**Storage vFiler Procedures**

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**This document is meant to address:**

“Is this new allocation request even eligible for vFilers? (Capacity, filer type and configuration etc…) If so, how does this change our current Solution Design process for build sheets and reserve creation?”

**Process:**

1. Attend the Solution Design meeting. Determine project NAS requirements, if any, then determine if we have the capacity and other requirements necessary to move the Storage into the vFiler model, rather than our standard loon model.

To determine eligibility see:

[\\Eg-nas-a02\sg$\Procedures\NetApp\vFilers\vfiler\_ready\_filers.doc](file://Eg-nas-a02/sg$/Procedures/NetApp/vFilers/vfiler_ready_filers.doc)

1. When you fill out the “Storage-NAS-TSM” tab in the build sheets add “vFiler” in the build class column, next to the volume, so the person completing the allocation knows whether to put the volume on a vFiler or a physical filer when it comes into our queue. vFiler creation instructions:

[\\Eg-nas-02\sg$\Procedures\NetApp\vFilers\vfiler\_creation.doc](file://Eg-nas-02/sg$/Procedures/NetApp/vFilers/vfiler_creation.doc)

*Example:*

|  |  |
| --- | --- |
| **Build Class** | **Volume name** (Optional) |
| ***Example:*** |  |
| **new cluster 1 primary - NIP06A** |  |
| vFiler | nv\_nimstwo6p\_n01ora1\_nosnap |

1. For the volumes that will be in vFilers, use the following reserve naming convention for any NetApp reserve you create: (abbreviate where necessary)

reserve\_ppid\_vfiler\_new\_projectname\_solutiondate\_<reservesize>\_\_initials

(e.g. reserve\_pp0312\_vfiler\_new\_findlawprod\_1\_9\_09\_500gb\_jms)

reserve\_ppid\_growth\_volumebeinggrown\_solutiondate\_<reservesize>\_\_initials

(e.g. reserve\_pp1534\_growth\_ct\_snap\_1\_9\_09\_jms)

Note: create one reserve for each volume being grown

Note: include vfiler in the name if you have determined the allocation is vFiler eligible

Note: designate whether the reserve is for a new volume, or growth of an existing volume on that aggregate.

Note: <reservesize> is only necessary if the reserve you're making is not big enough. This typically happens if, for example, a shelf add is pending, and you only have space to create a 10GB reserve, while a 500GB volume growth is required. (Once the shelf has been added, and the reserve increased, rename the volume so it doesn’t include size.)

1. Loon tab vFiler process (non-physical filer):

In cases where we can use vFilers, we should specify **“vFilername-(Site)“x”** (see examples below) rather than a physical filer name to signal LAN that vFilers will be used. We will use “x” for the vFiler number, because we typically will not know the actual vFiler number until the solution has been approved, and we are making the Storage allocations. Based on the vFiler name we enter, LAN will assign host network configuration information on the loon tab on vlans solely designated for vFilers (Layer 3)

Here are some examples of what we’d be putting in the loon tab to indicate to LAN that there will be a layer 3, not layer 2 connection from the host to the filer:

*clnt-corp-h000”x”*

*prod-ecom-h000”x”*

*ded-ecom-e000”x”*

*dedc-corp-h000”x”*

*Tip: you can search for all v-filer defined vlans via the* [*http://zipper.int.westgroup.com/*](http://zipper.int.westgroup.com/) *“Subnet Report” and search for text “v-filer”.  There are 9 total – 3 ECOM PROD, 3 ECOM CLIENT, 3 CORP(both PROD and CLIENT). (Note:* The following document also lists this vlan information: [\\Eg-nas-a02\sg$\Procedures\NetApp\vFilers\vlan\_map.xlsx](file://Eg-nas-a02/sg$/Procedures/NetApp/vFilers/vlan_map.xlsx) )

Loon tab physical filer process (non-vFiler):

Based on the information on the “Storage-NAS-TSM” tab of the buildsheet (Site, Environment, Tier, etc..), Storage creates a reserve on an appropriate filer prior to Solution Review. Storage then adds the physical filer name(s) to the LOON CONFIG tab on the build sheet. Based on this physical filer information, LAN fills out their portion of the LOON CONFIG tab for the host network configuration. LAN assigns the host-nas interface to the same vlan as the storage interface (Layer 2).

**Solution Design Quick Menu:**

Document which lists some answers to common questions that come up when completing Solution Designs and performing allocations from our queue:

[\\Eg-nas-a02\sg$\Ongoing Project Documentation\Solutions Designs\SolutionDesignQuickMenu.xlsx](file://Eg-nas-a02/sg$/Ongoing%20Project%20Documentation/Solutions%20Designs/SolutionDesignQuickMenu.xlsx)