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), videoservers, 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.

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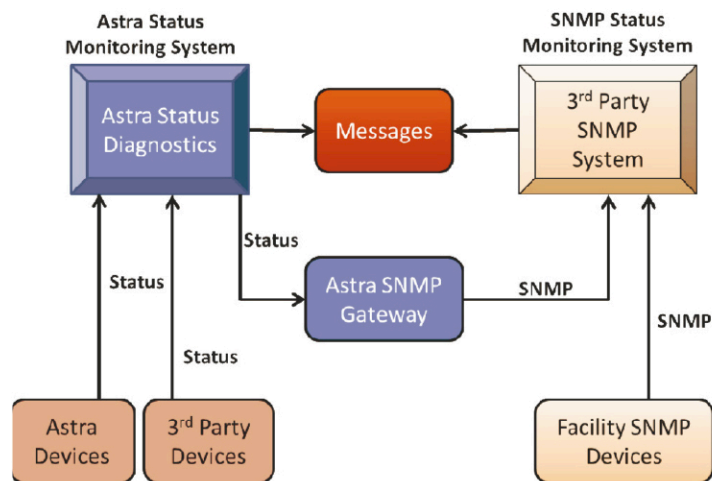
HOW SYSTEM WIDE STATUS CAN BE DISPLAYED DIRECTLY IN ASTRA OR BY USING A THIRD-PARTY SNMP MONITORING SYSTEM.