SunATM™ 4.0 Adapter Release Notes

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SunATM 4.0 Adapter Release Notes

These release notes contain the late-breaking news for the SunATM™ 4.0 adapter software.

Installing the Driver

Beginning with the Solaris 7 8/99 release, SunATM device drivers were included on the Software Supplement for the Solaris Operating Environment CD. This inclusion ensures that the current driver is compatible with the current operating environment, allowing you to update drivers along with your operating environment. Therefore, if your system is running, or if you are installing Solaris 7 8/99 or a subsequent compatible release, install the SunATM device driver from the Software Supplement CD. Refer to the Solaris Sun Hardware Platform Guide for more information.

If your system is running a Solaris release earlier than the Solaris 7 8/99 release, install the drivers included on the SunATM product CD packaged with this card.

Known Corrections to Documentation

Section 4.1.2 of the *SunATM 4.0 Installation and User's Guide* incorrectly states that Patch # 105786-07 is required on all platforms running Solaris 2.6. This patch is not required for the Netra ft 1800 platform. However, the patch is required on all other platforms. Page 4 of the *SunATM 4.0 Update 1 CD Insert* has the same error.

Tested Number of Adapters For Each System

The following tables report tested configurations and should be viewed as "suggested" maximum configurations. Performance will vary widely based on system parameters, such as CPU speed, the number of CPUs, bus bandwidth, and disk speed.

These release notes do not include specific details for mixing SBus and PCI adapters within a system. We do support mixed SBus/PCI configurations, however its difficult to list every possible combination. When using mixed configurations, please use your system parameters and the following tables as a guideline.

Tested Number of SunATM/P Adapters Per System

TABLE 0-1 lists the number of SunATM/P 155 and SunATM/P 622 adapters supported per Sun™ system. The SunATM 4.0 Update 1 Update 1 software is supported on systems running Solaris 2.5.1, 2.6, and 7.

TABLE 0-1   Number of SunATM/P Adapters Tested Per Sun System

Sun System	# of SunATM/P 155 Adapters	OR	# of SunATM/P 622 Adapters	Max # of 155s and 622s mixed[2]
Ultra™ 30	2		1	2
Ultra Enterprise™ 450[1]	4		4	4
Ultra Enterprise 3000/ 3500	4		4	4
Ultra Enterprise 4000/ 4500	8		4	8
Ultra Enterprise 5000/ 5500	8		4	8
Ultra Enterprise 6000/ 6500	8		4	8
Ultra 60	3		1	3

TABLE 0-1   Number of SunATM/P Adapters Tested Per Sun System *(Continued)*

Sun System	# of SunATM/P 155 Adapters	OR	# of SunATM/P 622 Adapters	Max # of 155s and 622s mixed[2]
Ultra E250	3		1	3
Ultra 5 or Ultra 10	2		1	Not Supported
Netra™ ft 1800	4		Not Supported	Not Supported

1.The SunATM/P 155 or SunATM/P 622 adapters can be inserted into any PCI slot (33Mhz or 66Mhz) on a Sun system. However, due to a mechanical issue, the adapters do not fit properly into Slot 10 (A1) of the Ultra Enterprise 450 server. You can install either adapter into any of the other nine PCI slots on the Ultra Enterprise 450 server.

2.Number of adapters in a mixed configuration may not exceed the maximum supported of each adapter type. For example, you may not have an Ultra E250 system with *one* SunATM/P 155 adapter and *two* SunATM/P 622 adapters because only *one* SunATM/P 622 adapter is supported on that system.

Tested Number of SunATM/S Adapters Per System

TABLE 0-2 lists the number of SunATM/S 155 and SunATM/S 622 adapters that are supported per Sun system. The SunATM 4.0 Update 1 software is supported on systems running Solaris 2.5.1, 2.6, and 7.

TABLE 0-2   Number of SunATM/S Adapters Supported Per Sun System

Platform Architecture	System Type	Supported # of SunATM/S 155 Adapters	OR	Supported # of SunATM/S 622 Adapters	Max # of 155s and 622s mixed[1]
sun4u	Sun Ultra Enterprise 150	2		Not Supported	Not Supported
	Sun Ultra 1 Series	2		1	Not Supported
	Sun Ultra 2 Series	2		1	Not Supported
	Ultra Enterprise 1	2		1	Not Supported
	Ultra Enterprise 2	2		1	Not Supported
	Ultra Enterprise 3000/ 3500	4		2	4
	Ultra Enterprise 4000/ 4500	8		4	8

Platform Architecture	System Type	Supported # of SunATM/S 155 Adapters	O R	Supported # of SunATM/S 622 Adapters	Max # of 155s and 622s mixed[1]
	Ultra Enterprise 5000/5500	8		4	8
	Ultra Enterprise 6000/6500	15		4	15
sun4m	SPARCstation™ Classic	1		Not Supported	Not Supported
	SPARCstation LX	1		Not Supported	Not Supported
	SPARCstation 4	1		Not Supported	Not Supported
	SPARCstation 5	2		Not Supported	Not Supported
	SPARCstation 10	2		Not Supported	Not Supported
	SPARCstation 10SX	2		Not Supported	Not Supported
	SPARCstation 20 Series	2		1	Not Supported
	SPARCstation 600 Series	1		Not Supported	Not Supported
sun4d	SPARCserver™ 1000 and 1000E	4 (1 per SBus)		1	Not Supported
	SPARCcenter™ 2000 and 2000E	10 (1 per SBus)		1	Not Supported

1. Number of adapters in a mixed configuration may not exceed the maximum supported of each adapter type. For example, you may not have an Ultra Enterprise 4500 system with *three* SunATM/S 155 adapter and *five* SunATM/S 622 adapters because only *four* SunATM/S 622 adapters are supported on that system.

Note – The SunATM/S 4.0 Update 1 software does not support the SunATM/S 155 1.0 adapters.

Redundant LANE Servers

SunATM adapter software does not support redundant LAN Emulation Services, such as Cisco System's Simple Server Redundancy Protocol (SSRP) for LAN Emulation.

SunATM and Solstice FireWall-1

The Solstice FireWall-1™ product does not currently support the SunATM 4.0 release. Refer to bug report (BugID 4073989) for more information.

Running atmtest

There are three known issues with `atmtest`. Please review these issues before running `atmtest`.

1. **If you are using the Solaris 2.6 operating environment, running atmtest for extended periods of time (i.e., over a day) will cause the system to panic.**

   This is the result of a known OS problem (see BugID 4102546) against Solaris 2.6 and occurs when ddi_dma_mem_free() is called on a little-endian page whose virtual address is equal to or greater than 0x80000000.

   The `atmtest` also can fail if the bandwidth or outstanding packets is set too high for the system to handle. If this happens, an error similar to the example occurs.

   ```
   SUNWvts.atmtest.4000 09/17/98 17:33:10 atmtest ba0 WARNING: "VC30
   dropped
   pkt, seq: exp=41, obs=43; len: exp=1747, obs=6022"
   ```

   To correct this error, reduce the bandwidth or increase the number of outstanding packets in the atmtest.

2. **If you are using SunVTS version 2.1.3, you might have problems using the external loopback mode for atmtest. This problem is documented in bug ID 4211740, and is fixed with patch 107135-02.**

3. **atmtest does not currently support instance numbers greater than 9 (i.e. interface ba10 or greater). Refer to bug ID 4236224.**

Diskless, Dataless, or Autoclient Systems

SunATM adapters are not currently supported on diskless, dataless, or autoclient systems. The `root` and `/usr` file systems must be local for SunATM to operate.

*hyper*SPARC Modules Are Not Supported

The SunATM 4.0 software does not support sun4m systems containing *hyper*SPARC™ modules. If you have a SPARCstation 10, 10SX, or 20 system with *hyper*SPARC modules, or if you have updated your system to use *hyper*SPARC modules, you will not be able to use this SunATM release.

To see if your machine contains *hyper*SPARC modules, type the following command:

```
# prtconf | grep Ross,RT625
```

You will see `Ross,RT625 (driver not attached)` as the result of this command if your system contains a *hyper*SPARC module.