

Receiver Monitoring Basics

Depending on your requirements, Novra has a wide range of options to help you monitor one or more Novra DVB receiver.

For a small number of Novra receivers, one can use the standard Novra Receiver Windows Management software to monitor receivers. Once your receiver (local/remote) is selected the basic screen provides information on the RF and Ethernet interfaces updated at least every second. Multiple copies can be run on the same workstation to monitor multiple receivers simultaneously.

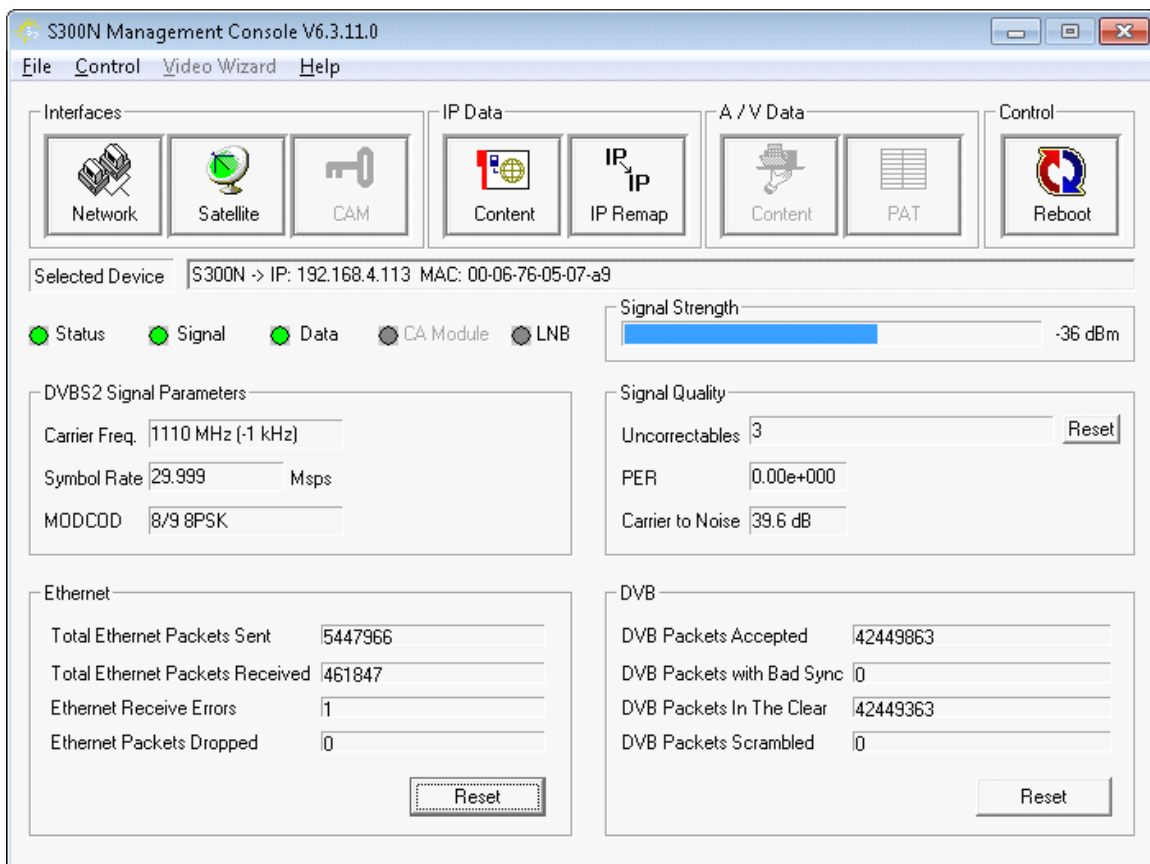


Figure 1 : Basic Novra Receiver Monitoring with Windows Management Console

Another way to monitor one or more Novra receivers it to use cmcs to create running log files of these same RF and Ethernet parameters. Use scheduled tasks to repeatably run cmcs commands (csv1status/csv2status) to populate a running receiver log file.

```
# cmcs -ip 192.168.4.113 -pw xxx -csv1status r1.log
# cat r1.log
09/25/2014 15:52,S300N,00-06-76-05-07-a9,192.168.4.113,0,,Locked,Locked,No Fault,0.00e+00,0,40.300000,-36,303,42904431,3,
```

Please download the correct version of cmcs and manual for more details.

Often Novra receivers feed a single interface on a workstation that can support snmp. If you are interested in monitoring the ethernet traffic from a Novra receiver, one could use a snmp monitoring tool like MRTG on the receiving interface.

Traffic Analysis for 65541 -- SSP-0661

System: SSP-0661 in

Maintainer:

Description: Realtek-RTL8168/8111-PCI-E-Gigabit-Ethernet-NIC-#2

ifType: ethernetCsmacd (6)

ifName:

Max Speed: 12.5 MBytes/s

Ip: 192.168.14.16 ()

GREEN ### Incoming Traffic in Bytes per Second

BLUE ### Outgoing Traffic in Bytes per Second

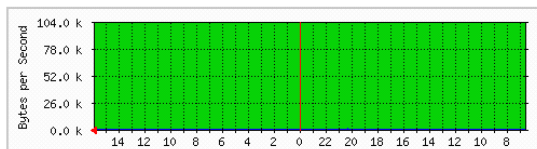
MRTG MULTI ROUTER TRAFFIC GRAPHER

2.16.3

[Tobias Oetiker <tobi@oetiker.ch>](mailto:Tobias.Oetiker@oetiker.ch)
and [Dave Rand <drr@bungie.com>](mailto:Dave.Rand@bungie.com)

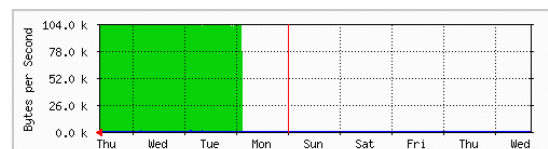
The statistics were last updated **Thursday, 25 September 2014 at 15:55**, at which time 'SSP-0661' had been up for 79 days, 17:15:37.

'Daily' Graph (5 Minute Average)



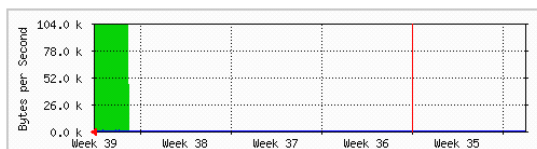
	Max	Average	Current
In	102.7 kB/s (0.8%)	102.4 kB/s (0.8%)	102.0 kB/s (0.8%)
Out	7.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)

'Weekly' Graph (30 Minute Average)



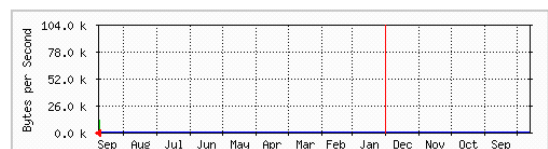
	Max	Average	Current
In	103.0 kB/s (0.8%)	101.4 kB/s (0.8%)	102.3 kB/s (0.8%)
Out	1.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)

'Monthly' Graph (2 Hour Average)



	Max	Average	Current
In	102.5 kB/s (0.8%)	100.6 kB/s (0.8%)	102.4 kB/s (0.8%)
Out	0.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)

'Yearly' Graph (1 Day Average)



	Max	Average	Current
In	102.4 kB/s (0.8%)	57.3 kB/s (0.5%)	102.4 kB/s (0.8%)
Out	0.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)

Figure 1 : Using SNMP monitoring tool on the receive interface of target computer

Finally, for larger networks Novra provides a centralized web based monitoring solution. See our web site for more details.