NAS Gateway Node FC HBA Replacement 1/23/2014

This document explains how to replace a NAS Gateway Fibre Channel HBA. This procedure must be conducted with the consultation and approval of Promise Technical Support or Promise Field Applications Personal.

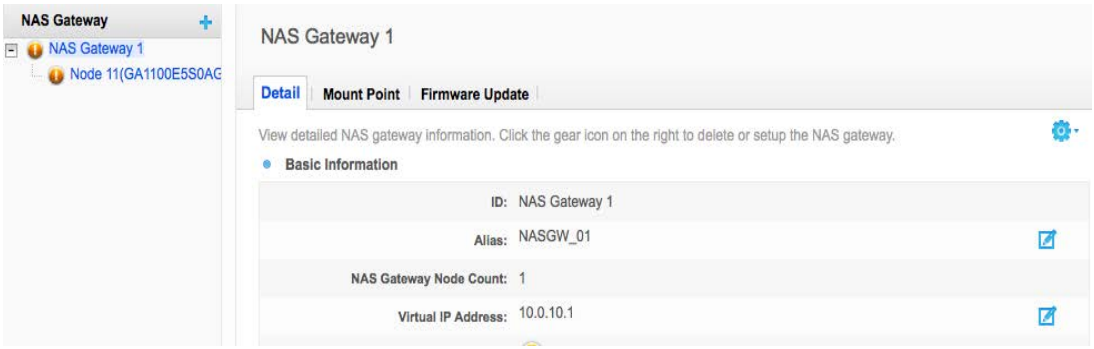
WARNING! This product, like all microcontroller products, uses semiconductors that can be damaged by electrostatic discharge (ESD). When handling, care must be taken so that the devices are not damaged. Damage due to inappropriate handling is not covered by the warranty. The following precautions must be taken:

•Use a conductive wrist strap attached to a good earth ground.

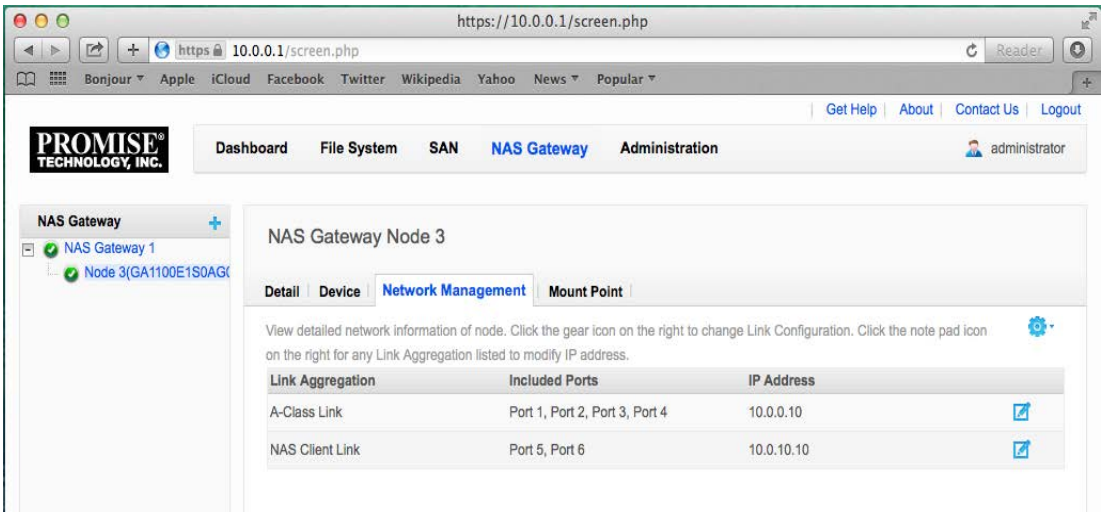
•Always discharge yourself by touching a grounded bare metal surface or approved anti-static mat before opening the NAS G1100 chassis.

•Use an approved anti-static mat to cover your work surface

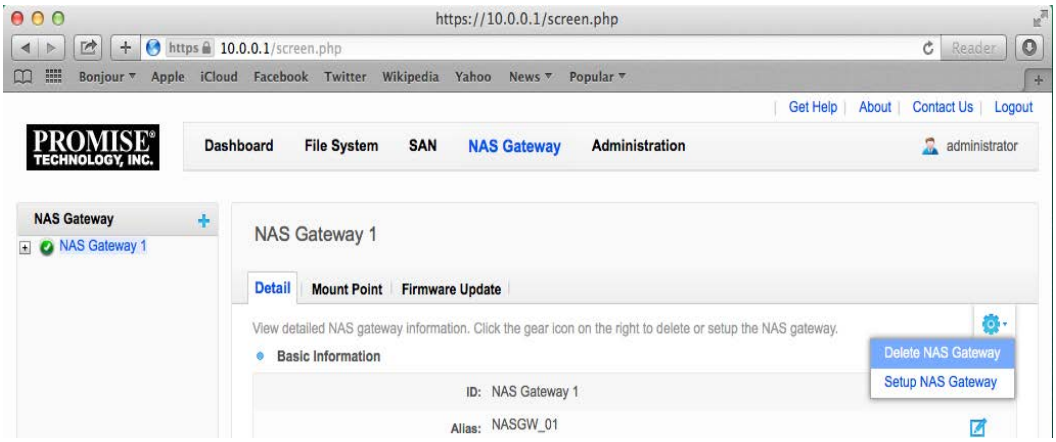
1) Delete the NAS Gateway node or NAS Gateway cluster
    a. Before you do this you need to record the node information. You will need the NAS Gateway alias and virtual IP.



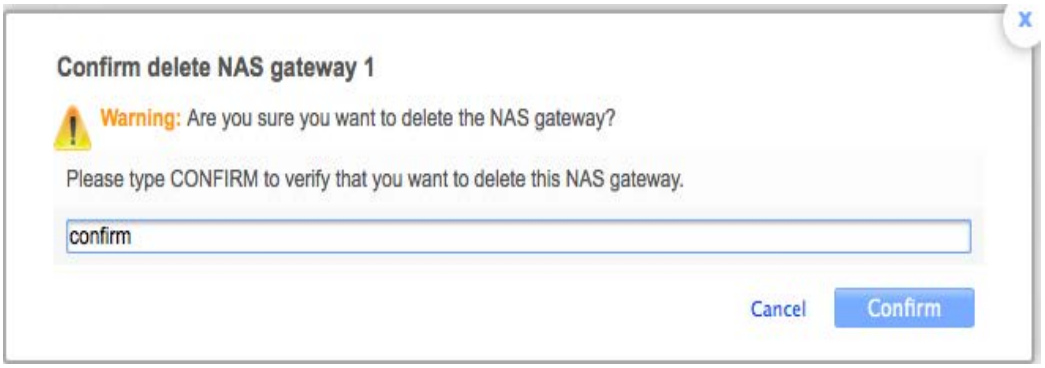
Also you will need the A-class link IP and the NAS Client link IP. Make sure you verify the subnet mask on the client link, it may not be 255.255.255.0. If this is a cluster you will need the IPs for both NAS Gateway nodes.



b. Next delete the node or cluster.



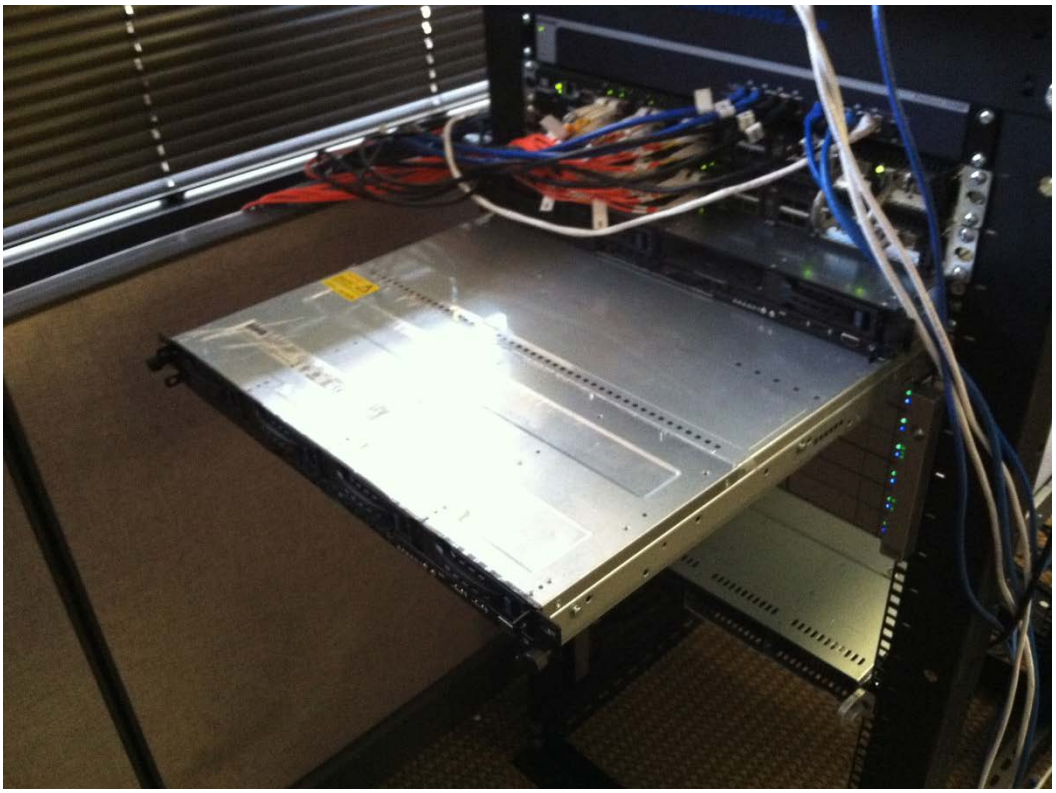
c. Then confirm the delete.



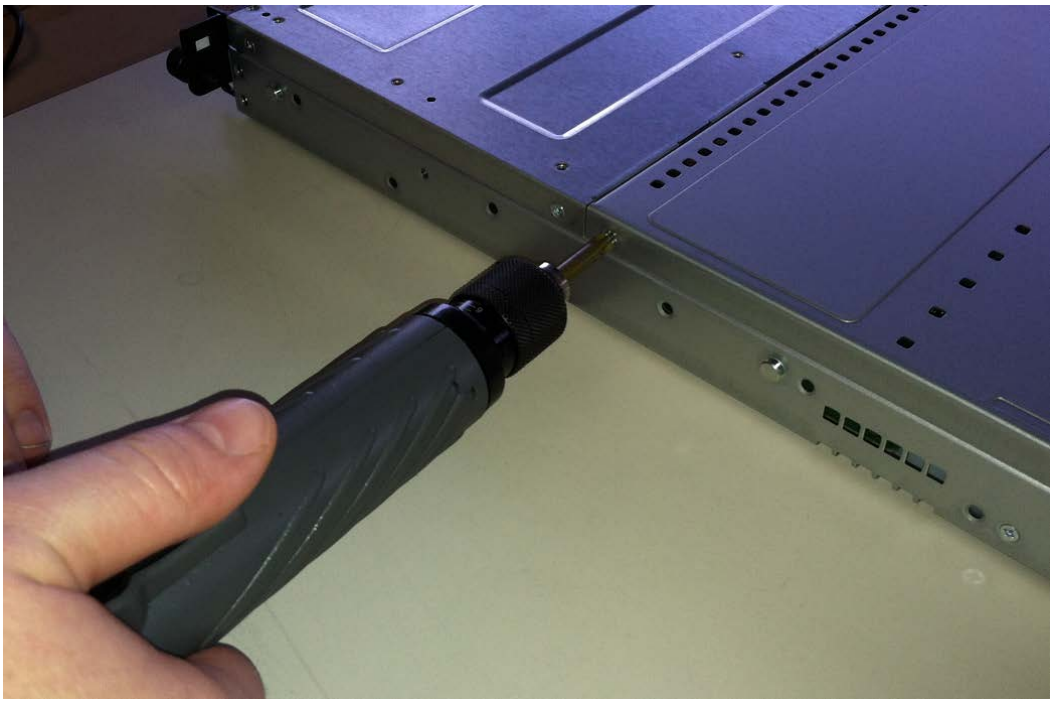
2) Shutdown the NAS Gateway node or cluster nodes. Since there are no GUI options for this when the node is deleted the proper method is to press the power button and wait for the Gateway or Gateways to shut down.

a. Disconnect the cables from all Gateways.

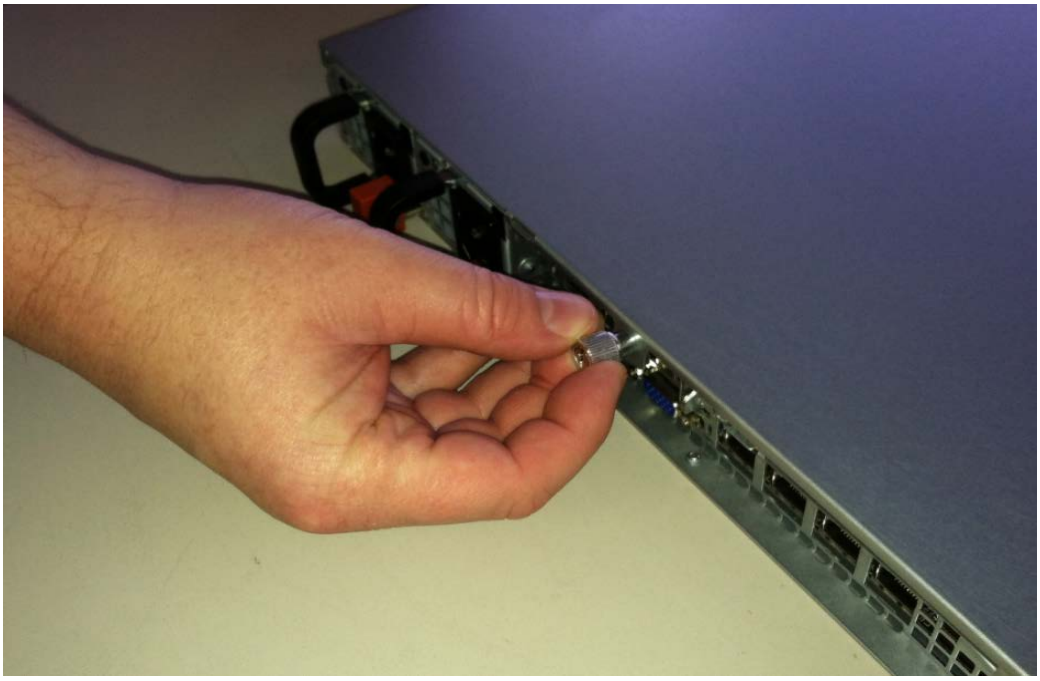
b. Remove the NAS Gateway or Gateways for rework.



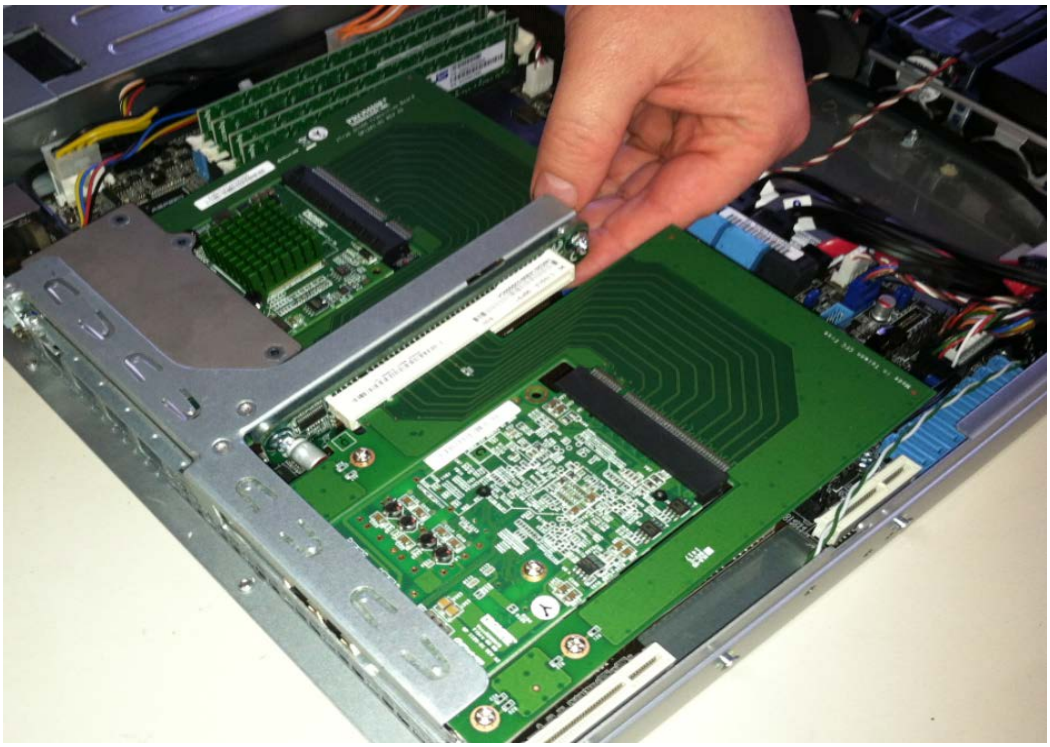
c. Open the NAS Gateway
   Unscrew the top cover screws on both sides of the top cover.



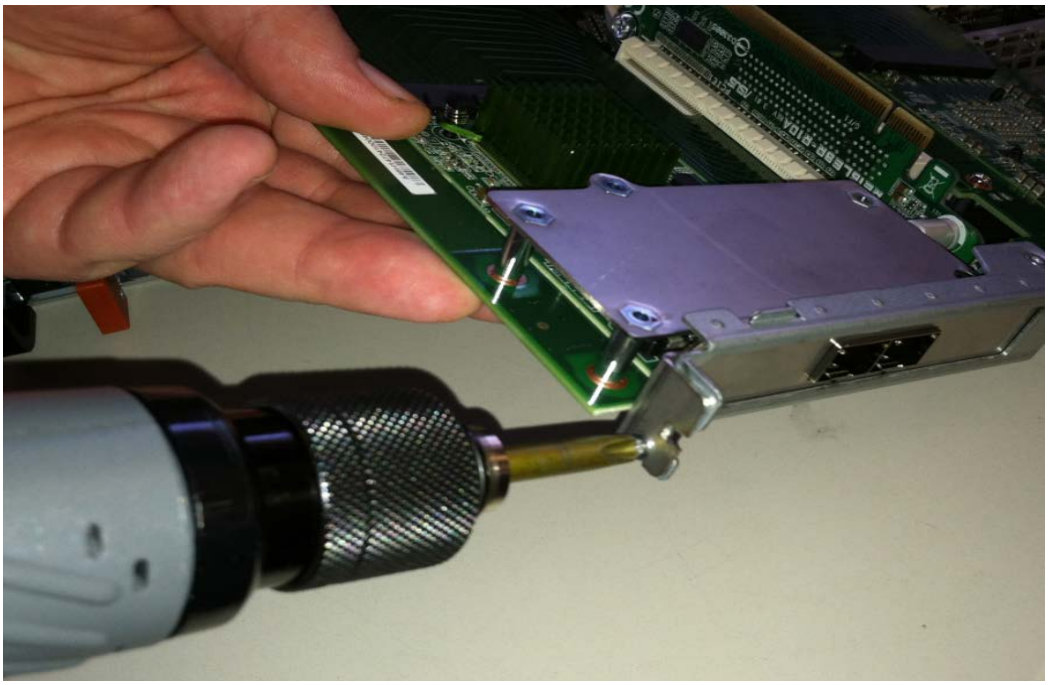
Unscrew both retaining screws and slide the top cover back and lift it off.



Remove the PCI card cage.



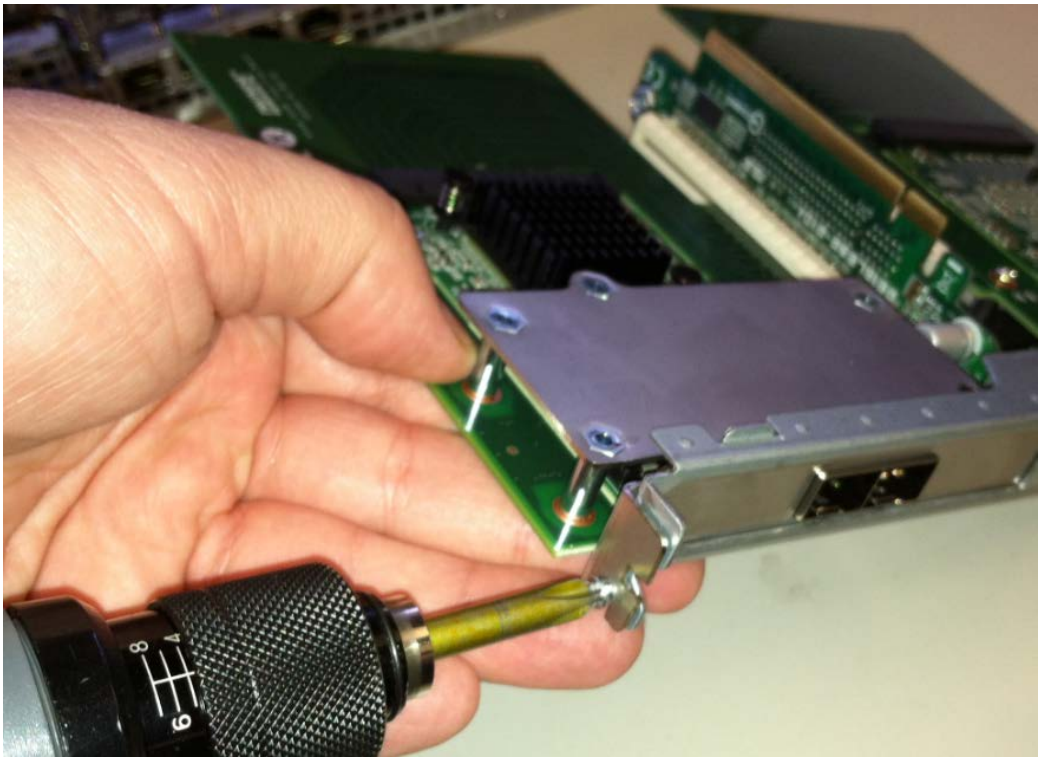
Remove the PCI retaining screw of the FC HBA.



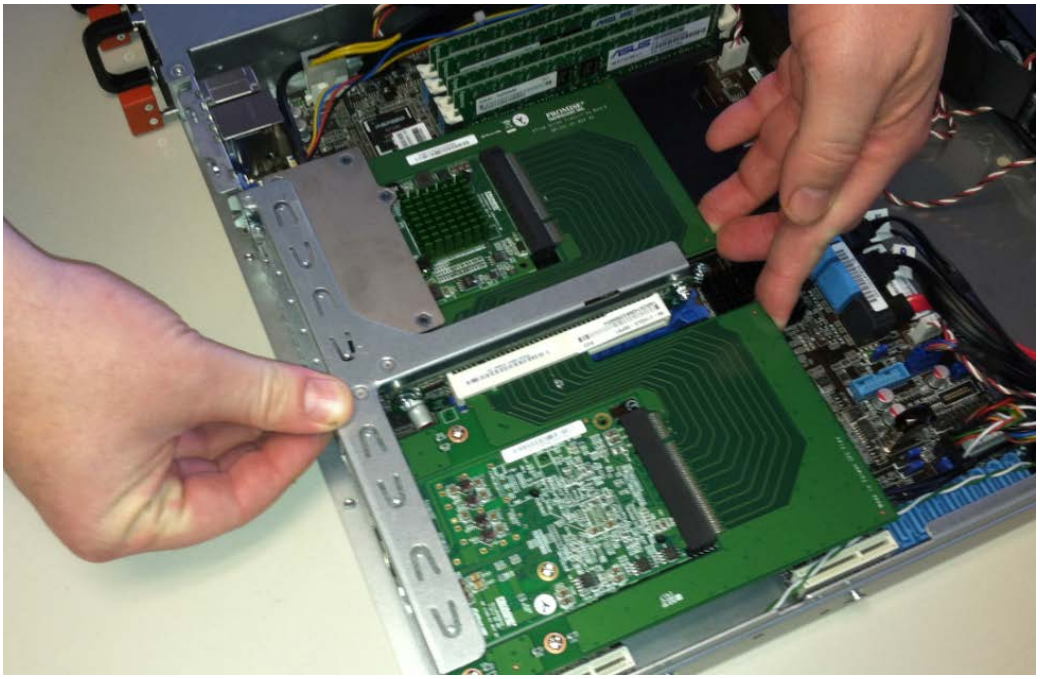
Remove the HBA. Note the green heatsink.

The new HBA has a black heatsink.

Install the new HBA in the PCI cardcage.



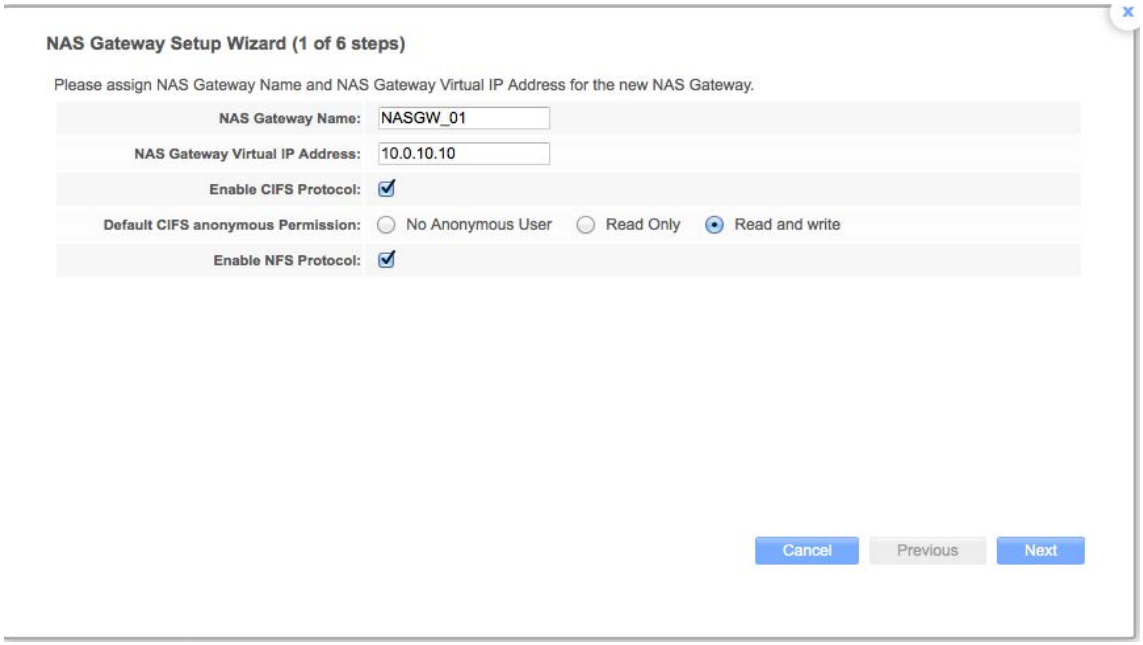
Seat the PCI Cardcage and install the chassis top cover.



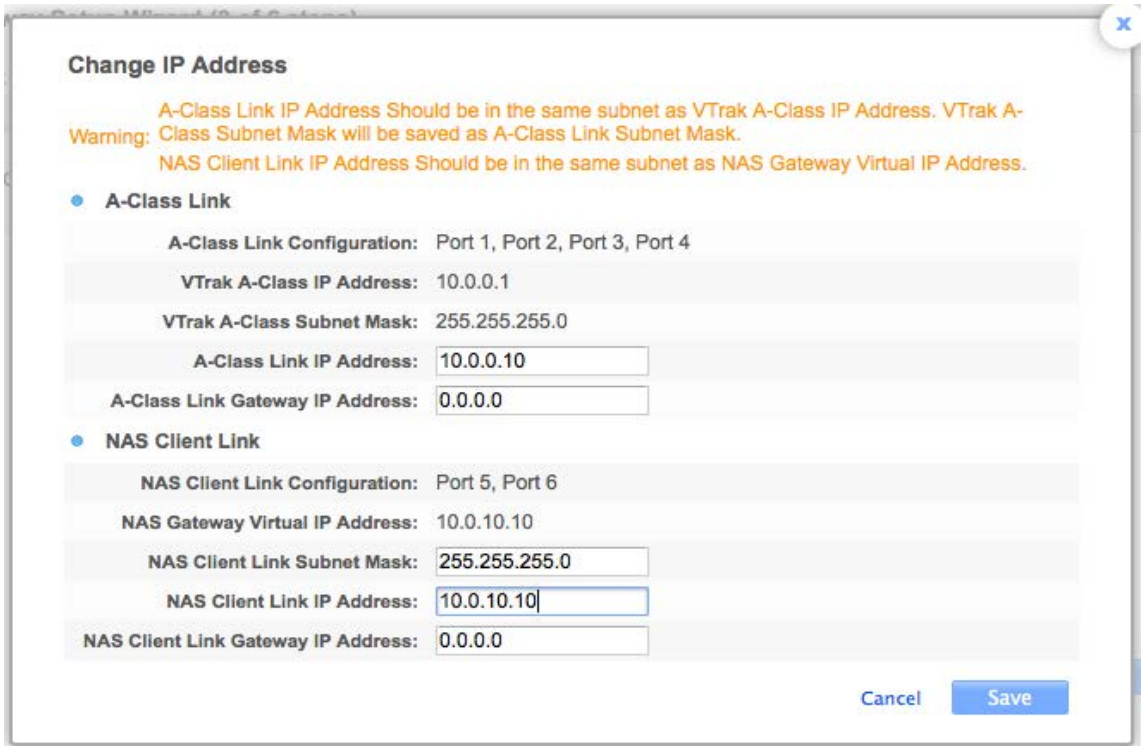
Re-install the NAS GW in the rack.

Re-cable the NAS Gateway.

3) Power up the NAS Gateway or Gateways and create an identical gateway node or cluster using the information collected in step 1).

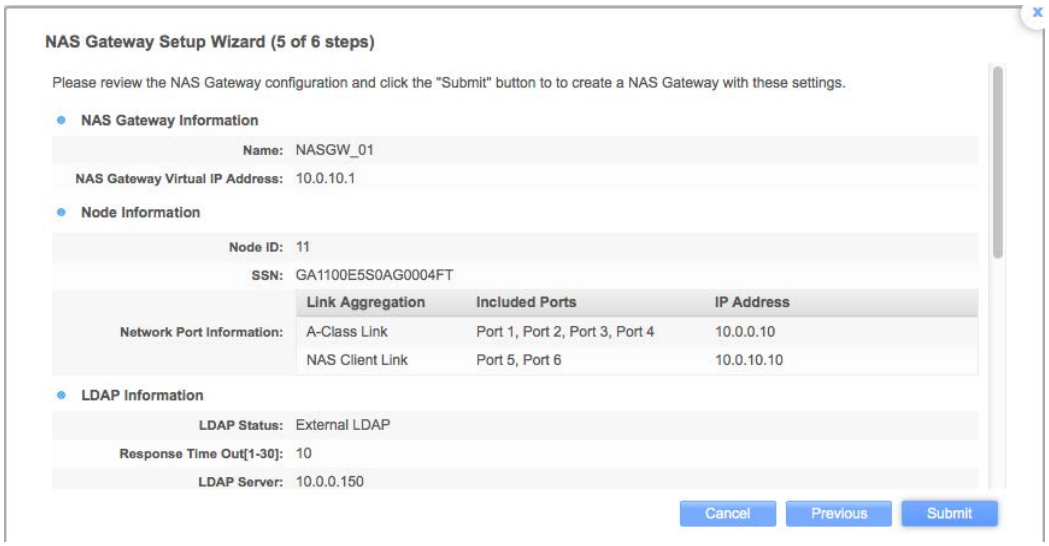


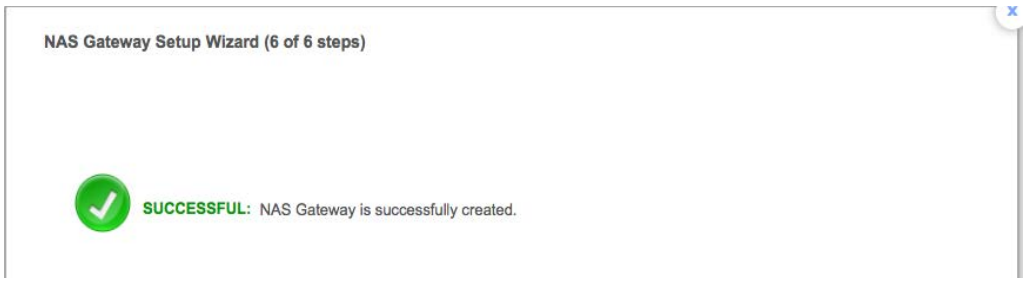

NAS Gateway Setup Wizard (3 of 6 steps)
Set network link aggregation and settings for each ethernet port.
Node ID
SSN
Link
IP Address
Link Configuration
11
GA1100E5S0AG0004FT
A-Class Link
192.168.0.2
Port 1, Port 2, Port 3, Port 4
NAS Client Link
192.168.0.3
Port 5, Port 6

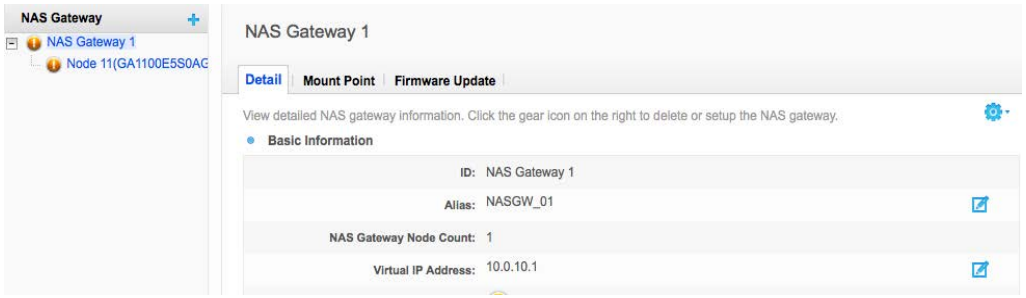

Change IP Address
Warning: A-Class Link IP Address Should be in the same subnet as VTrak A-Class IP Address. VTrak A-Class Subnet Mask will be saved as A-Class Link Subnet Mask.
NAS Client Link IP Address Should be in the same subnet as NAS Gateway Virtual IP Address.
A-Class Link
A-Class Link Configuration: Port 1, Port 2, Port 3, Port 4
VTrak A-Class IP Address: 10.0.0.1
VTrak A-Class Subnet Mask: 255.255.255.0
A-Class Link IP Address: 10.0.0.10
A-Class Link Gateway IP Address: 0.0.0.0
NAS Client Link
NAS Client Link Configuration: Port 5, Port 6
NAS Gateway Virtual IP Address: 10.0.10.10
NAS Client Link Subnet Mask: 255.255.255.0
NAS Client Link IP Address: 10.0.10.10
NAS Client Link Gateway IP Address: 0.0.0.0
Cancel
Save


NAS Gateway Setup Wizard (3 of 6 steps)
Set network link aggregation and settings for each ethernet port.
Node ID
SSN
Link
IP Address
Link Configuration
11
GA1100E5S0AG0004FT
A-Class Link
10.0.0.10
Port 1, Port 2, Port 3, Port 4
NAS Client Link
10.0.10.10
Port 5, Port 6


NAS Gateway Setup Wizard (4 of 6 steps)
Select filesystem(s) which you want to mount to the new NAS gateway.
Name
Capacity
PhilSAN
99.99 TB


NAS Gateway Setup Wizard (5 of 6 steps)
Please review the NAS Gateway configuration and click the "Submit" button to to create a NAS Gateway with these settings.
NAS Gateway Information
Name: NASGW_01
NAS Gateway Virtual IP Address: 10.0.10.1
Node Information
Node ID: 11
SSN: GA1100E5S0AG0004FT
Network Port Information:
Link Aggregation
Included Ports
IP Address
A-Class Link
Port 1, Port 2, Port 3, Port 4
10.0.0.10
NAS Client Link
Port 5, Port 6
10.0.10.10
LDAP Information
LDAP Status: External LDAP
Response Time Out[1-30]: 10
LDAP Server: 10.0.0.150
Cancel
Previous
Submit


NAS Gateway Setup Wizard (6 of 6 steps)
SUCCESSFUL: NAS Gateway is successfully created.


NAS Gateway
NAS Gateway 1
Node 11(GA1100E5S0AG
NAS Gateway 1
Detail
Mount Point
Firmware Update
View detailed NAS gateway information. Click the gear icon on the right to delete or setup the NAS gateway.
Basic Information
ID: NAS Gateway 1
Alias: NASGW_01
NAS Gateway Node Count: 1
Virtual IP Address: 10.0.10.1

4) Verify the new node or cluster by mounting the NAS Filesystem on a client.