



StarPort iSCSI and AoE Initiator

Turn a Microsoft machine into
iSCSI and AoE Initiator

 ROCKETDIVISION

www.rocketdivision.com

What is an

▶ iSCSI and AoE Initiator

- StarPort fully implements iSCSI and ATA-over-Ethernet client side protocols enabling you to connect to remote storage appliances such as disk arrays, tape drives, DVD-ROM image libraries and so on.
- StarPort connects to iSCSI or AoE (ATA-over-Ethernet) storage in the server room or creates a virtual DVD-ROM drive locally to watch movies in a home theatre extending your computing infrastructure.

A blue network cable with a clear RJ45 connector is shown in the top left corner. The background features a blue gradient with faint, glowing network lines and nodes.

iSCSI and AoE Support in Detail

- StarPort's iSCSI support enables connectivity to remote storage devices over a standard IP network, regardless of where the device resides; in the next room or on another continent.
- AoE protocol support provides the same functionality as iSCSI in those environments where ATA-over-Ethernet technology is used. CoRAID produces network storage appliances currently using AoE as the core protocol. AoE delivers a simple, high performance, low cost alternative to iSCSI and Fibre Channel for networked block storage by eliminating the processing overhead of TCP/IP.

Key Benefits & Solutions

- **Storage Consolidation:** Consolidate all storage in the server room to increase application "up time" and simplify administration. The entire storage pool can be centrally managed eliminating the need to separately maintain "islands" of disks. Any iSCSI Target can be used with StarPort which connects to iSCSI disk volumes from a Microsoft Windows machine.
- **Outstanding Performance:** StarPort is a "domestic" iSCSI Initiator for the StarWind iSCSI Target. This combination provides unbeatable performance compared to the Microsoft iSCSI Initiator run against third-party iSCSI targets.
- **Automatic Replication:** Replication of mission-critical data to another site over a low-bandwidth connection is built-in into StarWind. The StarPort iSCSI Initiator should be co-installed with StarWind on the same machine to provide iSCSI private connection services to StarWind
- **Share Physical Devices:** Tape drives and ultra-modern high-capacity Blu-Ray and HD-DVD burners can be shared over a standard IP network, leveraging existing tape backup and CD/DVD/Blu-Ray/HD-DVD burning applications allowing backups to a remotely located tape or optical media drive. There's no need to issue every single user with a dedicated hardware box if it can be shared among multiple users. StarWind is currently the only iSCSI Target for Microsoft Windows which allows sharing of physical storage hardware "AS IS".

Key Benefits & Solutions: Continued

- **VTL (Virtual Tape Library) emulation:** Future versions of StarPort will support VTL (Virtual Tape Library) emulation and Microsoft VDS (Virtual Disk Services) making disk-to-disk-to-tape backup and storage management even easier than today.
- **Create Media Libraries:** Standard ISO and MDS images can be mounted to virtual DVD-ROM drives creating media libraries exported via SMB. Original physical media would stay unscratched in the storage room while people work with the images over SMB protocol.
- **Share Physical Devices:** Tape drives and ultra-modern high-capacity Blu-Ray and HD-DVD burners can be shared over a standard IP network, leveraging existing tape backup and CD/DVD/Blu-Ray/HD-DVD burning applications allowing backups to a remotely located tape or optical media drive. There's no need to issue every single user with a dedicated hardware box if it can be shared among multiple users. StarWind is currently the only iSCSI Target for Microsoft Windows which allows sharing of physical storage hardware "AS IS".

Features

- SCSI device emulation. Connects over IP network and maps locally any remote iSCSI device: hard disks and disk array, CD/DVD/Blu-Ray/HD-DVD burners, tape drives and autoloader libraries, media changers, etc.
- Complete iSCSI and AoE (ATA-over-Ethernet) client-side protocols support.
- Supports huge disks (above 2 TB in size) for both iSCSI and ATA-over-Ethernet configurations.
- Early mounting of persistent devices (before the user logs in).
- Native 32-bit and 64-bit binaries for x86 and x64 machines.
- iSNS integration for easy iSCSI targets look-up.

Features: Continued

- IPv4 and IPv6 support out-of-box.
- CHAP authentication provides additional security.
- IPsec encryption for secure tunneling of private data over insecure WAN IP connections. The entire session content is encrypted. Your company critical data would remain encrypted during replication from the main site to remote sites.
- DVD-ROM drive emulation built-in. Allows mounting existing DVD-ROM ISO and MDS images as DVD-ROM drives. This prevents original DVD-ROM media from physical damage or loss, allows you to use client machines without optical drives and allows storing DVD backup data on a single server.
- Local RAM disk emulation provide extremely high performance for I/O critical applications.
- Fully conforms to the latest iSCSI Standard 1.0 (former Draft 20).

Supported Platforms

- StarPort is compatible with Microsoft Windows 2000 / Server 2003 / Server 2008 / Storage Server 2003 / XP Professional / Vista
- StarPort is tested for compatibility with the Microsoft iSCSI Target.
- StarPort has also been tested for compatibility with various software and hardware iSCSI Targets.

Customers List (partial)



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McAfee[®]

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Microsoft[®]

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Company About

- Rocket Division Software is a leading provider of high-performance technologies for the data storage and networking industry.
- Our development expertise cover a wide range of existing and emerging storage and networking technologies, such as:
 - CD/DVD/Blu-Ray/HD-DVD recording and mastering
 - Tape backup and restore
 - iSCSI and AoE (ATA-over-Ethernet)
 - Virtual storage
 - TCP, SCSI and file-system filtering
 - Local and network file system design

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Thank you !

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