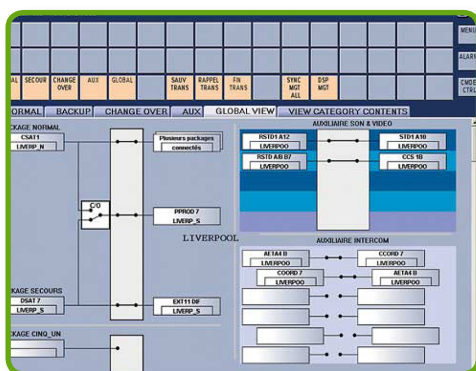


➤ **Nodal Master is a full-featured software solution for controlling all the routing and processing equipment in a nodal suite, whether that equipment be reception devices (antennae, IRDs), connection grids (HF, audio and video), tuning equipment (audio and video), or even monitoring devices, etc. Nodal Master provides users with a single interface for controlling all such equipment, which allowing them to create links or switch connections from any source to any target in the system.**

OVERVIEW OF EVENT TRANSMISSIONS



Equipment management

- Control and tuning of antennas, including tracking antennas.
- Azimuth, elevation and polarity control with satellite location memories.
- Spectrum analysis for frequency antenna positioning refining.
- Redundant controls for HF, audio and video grids (by IP or serial port).
- Driving audio and video processing equipment (Up/Down conversion, image correction, audio delay, etc.).
- Feedback signal management.
- Operation of UMDs.

Preparing transmissions

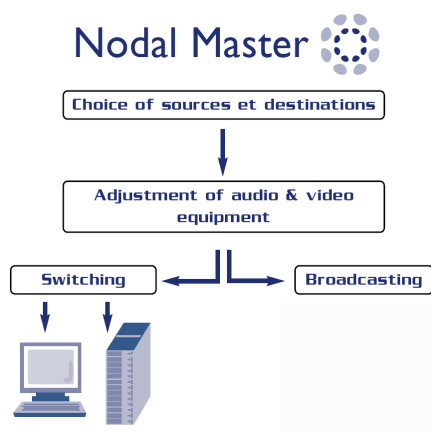
With **Nodal Master**, you can prepare transmissions either in advance or in real time for one or several devices.

- GUI systems based on the principle of transmissions, to which a collection of equipment (Antenna, Grid, Integrated Receiver/Decoder, UMD, etc) is associated, and where each component item is represented by an object on the user's screen.
- Choose sources and their associated destinations.
- Save the configuration as a transmission data sheet.
- Adjust both audio and video equipment.
- Multi-station solution for shared access between several operators with strict user rights management.

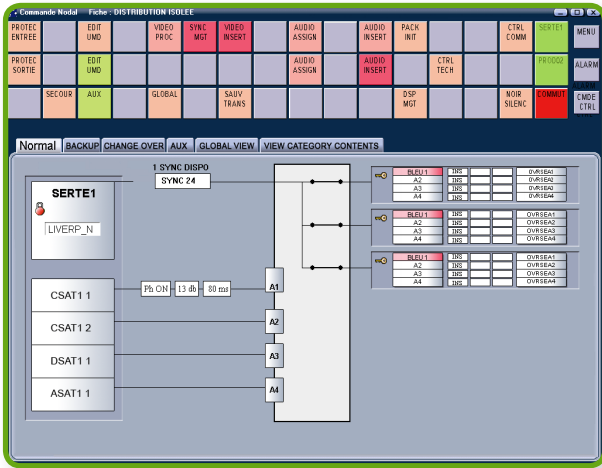
Switching

Nodal Master switches audio and/or video inputs to the chosen destinations.

- Recover predefined transmission data sheets.
- Quick path switching with a simple mouse click or with a dedicated interface (physical and/or virtual keyboards).
- Grouped visualization of all switches related to a given event.
- Package concept: a video, and audio associated treated as a single object.
- Independent management of audio feeds.
- Audio 5.1 compatible, 7.1 compatible, Dolby compatible, etc.



DETAILED VIEW OF A TRANSMISSION



Flexibility

Nodal Master's structure and architecture are based on a database engine and make it a modular, scalable product.

- Customize the system according to existing nodal hardware topology.
- Possibility of adding equipment without disrupting the existing system.
- Easily modify the number of sources and destinations.
- Hot system upgrades.
- Change sources quickly for a given destination.
- Distribution of equipment controllers (known as proxying) depending on the type of equipment to control and on their scale of importance for usage.
- Distribution of load among different proxies.

Operating security

Nodal Master offers different switch security levels.

- Choose a backup destination for 1 to n given destinations.
- Protect a destination and/or a source in use.
- Issue warnings in the event of failure of any piece of the system's equipment.
- Redundant control tools with automatic backup in emergency mode.
- Data which is centralized, redundant and protected with a custom-designed tool.
- GUI-based management in degraded mode directly from a Proxy.



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Transmission and Switching workflow

