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1. What information is stored in the GigaVUE configuration files?

Answer: When commands are entered in the GigaVUE CLI, they become immediately active in the GigaVUE's temporary RAM memory. Some commands are automatically stored in the permanent flash memory and some commands need to be manually stored in the permanent flash memory using the **config save** command. This document will define what parameters get saved automatically and what parameters need to be saved manually.

There are two areas for storage in the flash memory: the **System Area** (automatic save) and the **User Area** (manual save). The configuration files (**.cfg**) are stored in the **User Area** of the flash memory.

System Area of Flash: In general everything that is shown in the output of the **show system** command, all the **server definitions**, the **port-aliases** and the **local user account database** are stored in the System Area of flash immediately upon execution without having to execute the **config save** command. These items are not affected by a **delete all** command nor by a **reset system factory-default** command.

Exception: The **reset system factory-default** command will reset the port-aliases to null.

Here is a sample output of the **show system** command:

System Configuration

```
-----
Name      :
Description :
Shell prompt : GV420-220
Special banner : Disabled, Filename=bannerDISA.txt
Inventory codes : Absent
SW ver/file/d/t : 5.0.06/gvb5006/Oct 1 2008/16:22:14
Boot file   : rbgvs420_2.bin
Log Level   : info
-----
Bootup d/t   : 10-02-08/09:29:46
System d/t   : 10-03-08/10:09:09
Time Zone    : UTC-08:00
DST/onset/offset: Enabled/03-11-15:05/11-11-14:10
SNTP         : Enabled
-----
Port lock level : Medium
Root account   : Enabled
Main module    : Giga420MB S/N=1090-0032, rev=H2
Eth Mgmt port  : MAC=00:1D:AC:01:00:20, MTU=1518, link=1
                : autoneg=1, speed=100 Mbps, duplex=full
Chassis       : S/N=10220, rev=ABC
Midplane      : S/N=1010-0001, rev=C0
```

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Slot 1 : GigaMgmt-FO S/N=1150-0010, rev=A0
Slot 2 : GigaPORT S/N=0020-0001, rev=B0
Slot 3 : GigaPORT S/N=0020-1030, rev=C0
Slot 4 : Absent
Slot 5 : Absent
Slot x1 : GigaLINK-CU S/N=0013-0276, rev=D0
Slot x2 : GigaLINK-CU S/N=0013-0234, rev=D0
Slot x3 : GigaLINK-XR S/N=1140-0011, rev=D1
Slot x4 : Absent

IP addr/subnet : 192.168.1.220/255.255.255.0, gateway=192.168.1.1
IPv6 : Enabled
IPv6 addr : fe80:1::21d:acff:fe01:20
DHCP4 : Disabled, timeout=10 seconds

SSH2 : Disabled (telnet access is enabled)
Host key (DSS) : Fingerprint=md5 40:f8:88:54:f8:0e:f9:5c:ac:8e:54:5c:68:b9:23:77
Host key (RSA) : Fingerprint=md5 42:b4:f5:cf:c6:bd:da:19:86:a3:0f:5a:ea:eb:20:ee

Remote timeout : 86400 seconds
AAA (serial) : Local
AAA (Ethernet) : Local
Console baud : 115200
Console width : 80 characters

Stacking mode : Slave
Stacking info : Box_ID=4, x1_bid=1 2 3, x2_bid=5 6
Active_link : x1
x1 : Type=GigaLINK-CU S/N=0013-0276, rev=D0
x2 : Type=GigaLINK-CU S/N=0013-0234, rev=D0

The following items are also stored in the **System Area** of flash without having to execute the **config save** command:

TACACS Servers

RADIUS Servers

SNMP Servers

SNMP Trap Settings

SNTP Servers

Syslog Server

Local User Accounts

UDA Offsets (GV420 only)

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User Area of Flash: The configuration files (.cfg) are stored in the **User Area** of the flash memory. The following items are stored in the configuration (.cfg) file. When the commands listed below are entered into the GigaVUE CLI, they enter the RAM memory of the GigaVUE and are immediately active. To store these settings permanently in the GigaVUE's flash memory, the **config save** command must be used.

port-type

port-params

connect

xbconnect

map

xbmap

filter

port-filter

xbport-filter

app-filter

port-appfilter

port-aliases

The system allows for up to five user configuration files to be stored. These may be listed using the **show file** command:

```
-----  
Filename      : config1.cfg  
Software version : 5.0.06  
Size         : 64228 (bytes)  
Last restored  : No  
Next boot file : No  
Last Modified  : 10-03-08/10:42:21  
Box ID        : 1  
Description    :  
-----  
Filename      : config2.cfg  
Software version : 5.0.06  
Size         : 64228 (bytes)  
Last restored  : No  
Next boot file : No  
Last Modified  : 10-03-08/10:42:38  
Box ID        : 1  
Description    :  
-----
```

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Filename : config3.cfg
Software version : 5.0.06
Size : 64228 (bytes)
Last restored : No
Next boot file : No
Last Modified : 10-03-08/10:43:05
Box ID : 1
Description :

Filename : config4.cfg
Software version : 5.0.06
Size : 64228 (bytes)
Last restored : No
Next boot file : No
Last Modified : 10-03-08/10:43:22
Box ID : 1
Description :

Filename : config5.cfg
Software version : 5.0.04
Size : 64228 (bytes)
Last restored : Yes
Next boot file : Yes
Last Modified : 10-02-08/09:51:24
Box ID : 1
Description :

2. What is the Next Boot (NB) flag and how does it work?

Answer: The **Next Boot flag** indicates which file will be restored into RAM memory the next time the system is rebooted. You cannot delete the file that has the Next Boot flag set to **yes**. You may move the Next Boot flag to another filename by three methods.

1. Use the **config file *filename.cfg* nb** command
2. Append nb to the end of the config save command, **config save *filename.cfg* nb**.
3. Answer y when prompted to set the NB flag to yes during the **config restore** command.

Example:

config restore config2.cfg

Warning: Current settings for system, ports, connectivity, filters will be removed - continue (y/n)? y

Set the next boot(NB) flag for this file - continue (y/n)? y

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3. What is the Last Restored flag and how does that work?

Answer: The **show file** command output also displays which file was *last restored* into memory. The Last Restored flag will be set to yes in one of two ways:

1. The NB flag was set to **yes** and the system was rebooted.
2. The **config restore** command was used to load the configuration into memory.

4. What items get deleted with the Delete All command?

Answer: The **delete all** command does not affect what is stored in any of the configuration files. The **delete all** command only affects what is in the active RAM memory of the GigaVUE. The delete all command will delete all the same items that are stored in the configuration file (**User Area**) except the port-parameter settings.

port-type connect xbconnect map xbmap

filter port-filter xbport-filter app-filter port-appfilter

The **System Area** of the flash memory (defined in Question 1 above) is not affected by the **delete all** command.

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5. What items get reset with the Reset System Factory Default command.

Answer: The **reset system factory-default** command is equivalent to executing a **delete all, config save** and **reset system**. So the **reset system factory-default** does affect the configuration file that has the Next Boot flag set to Yes. The only difference in which parameters that are affected between the **delete all** command and the **reset system factory-default** command are listed below:

GigaVUE-420 and GigaVUE-MP

	delete all	reset system factory-default
Medium	no change	changes
Autoneg	no change	no change
Speed	no change	no change
Duplex	no change	no change
ForceLinkUp	no change	changes
ib_cable_len	no change	changes
Port-alias	no change	changes

GigaVUE-2404

	delete all	reset system factory-default
Medium	no change	changes
Autoneg	no change	changes
Speed	no change	changes
Duplex	no change	changes
ForceLinkUp	changes	changes
ib_cable_len	no change	changes
Port-alias	no change	changes

6. How do I delete the stacking configuration?

Answer: The only way to delete the stacking information is with the **delete stack_info** command. This command requires a reboot and will reset the **bid, x1_bid, x2_bid** and **active_link** settings to the factory default values.

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For Technical Support contact Gigamon Systems via email at support@gigamon.com or call 408-263-2024.

