsystem – which utilizes the proven capabilities of other TPS® products, such as device drivers for the IBM® ARTIC WAN card family and legacy protocol support systems. The front-end subsystems may be automated.
2. A common back-end transport facility which handles all TCP/IP sockets communications and provides a log for uniform diagnostics and monitoring functions.
3. An extensive management and monitoring system with menu-driven user interface.

TPS®/WSM's design allows for straightforward data exchange with other applications. Additional legacy protocols are in development – call TPS® for details.

Any TCP/IP Socket Connection



SNAs BSCs Asyncs Etc.

HIGHLIGHTS

- ✔ Bridges legacy SNA / Bisync / Async and TCP/IP networks through an RS/6000 gateway server
- ✔ Robust SNA, Bisync and Async support – through native functionality of prerequisite TPS® software products
- ✔ Extensive management and monitoring system with a menu-driven user interface
- ✔ Straightforward specification for the exchange of data on the TCP/IP side. User applications can interface easily
- ✔ Software-based – easily upgradeable to future releases
- ✔ From [TPS® Systems](#) — with 25+ year tradition of excellence in providing network software and support for large global enterprises

PRODUCT POSITIONING

TPS®/WSM is ideal for financial institutions and data servicers needing a flexible, scalable and highly manageable file transfer gateway between legacy systems and upstream processors requiring TCP/IP.

Legacy WAN Protocol Support

WSM supports legacy WAN protocols by utilizing the proven capabilities of the following TPS® products:

- TPS®/SNA
- TPS®/RJE (SNA)
- TPS®/BSC SUPPORT
- TPS® Device Drivers

Management System and User Interface

WSM is managed by an easy-to-use cursor-based menu interface enabling:

- Start/Stop/Status inquiry for all services
- Real-time display of log file/port/etc. activity
- Simplified setup, configuration and changes
- Shell out to other AIX® utilities and functions

Data Flow

WSM's front-end communication/protocol connections are started with appropriate parameters, such as the tty or ricport assignment, or a valid SNA PU name. Once the connection is started, it waits for incoming WAN-side traffic. When WAN-side traffic arrives, a WSM transport facility session is initiated to handle the data transfer. After data receipt, the transport facility checks a configuration file to validate the data for:

1. Customer ID/Password
2. Destination host name or I.P. Address
3. Transaction type (Return or No Return)
4. Trailing record - Defined by user - sent over Socket at end of transaction
5. Debugging Flags

WSM verifies that an incoming transmission is from a certified customer by matching Customer ID/Password data in the transaction Header Record (must be defined by user) with an entry in a customer identification table. WSM's transport facility then opens a TCP/IP Socket to the upstream processing system and sends the data over a BSD-compliant TCP/IP Socket.

WSM can determine if a remittance is required by examining the transaction Header Record. If a remittance is needed, WSM will expect remittance data to be returned from the upstream processing system over the opened TCP/IP Sockets interface.

EVALUATION LICENSES

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



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OPERATING ENVIRONMENT

Operating System:

- IBM® AIX® for IBM® pSeries (32-bit)

Other Requirements:

- A TCP/IP LAN connection requires an Ethernet or Token Ring LAN adapter

For SNA and RJE support:

- Licensed copy of [TPS®/SNA](#)
- Licensed copy of [TPS®/RJE \(SNA\)](#)
- AIX-supported LAN adapter, and/or an IBM ARTIC family card used with a supported TPS® Device Driver

For bisynchronous protocol support:

- Licensed copy of [TPS®/BSC SUPPORT](#)
- AIX-supported LAN adapter, and/or an IBM ARTIC family card used with a supported TPS® Device Driver

For asynchronous protocol support:

- Licensed copy of Kermit and Zmodem