



ASTRA Monitoring & SNMP Gateway

Facility Monitoring

In a broadcast facility, there are many systems and devices involved in the broadcast workflow. There are computers and servers used for planning (traffic systems and NRCS systems), editing (NLEs), videosevers, storage systems and tape archives as well as all of the devices in the broadcast chain that process a signal such as routers, graphics, switchers, logo generators, etc. Failure of any of these devices can impact the broadcasting process and advertising revenue.

It is necessary to continually monitor the status of all the equipment and diagnose problems as early as possible so that they can be addressed before they cause an on-air problem.

ASTRA Status Diagnostics

One of the core components of an ASTRA automation solution is the internal Status Diagnostics subsystem. This subsystem continuously checks the status of:

- All ASTRA server hardware, including cooling fans, power supply voltages and internal temperatures.
- All ASTRA software modules. Each software module reports its status as well as the status of the currently processed event.
- All third party equipment interfaced to ASTRA that has the capability to report errors by their API or communication protocol.

The ASTRA Status Diagnostics module reports the overall health of equipment to all users by a status button in the top right corner of the screen. If it turns yellow (warning) or red (error), then users can click that button and see more detailed information.

Order: severity level	Server	Node/Pid	Process	Message	Time	R
25: Error	BOMAIN	1,875	OSD - IN	NO COMMUNICATION	09:18:06.0	1
26: Error	BOMAIN	1,8134	Router	NO COMMUNICATION	09:11:25.00	1
32: Warning	BOMAIN	1,6715	FXM - PT	COMM OK - "iscipodPort0 - a	09:18:28.25	3
64: Warning	BOMAIN	1,9581	Time Recall/Rate GasServ	Ref. line is shifted -1 hour	09:11:45:22	3
37: Warning	BOMAIN	1,29123	mediamk_MEDS/BASIC	ACTIVE-MEDS - NO COMM/INIT	07:21:32:19	2
77: Beat fail	BOMAIN	1,15843	MsgCache/cacheMED/AGRIDist	UnR 16:54:52:25: NO MORE TRANSFERS	07:21:32:25	2
1: OK	BOMAIN	1,0	Real time clock	OK, Clock: VFP, Time: External	09:09:20:00	0
2: OK	BOMAIN	1,171	Memory watchdog	Mem=60%/605min, i0077=93%/93min, h0177=17%/	09:09:31:00	0
3: OK	BOMAIN	1,171	Process system watchdog	Proc=409/352/200, Times=106/109/112, Prc=181/Prc	09:09:31:00	0
4: OK	BOMAIN	1,171	File system watchdog	Names=29/29/100, Sessions=26/30/512, Files=56/63/200	09:09:31:00	0
5: OK	BOMAIN	1,22779	DeWatch/B0avemain	connected, last response : 04:55:04:20, last received ch	09:09:28:08	0
6: OK	BOMAIN	1,22781	ADBACC/B0avemain	START	09:09:29:19	0
7: OK	BOMAIN	1,22839	<BOMAIN server (BO)>	Server is MASTER	09:09:42:04	0
8: OK	BOMAIN	1,2647	Dual BOBACK server (BOB)	Server is SLAVE	09:09:43:11	0

STATUS REPORTING IN THE ASTRA GUI.

SMS and GPI alerts

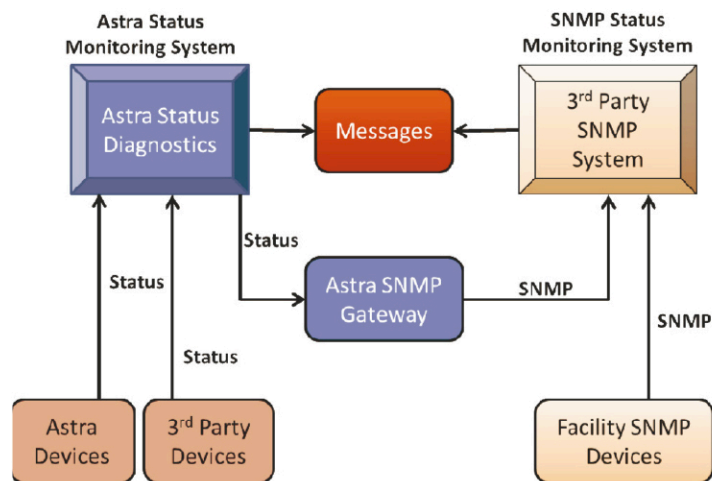
If the Status Diagnostics reports a warning or error, ASTRA can optionally send alerts via GPI or send an SMS message to the administrator through a GSM modem.

SNMP Gateway

SNMP (Simple Network Monitoring Protocol) is an industry standard for status information exchange between a device (such as an Ethernet switch) and a client (monitoring software). Most of these software packages interface to other applications that can then send messages via cellphones, e-mails, or ring alarms.

In the event that a broadcaster already has an SNMP based monitoring system, ASTRA offers a gateway to interface into these third party systems.

ASTRA's SNMP Gateway allows a third party SNMP monitoring system to display data from ASTRA's Status Diagnostics system with other SNMP monitored devices.



HOW SYSTEM WIDE STATUS CAN BE DISPLAYED DIRECTLY IN ASTRA OR BY USING A THIRD-PARTY SNMP MONITORING SYSTEM.

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