Solstice® PPP 3.0.1 Important Product Information

STOP

This document contains important information. Please read it before installing or using this product.

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Part No.: 802-6461-10
Revision A, March 1996

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Solstice PPP 3.0.1 Important Product Information

This document is part of the Solstice™ PPP 3.0.1 document set, and contains important information concerning the product. You should read this document before installing Solstice PPP on your machine.

Inventory

You should have the following items in your Solstice PPP shipment:

- A compact disc (CD-ROM), containing the Solstice PPP software
  Part number 704-5278-10
- *Installing and Licensing Solstice PPP 3.0.1*
  Part number 804-5278-10
- *Configuring and Using Solstice PPP 3.0.1 Clients*
  Part number 802-5353-10
- *Configuring and Using Solstice PPP 3.0.1 Servers and Routers*
  Part number 802-5354-10
- *Solstice PPP 3.0.1 Important Product Information* (this document)
  Part number 802-6461-10

Differences from Previous Release

Solstice PPP 3.0.1 offers the following enhancements to Solstice PPP 3.0:

- Supports both Solaris™ SPARC and Solaris x86 platforms.
- Interactive CHAT scripts to support dynamic challenge-password authentication systems.
- Graphical user interface (`ppptool`) to initiate and terminate asynchronous connections.

Validated Serial Devices

The following asynchronous and synchronous serial devices have been tested and qualified for use with Solstice PPP. See `http://www.sun.com/sunsoft` for the most recent list of validated serial devices.

Note – This information does not imply a support contract or warranty from Sun Microsystems, Inc., for any of the listed devices.

Asynchronous Modems

- AT&T DataPort Express
- BocaModem V.34 DataFax
- Cardinal V.34/V.FC 28.8 data/fax
- Cardinal MVP288I 28.8 Kbps V.34 Fax Modem
- Hayes Accura 144B and 288V.FC
- Megahertz XJ2288 PCMCIA
- Motorola Codex 326X V.34
- MultiModem MT2834BLF
- MultiModem MT1432BF
- Olitec 288
- Practical 14400 V32bis
- SupraFaxModem 288
- USRobotics Sporter 14400
- USRobotics Sporter 288
- USRobotics Courier V.34
- Zoom V34

Synchronous Serial Interfaces

Serial Device	Supplier	Description
Onboard serial port (`zsh`)	Sun	Solaris SPARC platforms only. Supports data transfer rates of up to 19.2 Kbps (SPARC) and 64 Kbps (UltraSPARC).
SunLink HSI/S (`hih`)	Sun	Solaris SPARC platforms only. Provides 4 high-speed synchronous serial ports. Maximum recommended data transfer rate 512 Kbps.
Express-X (`expx`)	SCii/Sun	Solaris x86 platforms only. An 8-bit, PC/AT half-size ISA card that provides either two EIA-232-E (V24) interfaces or two EIA-449 (V11) interfaces. Supports data transfer rates of up to 64 Kbps.
800S+ (tty)	Aurora	Solaris SPARC platforms only. Single width Sbus board, which provides 8 high-speed (up to 128 Kbps) synchronous serial ports. Available with either DB25 or RJ-45 connectors.

Asynchronous Serial Interfaces

Serial Device	Supplier	Description
Onboard serial port (`tty`)	Sun	Solaris SPARC platforms only. Supports data transfer rates up to 38.4 Kbps.
800 SX (`tty`) 800S+ (`tty`)	Aurora	Solaris SPARC platforms only. Single width Sbus board, which provides 8 high-speed (up to 115.2 Kbps) asynchronous serial ports. Available with either DB25 or RJ-45 connectors..
Onboard serial port (`tty`)	PC supplier	Solaris x86 platforms only. Supports data transfer rates of up to 115.2 Kbps when the Driver Update 1 (DU) for these interfaces is installed.

Note that the SPC board is *not* supported.

Configuring High Speed Interfaces

Use the utilities supplied with your third-party serial interface to configure your machine to operate with high-speed serial interfaces.

Configuring Aurora High-Speed Interfaces

Solstice PPP has been tested with the Aurora 800S+ and 800SX interfaces operating at either 57.6 kbps or 115.2 kbps. Note that you must reconfigure the serial ports each time you reboot your machine.

▼ To Configure Aurora Interfaces on Solstice PPP Clients

1. **Stop Solstice PPP, by typing:**

```
prompt# /etc/init.d/ppp stop
```

2. **Use the** `mset` **utility supplied with the Aurora driver to configure the** *n***th port to operate at the required** *speed* **(either 115200 or 57600 bps).**

```
prompt# /opt/AURAcs/mset ttyn -baud speed
```

3. **Configure the PPP dialup device to set the line speed to 38400 and to enable software flow control. The entry for this device in the PPP link configuration file (**`/etc/opt/SUNWconn/ppp/link.conf`**) will be similar to the following:**

```
dialup_device pppdevn
      unix_device     ttyn
      line_speed      38400 ctsrts
      modem           modem_type
      call_setup      dial
```

4. **Restart Solstice PPP, by typing:**

```
prompt# /etc/init.d/ppp start
```

▼ To Configure Aurora Interfaces on Solstice PPP Servers

1. **Stop Solstice PPP, by typing:**

```
prompt# /etc/init.d/ppp stop
```

2. **Stop the service on the port you want to configure, by typing:**

```
prompt# pmadm -r -p zsmon -s pppdevn
```

3. **Use the** `mset` **utility supplied with the Aurora driver to configure the** *n***th port to operate at the required** *speed* **(either 57600 or 115200 bps).**

```
prompt# /opt/AURAcs/mset ttyn -baud speed
```

4. **Configure the PPP dialup device to set the line speed to 38400 and to enable software flow control. The entry for this device in the PPP link configuration file (**`/etc/opt/SUNWconn/ppp/link.conf`**) will be similar to the following:**

```
dialup_device pppdevn
      unix_device    ttyn
      line_speed     38400
      modem          modem_type
      call_setup     answer
```

5. **Run** `pppsetmod` **to reinitialize the modem, by typing:**

```
prompt# /usr/bin/pppsetmod
```

6. **Restart Solstice PPP, by typing:**

```
prompt# /etc/init.d/ppp start
```

Errors and Omissions in the Documentation

As of the date of this publication, we are aware of the following errors in the documentation for Solstice PPP 3.0.1.

Initiating Connections using `pppconn`

The following errors appear in Chapter 3, "Starting and Using Solstice PPP" of *Configuring and Using Solstice PPP Servers and Routers* (Part no. 802-5354-10).

The description of the command-line utility `pppconn`, which is used to initiate PPP connections, is incorrect. A corrected description is contained in the manpage for this utility, `pppconn(1M)`.

To initiate a PPP connection to *hostname* using `pppconn`, type:

```
prompt% pppconn hostname
```

To initiate a PPP connection to *hostname* with a telephone number other than the one specified in the configuration file `link.conf`, type:

```
prompt% pppconn hostname number
```

CHAT Script Syntax

The CHAT script syntax, as described using BNF, is as follows:

```
<chat_script>    ::= <script_cmd> | <chat_script> <script_cmd>
<script_cmd>     ::= <send_cmd> | <expect_cmd> | <echo_cmd> | <read_cmd>
<send_cmd>       ::= "send" <quoted_string> | "send RETURN" | "send BREAK"
<expect_cmd>     ::= "expect" <quoted_string> <number> <expect_error>
<expect_error>   ::= "" | "onerror" <send_repeat>
<send_repeat>    ::= <send_cmd> <repeat> | <send_cmd> | <repeat>
<repeat>         ::= "repeat" <number> | "repeat"
<echo_cmd>       ::= "echo" <quoted_string>
<read_cmd>       ::= "read" <string>
<quoted_string>  ::= "((<string>|<number>)[ ]*)+"
<string>         ::= ([a-zA-Z/_-&.%#@~+*\(){}$;:?><!]+[0-9"']*)+
<number>         ::= ([0-9,@*#$]*.)?[0-9,@*#$]+
```