Other commands of the unit

> ✅ Successfully pass the free certification exam at IW Academy and become an Infinet Certified Engineer.
>
> To the certification exam

- sys uptime
- sys log show
- sys info -full
- config show
- ifconfig -a
- license -show
- ctl
- tsync
- mem

sys uptime

Displays the system up time since the last reboot and the reason of this reboot.

Figure - "sys uptime" command output

The possible options are:

- Software fault
- Unexpected restart
- Manual restart
- Manual delayed restart
- Firmware upgrade
- SNMP managed restart
- Test firmware loaded.

sys log show

Displays the unit event log.

sys info -full

Displays the detailed information about:

- System
- Memory
- CPU
- Flash
- DFFS
- License
- PHY0
- PHY1.

Title

```
#1> sys info -full
SYSTEM      XG WANFleX H12S10v1.6.6-273 * Feb 20 2017 20:37:41 * SN:500388 * Uptime: 12 days 22:08:31
            Firmware ID: 012XG0010

MEMORY      55.2 MB total
            Malloc stats
              Total:57880544  Free:40372088  Allocated:17508456 (30.24%)
               Max:18149256 (31.35%)
            Calls
              malloc:10747866  free:12726516  realloc:3566855  calloc:385577  miss:0

            5990 mbufs, 4742 clusters free
            260 mbufs in use:
                259 mbufs allocated to data
                  1 mbufs allocated to packet headers
            258/5000 mapped pages in use
            9417 Kbytes allocated to network (5% in use)

            EthI   :    0(1000,0)
            mgmt   :    0(1000,0)
            ge0    :    0(32,0)
            ge1    :    0(32,0)
            sfp    :    0(32,0)
            radio  :    0(32,0)

            ------- System objects stats ------
               Object    Capac. Current   Max
            ----------- ------- ------- -------
            Tasks            64      30      31
            Timers           70      10      12
            Semaphores       95      42      42
            MQueues          20      16      16
            Extentions        4       2       2
            Workspace Required: 58912
                     Allocated: 102400

CPU         Processor: DAN ARM926EJ-S 600 MHz rev.D
            CPU Load   2%   2%(10s)    2%(30s)    2%(60s)    2%(300s)
            Detailed: Isr: 1.05%  Tasks: 1.19%  Idle: 97.74%

FLASH       Flash device 0: N25Q Boot sector #0, DFFS sector #7

DFFS        Files=9, Used 3713024 bytes, Free 12237960 bytes
            FlashSize=15936 KB, 249 Sectors of 64 KB, 15936 blocks of 1024 bytes

LICENSE     Factory License granted at 24/03/2015 16:28:21 id={dfeff4c2-2396-4825-8927-7d172c65c3d9}

PHY0        Marvell 88E6352 Copper PHY
               Physical link info:
               Link is UP, auto Full-duplex, 1000 Mbps
               Capabilities:         Self  Peer
                   Auto-Negotiation:   +     +
                10 Mbps Half-duplex:   +     +
                10 Mbps Full-duplex:   +     +
               100 Mbps Half-duplex:   +     +
               100 Mbps Full-duplex:   +     +
              1000 Mbps Half-duplex:   +     -
              1000 Mbps Full-duplex:   +     +
               PHY chip: Marvell 88E6352 Copper PHY ID: 0eb00141

PHY1        Marvell 88E6352 Copper PHY
```

Figure - "sys info -full" command output

config show

Displays the current unit configuration.

ifconfig -a

Displays the detailed information about network and radio interface.

```
#1> ifconfig -a
lo0: flags=8009<UP,LOOPBACK,MULTICAST> mtu 1500
        inet 127.0.0.1 netmask 0xffffffff

mgmt: flags=8003<UP,BROADCAST,MULTICAST> mtu 1500
        inet 10.10.20.3 netmask 0xffffff00 broadcast 10.10.20.255
        ether 00:04:35:07:a2:a4

        mgmt: administrative status UP
        +-------------------------------+-------------------------------+
        |         Receive statistics    |         Transmit statistics   |
        +-------------------------------+-------------------------------+
        | Packets             3979622   | Packets             2940196   |
        | Bytes               614262261 | Bytes               219734311 |
        | Load (kbps)         6         | Load (kbps)         3         |
        | Load (pps)          7         | Load (pps)          6         |
        +-------------------------------+-------------------------------+

ge0: flags=1<UP> mtu 1500
        inet 0.0.0.0 netmask 0x0

        Physical link is UP, 1000 Mbps Full-duplex, Auto
        PHY chip: Marvell 88E6352 Copper PHY ID: 0eb00141
        +-------------------------------+------+-----+
        |                Supported modes| Self |Peer |
        +-------------------------------+------+-----+
        |            Auto-Negotiation| yes  | yes |
        |        10 Mbps Half-duplex| yes  | yes |
        |        10 Mbps Full-duplex| yes  | yes |
        |       100 Mbps Half-duplex| yes  | yes |
        |       100 Mbps Full-duplex| yes  | yes |
        |      1000 Mbps Half-duplex| yes  | -   |
        |      1000 Mbps Full-duplex| yes  | yes |
        +-------------------------------+------+-----+

        ge0: administrative status UP
        +-------------------------------+-------------------------------+
        |         Receive statistics    |         Transmit statistics   |
        +-------------------------------+-------------------------------+
        | Packets             1408368   | Packets             105497    |
        | Bytes               164562990 | Bytes               44901141  |
        | Load (kbps)         3         | Load (kbps)         1         |
        | Load (pps)          3         | Load (pps)          3         |
        +-------------------------------+-------------------------------+
        | CRC errors          0         | CRC errors          0         |
        | Pause packets       0         | Excessive deferrals 0         |
        | Bad octets          0         | Excessive collisions 0        |
        | Rx errors           0         | Late collisions     0         |
        | Runts               0         | Multiple collisions 0         |
        | Short packets       0         | Single collisions   0         |
        | Long packets        0         |                               |
        +-------------------------------+-------------------------------+
```

Figure - "ifconfig -a" command output

license -show

Displays options available in this license

```
#1> license -show
License 'Factory License' granted at 24/03/2015 16:28:21
  Device
     SN:500388
     PN:InfiNet Um/5.500.2x500
  Operational parameters
     rf5.0 interface parameters
        Maximum Transmit Rate: 500 Mbps
        Available Channel Widths: 10 Mhz 20 Mhz
        40 MHz channel width is available
        Link: Point to Point
        Power levels: 1,500 mW
        Power levels: 0.0,27.0 dBm
        Supported Frequencies: 4910 - 5990 MHz
```

Figure - "license -show" command output

ctl

Displays the switch board temperature.

```
#1> ctl
Internal temperature is +45.1 degrees Celsius.
```

Figure - "ctl" command output

tsync

Displays the synchronization statistics via built-in GLONASS/GPS receiver.

mem

Displays the memory utilization statistics.

```
#1> mem
Malloc stats
  Total:57880544  Free:40366480  Allocated:17514064 (30.25%)
  Max:18149256 (31.35%)
Calls
  malloc:10753914  free:12734844  realloc:3573772  calloc:386495  miss:0

5988 mbufs, 4741 clusters free
262 mbufs in use:
     261 mbufs allocated to data
       1 mbufs allocated to packet headers
259/5000 mapped pages in use
9417 Kbytes allocated to network (5% in use)

EthI   :    0(1000,0)
mgmt   :    0(1000,0)
ge0    :    0(32,0)
ge1    :    0(32,0)
sfp    :    0(32,0)
radio  :    0(32,0)
```

Title

Figure - "mem" command output