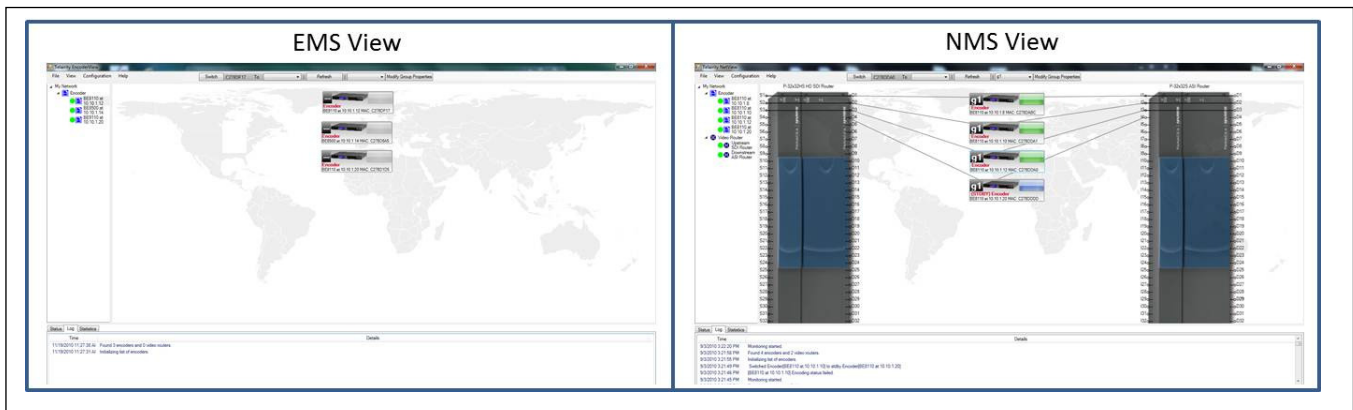


Telairity Encoder Management System (EMS)

The Telairity Encoder Management System (EMS) is a tightly focused application designed to simplify the management of multiple Telairity Encoders on a common network. The system scales seamlessly from the smallest to the largest installations, with any number and combination of Telairity encoder models encompassed by a single EMS. The EMS can be supplemented by a more inclusive Network Management System (NMS) that also encompasses upstream and downstream switching routers and provides flexible redundancy mechanisms for automatic failover.

Functions of the EMS include:

- Automatic discovery and mapping of all Telairity encoders on a given network
- Graphical display of network with encoders listed by model number and IP control address
- Visual monitoring of operational status of individual encoders (power, input signal, encoding)
- Ability to move encoders in and out of service (between *active* and *standby* status)
- Manual failover of encoders for scheduled maintenance, etc.
- Set and change parameters for individual encoders
- Arbitrarily assign encoders to named groups
- Set and change parameters for a named group of encoders
- Automatically email alarm and other messages to designated mailboxes
- Dynamic status reporting on each encoder, including
 - Input signal (Locked & Encoded)
 - Number of non-fatal video errors in input stream (signal quality)
 - Encoder temperature (in degrees Centigrade)
 - Encoder fans (on or off)
 - Power supply health
 - Status of links for IP0 and IP1 (on or off)
- Event logging
 - View significant events in chronological order (most recent to oldest)
- Gather and graph statistics for individual encoders, including
 - Temperature
 - Number of frames encoded



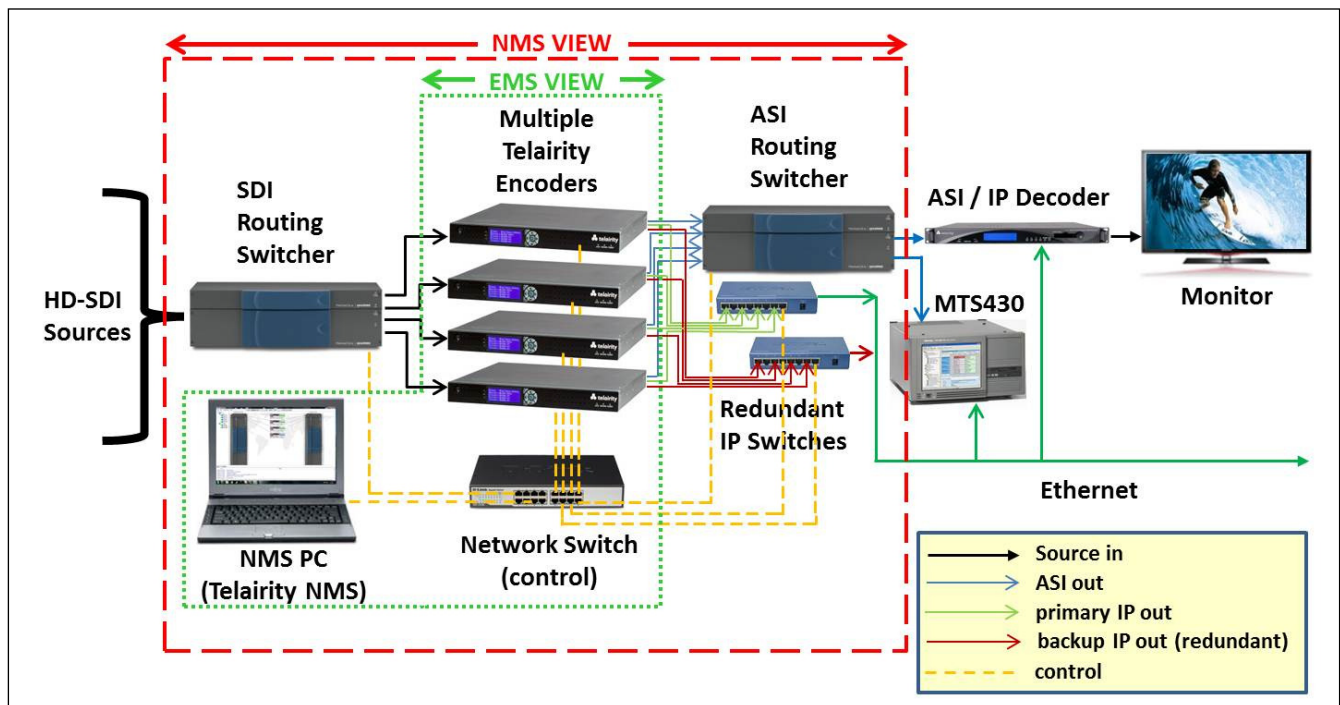
Telairity Network Management System (NMS)

The Telairity Network Management System provides a more inclusive view of a networked installation of Telairity encoders, encompassing not merely the networked encoders themselves, but also third-party upstream and downstream switching routers. Upstream routers accept and feed source signals into the encoders. Downstream routers are responsible for distributing encoded signals.

In addition to all the functionality provided by the Telairity EMS, the Telairity NMS provides the following capabilities:

- Monitoring of ASI inputs from upstream router to encoders
- IP Link Monitoring (of IP data outputs from each encoder)
- Mapping of source signals between upstream router input and output ports
- Mapping of source signals from upstream router output ports to encoders
- Mapping of encoded signals from encoder outputs to downstream router input ports
- Mapping of encoded signals between downstream router input and output ports
- Flexibly create either N:1 or N:M redundancies for a group of encoders
- Automatic failover on faults in input signals, signal paths, or equipment

The difference in the scope of the EMS and NMS views of a video network is illustrated below.



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