

EON Protocol API 接口文档

基础信息

基础URL: `http://localhost:3000/api/v1`

所有请求和响应均使用 JSON 格式

认证方式: Bearer Token

1. 用户认证相关接口

1.1 用户注册

POST `/auth/register`

请求体:

```
{
  "email": "string",
  "password": "string",
  "referralCode": "string (optional)",
  "deviceId": "string"
}
```

响应:

```
{
  "success": true,
  "data": {
    "token": "string",
    "userId": "string",
    "email": "string"
  }
}
```

2. 带宽共享相关接口

2.1 记录带宽贡献

POST `/bandwidth/contribute`

请求头:

Authorization: Bearer `<token>`

请求体:

```
{
  "deviceId": "string",
  "bandwidth": "number (MB)",
  "duration": "number (minutes)",
  "timestamp": "string (ISO format)"
}
```

响应:

```
{
  "success": true,
}
```

```
    "data": {
      "points": "number",
      "totalPoints": "number",
      "contributionId": "string"
    }
  }
}
```

2.2 查询用户积分

GET /points/balance

请求头:

Authorization: Bearer <token>

响应:

```
{
  "success": true,
  "data": {
    "points": "number",
    "lastUpdated": "string (ISO format)",
    "contributionsCount": "number"
  }
}
```

3. 推荐系统接口

3.1 生成推荐码

POST /referral/generate

请求头:

Authorization: Bearer <token>

响应:

```
{
  "success": true,
  "data": {
    "referralCode": "string",
    "expiresAt": "string (ISO format)"
  }
}
```

3.2 查询推荐记录

GET /referral/statistics

请求头:

Authorization: Bearer <token>

响应:

```
{
  "success": true,
  "data": {
```

```
    "referralCode": "string",
    "referredUsers": "number",
    "totalPoints": "number",
    "activeReferrals": "number"
  }
}
```

4. 设备管理接口

4.1 注册设备

POST /devices/register

请求头:

Authorization: Bearer <token>

请求体:

```
{
  "deviceId": "string",
  "deviceName": "string",
  "deviceType": "string",
  "osVersion": "string"
}
```

响应:

```
{
  "success": true,
  "data": {
    "deviceId": "string",
    "status": "string"
  }
}
```

4.2 查询设备列表

GET /devices/list

请求头:

Authorization: Bearer <token>

响应:

```
{
  "success": true,
  "data": {
    "devices": [
      {
        "deviceId": "string",
        "deviceName": "string",
        "lastActive": "string (ISO format)",
        "status": "string",
        "totalContribution": "number (MB)"
      }
    ]
  }
}
```

```
    ]  
  }  
}
```

错误响应格式

所有接口的错误响应格式统一为:

```
{  
  "success": false,  
  "error": {  
    "code": "string",  
    "message": "string",  
    "details": "object (optional)"  
  }  
}
```

常见错误代码

AUTH_001: 认证失败

AUTH_002: Token过期

AUTH_003: 无效的认证信息

REF_001: 无效的推荐码

DEV_001: 设备未注册

DEV_002: 设备已被禁用

POINT_001: 积分记录失败

注意事项

所有时间戳使用 ISO 8601 格式

带宽数据使用 MB 为单位

Token 有效期为 24 小时

设备ID应该是唯一的

推荐码有效期为 30 天