

API Documentation for Arise One Platform (AOP)

1.1 Auth Api (Authentication Token Generation)

Purpose: Generate JWT token for API access based on user credentials

Method: POST

Endpoint: /auth/token

Request Body (all required):

- **userId** (string): User identifier
- **role** (string): User role (super_admin, zone_admin, normal_user)
- **zone** (string): Zone/Country name

Request Example

```
{
  "userId": "user_001",
  "role": "zone_admin",
  "zone": "Gabon"
}
```

Authorization: None required

Response (200 OK)

```
{
  "token":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOiJlE3MTkwMDAwMDAsImV4cCI6MTcxOTAwMzYwMCwidXNlcklkIjoidXNlcl8wMDEiLCJyb2xlIjoiem9uZV9hZG1pbilInpvcjbmUiOiJHYWJvbiIsInBlcm1pc3Npb25zIjpw7InJlYWQiOiIsicGxvdHMiLCJ6b25lcylsInJlcG9ydHMiXSwid3JpdGUiOiIsicGxvdHMiLCJ6b25lcylJdfX0.signature_here"
}
```

Response (400 Bad Request)

```
{
  "error": "INVALID_ROLE",
  "message": "Role must be: super_admin, zone_admin, or normal_user"
}
```

```
}
```

Response (400 Bad Request)

```
{  
  "error": "INVALID_ZONE",  
  "message": "Invalid zone provided"  
}
```

Response (400 Bad Request)

```
{  
  "error": "MISSING_PARAMETERS",  
  "message": "userId, role, and zone are required"  
}
```

1.2 JWT Token Structure

Header

```
{  
  "alg": "HS256",  
  "typ": "JWT"  
}
```

Payload (decoded content)

```
{  
  "iat": 1719000000,  
  "exp": 1719003600,  
  "userId": "user_001",  
  "role": "zone_admin",  
  "zone": "Gabon",  
  "permissions": {  
    "read": ["plots", "zones"],  
    "write": ["plots", "zones"]  
  }  
}
```

Claims Description

- **iat**: Token issued at time (Unix timestamp)
- **exp**: Token expiration time (Unix timestamp) - 24 hour from issue
- **userId**: User identifier from request
- **role**: User role from request
- **zone**: Zone/Country from request
- **permissions**: Auto-assigned based on role

1.3 Role-Based Permissions

super_admin

- **read**: ["plots"]
- **write**: ["plots"]

zone_admin

- **read**: ["plots"]
- **write**: ["plots"] // for particular zone only

normal_user

- **read**: ["plots"]
- **write**: []

1.4 Using Generated Token

For subsequent API calls, include token in Authorization header:

Header Format

Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

Example API Call

GET /plots/available?country=Gabon&zoneCode=GSEZ&category=Residential
Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

2. Available Plots Retrieval

Purpose: Populate the “Available Plots” dropdown during customer lead registration.

Method: GET

Endpoint: /plots/available

Query Parameters (all required):

- **country** (string): country name - Code
- **zoneCode** (string): Zone identifier
- **category** (string): Plot category (e.g., Residential, Commercial)
- **phase** (string): Development phase (currently don't have)

Request Example

/plots/available?country=Gabon&zoneCode=GSEZ&category=Residential&phase=2

Authorization:

Bearer <token>

Response (200 OK)

```
{
  "plots": [
    {
      "plot*": "Block A-12",
      "plotStatus": "Available",
      "category": "Residential",
      "phase": "2",
      "areaInSqm": 250.5,
      "areaInHa": 0.025
    }
  ]
}
```

3. Plot Update

Purpose: Synchronize plot metadata and reflect in UI

Method: PUT

Endpoint: /update-plot

Authorization:

Bearer <token>

Request Body

```
{  
  'country': 'Gabon',  
  'zoneCode': "GSEZ",  
  'phase': '2',  
  'plotName/plotNumber': 'Block A-12',  
  'companyName': "",  
  'sector': "Timber",  
  'activity': 'furniture',  
  'plotStatus': 'Occupied',  
  'operationalStatus': 'Active',  
  'remark': "East facing plot", // optional  
  'logo': url // optional  
}
```

Responses

- 200 OK: { 'message': 'Plot A-12 updated successfully.' }

4. Plot Release

Purpose: Mark a plot as Available when released

Method: PATCH

Endpoint: /release-plot

Authorization:

Bearer <token>

Request Body

```
{  
  'country': 'Benin',  
  'zoneCode': "GDIZ",  
  'plotStatus': 'available',  
  'plotNumber/plotName': 'Block A-12',  
}
```

Behavior

- Sets plotStatus to 'Available'

Response

- 200 OK: { 'message': 'Block Plot A-12 released and marked Available.' }

5. Zone Master

Purpose: Single source of truth for zone metadata

Method: POST

Endpoint: /country/zones

Authorization:

Bearer <token>

Request Body:

```
{  
  'country': 'Gabon',  
  'zoneCode': 'GSEZ',  
  'phase': '1',  
  'landArea': 120 Ha  
}
```

Responses

- 200 OK: {
 'country': 'Gabon',
 'zoneCode': 'GSEZ',
 'phase': '1',
 'landArea': 120 Ha
}

6. Open API

Purpose: Third-party consumable endpoint

Method: GET

Endpoint: /plot-details?country=Gabon&zoneCode=GSEZ

Authorization:

Bearer <token>

Query Parameters:

- country (string, required)
- zoneCode (string, required)
- phase (string, optional)
- category (string, optional)

Response (200 OK)

```
{  
  'metadata': {  
    'country': 'Gabon',  
    'zoneCode': 'GSEZ',  
    'phase': 1,  
    'category': null  
  },  
}
```



```
'plots': [  
  {  
    'plotName': 'Block A-12',  
    'category': 'Residential',  
    'arealnHa': 250.5,  
    'arealnSqm': 20.5,  
    'sector': 'Timber',  
    'activity': 'furniture',  
    'plotStatus': 'Available',  
    'operationalStatus': 'Pending',  
    'logo': url,  
    'remarks': "  
  }  
]  
}
```