

# NovraLink : DVB Receiver Monitoring

Novra provides a turnkey web server solution that can provide all the required status information for your network of Novra DVB satellite receivers. This status information is delivered with simple, easy to read web pages so that your NOC (Network Operations Center) can respond quickly to unexpected changes in your network. The frequency of the updates from each receiver site is configurable to meet the response needs of your customers. Important changes in your network can also be sent by email, or to your other monitoring systems with snmp traps.

Last Reported	Outlet:Location	RecMAC ↓	Model	Sig
2013-06-06 16:00	Denver: CO	100A16	S200 Pro	72.00
2013-06-06 16:00	Baltimore: MD	100A17	S200CA Pro	66.00
2013-06-06 16:00	Nashville: TN	100A18	S75+ Pro	79.50
2013-06-06 16:00	Louisville: KY	100A19	S75CA Pro	83.50
2013-06-06 16:00	Milwaukee: WI	100A1A	S200 Pro	72.00
2013-06-06 16:00	Phoenix: AZ	100A05	S75CA Pro	83.50
2013-06-06 16:00	San Antonio: TX	100A06	S200 Pro	72.00
2013-06-06 16:00	San Diego: CA	100A07	S200CA Pro	66.00
2013-06-06 16:00	Dallas: TX	100A08	S75+ Pro	79.50

Figure 1 : Receiver Network Summary Status screen

The following receiver status information is available for logging and monitoring

- Signal Lock
- Signal Strength
- Bit Error Rate
- Uncorrectable transport stream packet count
- Carrier-to-Noise ratio
- Transport Stream Packet Receive Count
- Ethernet Packet Sent Count

Depending on the client network architecture, the receiver status information is reported from each site or polled from the server using the Novra CMCS utility.

The solution is available as a server appliance or as a virtual machine to be installed at the NOC. Access to the system is provided via a secure login page.

Detailed receiver logs based on the receiver polling frequency are available from the main summary screen.

Satellite Network Summary		Recent Receiver Logs	
Location :: CO Springs : CO : 100A27		back	Lines per page <input type="text" value="20"/> <input type="button" value="Set"/>
Last Reported	Sig	TS OK	Uncor
06/06/2013 14:40	66.00	441908358	0
06/06/2013 14:45	66.00	442172483	0
06/06/2013 14:50	66.00	442435734	0
06/06/2013 14:55	66.00	442699860	0
06/06/2013 15:00	66.00	442963989	0
06/06/2013 15:05	66.00	443228112	0
06/06/2013 15:10	66.00	443492688	0
06/06/2013 15:15	66.00	443756813	0

Receiver variables displayed are configurable.

Satellite receiver location information is added through a location management module or a data file import script.

Outlets		Add/Edit Outlet		Displays		Channels	
<input type="button" value="New"/>		<input type="button" value="Save"/>		<input type="button" value="Copy"/>		<input type="button" value="Remove Outlet"/>	
Name	<input type="text" value="Denver"/>	City	<input type="text" value="Denver"/>	State/Province	<input type="text" value="CO"/>	Zip/Postal Code	<input type="text" value="12345"/>
Contact Name	<input type="text" value="John Doe"/>	Contact Phone	<input type="text" value="555-555-1234"/>	Address	<input type="text" value="123 Main St"/>	IP Address	<input type="text" value="192.168.4.80"/>
Time Zone	<input type="text" value="US/Mountain"/>	Password	<input type="text"/>				
<b>Add New Receiver</b>							
Name	<input type="text"/>	Description	<input type="text"/>	<input type="button" value="Add"/>			
<b>Receiver Locations</b>							
<input type="button" value="Remove Selected Locations"/>							
Name	Description	Receiver MAC	Schedule	Last Connect			
<input type="checkbox"/>	CO	000676100A16					

Contact Novra to discuss your DVB receiver network monitoring needs and how we can help.