

SANBlaze Technology
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Version 1.0.4

Release Notes

Document Revision 2.0

SB-ATCA1000

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SANBlaze® SB-ATCA1000 Release Notes

Thank you for choosing products from SANBlaze Technology.

This document contains important information about this product release that may not appear in the standard product documentation. We encourage you to read these notes before installing this product.

Identifying the correct firmware image

Code release file name: **ATCA1000_V1.0.4.tar.gz**

This is the latest firmware for the ATCA1000; SANBlaze distributes the code as gunzip (*.gz) file. The distribution will contain the following three files:

| File | Description |
|---------------------|---|
| Rootfs.ext.gz.uboot | compressed file system firmware image file (version denoted by timestamp) |
| uImage | Compressed linux kernel firmware image |
| U-boot.bin | Compressed u-boot firmware code image |

Identifying the correct hardware

This code release is compatible with certain ATCA1000 products marked as version 0002 or greater. Before proceeding, Use the web GUI, and check the version shown on the Maintenance->ATCA_Status page:

| ATCA1000 ATCA1000 Blade 1 (0x96) Status | | | | | | | |
|---|---------|----------|-------------|----------------|----------|-------------|-------------|
| Vendor | IANA ID | Name | HW Revision | H8 FW Revision | IPMI Rev | Model | Serial |
| SANBlaze Technology, Inc. | 76a4 | ATCA1000 | 0002 | 01.10 | 01.50 | SB-ATCA1000 | 100LYMMSSSS |

Alternatively, the IPMI command “GetDeviceID” command can be issued to determine compatibility; specifically inspect the response for board/device revision (byte 3 of the GetDeviceID response):

| GetDeviceID board/device revision | Description |
|-----------------------------------|--|
| 01 | Please contact SANBlaze before upgrading. |
| 02 (or greater) | Hardware is compatible. You may upgrade the blade. |

Web flash tool, update procedure details

SANBlaze offers the ability to update the carrier firmware using secure html connections. The user must establish Web access to use this utility. The following procedure is a detailed description of the web-based flash update procedure:

▼ Upgrade firmware procedure

| ATCA1000 ATCA1000 Maintenance Page | | |
|------------------------------------|---------------------|----------------------------------|
| File Name | Revision | Build Date |
| Software Release Kit | V1.0 | Date: 2010/09/27 19:44:14 |
| u-boot | 1.3.0 | Apr 27 2009 - 17:44:03 |
| Linux | 2.6.23 | #77 Wed Oct 20 11:21:04 EDT 2010 |
| atca_blade | Revision: 1.189.2.1 | Date: 2010/09/27 19:44:14 |

| ATCA1000 ATCA1000 System Maintenance | | | |
|--------------------------------------|--|----------------------------|--|
| Import Software Update | <input type="button" value="Choose File..."/> | No File chosen | <input type="button" value="Import"/> |
| Import System Configuration | <input type="button" value="Choose File ..."/> | No File chosen | <input type="button" value="Import"/> |
| Export System Configuration | /backup/nvdisk.tar.gz | | <input type="button" value="Export"/> |
| Export System Log Files | /dev/shm/logfile.tar.gz | | <input type="button" value="Export"/> |
| GUI Inactivity Timeout | <input type="text" value="600"/> | Seconds Min =60 Max = 7200 | <input type="button" value="Set Timeout"/> |

▼ Follow these instructions to flash new firmware

- Step 1. Click the **'Choose File'** button, navigate to find the new *.gz firmware file.
- Step 2. Click the **'Import'** button. The import can take 1 to 5 minutes; the user must wait, and not navigate away from the open browser window.
- Step 3. The following screen will appear. Click the software component(s) to upgrade and click the **'Update'** button.

| StoreBlade99 ATCA1000 System Maintenance | | |
|--|---|---------------------------------------|
| Apply Software Update | /dev/shm/ATCA1000_VXXrcxx/u-boot | <input checked="" type="checkbox"/> |
| | /dev/shm/ATCA1000_VXXrcxx/ulmage_2.6.23 | <input checked="" type="checkbox"/> |
| | /dev/shm/ATCA1000_VXXrcxx/rootfs | <input checked="" type="checkbox"/> |
| Export System Backup | /backup/nvdisk.tar.gz | <input type="button" value="Export"/> |

- Step 4. A Pop-up window notifies the user when the flash update completes. The new software becomes active at next reboot.
- Step 5. (optional) Perform Factory Reset
Issue this command at any time to restore blade defaults. Recommended if your current version is RC4 or older.
NOTICE: This command will erase all existing blade configurations (network settings, volumes, shares etc), but guarantees proper installation of the upgrade.
 - i. Login into shell window as admin (username=admin, password=admin)

- ii. At console prompt, type:
`atca_blade set_factory 1 Y 2 Y 3 Y 4 Y +`

Step 6. A blade reboot button is available on the 'ATCA Status' menu, or via shell console prompt, as root using:
`# reboot`

CLI tool, update procedure details.

Please See ATCA user manual.

Resignaturing VMware ESX volumes

If upgrading blade firmware that was V1.0.1 or older, existing iSCSI datastores are assigned new LUN ID (UUID or serial numbers). VMware ESX may subsequently report these datastores as disabled or unexpectedly missing because the LUN ID is used to help identify a datastore. In this case, you must resignature these datastores using the following rescan procedure. The procedure is executed only one-time and is non-destructive.

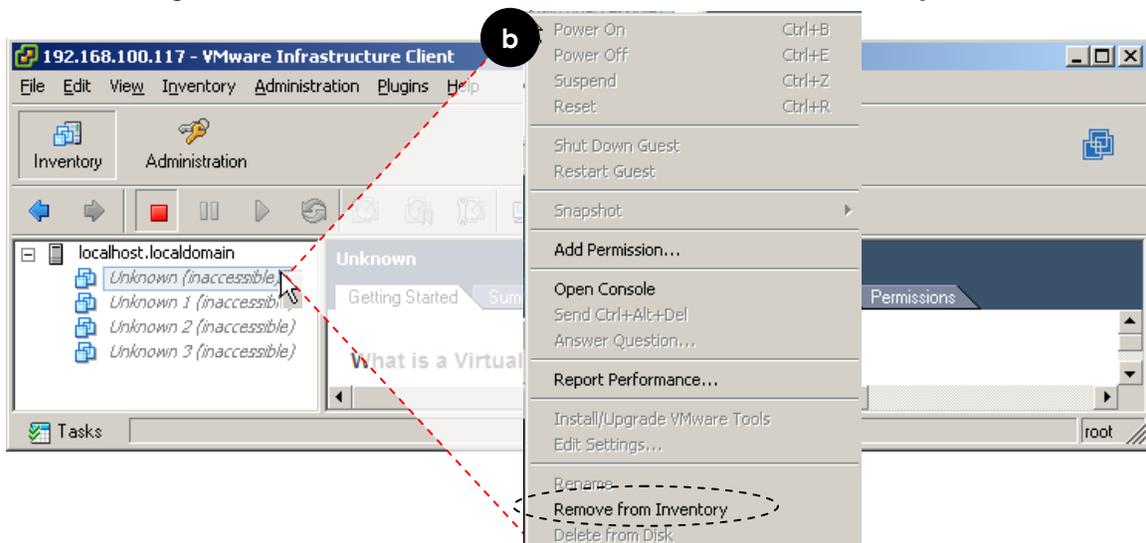
Step 1. Power off all virtual machines stored on the affected volume(s)

Step 2. Log into each host, and execute the following four commands:

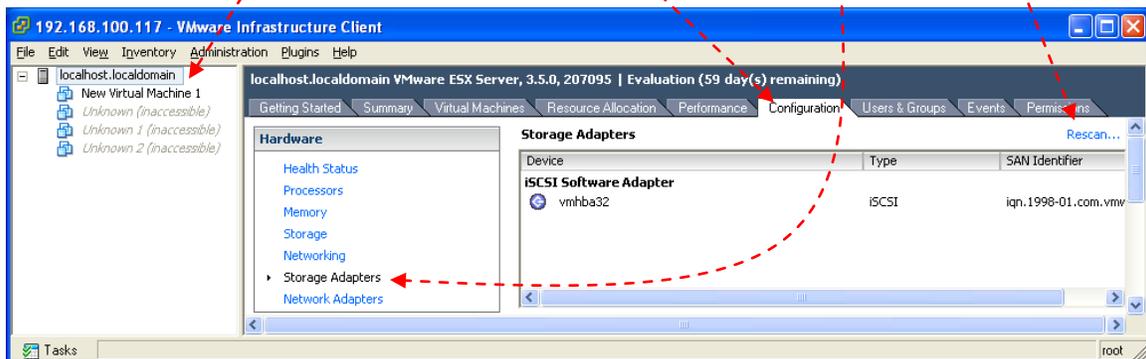
```
# echo "1" > /proc/vmware/config/LVM/EnableResignature
# vmkfstools -V
# echo "0" > /proc/vmware/config/LVM/EnableResignature
# vmkfstools -V
```

Step 3. Reinventory the virtual machines.

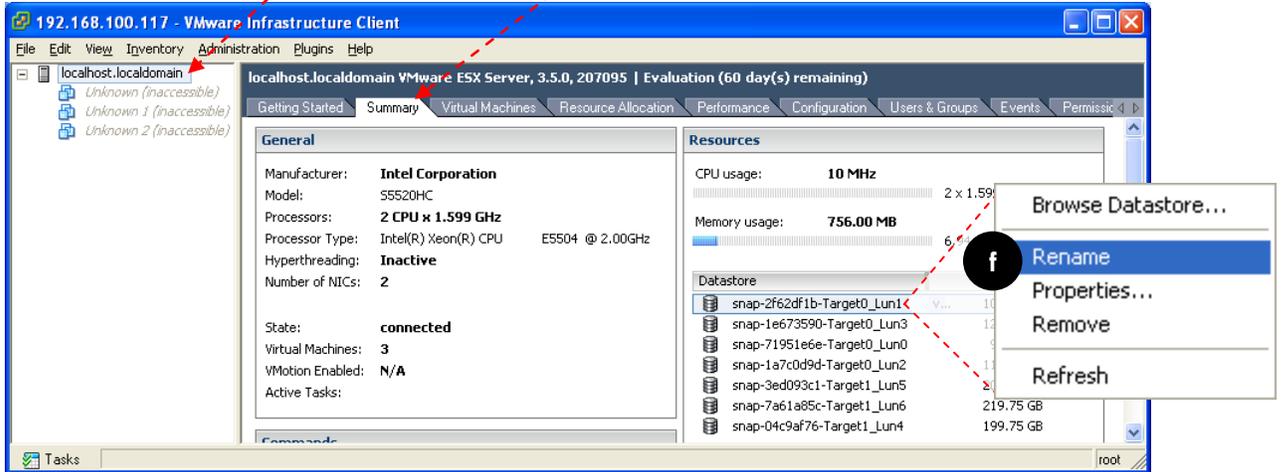
- a. Open VI Client to the VCenter Server.
(The affected virtual machines will show as “Unknown (inaccessible)”.
- b. Right-click on a virtual machine and click **Remove From Inventory**.



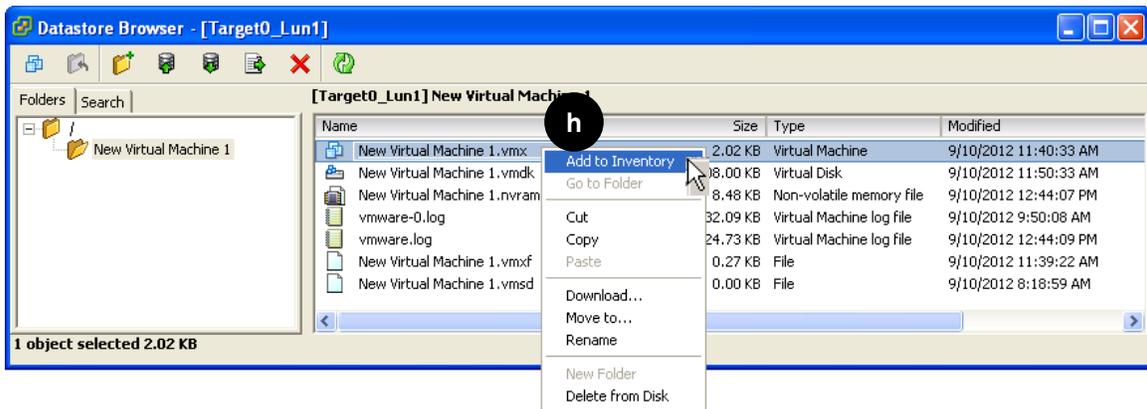
- c. A popup appears. Click “Yes” to confirm removal.
- d. With the local host highlighted, click “**Configuration**”, **Storage Adapters**, and **Rescan...**



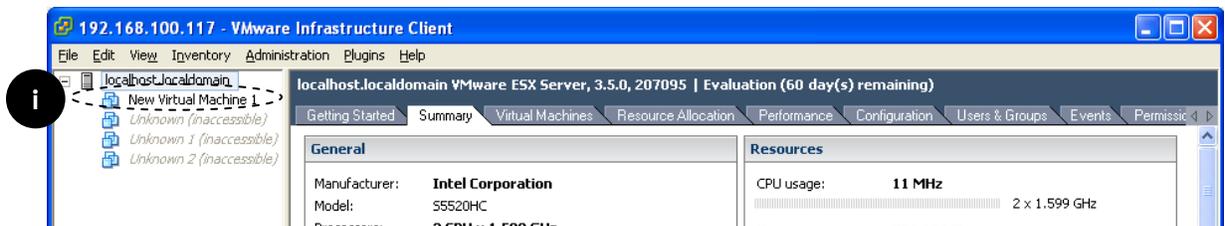
- e. With the local host highlighted, click the **“Summary”** tab.



- f. Rescanned datastores appear under the **Resources** menu. You will notice a text prefix was added to each datastore name: **“snap-abcd1234-”**. If desired, right-click the datastore to rename and remove this prefix
- g. Again, right-click each Datastore, and select: **Browse Datastore...** to bring up this browser menu.



- h. With a virtual machine highlighted, Right-click the virtual machine file (extension .vmx) or template file (extension .vmtx). Click **Add to Inventory** and follow the wizard.
- i. When the wizard completes, the virtual will appear correctly under the local host. Repeat step 3 for all additional re-scanned datastore(s).



Resignaturing VMware ESXi volumes

If upgrading blade firmware that was V1.0.1 or older, existing iSCSI datastores are assigned new LUN ID (UUID or serial numbers). VMware ESXi may subsequently report these datastores as disabled or unexpectedly missing because the LUN ID is used to help identify a datastore. In this case, you must resignature these datastores using the following rescan procedure. The procedure is executed only one-time and is non-destructive.

Step 1. Power off all virtual machines stored on the affected volume(s)

Step 2. Log into each host, and execute the following four commands:

```
# esxcfg-advcfg -s 1 /LVM/EnableResignature
# vmkfstools -V
# esxcfg-advcfg -s 0 /LVM/EnableResignature
# vmkfstools -V
```

Step 3. Follow the same steps shown in step 3 of Resignaturing VMware ESX volumes.

New firmware features and Errata fixes V1.0.4

| | |
|--|--|
| Item-1 | -new- Solaris, Long SCSI names. |
| Description This firmware offers the ability to use long scsi names when communicating with iSCSI targets created on the storage blade. For example: Old name: /dev/dsk/c3t1d0s7 New name: /dev/dsk/c4t600110D03B18A2B40000000100000000d0s7 The new naming scheme is achieved by activating the solaris “ssd” driver (SAN SCSI disk). This driver is a more modern driver, with capabilities to complement newer networked devices like iSCSI. Activation is enabled by executing the following CLI sequence following the firmware upgrade: <pre># su root # mkdir /etc/iet # touch /etc/iet/force_alua_on # reboot</pre> Note1: If a user wishes to use short names, the above sequence is not necessary. Note2: If a user issues a factory reset, the blade reverts to using short names. The above sequence must be completed again if the user wants to use long names instead. | |

New firmware features and Errata fixes V1.0.3

| | |
|--|---|
| Item-2 | -new- Auto Rebuild Offline RAID set. |
| Description This firmware can detect the presence of an offline RAID set during boot, and automatically initiate an assemble and rebuild if necessary. | |

New firmware features and Errata fixes V1.0.2

| | |
|---|---|
| Item-3 | -fix- Various optimizations to meet VMware VMready certification requirements. |
| Description This firmware version makes subtle changes that enable the firmware to pass VMReady certification requirements. For example, the number of supported NAS shares was increased from 40 to 256. | |

New firmware features and Errata fixes V1.0.1

| | |
|---|------------------------------------|
| Item-1 | -fix- iSCSI task management |
| Description This firmware version corrects the response to a SCSI task management sequence used in the iSCSI stack. The symptom was that as disks were heated to 55C for extended periods, the iSCSI targets would go offline on some systems. A blade reset was required to re-establish connection. | |

| | |
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| Item-2 | -fix- Active Domain join |
| Description This firmware corrects a bug which sometimes prevented the blade from registering and joining with an Active Domain (AD) server. | |

New firmware features and Errata fixes V1.0

| | |
|---|-----------------------------------|
| Item-1 | -Info- Revision identifier |
| Description This firmware version identifier string will now show as: V1.0. | |

| Item-2 | -new- Ability to set GUI inactivity timeout (auto logout) | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------------------|--|--|--|------------------------|---|----------------|---------------------------------------|-----------------------------|--|----------------|---------------------------------------|-----------------------------|------------------------------|--|---------------------------------------|-------------------------|--------------------------------|--|---------------------------------------|------------------------|----------------------------------|----------------------------|--|
| Description This feature lets users adjust the inactivity period threshold before forcing a user logout. When shipped from the factory, the default threshold is 600 seconds (5 minutes) of inactivity. This feature appears on the maintenance menu: | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="4">ATCA1000 ATCA1000 System Maintenance</th> </tr> </thead> <tbody> <tr> <td>Import Software Update</td> <td><input type="button" value="Choose File..."/></td> <td>No File chosen</td> <td><input type="button" value="Import"/></td> </tr> <tr> <td>Import System Configuration</td> <td><input type="button" value="Choose File ..."/></td> <td>No File chosen</td> <td><input type="button" value="Import"/></td> </tr> <tr> <td>Export System Configuration</td> <td colspan="2">/backup/nvdisk.tar.gz</td> <td><input type="button" value="Export"/></td> </tr> <tr> <td>Export System Log Files</td> <td colspan="2">/dev/shm/logfile.tar.gz</td> <td><input type="button" value="Export"/></td> </tr> <tr> <td>GUI Inactivity Timeout</td> <td><input type="text" value="600"/></td> <td>Seconds Min =60 Max = 7200</td> <td><input type="button" value="Set Timeout"/></td> </tr> </tbody> </table> | | ATCA1000 ATCA1000 System Maintenance | | | | Import Software Update | <input type="button" value="Choose File..."/> | No File chosen | <input type="button" value="Import"/> | Import System Configuration | <input type="button" value="Choose File ..."/> | No File chosen | <input type="button" value="Import"/> | Export System Configuration | /backup/nvdisk.tar.gz | | <input type="button" value="Export"/> | Export System Log Files | /dev/shm/logfile.tar.gz | | <input type="button" value="Export"/> | GUI Inactivity Timeout | <input type="text" value="600"/> | Seconds Min =60 Max = 7200 | <input type="button" value="Set Timeout"/> |
| ATCA1000 ATCA1000 System Maintenance | | | | | | | | | | | | | | | | | | | | | | | | | |
| Import Software Update | <input type="button" value="Choose File..."/> | No File chosen | <input type="button" value="Import"/> | | | | | | | | | | | | | | | | | | | | | | |
| Import System Configuration | <input type="button" value="Choose File ..."/> | No File chosen | <input type="button" value="Import"/> | | | | | | | | | | | | | | | | | | | | | | |
| Export System Configuration | /backup/nvdisk.tar.gz | | <input type="button" value="Export"/> | | | | | | | | | | | | | | | | | | | | | | |
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| GUI Inactivity Timeout | <input type="text" value="600"/> | Seconds Min =60 Max = 7200 | <input type="button" value="Set Timeout"/> | | | | | | | | | | | | | | | | | | | | | | |

| | |
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| Item-3 | -new- Add iSCSI filter to allow or deny initiators per target |
| Description users may limit access to a specific list of initiators, and/or block specific initiators from accessing an iSCSI target device. | |

| | |
|--|---|
| Item-4 | -fix- Add iSCSI filter to allow or deny initiators per LUN |
| Description Fix windows explorer file name issue, which would cause import update to fail. | |

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|---|--|
| Item-5 | -fix- Quick Start command line tool |
| Description Fix CLI tool named <code>quickstart.sh</code> . for IPV6 compatibility. It is intended to simplify initial configuration of the blades 5 Ethernet ports. | |

New firmware features and Errata fixes rc92

| | |
|---|--|
| Item-1 | -fix- Support RAID5 and RAID6 volumes greater than 2TB. |
| Description This version of firmware properly handles software RAID volumes that exceed 2TB size. With this enhancement, users may create very large RAID5 or RAID6 volumes (example 12TB) and then divide this capacity into multiple logical volumes. Each logical volume can be any size up to 1800GB. | |

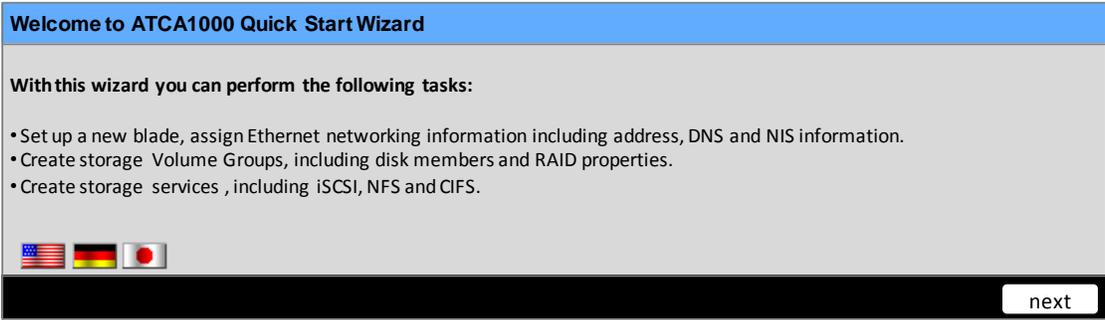
| | |
|--|---------------------------|
| Item-2 | -new- IPv6 support |
| Description This firmware adds IPv6 (128 bit IP-address) support in addition to IPv4 (32 bit IP-address). While the majority of today's ATCA backplanes still run IPv4, this feature will ensure the storage blade is ready when deployments require it. +++++ GUI changes: +++++ The GUI will continue to show IPv4 network fields, which are used to set addresses using dotted decimal entries like this: [192.168.100.33] The GUI will also show new IPv6 network fields, which are used to set addresses using any of the following hexadecimal syntax entries: [2001:0000:0000:0000:0000:C0A8:6421] [2001 :: 192.168.100.33] [2001 :: C0A8:6421] The IPv6 service running in the storage blade automatically assigns unique address values to each Ethernet port. +++++ CLI changes: +++++ The firmware additions include new CLI command 'ping6' to send ICMP echo requests on IPv6 network. | |

| | |
|---|--|
| Item-3 | -fix- Corrected task abort set implementation |
| Description When processing large I/O (>1MB), previous firmware versions could reply to an initiator's task management request (<code>abort_task</code> or <code>abort_task_set</code>) with success, but then later complete a command which should have been included amongst the aborted | |

tasks. In this event, an initiator might then incorrectly associate returned data with a new active I_T_L Nexus, overwriting good data.

| | |
|--|--|
| Item-4 | -new- Quick Start command line tool |
| Description A new CLI tool named <code>quickstart.sh</code> is available. It is intended to simplify initial configuration of the blades 5 Ethernet ports. | |

| | |
|---|--|
| Item-5 | -new- Quick start Wizard GUI web-tool |
| Description The HTML web management tool includes a quick start wizard to more easily and rapidly configure storage services on the blade. | |
|   | |

| | |
|--|---|
| Item-6 | -new- Quick Start Language Options |
| Description User may select a different default language for the Wizard tools. | |
|  | |

| Item-7 | -new- Export System log files, for diagnostic purposes. | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--------|--|--|------------------------|----------------|----------------|--------|-----------------------------|-----------------|----------------|--------|-----------------------------|------------------------------|--|--------|-------------------------|--------------------------------|--|--------|
| <p>Description</p> <p>Diagnostic information for the software running on your blade is kept on your blade in the form of system log files and error reports. This feature gathers all relevant files and bundles them into a single download archive file. Users may then send this archive file to a support contact to help diagnose and fix a problem.</p> <p>Note: These message and log files contain no user data information that may be stored on iSCSI, NFS or CIF/Samba volumes.</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>Added to 'Maintenance' tool page:</p> | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="4" data-bbox="370 548 1333 590">StoreBlade99 ATCA1000 System Maintenance</th> </tr> </thead> <tbody> <tr> <td data-bbox="370 590 695 632">Import Software Update</td> <td data-bbox="695 590 938 632">Choose File...</td> <td data-bbox="938 590 1170 632">No File chosen</td> <td data-bbox="1170 590 1333 632">Import</td> </tr> <tr> <td data-bbox="370 632 695 674">Import System Configuration</td> <td data-bbox="695 632 938 674">Choose File ...</td> <td data-bbox="938 632 1170 674">No File chosen</td> <td data-bbox="1170 632 1333 674">Import</td> </tr> <tr> <td data-bbox="370 674 695 716">Export System Configuration</td> <td colspan="2" data-bbox="695 674 1170 716">/backup/nvdisk.tar.gz</td> <td data-bbox="1170 674 1333 716">Export</td> </tr> <tr> <td data-bbox="370 716 695 758">Export System Log Files</td> <td colspan="2" data-bbox="695 716 1170 758">/dev/shm/logfile.tar.gz</td> <td data-bbox="1170 716 1333 758">Export</td> </tr> </tbody> </table> | | StoreBlade99 ATCA1000 System Maintenance | | | | Import Software Update | Choose File... | No File chosen | Import | Import System Configuration | Choose File ... | No File chosen | Import | Export System Configuration | /backup/nvdisk.tar.gz | | Export | Export System Log Files | /dev/shm/logfile.tar.gz | | Export |
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| Import System Configuration | Choose File ... | No File chosen | Import | | | | | | | | | | | | | | | | | | |
| Export System Configuration | /backup/nvdisk.tar.gz | | Export | | | | | | | | | | | | | | | | | | |
| Export System Log Files | /dev/shm/logfile.tar.gz | | Export | | | | | | | | | | | | | | | | | | |

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| Item-8 | -new- Active Directory (AD) integration |
| <p>Description</p> <p>This service enables a windows server to authenticate user logins to SB-ATCA1000 CIF/samba volumes. It is included as part of the Network Wizard tool, with additional advanced options appearing under the 'Maintenance' menu.</p> | |
|  <ul style="list-style-type: none"> [-] SANBlaze ATCA1000 <ul style="list-style-type: none"> [-] Quick Start Wizard <ul style="list-style-type: none"> Network Volume Group Storage Services [+] iSCSI [+] nfs [+] smb [+] Shares [+] LVM2 [+] MD RAID [+] Hardware RAID [+] PhysicalDisks [-] Maintenance <ul style="list-style-type: none"> Network Active Directory Shelf I/O Status CPU Status ATCA Status | |

| | |
|---|---|
| Item-9 | -new- Web tool, Create Ethernet bond |
| <p>Description</p> <p>This release of code includes the ability to define bonds using the GUI. Previously, bond creation required CLI command configurations. Bonding (802.3AD trunking) allows you to aggregate multiple Ethernet ports into a single group, effectively combining the bandwidth into a single connection. For example, you can aggregate the ATCA base channel ports (1 Gb/s each) into a bond, providing 2Gb/s cumulative bandwidth, fault tolerance and optional load balancing.</p> | |

| System Identification and TimeZone | | | | | | | | |
|------------------------------------|-------------|------------|----------|----------|----------|-------------|--------------------------------|---|
| | HostName | DomainName | Date | Time | TimeZone | Nameservers | NTP Server List | Time source |
| Active Settings | StorBlade99 | domain.com | 4/6/2009 | 08:51:59 | New_York | 0.0.0.0 | tick.usask.ca tock.usask.ca | ntp |
| New Settings | StorBlade99 | domain.com | 4/6/2009 | 08:51:59 | New_Yo | 0.0.0.0 | tick.usask.ca | <input checked="" type="checkbox"/> NTP |

| | |
|--|--|
| Item-10 | -new- Web tool, browser tab reflects active menu name |
| <p>Description</p> <p>This release prints the active web tool page-name in both the browsers title bar and browsers tab as a means of identifying what menu page is active.</p> | |

| | |
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| Item-11 | -fix- Web tool, Some browsers would auto complete fields, unintentionally filling username and passwords. |
| <p>Description</p> <p>Browsers with auto-complete features would often auto fill iscsi username/password. This release includes a fix to add 'autocomplete=off' to all web-tool menu pages.</p> | |

| | |
|---|--|
| Item-12 | -fix- Web tool, no mechanism to prevent multiple logins |
| <p>Description</p> <p>Add host tracking to prevent simultaneous web management logins from multiple systems.</p> | |

| | |
|---|---|
| Item-13 | -fix- CLI tool, backspace key, functionality fix |
| <p>Description</p> <p>When making text entries with atca_blade tool, the keyboard backspace key now operates properly.</p> | |

| | |
|--|--|
| Item-14 | -fix- CLI tool, menu item renamed to match function |
| <p>Description</p> <p>The release renames a sub-menu item shown by the <code>atca_blade</code> CLI:</p> <p>“9. Web gui enable (set_gui)” menu option.</p> <p>Old: “Allow CLI Access while Web GUI in use?”</p> <p>New: ““Enable CLI Override?”</p> <p>This new description more accurately describes the function, which permits a user to launch the CLI tool, even if there is an active web tool session. Remote web-tool access is suspended while the CLI session is active.</p> | |

Known Issues with Blade firmware

The following issues are known to exist at the time of this release:

| | |
|--|--|
| Item-1 | E-key settings on 10Gb speed for zone-2 XAUI ports sometimes ignored. |
| Description The blade assigns an E-key option for the XAUI ports at 10G only. DTI and other model 10Gb switch-blades sometimes attempt to auto-negotiate 10Gb, effectively ignoring the E-key setting to operate at 10G only. These switches must be manually set to operate the fabric connections at 10Gb rather than AUTO. | |
| Work-around (preferred) 1. Ensure your DTI switch has firmware 1.2.1.0, or greater. The new firmware enables you to select '10G only' from the normal user interface and save it in the system configuration. | |
| Work-around (for older firmware; Procedure required at each boot or power cycle) 1. Establish a RS232 console connection to the DTI switch 2. Reboot the switch 3. Press '2' when prompted to get to the pre-boot shell 4. Press 'b' to get into the Broadcom shell 5. issue this command to force the ports to 10Gb : <code>port xe autoneg=off speed=10000</code> | |

Known Issues with the command line configuration tool

The following issues were known to exist at the time of this release:

| | |
|---|--|
| Item-1 | CLI does not enforce maximum logical volume size of 1.8TB |
| Description Users may create large RAID volumes that exceed 2TB, and subsequently split this capacity into smaller logical volumes. This firmware release supports a maximum logical volume size of size of 1800GB (1.8TB). The CLI tool does not enforce this size limit, and any volumes that exceed this limit will operate incorrectly. | |
| Work-around (1) Use the GUI tool to create logical volumes. (GUI enforces the maximum LV size) (2) Ensure that neither user nor user-scripts limit logical volume size of 1.8TB. | |

Known Issues with the web configuration tool

The following issues were known to exist at the time of this release:

| | |
|---|---|
| Item-1 | Web tool, menu screen does not re-draw when new disks are live-inserted. |
| Description Physical drives such as AMC disk cards to not automatically appear in the physical disk | |

window. The user must manually click the “re-draw” button for these resources to appear.

Work-around

The user must manually click the “re-draw” button for these resources to appear.

| | |
|---|--|
| Item-2 | Disks may display incorrectly following RAID config |
| Description Hardware RAID *will* alter the number, name, and order of disks available to the OS. In some cases, Linux may not properly pickup /dev/sdx devices, and thus configuration menus may display erroneous information. Reboot to rectify this. | |

| | |
|---|---|
| Item-3 | I/O performance monitor shows Zero following RAID config |
| Description Hardware RAID *will* alter the number, name, and order of disks available to the OS. In some cases, Linux may not properly pickup /dev/sdx devices, and thus configuration menus may display erroneous information. Reboot to rectify this. | |

| | |
|---|--|
| Item-4 | Cannot delete NFS sharename exceeding 10 Characters |
| Description Normally, the webtool will suggest a share name such as “share0”, but allow the user to assign an alternate name. If a user assigns a sharename exceeding 10 characters, they are unable to later delete the sharename. This issue is caused because the longer name when combined with other path info, exceeds one of the string compares in the webtool code. | |
| Work-around (1) If assigning a new sharename, ensure it does do not exceed 10 characters. (2) Manually remove <long sharename>: <pre>rm -rf /mnt/shr/file/lvc0/longsharename rm -rf /export/nfs/longsharename rm -rf /export/smb/longsharename</pre> | |
| You MUST be careful that there is no data in the shares files! | |