Become a LEAF Universal API Partner

LEAF Universal enables manufacturing partners to seamlessly create and encode secure credentials compatible with all devices within the expansive LEAF Community ecosystem.

Benefits of Partnership

Expand Your Market:

Offer credentials that immediately work with all LEAF partner products, simplifying your go-to-market strategy.

Enhanced Security:

Utilize highly secure MIFARE DESFire EV2/EV3 credentials with AES 128-bit encryption, ensuring maximum protection.

Simple Integration:

Clear, simplified integration process via our secure LEAF Universal API.

Customization Opportunities:

Utilize available credential memory space to encode your own applications and data, providing added value to your customers.

Credential Specifications

Formats Supported:
- 40-bit format (CASI 4002) for 13.56 MHz credentials
- Optional 37-bit format for 125 kHz Proximity IDs

Universal and Enterprise IDs:
- Unique, secure, non-sequential IDs
- Support for custom Enterprise keys for additional secure applications

Digital Credential Manifest

- Easy credential data enrollment through digital manifests.
- QR-coded credential packs for simplified data retrieval and management.
- Downloadable CSV manifests for efficient internal tracking.

Partner Requirements

Technical Capabilities:
- Integration with our LEAF Universal API:
  - Send CSN to the API
  - Receive and encode returned data onto credentials (API returns data within ~200 ms)
  - Secure storage and tracking of credential encoding details for upload to the API
- Encoding firmware adaptability to support LEAF 4.0 specification

Credential Volume Commitment:
- Ability and willingness to manufacture a specified annual quantity

GET STARTED

1. Become a LEAF Community Visionary Member (then docs can be provided)
2. Business agreement is signed
3. Engineering onboarding call (meet the Wavelynx engineers and discuss a brief overview of the API/tools)
4. Staging Environment - Develop API server integration in a staging test environment
5. First Articles - send Wavelynx samples to validate data is correctly programmed to a credential based on API provided diversified keys and data
6. Production Environment - Production API server access is provided to program production credentials. These will be billed.

Programming Process:
1. Partner reads the CSN of a DESFire credential and reports this to Wavelynx via API
2. Wavelynx sends diversified keys and data that is unique to the credential CSN provided
3. Partner programs the credential using this data
4. Partner verifies the credential is programmed successfully
5. Partner provides manifest data to Wavelynx via API call

Become a LEAF Universal API Partner and turn over a new leaf in your access control strategy.

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