

Technologies

Ketil.morstol@soundware.no

Dante

Cons

- No user management
 - (3.1 pin code lock)
- No admin rights
- Changing unit naming cause route to break
- Not open for 3rd party control systems (apart from a few)
- No GPIO/signalling apart from vendor specific
- Complex in large setups. Uni vs m cast.
- Only one vendor of non-TDM based router
- Many considerations to be done in planning. Even more when in use.
- AES67 compatible, not compliant
- Only AES 67 mCast
- Audio driver can NOT be installed on virtual computers

Pros

- Many products available
- Network discovery
- Dante over WiFi not possible
- Good in isolated islands.
- Hotswap of defective unit

Others

- Uses PTP V1 d 95
- SAP discovery in AES67 mCast
- Closed protocol

Best use

- Rec studio
- Prod studio
- Isolated islands
- AV
- Fixed install
- Small/owned install

Livewire+

Cons

- No MAD1 units, SDI.
- Only 16-24/48 kHz
- Not much available HW

Pros

- Ravenna compatible
- Fully compliant to AES67
- Native multicast
- Password protected units
 - Not possible to alter settings by accident
- Control system
 - Auto doc
 - 3rd party
 - Cause/action
 - Panel builder
- SNMP
 - Configurable
- GPIO/PAD
- Work in isolated as well as corp installs
- Established since 2004
- Node can be router, mixer or converter
- Hotswap
 - Redundant NIC
 - Dual PSU
- Discovery
- Extensive settings
- Open protocols
- Internal clocking

Other

Best use

- Broadcast

Ravenna

Cons

- Not much available HW
- Expensive I/O's . \$ pr. ch is low though.
- Needs 3rd party control system
- No AES 67 unicast using SIP
- Unicast has been seen on some units resently.

Pros

- Livewire compatible
- Many samplerates and bit depths
- Native multicast
- Password protected units
- Router can be mixer or converter
- Extensive settings
- Open protocols
- Internal clocking
- Discovery
- Low delay

Other

- Dependent on PTP
- No GPIO

Best use

- Hi-res recording/prod
- Ingest

AES67

Pros

- A few defined samplerates and bit-depths
- Defined connection methods
 - URI & SDP
- Multicast & Unicast
- Defined packet size, etc

Cons

- Open for interpretation
- Lots of "false" adverticing in market
- Compability vs compliance

Other

- SIP
- No discovery yet - AES-70

Best use

- Exchange/interoperability

N/ACIP

- Just as AES67, but for codec's
 - Compatible to AES67 to some extent. (4ms) SIP
- Codecs
 - Wide selection of bitrates/depths
- WAN/Internet/3G/4G
 - STUN, NAT
- Supports GPIO
- Mature standard