

# Accessing the NetRS/NetR8/NetR9 programmatic interface with linux curl command

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For receivers that have slow connections or for writing scripts to monitor receivers state of health and other features

the use of the linux curl command can be used to access the receiver's built-in programmatic interfaces commands.

The basic command structure is:

```
curl -u LOGIN:PASSWORD "http://IPADDRESS/prog/show?COMMANDNAME"
```

Where:

- LOGIN and PASSWORD are the accounts on the receiver
- IPADDRESS is the IP address or domainname of the receiver
- COMMANDNAME is the command you are using

For example to view the tracking status you would use::

```
curl -u LOGIN:PASSWORD "http://IPADDRESS/prog/show?trackingStatus"
```

The response is:

```
<Show TrackingStatus>
Prn=29 Sys=GPS Elv=42 Azm=218 IODE=59 URA=2 L1snr=48 L2snr=36 L2Csnr=45
Prn=22 Sys=GPS Elv=3 Azm=276 IODE=103 URA=2.8 L1snr=38 L2snr=20
Prn=18 Sys=GPS Elv=36 Azm=300 IODE=7 URA=2 L1snr=47 L2snr=31
Prn=2 Sys=GPS Elv=2 Azm=132 IODE=41 URA=2
Prn=5 Sys=GPS Elv=16 Azm=071 IODE=68 URA=2 L1snr=41 L2snr=23 L2Csnr=40
Prn=6 Sys=GPS Elv=0 Azm=322
Prn=15 Sys=GPS Elv=73 Azm=021 IODE=21 URA=2 L1snr=50 L2snr=41 L2Csnr=50
Prn=21 Sys=GPS Elv=46 Azm=323 IODE=75 URA=2 L1snr=47 L2snr=32
Prn=9 Sys=GPS Elv=33 Azm=149 IODE=42 URA=2 L1snr=45 L2snr=31
Prn=27 Sys=GPS Elv=41 Azm=115 IODE=19 URA=2 L1snr=47 L2snr=32
<end of Show TrackingStatus>
```

To list the available commands:

```
url -u LOGIN:PASSWORD "http://IPADDRESS/prog/show?commands"
```

The response is:

```
<Show Commands>
Command verb=Show object=TrackingStatus
Command verb=Show object=ElevationMask
Command verb=Show object=SerialNumber
```

Command verb=Show object=Position  
Command verb=Show object=UtcTime  
Command verb=Show object=GpsTime  
Command verb=Show object=Voltages  
Command verb=Show object=Temperature  
Command verb=Show object=GpsHealth  
Command verb=Show object=GpsSatControls  
Command verb=Show object=Ephemeris  
Command verb=Show object=Almanac  
Command verb=Show object=GpsUtcData  
Command verb=Show object=GpsIonoData  
Command verb=Show object=Tracking  
Command verb=Show object=SbasSatControls  
Command verb=Show object=WaasSatControls  
Command verb=Show object=QzssSatControls  
Command verb=Show object=PdopMask  
Command verb=Show object=ClockSteering  
Command verb=Show object=PPS  
Command verb=Show object=AntennaTypes  
Command verb=Show object=Antenna  
Command verb=Show object=MultipathReject  
Command verb=Show object=Sessions  
Command verb=Show object=Commands  
Command verb=Show object=FirmwareVersion  
Command verb=Show object=RefStation  
Command verb=Show object=IoPorts  
Command verb=Show object=IoPort  
Command verb=Show object=InstallFirmwareStatus  
Command verb=Show object=NtripClient  
Command verb=Show object=FirmwareWarranty  
Command verb=Show object=GlonassSatControls  
Command verb=Show object=TestMode  
Command verb=Set object=ElevationMask  
Command verb=Set object=PdopMask  
Command verb=Set object=ClockSteering  
Command verb=Set object=GpsSatControls  
Command verb=Set object=SbasSatControls  
Command verb=Set object=WaasSatControls  
Command verb=Set object=QzssSatControls  
Command verb=Set object=PPS  
Command verb=Set object=Tracking  
Command verb=Set object=Antenna  
Command verb=Set object=MultipathReject  
Command verb=Set object=RefStation  
Command verb=Set object=IoPort  
Command verb=Set object=Options

Command verb=Set object=GlonassSatControls  
Command verb=Set object=TestMode  
Command verb=Reset object=System  
Command verb=Reset object=GnssData  
Command verb=Delete object=IoPort  
Command verb=Delete object=File  
Command verb=Upload object=FirmwareFile  
Command verb=Show object=File  
Command verb=Download object=File  
Command verb=Show object=Directory  
<end of Show Commands>

Online URL:

<https://kb.unavco.org/article/accessing-the-netrs-netr8-netr9-programmatic-interface-with-linux-curl-command-746.html>