



Technical bulletin

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dot2 Network Recommendations

Please respect the following recommendations of MA for a stable and reliable operation of dot2 lighting control systems.

Environmental conditions

- Cable and connectors for Ethernet connection are CAT5.E quality or higher.
- MA devices support the defined standard segment length for fixed installations (90m plus 2x 5m), please see EN 50173.
- For temporary installations the cable length is restricted to not more than 75m (to avoid problems caused by different specifications of patch- and installation cable).
- dot2 devices should operate in a separate network, at least VLAN.
- MA devices should be connected by cable (not by WLAN, etc.)

Technical specifications

- dot2 devices use IPv6, manual configuration is unnecessary.
- All devices use the same bandwidth. 100Mbit/s per switch port is required at least.
- For dot2 devices an average bandwidth of 30Mbit/s has to be reserved.
- Traffic shaping is not allowed for dot2-Net.
- Dynamic link aggregation is not allowed.
- Delay tolerance (one way) is 2ms at maximum.
- Session timeout after 2s.

dot2 session rules

- dot2 consoles and onPC, dot2 3D and dot Node4 work in the same session.
- dot2 supports up to four sessions in a physical network (session ID 1-4).
- A session needs to be started to use network protocols like sACN and/or Art-Net. All protocols are sent by the session Master.
- The session status (Master, Connected, Stand-Alone) is displayed at the message center (blue heart = Master, green heart = Connected, red heart = Stand-Alone, smiley = no message).
- Devices with the same session ID will work with the same showfile.
- dot2 consoles and onPC in the same session work in Tracking Backup.
- All session members need to have the same streaming version of the software.
- Devices can be invited or intentionally join the session.
- Two stations in Master status with the same session ID will cause a session collision.
- A session collision always requires an operator action.

For further information please see the dot2 Help Pages that you will find in your dot2 console or online at <http://help2.malighting.com/>.

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