



NVIDIA OEM Commands

Not all functionalities are covered with a standard set of IPMItool commands. Therefore, a set of custom NVIDIA IPMItool `raw` commands have been added. The first two parameters of the `raw` command are NetFN and CMD.

IPMItool `raw` commands follow the following format:

```
ipmitool -C 17 -I lanplus -H <bmc_ip> -U <username> -P <password>
raw <netfunc> <cmd> <data>
```

Where:

- `netfunc` – network function which identifies the functional message class, and clusters IPMI commands into sets
- `cmd` – one byte command within a network function
- `data` – optional element which provides additional parameters for a request or response message

net func	cmd	data	Description
0x32	0x66	N/A	Factory reset
0x32	0x67	0x00	Disable vendor field mode settings to be run from Arm OS
0x32	0x67	0x01	Enable vendor field mode settings to be run from Arm OS
0x32	0x68	N/A	Fetch vendor field mode settings to be run from Arm OS
0x32	0x6a	0	Stops RShim on BMC

net func	cmd	data	Description
0x32	0x6a	1	Starts RShim on BMC
0x32	0x69	N/A	Retrieves RShim service status on BMC. Expected output: <ul style="list-style-type: none"> 0x00 – RShim inactive (default state) 0x01 – RShim active
0x32	0x6b	N/A	Gets the DNS server
0x32	0x6c	0x0b 0x31 0x30 0x2e 0x31 0x35 0x2e 0x31 0x32 0x2e 0x36 0x37	Adds the DNS server
0x32	0x92	N/A	Enters NVIDIA® BlueField® into Livefish (FNP) mode
0x32	0x93	N/A	Disable Livefish (FNP) mode
0x32	0xa1	0x0	OEM command 0xa1 is defined for various reset controls of BlueField from BMC under the OEM NetFn group 0x30. <ul style="list-style-type: none"> 0x00 – hard reset of BlueField
0x32	0xa7	N/A	Gets NTP servers.
0x32	0xa8 0x00	0x31 0x2e 0x69 0x6e 0x2e 0x70 0x6f 0x6f 0x6c 0x2e 0x6e 0x74 0x70 0x2e 0x6f 0x72 0x67	Adds primary NTP server with address 1.in.pool.ntp.org

net fun c	cmd	data	Description
0x32	0xa801	0x31 0x2e 0x69 0x6e 0x2e 0x70 0x6f 0x6f 0x6c 0x2e 0x6e 0x74 0x70 0x2e 0x6f 0x72 0x67	<p>Adds secondary NTP server with address <code>1.in.pool.ntp.org</code></p> <p>Note Should be added after a primary server has been declared.</p>
0x32	0xa802	0x01	Enable time sync to NTP server
0x32	0xa802	0x00	Disables NTP time sync
0x32	0xD2	N/A	Triggers a CEC self reset for CEC pending firmware activation

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