IOT SECURITY COMPLIANCE

Achieve cost effective & quick compliance to major IoT Standard with SEALSO















One-Stop-Shop

Unique security partner delivers fully integrated solution from Root of Trust to chip.



Cost Effective

No intermediates in the value chain. Reduced integration and certification costs.



Fast-time-to-market

Simplify and accelerate developement and certification processes.



Convenient

Easy PKI as-a-Service online interface to manage certificates.



Flexible

Full range of pre-provisioning options (Factory, OTA, Zero Touch...).



Highest Security

State-of-The-Art tamper resistant hardware & trust services.



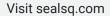
ETSI EN 303 645 (CE Label) vs NIST IR 8425 (US Cyber Trust Mark) Requirements

| ETSI EN 303 645 Requirement | NIST IR 8425 "Cybersecurity Capabilities" |
|--|---|
| No universal default passwords | Access Control |
| Keep software updated | Software Update |
| Securely store sensitive security parameters | Data Protection |
| Communicate Securely | Data Protection |
| Minimize exposed attack surfaces | Access Control |
| Ensure software integrity | Software Update |
| Ensure that personal data is secure | Data Protection |
| Make systems resilient to outages | Access Control |
| Examine system telemetry data | Cybersecurity State Awareness |
| Delete user data and reset are easy | Data Protection |
| Installation and Maintenance are easy | Access Control |
| Validate input data | Data Protection |

Industry "Best Practices" Baseline Requirements Combined and consolidated "Implied Requirements" from NIST IR 8425 and ETSI EN 303 645:

| Best Practices Requirement | Description | SEALSQ Solution |
|---|---|--------------------|
| Securely Store Credentials & Certificates | This applies to both the Birth (or factory) Certificate (IDEVID) and Operational Certificates (LDEVIDs) along with their associated public private key pairs. | ~ |
| Credential based authentication | IDEVID (birth certificate) and LDEVIDs (application certificates) | ~ |
| Unique password | Factory defined passwords must be unique | ~ |
| Specialized User Roles | Roles for administration, operation, etc. | ~ |
| Secure Storage and Update of data | Applies to configuration, user, and application data | ~ |
| Secure Communication | Includes communication on the bus, and communication to other IoT ecosystem nodes | ~ |
| Secure Software Update | Verify software package when downloading | ~ |
| Secure Boot | Verify software package in bootloader | ~ |
| Device Intent | Configuration to only intended Functionality of IoT device | ~ |







Download white paper

