

## **SNAS UPGRADE PROCEDURE**

**The NAS Software is a customer upgradeable task and below is the example for eg-snascps-h01**

Currently you are running 2010.02.09.2.1,1-1.18 (2010.Q1.2.0) . To get to the current release We will need to make an interim upgrade step, before the Latest.

2010. Q3.2.1 (Patch 11887647)  
2011.1.2.1 (Patch 13909403)

We will upgrade using the BUI / CLI so we need to download the Software to the Machine that the BUI Browser is running on. Login to My oracle support and go to patches.

Download Patch 11887647 2010.Q3.2.1 (ak-2010.08.17.2.1)  
Download Patch 13909403 2011.1.2.1 (ak-2011.04.24.2.0)

When you download the compressed file from the software updates page or through MOS, you need to unzip and extract the stuff from the downloaded file. It will include a directory "All\_Supported\_Platforms" and in there is the actual firmware update, E.G. :

ak-nas-2010-08-17-4-2-1-1-37-nd.pkg.gz

### **1) View the status of the system disks and make sure the system disks are healthy state**

```
eg-snascps-h01:maintenance system disks> list
DISK    LABEL    STATE
disk-000 HDD 1    healthy
disk-001 HDD 0    healthy
eg-snascps-h01:maintenance system disks
```

### **2) Use the below procedure before the upgrade to send a support bundle to sun for there inevestigation that the health of the system is fine**

```
eg-snascps-h01:> maintenance system
```

```
eg-snascps-h01:maintenance system> sendbundle
```

A support bundle is being created and sent to Sun. You will receive an alert when the bundle has finished uploading. Please save the following filename, as Sun support personnel will need it in order to access the bundle:  
/cores/ak.9a4c3d7b-50c5-6eb9-c2a6-ec9808ae1cd8.tar.gz

3) **Ensure that any resilvering operations have completed.** This can be observed in Configuration/Storage or the equivalent CLI context.

- Ensure that there are no active problems.
- Verify that firmware updates are not in progress
- Check the most recent product release notes

#### **4) Perform the Configuration backup:-**

eg-snascps-h01:maintenance system configs> backup

Backup Configuration. Enter a descriptive comment for this configuration, and click Commit to backup current appliance settings:  
host:maintenance system configs conf\_backup step0> **set comment="pre-upgrade"**  
comment = pre-upgrade  
host:maintenance system configs conf\_backup step0> **done**  
host:maintenance system configs>

#### **Now we can use the BUI to upload the uncompressed file :**

1> Maintenance ==> System

2> Click on the "+" next to "Available Updates"

This will produce a popup, you can then browse the local file system of the system running the BUI and locate the file which will end in nd.pkg.gz and will most likely be in the sub-directory of All\_Supported\_Platforms.

3> Click "UPLOAD" in the popup. This will transfer the packages, uncompress it, and verify it. It does not install it at this time. The file is just being made available as an upgrade selection when you choose to upgrade. It should appear in the table of available updates.

4> I would recommend that you upload both 2010.Q3.2.1 and 2011.1.2.1 before the planned upgrade to save time.

Note: If you see the message "File Corrupt or in wrong format: upload" that is because you are trying to install the original compressed file, not the actual package which should end with "nd.pkg.gz"

5> The Head will automatically reboot after each update so you will need to plan a maintenance outage.

6> To start the upgrade use the BUI and go into Maintenance==>System

7> View the table of available updates, Locate the entry for 2010.Q3.2.1 (2010.08.17.2.1,1-

1.21)

at the right side of the line entry is an arrow , if you click on the arrow it will start the Upgrade . A popup will appear that you can select Apply.

NOTE: If asked about installing deferred updates reply not knows. These are ZFS updates and once applied we cannot rollback to older versions of NAS f/w . We normally recommending doing these manually after the upgrades are complete and services are working normally.

8> The upgrade should continue and when complete the NAS will automatically reboot to complete the upgrade i . This is because the upgrade performs additional updates/modifications during the first reboot to the new version.

9> If the system comes back up cleanly and appears functional, follow the same steps to upgrade to 2011.1.2.1 .

10> When this completes and the NAS head is back up verify that everything is working . If there are any problems we can roll back to the previous version ( as long as the deferred updates have NOT been applied.

11> The final step is to apply the deferred updates.

. In the BUI go into Maintenance ==> System

if there are deferred updates they will appear under the "list of "Available Updates" .

Apply the deferred updates, which are designed to be performed on a live running system and will have little or no impact on the running system.

### **CLI procedure :**

- 1) Download the binary and out it in one of our dfm server (nimmo) :  
ftp://nimmo.int.westgroup.net/home/bipul/
- 2) Set the ftp parameters :

```
eg-snascps-h01:maintenance system updates download (uncommitted)> get
url = (unset)
user = (unset)
password = (unset)
```

eg-snascps-h01:maintenance system updates download (uncommitted)>

```
set url = set url=ftp://nerstrand.int.westgroup.net/ak-nas-2010-08-17-2-1-1-1-21-nd.pkg.gz
set user =tmpftp
set password=ftp
commit
```

it will download the file

### 3) Verify the file is download

eg-snascps-h01:maintenance system updates > list

UPDATE	DATE	STATUS
ak-nas@2010.08.17.2.1,1-1.21	2011-10-14 08:45	WAITING

### 4) Start the upgrade :

```
eg-snascps-h01:maintenance system updates > select ak-nas@2010.08.17.2.1,1-1.21
eg-snascps-h01:maintenance system updates ak-nas@2010.08.17.2.1,1-1.21> upgrade
```

The selected software update requires a system reboot in order to take effect.

The system will automatically reboot at the end of the update process. The update will take several minutes. At any time during this process, you can cancel the update with [Control-C].

Are you sure? (Y/N) **y**

Updating from ... ak/nas@2011.04.24.2.0

Backing up smf(5) ... done.

Loading media metadata ... done.

Selecting alternate product ... SUNW,iwashi

Installing Sun Storage 7110 2009.10.14,1-0

pkg://sun.com/ak/SUNW,iwashi@2009.10.14,1-0:20091014T084500Z

Creating system/boot/ak-nas-2009.10.14\_1-0 ... done.

Creating system/root/ak-nas-2009.10.14\_1-0 ... done.

### 5) System will reboot

### 6) Verify

ak-nas@2010.02.09.0.0,1-1.9	2010-3-4 23:07:59	previous
ak-nas@2010.02.09.2.1,1-1.18	2010-6-22 17:17:37	previous
ak-nas@2010.08.17.2.1,1-1.21	2011-3-10 23:49:47	<b>current</b>

### 7) Repeat the same procedure for next version [ak-nas@2011.04.24.4.0,1-1.21](#)

- 8) After both upgrade completes we have to give access to Oracle guys to perform BIOS/SP Upgrade ( Download the file ILOM-2\_0\_2\_16\_r56903-Sun\_Fire\_X4140\_X4240\_X4440.pkg to your desktop
- 9) Access web IOLM and provide to them (<https://10.213.20.172/iPages/suntab.asp>)

Where to get the patches/updates:

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You can download the "patch/firmware" update from My Oracle Support .

**To Download Software from the My Oracle Support Release Updates Page**

1. Sign in to My Oracle Support at <https://support.oracle.com>
2. Select the "*Patches & Updates*" tab.
3. Search by *Sun ZFS Storage Appliance* product family or by *Patch ID* (see table below for patch IDs).
4. Download the zip file to your local system and unzip.
5. The .pkg.gz update file and license files are expanded into the All\_Supported\_Platforms directory.

Always keep Console open in a separate Window to monitor the reboot process .

## Annexure 1 :

Provide Secure access to Oracle ::

- 1) We have to provide secure access to oracle , open that link , provide information :  
password Sun4West ( on the place shown in screen shoot)

<http://www.oracle.com/us/support/systems/premier/shared-shell-sun-systems-163755.html> ,  
Click on launch

You have to open two sessions :

One with IP : 10.216.120.54 and one with ip 10.213.20.172

- 2) While it ask password provide standard root password
- 3) Click on conference and invite , it will display numbers provide both of them to Oracle representative
- 4) Allow full access when prompted

## **Annexure 2 :**

Download BIOS and SP binary from

<https://supportuploads.sun.com/download?directory=downloads&file=ILOM%2d2%5f0%5f2%5f16%5fr56903%2dSun%5fFire%5fX4140%5fX4240%5fX4440%2epkg>

version 2.0.2.16+BIOS 80 is already there on FTP

Oracle will invite you for a webx , join there and give them access to Web ILOM and secure shell to console to perform BIOS upgrade