Trusted MAC Addresses

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
Support address allocation as part of ‘enrollment’

- Initial device authentication uses .1AR LDevID 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)