Inspecting Ports (Network Interfaces) using `lf_portmod`

**Goal:** You will be able to report and reset ports on your LANforge server.

Port statistics can be programatically monitored using the script `lf_portmod.pl`. This script can also reset ports, alter WiFi station settings, and pass arbitrary LANforge CLI commands directly to the LANforge manager.

Ports of all kinds can be viewed with the `lf_portmod.pl perl` script. You can also do some limited manipulation of ports as well.

**Listing Ports**

You can show statistic on a port with the `--show_port` argument:

```
C:\> perl .\lf_portmod.pl --quiet 1 --manager jedtest --card 1 --port_name eth1 --show_port
```

*You can right-click to paste these commands into your DOS window*

*Produces:*

```
swt1: Card 1, Port 1, Type: Ethernet Alias:
  PortName: eth1, Status: Up, Type: 1000, CPU Mask: 0
Current: UP, Link: NP 1000 Mb AUTO-Negotiate Flow-Control TSO 64k GRO
Supports: UP, Link: 1000 Mb AUTO-Negotiate Flow-Control TSO 64k GRO
Packets: 2323213, Errors: 0, CRCs: 0, 
```

*Default statistical information:*

```
C:\Program Files (x86)\LANforge-Server\scripts\lf_portmod.pl
```

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C:\Program Files (x86)\LANforge-Server\scripts\lf_portmod.pl
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Listing Port Attributes

Individual port attributes can also be shown, which often makes automating reporting easier.

```
perl \lf_portmod.pl --manager jedtest --card 1 --quiet 1 --port_name eth1 --show_port “RxDrop,Rxp,IP”
```

Produces:

```
[1] Program Files (x86)\LAllforge-Server\scripts>perl \lf_portmod.pl --manager jedtest --card 1 --quiet 1 --port_name eth1 --show_port “RxDrop,Rxp,IP”
```

Consider that is a lot of text to type, if we want, we can reformat that command.

```
perl \lf_portmod.pl --manager jedtest ^
--card 1 --quiet 1 --port_name eth1 ^
--show_port “RxDrop,Rxp,IP”
```

Produces the same output:

```
[1] Program Files (x86)\LAllforge-Server\scripts>perl \lf_portmod.pl --manager jedtest ^
```

Loading a test scenario

Saved test scenarios are often referred to as ‘databases’

```
lf_portmod.pl --load day_238
```

This matches the same database name seen in the Status tab database dropdown.

Admin-down a port

```
lf_portmod.pl --manager 192.168.1.101 --card 1 --port_name eth2 --set_ifstate down
```

Reseting a Port

Resetting a port forces a port to unload and reload its configuration.

```
lf_portmod.pl --manager 192.168.1.101 --card 1 --port_name eth2 --cmd reset
```
Sending a specific CLI command to the LANforge manager:

It is possible to directly pass a command to the LANforge manager:

```
lf_portmod.pl --manager 192.168.1.101 --cli_cmd "scan 1 1 sta0"
```