



Cicopass

Future of Bicycle Safety 

API Documentation

Integration Instructions

Please follow the instructions below to integrate with the Cicopass API and grow your business with the largest and safest bicycle system

Start with Cicopass

If you don't have a Cicopass account, please [sign up here](#).



Free registration for your first 5 bicycles

Open Developer Guide

Explore the complete API reference, including endpoints, authentication, and integration guidelines. Follow the steps to seamlessly integrate Cicopass into your system

Contact

For technical support, API inquiries, or integration assistance, please contact us at: jjfarnholt@mijncico.com

Cicopass General Information

API Base URL: {baseUrl}.

1. Authentication

POST /api/auth/login

Parameter	Type	Required	Description
email	string	yes	User email
password	string	yes	User password

Response

```
{
  "token": "JWT_TOKEN",
  "expiresAt": "2026-01-01T12:00:00Z",
  "userId": "guid",
  "userName": "Jan",
  "email": "user@example.com",
  "companyId": 10,
}
```

2. Bicycles (Create, Get by ID, Attach CicoShield, Update Bike Status, Search, Search by CicoShield Code)

POST /api/bike-vaults

Parameter	Type	Required	Description
frameNumber	string	yes	Bike frame number
brand	string	yes	Bike brand
color	string	yes	Bike color
type	string	yes	Bike type
audience	string	yes	Target audience
salePrice	number	no	Sale price
model	string	no	Bike model
frameHeight	string	no	Frame height
frameMaterial	string	no	Frame material

frameColor	string	no	Frame color
gearType	string	no	Gear type
gears	int	no	Number of gears
wheelSize	string	no	Wheel size
driveType	string	no	Drive type
propulsionType	string	no	Propulsion type
images	array	no	List of bike images

Response

```
{
  "id": 101,
  "frameNumber": "FR123456",
  "brand": "Batavus",
  "type": "E-bike",
  "audience": "Men",
  "color": "Black",
  "model": "Finez E-Go",
  "year": 2024,
  "frameHeight": "53",
  "frameMaterial": "Aluminium",
  "frameColor": "Black",
  "gearType": "Derailleur",
  "gears": 10,
  "wheelSize": "28",
  "driveType": "Chain",
  "propulsionType": "Manual",
  "images": [
    {
      "name": "bike1.jpg",
      "url": "https://api.cicopass.com/images/bike1.jpg"
    }
  ],
  "createdAt": "2026-01-01T12:00:00Z"
}
```

GET /api/bike-vaults/{id}

Parameter	Type	Required	Description
id	int	yes	Bike ID

Response

```
{
  "id": 101,
  "frameNumber": "FR123456",
  "brand": "Batavus",
  "type": "E-bike",
  "audience": "Men",
  "color": "Black",
  "model": "Finez E-Go",
  "year": 2024,
  "frameHeight": "53",
  "frameMaterial": "Aluminium",
  "frameColor": "Black",
  "gearType": "Derailleur",
  "gears": 10,
  "wheelSize": "28",
  "driveType": "Chain",
  "propulsionType": "Manual",
  "images": [
    {
      "name": "bike1.jpg",
      "url": "https://api.cicopass.com/images/bike1.jpg"
    }
  ],
  "createdAt": "2026-01-01T12:00:00Z"
}
```

POST /api/bike-vaults/link-shield

```
{
  "bikeId": 101,
  "shieldCode": "CICO-123456789"
}
```

Response

```
{
  "status": true,
  "message": "Shield successfully linked to bike",
  "bikeId": 101,
  "shieldCode": "CICO-123456789"
}
```

Put /api/bike-vaults/update-status/{id} (STOLEN)

```
{
  "status": "Stolen",
  "notes": "Bike stolen near station",
  "stolenPlaceTitle": "Central Station",
  "stolenPlaceLocation": "Amsterdam",
  "stolenDateTime": "2025-02-10T12:00:00Z",
  "isPoliceReported": true,
  "policeReportNumber": "POL123456",
  "isInsured": true,
  "insuranceCompany": "ABC Insurance"
}
```

PUT /api/bike-vaults/update-status/{id} (FOUND)

```
{
  "status": "Found",
  "notes": "Bike recovered by police",
  "foundPlaceTitle": "City Park",
  "foundPlaceLocation": "Amsterdam",
  "foundDateTime": "2025-02-12T10:00:00Z",
  "foundBy": "Police"
}
```

POST /api/bike-vaults/search (search with multiple parameters)

Parameter	Type	Required	Description
frameNumber	string	no	Frame number
brand	string	no	Bike brand
color	string	no	Bike color
fromDate	datetime	no	Start date
toDate	datetime	no	End date

Response

```
[
  {
    "id": 101,
    "frameNumber": "FR123456",
    "brand": "Batavus",
    "color": "Black",
    "model": "Finez E-Go",
    "year": "2024",
    "currentStatus": "Stolen",
    "ownerId": "guid",

    "statusHistory": [
      {
        "status": "Registered",
        "changedOn": "2025-01-01T10:00:00Z",
        "notes": "Bike registered"
      },
      {
        "status": "Stolen",
        "changedOn": "2025-02-10T14:30:00Z",
        "notes": "Reported stolen",
        "stolenPlaceTitle": "City Center",
        "stolenPlaceLocation": "Amsterdam",
        "stolenDateTime": "2025-02-10T12:00:00Z",
        "isPoliceReported": true,
        "policeReportNumber": "POL123456",
        "isInsured": true,
        "insuranceCompany": "ABC Insurance"
      }
    ],

    "images": [
      {
        "name": "bike1.jpg",
        "url": "https://api.cicopass.com/images/bike1.jpg"
      }
    ]
  }
]
```

GET /api/bike-vaults/by-Shield/{Shield-code}

Parameter	Type	Required	Description
Shield	string	yes	Cicopass Shield code

Response will be same as above.

3.Orders (Create, Get)

POST /api/orders

Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

Content-Type: application/json

Request (Body)

```
{
  "paymentMethod": "Invoice",
  "orderItems": [
    {
      "productName": "Cicopass BikeShield",
      "price": 5,
      "quantity": 50
    }
  ]
}
```

Response

```
{
  "orderId": 5001,
  "orderNumber": "CP-2026-0001",
  "status": "Created",
  "paymentStatus": "Pending",
  "total": 250.00,
  "orderDate": "2026-01-01T12:00:00Z"
}
```

GET /api/orders

Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

Response

```
[
  {
    "orderId": 5001,
    "orderNumber": "CP-2026-0001",
    "orderDate": "2026-01-01T12:00:00Z",
    "paymentMethod": "Invoice",
    "paymentStatus": "Pending",
    "orderStatus": "Created",
    "total": 250.00,

    "orderItems": [
      {
        "productName": "Cicopass BikeShield",
        "price": 5.00,
        "quantity": 50,
        "total": 250.00
      }
    ]
  },
  {
    "orderId": 5002,
    "orderNumber": "CP-2026-0002",
    "orderDate": "2026-01-05T10:30:00Z",
    "paymentMethod": "Invoice",
    "paymentStatus": "Paid",
    "orderStatus": "Completed",
    "total": 100.00,

    "orderItems": [
      {
        "productName": "Cicopass BikeShield",
        "price": 5.00,
        "quantity": 20,
        "total": 100.00
      }
    ]
  }
]
```

