

# Trusted MAC Addresses

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Making MAC Address filtering and authorization meaningful.

**Source MAC Address is a convenient identifier for a device/network participant, and is often used in ACLs, but ...**

- **Easily spoofed**
- **Not guaranteed to be unique**
- **Network administrator may not expect or want device on this network at all**
- **Address may need to reflect device location**
- **Authorization(s) may depend on identity**

# Solution

Support address allocation as part of 'enrollment'

- Initial device authentication uses .1AR IDevID installed by device manufacturer/supplier
- Network administrator confirms device expected, adds to local database, authorizes as appropriate
- .1AR LDevID installed for future authentication
- LDevID Certificate can include allocated MAC Address and associated authorization/access

# Enrollment

- Supported by current and under development protocols (e.g. EST, RFC 7030)
- Once device is enrolled no need to reallocate address or consult central database for access permissions (if included in LDevID certificate)