

Device Provisioning API Specifications

Overview

REST API for onboarding and managing connected thermostat devices. Allows secure provisioning, registration, and lifecycle management.

Authentication

- API Key via HTTP header: `X-API-Key: <token>`
- HTTPS required for all endpoints.

Endpoints

POST /api/v1/devices/provision

Register a new thermostat device and provision credentials.

Request Body	Type	Description
serialNumber	string	Unique hardware serial
model	string	Device model identifier
firmwareVersion	string	Device firmware version
location	object	<i>Optional.</i> Location info (room, address, etc)

```
{
  "serialNumber": "SN-98765432",
  "model": "CT-2000",
  "firmwareVersion": "1.0.3",
  "location": {
    "name": "Main Hall",
    "address": "123 Example Ave"
  }
}
```

Response	Type	Description
deviceId	string	Internal device identifier
provisioningToken	string	Token used for secure device onboarding
expiresAt	string (ISO8601)	Token expiry

GET /api/v1/devices/{deviceId}/status

Get device registration/provisioning status.

Response	Type	Description
deviceId	string	Device unique identifier
status	string	One of: PENDING, ACTIVE, DECOMMISSIONED
registeredAt	string (ISO8601)	Registration timestamp

PATCH /api/v1/devices/{deviceId}

Update device attributes.

Request Body	Type	Description
firmwareVersion	string	<i>Optional.</i> New firmware version
location	object	<i>Optional.</i> Updated location info

Device Object

```
{
  "deviceId": "f7e3c3f3-1daa-4c0f-9fcc-5aacd11fe2b5",
  "serialNumber": "SN-98765432",
  "model": "CT-2000",
  "firmwareVersion": "1.0.5",
  "status": "ACTIVE",
  "location": {
    "name": "Main Hall",
    "address": "123 Example Ave"
  },
  "registeredAt": "2024-06-01T13:10:00Z"
}
```

Status Codes

- 201 Created â€” Device provisioned
- 200 OK â€” Success
- 400 Bad Request â€” Invalid request
- 401 Unauthorized â€” Invalid API Key
- 404 Not Found â€” Device not found