

# API Contract Documentation

## Digital Forensics Analysis Platform - Backend API

**Version:** 1.0.0  
**Base URL:** http://localhost:8000/api/v1  
**API Version:** /api/v1

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### Authentication

#### Overview

All protected endpoints require Bearer Token authentication. Token is obtained from the login endpoint.

#### Headers

```
Authorization: Bearer <access_token>
Content-Type: application/json
```

#### Login

**Endpoint:** POST /api/v1/auth/login

**Description:** Authenticate user and get access token.

**Request Body:**

```
{
  "email": "admin@gmail.com",
  "password": "admin.admin"
}
```

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Login successful",
  "data": {
    "user": {
      "id": 1,
      "email": "admin@gmail.com",
      "fullname": "Admin Forensic",
      "tag": "Admin",
      "role": "admin"
    },
    "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
  }
}
```

**Error Responses:**

**401 Unauthorized (Invalid Credentials):**

```
{
  "status": 401,
  "message": "Invalid credentials",
  "data": null
}
```

**400 Bad Request (Validation Error):**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## Logout

**Endpoint:** POST /api/v1/auth/logout

**Description:** Logout user and revoke access token.

**Headers:** Authorization: Bearer <access\_token>

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Logout successful. Access token revoked.",
  "data": null
}
```

**Error Responses:**

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## Create User (Admin Only)

**Endpoint:** POST /api/v1/auth/create-user

**Description:** Create a new user. Only admin can access this endpoint.

**Headers:**

- Authorization: Bearer <admin\_access\_token>
- Content-Type: application/json

Request Body:

```
{
  "email": "newuser@example.com",
  "password": "password123",
  "fullname": "New User",
  "tag": "Investigator"
}
```

Request Body Fields:

Field	Type	Required	Description	Validation
email	string	Yes	User email address	Must be valid email format
password	string	Yes	User password	Minimum 8 characters, maximum 128 characters
fullname	string	Yes	User full name	-
tag	string	Yes	User tag/category	Options: "Admin", "Investigator", "Ahli Forensic", or other tags

Note:

- confirm\_password field is **NOT** sent to the API. It's only used for frontend validation to ensure password matches.
- The role is automatically mapped from the tag field (see mapping below).

Tag to Role Mapping:

- "Admin" → role: "admin"
- "Investigator" → role: "user"
- "Ahli Forensic" → role: "user"
- Other tags → role: "user" (default)

Response (201 Created):

```
{
  "status": 201,
  "message": "User created successfully",
  "data": {
    "id": 4,
    "email": "newuser@example.com",
    "fullname": "New User",
    "tag": "Investigator",
    "role": "user",
    "is_active": true,
    "created_at": "2025-01-15T10:30:00Z"
  }
}
```

Error Responses:

400 Bad Request (Invalid Input):

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

409 Conflict (Email Already Exists):

```
{
  "status": 409,
  "message": "User with this email already exists",
  "data": null
}
```

#### 403 Forbidden (Not Admin):

```
{
  "status": 403,
  "message": "Access denied. Admin role required.",
  "data": null
}
```

#### Example Request (cURL):

```
curl -X POST "http://localhost:8000/api/v1/auth/create-user" \
-H "Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..." \
-H "Content-Type: application/json" \
-d '{
  "email": "investigator@example.com",
  "password": "securepass123",
  "fullname": "John Investigator",
  "tag": "Investigator"
}'
```

#### Example Request (Postman):

1. Method: POST
2. URL: `http://localhost:8000/api/v1/auth/create-user`
3. Headers:
  - Authorization: Bearer {admin\_token}
  - Content-Type: application/json
4. Body (raw JSON):

```
{
  "email": "investigator@example.com",
  "password": "securepass123",
  "fullname": "John Investigator",
  "tag": "Investigator"
}
```

#### Form Fields Mapping (UI to API):

The "Add User" form in the UI contains the following fields:

UI Field	API Field	Required	Notes
Name	fullname	Yes	User's full name
Email	email	Yes	Must be valid email format
Password	password	Yes	Min 8 chars, max 128 chars
Confirm Password	-	No	Frontend validation only, <b>NOT sent to API</b>
Tag (dropdown)	tag	Yes	Select from: "Admin", "Investigator", "Ahli Forensic"

#### Frontend Validation (Before API Call):

- ☐ password and confirm\_password must match
- ☐ email must be valid email format
- ☐ password must be at least 8 characters
- ☐ All required fields must be filled

#### Backend Validation:

- ☐ Email format validation
- ☐ Password length: 8-128 characters
- ☐ Email uniqueness check

- `is_admin` Admin role check (only admin can create users)

## Get All Users (Admin Only)

**Endpoint:** `GET /api/v1/auth/get-all-users`

**Description:** Get paginated list of all users. Only admin can access this endpoint. **Results are sorted by newest first (descending order by ID or created\_at).**

**Headers:** Authorization: Bearer <admin\_access\_token>

**Query Parameters:**

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in name, email)
tag	string	No	-	Filter by tag: "Admin", "Investigator", "Ahli Forensic"

**Sorting:**

- Results are sorted by **ID descending** (newest first, oldest last)
- First item in the array is the most recently created user
- Last item in the array is the oldest user

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Users retrieved successfully",
  "data": [
    {
      "id": 3,
      "email": "ahliforensic@gmail.com",
      "fullname": "Ahli Forensic",
      "tag": "Ahli Forensic",
      "role": "user",
      "is_active": true,
      "created_at": "2025-11-06T18:50:13.382112Z"
    },
    {
      "id": 2,
      "email": "investigator@gmail.com",
      "fullname": "Investigator",
      "tag": "Investigator",
      "role": "user",
      "is_active": true,
      "created_at": "2025-11-06T18:50:13.382105Z"
    },
    {
      "id": 1,
      "email": "admin@gmail.com",
      "fullname": "Admin Forensic",
      "tag": "Admin",
      "role": "admin",
      "is_active": true,
      "created_at": "2025-11-06T18:50:13.381972Z"
    }
  ],
  "total": 3,
  "page": 1,
  "size": 10
}
```

**Note:** Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama).

#### Error Responses:

##### 403 Forbidden (Not Admin):

```
{
  "status": 403,
  "message": "Access denied. Admin role required.",
  "data": null
}
```

#### Example Requests:

```
GET /api/v1/auth/get-all-users?skip=0&limit=10
GET /api/v1/auth/get-all-users?search=investigator
GET /api/v1/auth/get-all-users?tag=Admin&limit=20
GET /api/v1/auth/get-all-users?skip=10&limit=5&search=admin
```

---

## 🔒 Case Management

### Base Path

/api/v1/cases

#### 1. Get Case Summary (Dashboard Statistics)

**Endpoint:** GET /api/v1/cases/statistics/summary

**Description:** Get summary statistics of cases by status (Open, Closed, Reopen, Investigating).

**Headers:** Authorization: Bearer <access\_token>

##### Response (200 OK):

```
{
  "status": 200,
  "message": "Statistics retrieved successfully",
  "data": {
    "open_cases": 21,
    "closed_cases": 21,
    "reopen_cases": 21,
    "investigating_cases": 21
  },
  "total_cases": 63
}
```

#### Error Responses:

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 2. Get All Cases

**Endpoint:** GET /api/v1/cases/get-all-cases

**Description:** Get paginated list of cases with search and filter support. Results are filtered based on user role (RBAC). **Results are sorted by newest first (descending order by ID).**

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in title, investigator, agency)
status	string	No	-	Filter by status: "Open" , "Closed" , "Reopen" , "Investigating"

**Sorting:**

- Results are sorted by **ID descending** (newest first, oldest last)
- First item in the array is the most recently created case
- Last item in the array is the oldest case

**RBAC Behavior:**

- **Admin:** Sees all cases
- **User:** Only sees cases where main\_investigator matches their fullname

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Cases retrieved successfully",
  "data": [
    {
      "id": 53,
      "case_number": "34214286",
      "title": "Latest Case",
      "description": "Most recently created case",
      "status": "Open",
      "main_investigator": "Solehun",
      "agency_name": "Trikora",
      "work_unit_name": "Direktorat Reserse Kriminal Umum",
      "created_at": "15/01/2026",
      "updated_at": "2026-01-15T10:30:00Z"
    },
    {
      "id": 52,
      "case_number": "34214285",
      "title": "Second Latest Case",
      "description": "Second most recently created case",
      "status": "Open",
      "main_investigator": "Agus Smith",
      "agency_name": "Police HQ",
      "work_unit_name": null,
      "created_at": "14/01/2026",
      "updated_at": "2026-01-14T11:00:00Z"
    },
    {
      "id": 1,
      "case_number": "34214234",
      "title": "Buronan Maroko Interpol",
      "description": "Investigasi kasus buronan internasional",
      "status": "Open",
      "main_investigator": "Solehun",
      "agency_name": "Trikora",
      "work_unit_name": "Direktorat Reserse Kriminal Umum",
      "created_at": "12/12/2025",
      "updated_at": "2025-12-12T10:30:00Z"
    }
  ],
  "total": 53,
  "page": 1,
  "size": 10
}
```

#### Note:

- Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama)
- Case dengan id: 53 adalah yang terbaru (muncul pertama)
- Case dengan id: 1 adalah yang terlama (muncul terakhir)

#### Example Requests:

```
GET /api/v1/cases/get-all-cases?skip=0&limit=5
GET /api/v1/cases/get-all-cases?search=Buronan
GET /api/v1/cases/get-all-cases?status=Open&limit=20
GET /api/v1/cases/get-all-cases?skip=10&limit=5&search=Maroko&status=Open
```

#### Error Responses:

##### 401 Unauthorized:



```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

### 3. Get Case Detail Comprehensive

**Endpoint:** GET /api/v1/cases/get-case-detail-comprehensive

**Description:** Get comprehensive details of a specific case including persons of interest, case logs, and notes.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
case_id	integer	Yes	Unique case identifier

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Case detail retrieved successfully",
  "data": {
    "case": {
      "id": 1,
      "case_number": "34214234",
      "title": "Buronan Maroko Interpol",
      "description": "Tersangka diduga terlibat dalam kasus perdagangan narkoba lintas negara...",
      "status": "Open",
      "case_officer": "Solehun",
      "agency": "Trikora",
      "work_unit": "Dirjen Imigrasi IV",
      "created_date": "20/12/2025"
    },
    "persons_of_interest": [
      {
        "id": 1,
        "name": "Mandeep Singh",
        "person_type": "Suspect",
        "analysis": [
          {
            "evidence_id": "342344442",
            "summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025...",
            "status": "Analysis"
          }
        ]
      },
      {
        "id": 2,
        "name": "Nathalie",
        "person_type": "Witness",
        "analysis": []
      }
    ]
  }
}
```

```

"case_log": [
  {
    "id": 1,
    "case_id": 1,
    "action": "Open",
    "changed_by": "",
    "change_detail": "",
    "notes": "",
    "status": "Open",
    "created_at": "2025-05-09T18:00:00Z"
  },
  {
    "id": 2,
    "case_id": 1,
    "action": "Edit",
    "changed_by": "Wisnu",
    "change_detail": "Adding person Nathalie",
    "notes": "",
    "status": "Open",
    "created_at": "2025-05-16T12:00:00Z"
  }
],
"notes": [
  {
    "timestamp": "20 Dec 2025, 14:30",
    "status": "Active",
    "content": "Dokumentasi detail, isolasi jaringan, serta pencatatan chain of custody sangat penting..."
  }
],
"summary": {
  "total_persons": 2,
  "total_evidence": 3,
  "total_case_log": 5,
  "total_notes": 1
}
}

```

#### Error Responses:

##### 404 Not Found:

```

{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}

```

##### 401 Unauthorized:

```

{
  "status": 401,
  "message": "Invalid token",
  "data": null
}

```

##### 500 Internal Server Error:

```

{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}

```

## 4. Create Case

**Endpoint:** POST /api/v1/cases/create-case

**Description:** Create a new case. Case number can be auto-generated or manually provided.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body:**

```
{
  "title": "Buronan Maroko Interpol",
  "description": "Investigasi kasus buronan internasional",
  "main_investigator": "Solehun",
  "agency_name": "Trihora",
  "work_unit_name": "Direktorat Reserse Kriminal Umum",
  "case_type": "Criminal",
  "priority": "High",
  "auto_generate_case_number": true
}
```

**OR (Manual Case Number):**

```
{
  "title": "Buronan Maroko Interpol",
  "description": "Investigasi kasus buronan internasional",
  "main_investigator": "Solehun",
  "agency_name": "Trihora",
  "work_unit_name": "Direktorat Reserse Kriminal Umum",
  "case_number": "REG/123/2024/DRKUM"
}
```

**Response (201 Created):**

```
{
  "status": 201,
  "message": "Case created successfully",
  "data": {
    "id": 1,
    "case_number": "BUR-121225-0001",
    "title": "Buronan Maroko Interpol",
    "description": "Investigasi kasus buronan internasional",
    "status": "Open",
    "main_investigator": "Solehun",
    "agency_name": "Trihora",
    "work_unit_name": "Direktorat Reserse Kriminal Umum",
    "created_at": "2025-12-12T10:30:00Z",
    "updated_at": "2025-12-12T10:30:00Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**409 Conflict (Case Number Already Exists):**

```
{
  "status": 409,
  "message": "Case number 'REG/123/2024/DRKUM' already exists",
  "data": null
}
```

#### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

#### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 5. Update Case

**Endpoint:** PUT /api/v1/cases/update-case

**Description:** Update an existing case. All fields are optional (partial update).

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body (all fields optional, but case\_id is required):**

```
{
  "case_id": 1,
  "title": "Updated Case Title",
  "description": "Updated description",
  "status": "Closed",
  "main_investigator": "New Investigator",
  "agency_name": "New Agency",
  "work_unit_name": "New Work Unit"
}
```

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Case updated successfully",
  "data": {
    "id": 1,
    "case_number": "34214234",
    "title": "Updated Case Title",
    "description": "Updated description",
    "status": "Closed",
    "main_investigator": "New Investigator",
    "agency_name": "New Agency",
    "work_unit_name": "New Work Unit",
    "created_at": "2025-12-12T10:30:00Z",
    "updated_at": "2025-12-12T15:00:00Z"
  }
}
```

**Error Responses:**

#### 400 Bad Request:

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

#### 404 Not Found:

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

#### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

#### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 6. Delete Case

**Endpoint:** DELETE /api/v1/cases/delete-case

**Description:** Delete a case and all related data (logs, notes, persons).

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
case_id	integer	Yes	Unique case identifier

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Case deleted successfully"
}
```

**Error Responses:**

**404 Not Found:**

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

#### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 7. Export Case Details PDF

**Endpoint:** GET /api/v1/cases/export-case-details-pdf

**Description:** Export comprehensive case details as PDF document. Includes case information, persons of interest, case logs, and notes.

**Headers:** Authorization: Bearer <access\_token>

#### Query Parameters:

Parameter	Type	Required	Description
case_id	integer	Yes	Unique case identifier

#### Response (200 OK):

- **Content-Type:** application/pdf
- **Content-Disposition:** attachment; filename="case\_details\_{case\_id}\_{timestamp}.pdf"

The response is a PDF file that can be downloaded directly.

#### Error Responses:

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

#### Example Request:

```
GET /api/v1/cases/export-case-details-pdf?case_id=1
Authorization: Bearer {access_token}
```

---

## 8. Save Case Summary

**Endpoint:** POST /api/v1/cases/save-summary

**Description:** Save or update summary for a specific case.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body:**

```
{
  "case_id": 1,
  "summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025, tersangka terlihat memasuki gedung pada pukul 14:30 WIB. Investiga
}
```

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Case summary saved successfully",
  "data": {
    "case_id": 1,
    "case_number": "34214234",
    "case_title": "Buronan Maroko Interpol",
    "summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025, tersangka terlihat memasuki gedung pada pukul 14:30 WIB. Investi
    "updated_at": "2025-12-20T14:30:00Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Summary cannot be empty",
  "data": null
}
```

**404 Not Found:**

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Failed to save case summary: {error_message}",
  "data": null
}
```

# 🔍 Evidence Management

## Base Path

/api/v1/evidence

### 1. Get Evidence List

**Endpoint:** GET /api/v1/evidence/get-evidence-list

**Description:** Get paginated list of evidences with search and filter support. **Results are sorted by newest first (descending order by ID).**

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in evidence ID, case name, investigator, agency)
status	string	No	-	Filter by status
evidence_type_id	integer	No	-	Filter by evidence type ID

**Sorting:**

- Results are sorted by **ID descending** (newest first, oldest last)
- First item in the array is the most recently created evidence
- Last item in the array is the oldest evidence

**Response (200 OK):**



```

{
  "status": 200,
  "message": "Evidence list retrieved successfully",
  "data": [
    {
      "id": 5,
      "evidence_id": "34569809",
      "evidence_number": "EVID-005",
      "case_name": "Data Leak",
      "investigator": "Solehun",
      "agency": "Trihora",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T10:30:00Z"
    },
    {
      "id": 4,
      "evidence_id": "34569809",
      "evidence_number": "EVID-004",
      "case_name": "Data Leak",
      "investigator": "Solehun",
      "agency": "Trihora",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T09:30:00Z"
    },
    {
      "id": 2,
      "evidence_id": "12339813",
      "evidence_number": "EVID-002",
      "case_name": "Illegal Drone Flight",
      "investigator": "Agus Smith",
      "agency": "Police HQ",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T08:30:00Z"
    },
    {
      "id": 1,
      "evidence_id": "12336728",
      "evidence_number": "EVID-001",
      "case_name": "Illegal Drone Flight",
      "investigator": "Agus Smith",
      "agency": "Police HQ",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T07:30:00Z"
    }
  ],
  "total": 21,
  "page": 1,
  "size": 10
}

```

#### Note:

- Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama)
- Evidence dengan `id: 5` adalah yang terbaru (muncul pertama)
- Evidence dengan `id: 1` adalah yang terlama (muncul terakhir)
- Field `date_created` menggunakan format `DD/MM/YYYY` untuk tampilan UI

#### Example Requests:

```
GET /api/v1/evidence/get-evidence-list?skip=0&limit=10
GET /api/v1/evidence/get-evidence-list?search=Data%20Leak
GET /api/v1/evidence/get-evidence-list?status=Collected&limit=20
GET /api/v1/evidence/get-evidence-list?skip=10&limit=5&search=Agus
```

#### Error Responses:

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 2. Create Evidence

**Endpoint:** POST /api/v1/evidence/create-evidence

**Description:** Create a new evidence item and associate it with a case.

#### Headers:

- Authorization: Bearer <access\_token>
- Content-Type: application/json

#### Request Body:

```
{
  "case_id": 1,
  "evidence_id": "32342223",
  "evidence_number": "EVID-001",
  "title": "Handphone A",
  "description": "Smartphone dari tersangka",
  "evidence_type_id": 1,
  "status": "Collected",
  "source": "Handphone",
  "hash_value": "sha256:abcdef12345...",
  "file_path": "/data/evidence/evidence_001.zip"
}
```

#### Response (201 Created):

```
{
  "status": 201,
  "message": "Evidence created successfully",
  "data": {
    "case_id": 1,
    "evidence_id": "32342223",
    "evidence_number": "EVID-001",
    "title": "Handphone A",
    "description": "Smartphone dari tersangka",
    "status": "Collected",
    "source": "Handphone"
  }
}
```

**Note:** This endpoint automatically creates a case log entry when evidence is added.

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**404 Not Found (Case not found):**

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

### 3. Get Evidence Details by ID

**Endpoint:** GET /api/v1/evidence/get-evidence-by-id

**Description:** Get comprehensive details of a specific evidence item including summary, chain of custody, investigation hypothesis, tools used, and analysis results.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Evidence retrieved successfully",
  "data": {
    "id": 1,
    "evidence_id": "32342223",
    "evidence_number": "EVID-001",
    "title": "Handphone A",
    "description": "Smartphone dari tersangka",
    "status": "Collected",
    "source": "Handphone",
    "investigator": "Solehun",
    "date_created": "20/12/2025",
    "person related": "Dwikv".
  }
}
```

```
person_id": "123456",
"case_related": "Buronan Maroko Interpol",
"case_id": 1,
"evidence_type": "File",
"evidence_detail": "081902938201",
"created_at": "2025-12-20T10:00:00Z",
"updated_at": "2025-12-20T10:00:00Z",
"summary": {
  "id": "33242352",
  "thumbnail": "/data/thumbnails/evidence_1_map.png",
  "text": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian."
},
"chain_of_custody": {
  "acquisition": {
    "date": "16 Mei 2025, 12:00",
    "investigator": "Solehun",
    "location": "Bandara Soekarno Hatta Terminal 1",
    "status": "Recorded"
  },
  "preparation": {
    "date": "16 Mei 2025, 14:00",
    "investigator": "Solehun",
    "location": "Forensic Lab",
    "status": "Recorded"
  },
  "extraction": {
    "date": "17 Mei 2025, 10:00",
    "investigator": "Solehun",
    "location": "Forensic Lab",
    "status": "Recorded"
  },
  "analysis": {
    "date": "18 Mei 2025, 15:00",
    "investigator": "Solehun",
    "location": "Forensic Lab",
    "status": "Recorded"
  }
},
"current_stage": {
  "stage": "Preparation",
  "location": "Bandara Soekarno Hatta Terminal 1",
  "investigation_hypothesis": [
    "1. Perangkat seluler tersangka kemungkinan besar menyimpan data GPS yang menunjukkan lokasi pada saat kejadian",
    "2. Data GPS dapat digunakan untuk membuktikan keberadaan tersangka di TKP",
    "3. Perangkat seluler mungkin terhubung dengan perangkat lain yang relevan dengan kasus"
  ],
  "tools_used": [
    "Google Earth",
    "Axiom Magnet Forensics",
    "Power BI"
  ],
  "extraction_results": {
    "file_name": "Handphone A",
    "file_size": "67 Gb",
    "file_path": "/data/extractions/evidence_1_extraction.zip"
  },
  "analysis_results": {
    "hypothesis": "Menemukan hubungan tersangka dengan temannya.",
    "result": "Tersangka terkait dengan suspect A, B, dan C.",
    "report_file": {
      "file_name": "PDF Report",
      "file_size": "14 Mb",
      "file_path": "/data/reports/evidence_1_analysis.pdf"
    }
  },
  "notes": "Penting untuk memastikan dokumentasi lengkap dan chain of custody yang jelas untuk menjaga integritas bukti digital.
```

```
    },
    "gallery": [
      {
        "id": 1,
        "url": "/data/gallery/evidence_1_photo1.jpg",
        "thumbnail": "/data/gallery/thumbnails/evidence_1_photo1_thumb.jpg",
        "description": "Evidence bag sealed"
      },
      {
        "id": 2,
        "url": "/data/gallery/evidence_1_photo2.jpg",
        "thumbnail": "/data/gallery/thumbnails/evidence_1_photo2_thumb.jpg",
        "description": "Device in evidence bag"
      }
    ]
  }
}
```

#### Error Responses:

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 4. Log Custody Event

**Endpoint:** POST /api/v1/evidence/custody-events

**Description:** Log a chain of custody event for an evidence item.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body** (all fields required, including `evidence_id`):

```
{
  "evidence_id": 1,
  "event_type": "Acquisition",
  "event_date": "2025-05-16T12:00:00Z",
  "person_name": "Solehan",
  "person_title": "Investigator",
  "person_id": 1,
  "location": "Bandara Soekarno Hatta Terminal 1",
  "location_type": "Airport",
  "action_description": "Seizure of evidence",
  "tools_used": "Evidence bag, Camera",
  "conditions": "Perangkat seluler tidak tersambung ke internet",
  "duration": "2 hours",
  "transferred_to": "Forensic Lab",
  "transferred_from": "Crime Scene",
  "transfer_reason": "For analysis",
  "witness_name": "John Doe",
  "witness_signature": "signature_hash",
  "verification_method": "Digital signature",
  "created_by": "admin@gmail.com",
  "notes": "Evidence properly sealed and documented"
}
```

#### Response (201 Created):

```
{
  "status": 201,
  "message": "Custody event logged successfully",
  "data": {
    "evidence_id": 1,
    "event_type": "Acquisition",
    "event_date": "2025-05-16T12:00:00Z",
    "person_name": "Solehan",
    "location": "Bandara Soekarno Hatta Terminal 1",
    "action_description": "Seizure of evidence",
    "is_immutable": true,
    "is_verified": false,
    "log_hash": "sha256_hash_here",
    "created_at": "2025-05-16T12:00:00Z"
  }
}
```

#### Error Responses:

##### 400 Bad Request:

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 5. Get Custody Chain

**Endpoint:** GET /api/v1/evidence/custody-chain

**Description:** Get complete chain of custody for an evidence item.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

**Response (200 OK):**

```
{
  "evidence_id": 1,
  "evidence_number": "EVID-001",
  "evidence_title": "Handphone A",
  "custody_chain": [
    {
      "id": 1,
      "evidence_id": 1,
      "event_type": "Acquisition",
      "event_date": "2025-05-16T12:00:00Z",
      "person_name": "Solehan",
      "location": "Bandara Soekarno Hatta Terminal 1",
      "action_description": "Seizure of evidence",
      "tools_used": "Evidence bag, Camera",
      "is_verified": false,
      "created_at": "2025-05-16T12:00:00Z"
    },
    {
      "id": 2,
      "evidence_id": 1,
      "event_type": "Preparation",
      "event_date": "2025-05-16T14:00:00Z",
      "person_name": "Solehan",
      "location": "Forensic Lab",
      "action_description": "Evidence preparation",
      "tools_used": "Write blocker",
      "is_verified": true,
      "created_at": "2025-05-16T14:00:00Z"
    }
  ],
  "chain_integrity": true,
  "total_events": 2,
  "first_event": { /* first event object */ },
  "last_event": { /* last event object */ }
}
```

#### Error Responses:

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 6. Get Custody Events



**Endpoint:** GET /api/v1/evidence/custody-events

**Description:** Get paginated list of custody events for an evidence item.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

**Query Parameters:**

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip
limit	integer	No	50	Number of records per page (max: 100)
event_type	string	No	-	Filter by event type

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Custody events retrieved successfully",
  "data": [
    {
      "id": 1,
      "evidence_id": 1,
      "event_type": "Acquisition",
      "event_date": "2025-05-16T12:00:00Z",
      "person_name": "Solehan",
      "location": "Bandara Soekarno Hatta Terminal 1",
      "action_description": "Seizure of evidence",
      "tools_used": "Evidence bag, Camera",
      "is_verified": false,
      "created_at": "2025-05-16T12:00:00Z"
    }
  ],
  "total": 5,
  "page": 1,
  "size": 50
}
```

**Error Responses:**

**404 Not Found:**

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 7. Update Custody Event

**Endpoint:** PUT /api/v1/evidence/custody-events

**Description:** Update a custody event (limited fields, maintains immutability).

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body** (all fields optional, but `evidence_id` and `custody_id` are required):

```
{
  "evidence_id": 1,
  "custody_id": 1,
  "is_verified": true,
  "notes": "Updated notes"
}
```

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Custody event updated successfully",
  "data": {
    "id": 1,
    "evidence_id": 1,
    "updated_fields": {
      "is_verified": true,
      "notes": "Updated notes"
    }
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**404 Not Found:**

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found or Custody event with ID {custody_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

#### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 8. Generate Custody Report

**Endpoint:** POST /api/v1/evidence/custody-report

**Description:** Generate a custody report (PDF) for an evidence item.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body (all fields required, including evidence\_id):**

```
{
  "evidence_id": 1,
  "report_type": "Full Chain of Custody",
  "report_title": "Evidence Custody Report - EVID-001",
  "report_description": "Complete chain of custody documentation",
  "compliance_standard": "ISO 27037",
  "generated_by": "admin@gmail.com"
}
```

**Response (201 Created):**

```
{
  "status": 201,
  "message": "Custody report generated successfully",
  "data": {
    "evidence_id": 1,
    "report_type": "Full Chain of Custody",
    "report_title": "Evidence Custody Report - EVID-001",
    "report_file_path": "/data/reports/custody_evidence_1_20250115_143022.pdf",
    "is_verified": false,
    "generated_date": "2025-01-15T14:30:22Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**404 Not Found:**

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

#### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

#### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 10. Get Evidence Types

**Endpoint:** GET /api/v1/evidence/types

**Description:** Get list of available evidence types (for dropdown selection in forms).

**Headers:** Authorization: Bearer <access\_token>

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Evidence types retrieved successfully",
  "data": [
    {
      "id": 1,
      "name": "File"
    },
    {
      "id": 2,
      "name": "Device"
    },
    {
      "id": 3,
      "name": "Document"
    },
    {
      "id": 4,
      "name": "Image"
    },
    {
      "id": 5,
      "name": "Video"
    }
  ]
}
```

#### Error Responses:

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 11. Get Evidence Sources

**Endpoint:** GET /api/v1/evidence/sources

**Description:** Get list of available evidence sources (for dropdown selection in forms).

**Headers:** Authorization: Bearer <access\_token>

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Evidence sources retrieved successfully",
  "data": [
    {
      "id": 1,
      "name": "Handphone"
    },
    {
      "id": 2,
      "name": "CCTV"
    },
    {
      "id": 3,
      "name": "Computer"
    },
    {
      "id": 4,
      "name": "Server"
    },
    {
      "id": 5,
      "name": "Network Device"
    }
  ]
}
```

**Error Responses:**

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 12. Export Evidence Details PDF

**Endpoint:** GET /api/v1/evidence/export-evidence-details-pdf

**Description:** Export comprehensive evidence details as PDF document. Includes evidence information, summary, chain of custody, investigation hypothesis, tools used, analysis results, and gallery.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

**Response (200 OK):**

- Content-Type:** application/pdf
- Content-Disposition:** attachment; filename="evidence\_details\_{evidence\_id}\_{timestamp}.pdf"

The response is a PDF file that can be downloaded directly.

**Error Responses:**

**404 Not Found:**

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

**Example Request:**

```
GET /api/v1/evidence/export-evidence-details-pdf/1
Authorization: Bearer {access_token}
```

**Note:** This endpoint generates a comprehensive PDF report including all evidence details, chain of custody stages (Acquisition, Preparation, Extraction, Analysis), investigation hypothesis, tools used, and analysis results.

## 13. Save Evidence Summary

**Endpoint:** POST /api/v1/evidence/save-summary

**Description:** Save or update summary for a specific evidence item.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body:**

```
{
  "evidence_id": 1,
  "summary": {
    "id": "33242352",
    "thumbnail": "/data/thumbnails/evidence_1_map.png",
    "text": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian."
  }
}
```

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Evidence summary saved successfully",
  "data": {
    "evidence_id": 1,
    "evidence_number": "EVID-001",
    "evidence_title": "Handphone A",
    "summary": {
      "id": "33242352",
      "thumbnail": "/data/thumbnails/evidence_1_map.png",
      "text": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian."
    },
    "updated_at": "2025-12-20T14:30:00Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Summary cannot be empty",
  "data": null
}
```

**404 Not Found:**

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Failed to save evidence summary: {error_message}",
  "data": null
}
```

## 🔐 Suspect Management (Person Management)

### Base Path

/api/v1/suspects (for Suspect Management endpoints)  
/api/v1/persons (for Person Management endpoints)

### 1. Get All Suspects

**Endpoint:** GET /api/v1/suspects/

**Description:** Get paginated list of suspects with search and filter support. **Results are sorted by newest first (descending order by ID).**

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in name, case name, investigator)
status	string	No	-	Filter by status: "Witness", "Reported", "Suspected", "Suspect", "Defendant"

**Sorting:**

- Results are sorted by **ID descending** (newest first, oldest last)
- First item in the array is the most recently created suspect
- Last item in the array is the oldest suspect

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Suspects retrieved successfully",
  "data": [
    {
      "id": 5,
      "name": "Kyle Reese",
      "case_name": "Ransomware",
      "investigator": "Solehun",
      "agency": "Trihora",
      "status": "Suspect",
      "date_of_birth": "1990-05-15",
      "place_of_birth": "Jakarta",
      "nationality": "Indonesian",
      "phone_number": "+628123456789",
      "email": "kyle@example.com",
      "address": "Jakarta, Indonesia",
      "height": 175,
      "weight": 70,
      "eye_color": "Brown",
      "hair_color": "Black",
      "distinguishing_marks": "Tattoo on left arm",
      "has_criminal_record": false,
    }
  ]
}
```



```
    "risk_level": "high",
    "is_confidential": false,
    "created_at": "2025-12-15T10:30:00Z",
    "updated_at": "2025-12-15T10:30:00Z"
  },
  {
    "id": 4,
    "name": "Sarah Connor",
    "case_name": "Malware Outbreak",
    "investigator": "Solehun",
    "agency": "Trikora",
    "status": "Defendant",
    "date_of_birth": "1985-08-20",
    "place_of_birth": "Bandung",
    "nationality": "Indonesian",
    "phone_number": "+628123456788",
    "email": "sarah@example.com",
    "address": "Bandung, Indonesia",
    "height": 165,
    "weight": 55,
    "eye_color": "Brown",
    "hair_color": "Brown",
    "distinguishing_marks": null,
    "has_criminal_record": true,
    "risk_level": "medium",
    "is_confidential": false,
    "created_at": "2025-12-14T09:20:00Z",
    "updated_at": "2025-12-14T09:20:00Z"
  },
  {
    "id": 3,
    "name": "Mike Ross",
    "case_name": "Phishing Attack",
    "investigator": "Solehun",
    "agency": "Trikora",
    "status": "Suspected",
    "date_of_birth": "1992-03-10",
    "place_of_birth": "Surabaya",
    "nationality": "Indonesian",
    "phone_number": "+628123456787",
    "email": "mike@example.com",
    "address": "Surabaya, Indonesia",
    "height": 180,
    "weight": 75,
    "eye_color": "Black",
    "hair_color": "Black",
    "distinguishing_marks": null,
    "has_criminal_record": false,
    "risk_level": "low",
    "is_confidential": false,
    "created_at": "2025-12-13T14:15:00Z",
    "updated_at": "2025-12-13T14:15:00Z"
  },
  {
    "id": 2,
    "name": "Jane Smith",
    "case_name": "Insider Threat",
    "investigator": "Solehun",
    "agency": "Trikora",
    "status": "Reported",
    "date_of_birth": "1988-11-25",
    "place_of_birth": "Yogyakarta",
    "nationality": "Indonesian",
    "phone_number": "+628123456786",
    "email": "jane@example.com",
    "address": "Yogyakarta, Indonesia"
```

```

    "address": "Regency 10, Indonesia",
    "height": 160,
    "weight": 50,
    "eye_color": "Brown",
    "hair_color": "Black",
    "distinguishing_marks": null,
    "has_criminal_record": false,
    "risk_level": "medium",
    "is_confidential": false,
    "created_at": "2025-12-12T11:00:00Z",
    "updated_at": "2025-12-12T11:00:00Z"
  },
  {
    "id": 1,
    "name": "John Doe",
    "case_name": "Data Breach",
    "investigator": "Solehun",
    "agency": "TriKora",
    "status": "Witness",
    "date_of_birth": "1995-01-01",
    "place_of_birth": "Medan",
    "nationality": "Indonesian",
    "phone_number": "+628123456785",
    "email": "john@example.com",
    "address": "Medan, Indonesia",
    "height": 170,
    "weight": 65,
    "eye_color": "Brown",
    "hair_color": "Black",
    "distinguishing_marks": null,
    "has_criminal_record": false,
    "risk_level": "low",
    "is_confidential": false,
    "created_at": "2025-12-11T08:00:00Z",
    "updated_at": "2025-12-11T08:00:00Z"
  }
],
"total": 21,
"page": 1,
"size": 10
}

```

#### Note:

- Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama)
- Suspect dengan `id: 5` adalah yang terbaru (muncul pertama)
- Suspect dengan `id: 1` adalah yang terlama (muncul terakhir)
- Status values: `"Witness"` (blue tag), `"Reported"` (yellow tag), `"Suspected"` (orange tag), `"Suspect"` (red tag), `"Defendant"` (dark red tag)

#### Example Requests:

```

GET /api/v1/suspects/?skip=0&limit=10
GET /api/v1/suspects/?search=John
GET /api/v1/suspects/?status=Suspect&limit=20
GET /api/v1/suspects/?skip=10&limit=5&search=Data%20Breach

```

#### Error Responses:

##### 401 Unauthorized:

```

{
  "status": 401,
  "message": "Invalid token",
  "data": null
}

```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 2. Create Suspect

**Endpoint:** POST /api/v1/suspects/create-suspect

**Description:** Create a new suspect record. Supports file upload for evidence files.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: multipart/form-data (when evidence file is included) or application/json

**Request Body (multipart/form-data or JSON):**

**Form Fields Mapping:**

UI Field	API Field	Type	Required	Description
Case Name (dropdown)	case_id	integer	Yes	Case ID selected from dropdown
Person of Interest (radio)	is_unknown	boolean	No	true for "Unknown Person", false for "Person Name" (default: false)
Person Name	name	string	Yes	Full name of the suspect
Status (dropdown)	status	string	Yes	Suspect status: "Witness", "Reported", "Suspected", "Suspect", "Defendant"
Evidence ID (radio: Generating)	evidence_id_generating	boolean	No	true if Evidence ID is auto-generated
Evidence ID (radio: Manual Input)	evidence_id_manual	boolean	No	true if Evidence ID is manually input
Evidence ID (text input)	evidence_id	string	No	Manual Evidence ID (required if evidence_id_manual is true)
Evidence Source (dropdown)	evidence_source	string	Yes	Evidence source (e.g., "Handphone", "CCTV")
Evidence (file upload)	evidence_file	file	No	Evidence file to upload

**Example Request (multipart/form-data):**

```
case_id: 1
is_unknown: false
name: "John Doe"
status: "Suspect"
evidence_id_generating: true
evidence_source: "Handphone"
evidence_file: [file]
```

**Example Request (JSON - without file upload):**

```
{
  "case_id": 1,
  "is_unknown": false,
  "name": "John Doe",
  "case_name": "Data Breach",
  "investigator": "Solehun",
  "status": "Suspect",
  "evidence_id": "32342223",
  "evidence_source": "Handphone",
  "date_of_birth": "1995-01-01",
  "place_of_birth": "Medan",
  "nationality": "Indonesian",
  "phone_number": "+628123456785",
  "email": "john@example.com",
  "address": "Medan, Indonesia",
  "height": 170,
  "weight": 65,
  "eye_color": "Brown",
  "hair_color": "Black",
  "has_criminal_record": false,
  "risk_level": "low"
}
```

**Note:**

- If `evidence_file` is provided, use `multipart/form-data` content type
- If `evidence_id_generating` is `true`, the system will auto-generate the Evidence ID
- If `evidence_id_manual` is `true`, the `evidence_id` field must be provided
- `case_id` is required and should be selected from the cases dropdown (use `GET /api/v1/cases/get-all-cases` to get available cases)
- `evidence_source` should be selected from evidence sources dropdown (use `GET /api/v1/evidence/sources` to get available sources)
- `status` should be selected from statuses dropdown (use `GET /api/v1/suspects/statuses` to get available statuses)

**Response (201 Created):**

```
{
  "status": 201,
  "message": "Suspect created successfully",
  "data": {
    "id": 6,
    "name": "John Doe",
    "case_name": "Data Breach",
    "investigator": "Solehun",
    "status": "Suspect",
    "created_at": "2025-12-16T10:00:00Z",
    "updated_at": "2025-12-16T10:00:00Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

### 3. Get Suspect by ID

**Endpoint:** GET /api/v1/suspects/get-suspect-by-id

**Description:** Get details of a specific suspect.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Suspect retrieved successfully",
  "data": {
    "id": 1,
    "name": "John Doe",
    "case_name": "Data Breach",
    "investigator": "Solehun",
    "status": "Witness",
    "date_of_birth": "1995-01-01",
    "place_of_birth": "Medan",
    "nationality": "Indonesian",
    "phone_number": "+628123456785",
    "email": "john@example.com",
    "address": "Medan, Indonesia",
    "height": 170,
    "weight": 65,
    "eye_color": "Brown",
    "hair_color": "Black",
    "distinguishing_marks": null,
    "has_criminal_record": false,
    "risk_level": "low",
    "is_confidential": false,
    "created_at": "2025-12-11T08:00:00Z",
    "updated_at": "2025-12-11T08:00:00Z"
  }
}
```

**Error Responses:**

**404 Not Found:**

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

4. Update Suspect

Endpoint: PUT /api/v1/suspects/update-suspect

Description: Update suspect information. Uses the same form as Create Suspect. All fields are optional (partial update). Supports file upload for evidence files.

Headers:

- Authorization: Bearer <access\_token>
- Content-Type: multipart/form-data (when evidence file is included) or application/json

Request Body (multipart/form-data or JSON - all fields optional, but suspect\_id is required):

Form Fields Mapping (same as Create Suspect):

UI Field	API Field	Type	Required	Description
Case Name (dropdown)	case_id	integer	No	Case ID selected from dropdown
Person of Interest (radio)	is_unknown	boolean	No	true for "Unknown Person", false for "Person Name"
Person Name	name	string	No	Full name of the suspect
Status (dropdown)	status	string	No	Suspect status: "Witness", "Reported", "Suspected", "Suspect", "Defendant"
Evidence ID (radio: Generating)	evidence_id_generating	boolean	No	true if Evidence ID is auto-generated
Evidence ID (radio: Manual Input)	evidence_id_manual	boolean	No	true if Evidence ID is manually input
Evidence ID (text input)	evidence_id	string	No	Manual Evidence ID (required if evidence_id_manual is true)
Evidence Source (dropdown)	evidence_source	string	No	Evidence source (e.g., "Handphone", "CCTV")
Evidence (file upload)	evidence_file	file	No	Evidence file to upload
Investigator	investigator	string	No	Investigator name
Date of Birth	date_of_birth	date	No	Date of birth (YYYY-MM-DD)
Place of Birth	place_of_birth	string	No	Place of birth
Nationality	nationality	string	No	Nationality
Phone Number	phone_number	string	No	Phone number
Email	email	string	No	Email address
Address	address	string	No	Address

Height UI Field	height API Field	integer Type	No Required	Height in cm Description
Weight	weight	integer	No	Weight in kg
Eye Color	eye_color	string	No	Eye color
Hair Color	hair_color	string	No	Hair color
Distinguishing Marks	distinguishing_marks	string	No	Distinguishing marks
Has Criminal Record	has_criminal_record	boolean	No	Has criminal record
Criminal Record Details	criminal_record_details	string	No	Criminal record details
Risk Level	risk_level	string	No	Risk level: "low", "medium", "high"
Risk Assessment Notes	risk_assessment_notes	string	No	Risk assessment notes
Is Confidential	is_confidential	boolean	No	Is confidential
Notes	notes	string	No	Additional notes

Example Request (multipart/form-data):

```
case_id: 1
is_unknown: false
name: "Updated Name"
status: "Defendant"
evidence_id_generating: true
evidence_source: "Handphone"
evidence_file: [file]
risk_level: "high"
notes: "Updated notes"
```

Example Request (JSON - without file upload):

```
{
  "suspect_id": 1,
  "case_id": 1,
  "is_unknown": false,
  "name": "Updated Name",
  "case_name": "Data Breach",
  "investigator": "Solehun",
  "status": "Defendant",
  "evidence_id": "32342223",
  "evidence_source": "Handphone",
  "date_of_birth": "1995-01-01",
  "place_of_birth": "Medan",
  "nationality": "Indonesian",
  "phone_number": "+628123456785",
  "email": "updated@example.com",
  "address": "Medan, Indonesia",
  "height": 170,
  "weight": 65,
  "eye_color": "Brown",
  "hair_color": "Black",
  "has_criminal_record": false,
  "risk_level": "high",
  "notes": "Updated notes"
}
```

Note:

- If evidence\_file is provided, use multipart/form-data content type
- All fields are optional (partial update)
- If evidence\_id\_generating is true, the system will auto-generate the Evidence ID

- If `evidence_id_manual` is true, the `evidence_id` field must be provided
- `case_id` should be selected from the cases dropdown (use `GET /api/v1/cases/get-all-cases` to get available cases)
- `evidence_source` should be selected from evidence sources dropdown (use `GET /api/v1/evidence/sources` to get available sources)
- `status` should be selected from statuses dropdown (use `GET /api/v1/suspects/statuses` to get available statuses)

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Suspect updated successfully",
  "data": {
    "id": 1,
    "name": "Updated Name",
    "status": "Defendant",
    "risk_level": "high",
    "updated_at": "2025-12-16T15:00:00Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**404 Not Found:**

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 5. Delete Suspect

**Endpoint:** `DELETE /api/v1/suspects/delete-suspect`

**Description:** Delete a suspect record.

**Headers:** `Authorization: Bearer <access_token>`

**Query Parameters:**

Parameter	Type	Required	Description
			Unique suspect



suspect_id	integer	Yes	identifier
Parameter	Type	Required	Description

Response (200 OK):

```
{
  "status": 200,
  "message": "Suspect deleted successfully"
}
```

Error Responses:

404 Not Found:

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 6. Get Suspect Statuses

Endpoint: GET /api/v1/suspects/statuses

Description: Get list of available suspect statuses (for dropdown selection in forms).

Headers: Authorization: Bearer <access\_token>

Response (200 OK):

```
{
  "status": 200,
  "message": "Suspect statuses retrieved successfully",
  "data": [
    {
      "value": "Witness",
      "label": "Witness",
      "color": "green"
    },
    {
      "value": "Suspected",
      "label": "Suspected",
      "color": "orange"
    },
    {
      "value": "Reported",
      "label": "Reported",
      "color": "yellow"
    },
    {
      "value": "Suspect",
      "label": "Suspect",
      "color": "red"
    },
    {
      "value": "Defendant",
      "label": "Defendant",
      "color": "dark-red"
    }
  ]
}
```

**Error Responses:**

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 7. Export Suspect Details PDF

**Endpoint:** GET /api/v1/suspects/export-suspect-details-pdf

**Description:** Export comprehensive suspect details as PDF document. Includes suspect information, personal details, case information, risk assessment, and related data.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier

#### Response (200 OK):

- **Content-Type:** application/pdf
- **Content-Disposition:** attachment; filename="suspect\_details\_{suspect\_id}\_{timestamp}.pdf"

The response is a PDF file that can be downloaded directly.

#### Error Responses:

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

#### Example Request:

```
GET /api/v1/suspects/export-suspect-details-pdf?suspect_id=1
Authorization: Bearer {access_token}
```

**Note:** This endpoint generates a comprehensive PDF report including all suspect information, personal details, case association, risk level assessment, and related evidence.

---

## 7. Get Suspect Statistics

**Endpoint:** GET /api/v1/suspects/statistics

**Description:** Get summary statistics for Suspect Management dashboard (Total Person, Total Evidence).

**Headers:** Authorization: Bearer <access\_token>

#### Response (200 OK):

```
{
  "status": 200,
  "message": "Statistics retrieved successfully",
  "data": {
    "total_persons": 21,
    "total_evidence": 21
  }
}
```

#### Error Responses:

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

#### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 8. Get Evidence by Suspect ID

**Endpoint:** GET /api/v1/suspects/evidence

**Description:** Get all evidence associated with a specific suspect.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Evidence retrieved successfully",
  "data": [
    {
      "id": 1,
      "evidence_id": "32342223",
      "evidence_number": "EVID-001",
      "title": "Handphone A",
      "thumbnail": "/data/thumbnails/evidence_1_map.png",
      "summary": "Summary 33242352",
      "description": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",
      "status": "Collected",
      "created_at": "2025-12-20T10:00:00Z"
    },
    {
      "id": 2,
      "evidence_id": "32342224",
      "evidence_number": "EVID-002",
      "title": "Phone Screen",
      "thumbnail": "/data/thumbnails/evidence_2_phone.png",
      "summary": "Summary 33242352",
      "description": "Terdapat dialog seputar pembakaran dengan suspect lain.",
      "status": "Collected",
      "created_at": "2025-12-20T11:00:00Z"
    }
  ],
  "total": 12
}
```

**Error Responses:**

**404 Not Found:**

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 9. Add Evidence to Suspect

**Endpoint:** POST /api/v1/suspects/evidence

**Description:** Add new evidence to an existing suspect. Supports file upload for evidence files.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: multipart/form-data

**Request Body (multipart/form-data - all fields required, including suspect\_id ):**

Field	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier
evidence_id	string	No	Evidence ID (if manual input)
evidence_source	string	Yes	Evidence source (e.g., "Handphone", "CCTV")
evidence_file	file	Yes	Evidence file to upload
summary	string	No	Evidence summary
description	string	No	Evidence description

**Response (201 Created):**

```
{
  "status": 201,
  "message": "Evidence added to suspect successfully",
  "data": {
    "id": 13,
    "evidence_id": "32342225",
    "evidence_number": "EVID-013",
    "title": "New Evidence",
    "summary": "Summary 33242353",
    "description": "New evidence description",
    "suspect_id": 1,
    "created_at": "2025-12-20T12:00:00Z"
  }
}
```

#### Error Responses:

##### 400 Bad Request:

```
{
  "status": 400,
  "message": "Validation error: {error_details}",
  "data": null
}
```

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 10. Update Suspect Notes

**Endpoint:** PUT /api/v1/suspects/notes

**Description:** Update notes for a specific suspect.

#### Headers:

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body (all fields required, including suspect\_id):**

```
{
  "suspect_id": 1,
  "notes": "Dokumentasi detail, isolasi jaringan, serta pencatatan chain of custody sangat penting untuk memastikan integritas bukti"
}
```

#### Response (200 OK):

```
{
  "status": 200,
  "message": "Suspect notes updated successfully",
  "data": {
    "id": 1,
    "notes": "Dokumentasi detail, isolasi jaringan, serta pencatatan chain of custody sangat penting untuk memastikan integritas bukti",
    "updated_at": "2025-12-20T13:00:00Z"
  }
}
```

#### Error Responses:

##### 400 Bad Request:

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 11. Save Suspect Summary

**Endpoint:** POST /api/v1/suspects/save-summary

**Description:** Save or update summary for a specific suspect.

#### Headers:

- Authorization: Bearer <access\_token>
- Content-Type: application/json

#### Request Body:

```
{
  "suspect_id": 1,
  "summary": "Suspect teridentifikasi melalui analisis GPS handphone yang menunjukkan posisi di TKP pada saat kejadian. Terdapat buk
}
```

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Suspect summary saved successfully",
  "data": {
    "suspect_id": 1,
    "suspect_name": "John Doe",
    "summary": "Suspect teridentifikasi melalui analisis GPS handphone yang menunjukkan posisi di TKP pada saat kejadian. Terdapat b
    "updated_at": "2025-12-20T14:30:00Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Summary cannot be empty",
  "data": null
}
```

**404 Not Found:**

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Failed to save suspect summary: {error_message}",
  "data": null
}
```

---

## 🔒 Person Management (Legacy)

---

**Base Path**

`/api/v1/persons`

**1. Create Person**



**Endpoint:** POST /api/v1/persons/create-person

**Description:** Add a person of interest (suspect/witness) to a case. Can include initial evidence.

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body:**

```
{
  "case_id": 1,
  "name": "Mandeep Singh",
  "is_unknown": false,
  "custody_stage": "In Custody",
  "evidence_id": "342344442",
  "evidence_source": "Handphone",
  "evidence_summary": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",
  "investigator": "Solehun",
  "created_by": "admin@gmail.com"
}
```

**Response (201 Created):**

```
{
  "status": 201,
  "message": "Person created successfully",
  "data": {
    "id": 1,
    "name": "Mandeep Singh",
    "is_unknown": false,
    "custody_stage": "In Custody",
    "evidence_id": "342344442",
    "evidence_source": "Handphone",
    "evidence_summary": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",
    "investigator": "Solehun",
    "case_id": 1,
    "created_by": "admin@gmail.com",
    "created_at": "2025-12-20T10:00:00Z",
    "updated_at": "2025-12-20T10:00:00Z"
  }
}
```

**Note:** This endpoint automatically creates a case log entry when a person is added.

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**404 Not Found (Case not found):**

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

#### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

## 2. Get Person by ID

**Endpoint:** GET /api/v1/persons/get-person

**Description:** Get details of a specific person of interest.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
person_id	integer	Yes	Unique person identifier

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Person retrieved successfully",
  "data": {
    "id": 1,
    "name": "Mandeep Singh",
    "is_unknown": false,
    "custody_stage": "In Custody",
    "evidence_id": "342344442",
    "evidence_source": "Handphone",
    "evidence_summary": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",
    "investigator": "Solehun",
    "case_id": 1,
    "created_by": "admin@gmail.com",
    "created_at": "2025-12-20T10:00:00Z",
    "updated_at": "2025-12-20T10:00:00Z"
  }
}
```

**Error Responses:**

**404 Not Found:**

```
{
  "status": 404,
  "message": "Person with ID {person_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

### 3. Get Persons by Case

**Endpoint:** GET /api/v1/persons/get-persons-by-case

**Description:** Get all persons of interest associated with a specific case.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
case_id	integer	Yes	Unique case identifier

**Query Parameters:**

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip
limit	integer	No	10	Number of records per page (max: 100)

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Persons retrieved successfully",
  "data": [
    {
      "id": 1,
      "name": "Mandeep Singh",
      "is_unknown": false,
      "custody_stage": "In Custody",
      "evidence_id": "342344442",
      "evidence_source": "Handphone",
      "evidence_summary": "GPS handphone suspect menyatakan posisi...",
      "investigator": "Solehun",
      "case_id": 1,
      "created_at": "2025-12-20T10:00:00Z",
      "updated_at": "2025-12-20T10:00:00Z"
    },
    {
      "id": 2,
      "name": "Nathalie",
      "is_unknown": false,
      "custody_stage": "Released",
      "evidence_id": "342344444",
      "evidence_source": "CCTV",
      "evidence_summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025...",
      "investigator": "Solehun",
      "case_id": 1,
      "created_at": "2025-12-20T11:00:00Z",
      "updated_at": "2025-12-20T11:00:00Z"
    }
  ],
  "total": 2,
  "page": 1,
  "size": 10
}
```

#### Error Responses:

##### 404 Not Found:

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

##### 401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

##### 500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 4. Update Person

**Endpoint:** PUT /api/v1/persons/update-person

**Description:** Update person information. All fields are optional (partial update).

**Headers:**

- Authorization: Bearer <access\_token>
- Content-Type: application/json

**Request Body (all fields optional, but person\_id is required):**

```
{
  "person_id": 1,
  "name": "Updated Name",
  "custody_stage": "Released",
  "evidence_summary": "Updated evidence summary",
  "investigator": "New Investigator"
}
```

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Person updated successfully",
  "data": {
    "id": 1,
    "name": "Updated Name",
    "custody_stage": "Released",
    "evidence_summary": "Updated evidence summary",
    "investigator": "New Investigator",
    "updated_at": "2025-12-20T15:00:00Z"
  }
}
```

**Error Responses:**

**400 Bad Request:**

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

**404 Not Found:**

```
{
  "status": 404,
  "message": "Person with ID {person_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## 5. Delete Person

**Endpoint:** DELETE /api/v1/persons/delete-person

**Description:** Delete a person of interest and all associated data.

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

Parameter	Type	Required	Description
person_id	integer	Yes	Unique person identifier

**Response (200 OK):**

```
{
  "status": 200,
  "message": "Person deleted successfully"
}
```

**Error Responses:**

**404 Not Found:**

```
{
  "status": 404,
  "message": "Person with ID {person_id} not found",
  "data": null
}
```

**401 Unauthorized:**

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

**500 Internal Server Error:**

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

## ❌ Error Responses

### Standard Error Format

All error responses follow this structure:

```
{
  "status": <http_status_code>,
  "message": "<error_message>",
  "data": null
}
```

### Common HTTP Status Codes

Status Code	Description	Example
200	Success	Request completed successfully
201	Created	Resource created successfully
400	Bad Request	Invalid request parameters
401	Unauthorized	Missing or invalid authentication token
403	Forbidden	Insufficient permissions (RBAC)
404	Not Found	Resource not found
409	Conflict	Resource already exists (e.g., duplicate case number)
500	Internal Server Error	Unexpected server error

Error Response Examples

401 Unauthorized:

```
{
  "status": 401,
  "message": "Unauthorized",
  "data": null
}
```

403 Forbidden (Admin Only):

```
{
  "status": 403,
  "message": "Access denied. Admin role required.",
  "data": null
}
```

404 Not Found:

```
{
  "status": 404,
  "message": "Case with ID 999 not found",
  "data": null
}
```

409 Conflict:

```
{
  "status": 409,
  "message": "Case number 'REG/123/2024/DRKUM' already exists",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

---

# 🔑 Role-Based Access Control (RBAC)

---

## Overview

The API implements Role-Based Access Control (RBAC) to restrict data access based on user roles.

## Roles

Role	Description	Access Level
admin	Administrator	Full access to all data
user	Regular user	Limited access (own data only)

## Role Mapping from Tags

When creating a user, the role is automatically mapped from the tag:

Tag	Role
"Admin"	admin
"Investigator"	user
"Ahli Forensic"	user
Other tags	user (default)

## Access Rules

### Case Management

Get All Cases (GET /api/v1/cases/get-all-cases):

- **Admin:** Sees all cases in the database
- **User:** Only sees cases where main\_investigator matches their fullname

Example:

- User with fullname = "Investigator" only sees cases with main\_investigator = "Investigator"
- User with fullname = "Ahli Forensic" only sees cases with main\_investigator = "Ahli Forensic"

### User Management

Create User (POST /api/v1/auth/create-user):

- **Admin:** 🟢 Can create users
- **User:** 🛑 Cannot create users (403 Forbidden)

## Important Notes

1. **Matching Criteria:** User role filtering uses exact match: Case.main\_investigator == User.fullname
  - Case-sensitive
  - Must match exactly (including spaces and special characters)
2. **Admin Bypass:** Admin users bypass all filters and see all data
3. **Token Validation:** All protected endpoints validate:
  - Token signature
  - Token expiration
  - User active status
  - App identifier (for multi-app scenarios)

---

## 🔑 Additional Notes

---

### Date Formats



- **API Response:** `created_at` in case list uses format "DD/MM/YYYY" (e.g., "12/12/2025" )
- **API Request/Response (ISO):** Other datetime fields use ISO 8601 format (e.g., "2025-12-12T10:30:00Z" )

## Pagination

- Default `limit`: 10
- Maximum `limit`: 100
- `page` is calculated as: `skip // limit + 1`
- `total` represents total records matching the filter (before pagination)

## Search Functionality

- Search is case-insensitive
- Searches across multiple fields (title, investigator, agency, etc.)
- Uses `ILIKE` pattern matching (SQL)

## Case Number Generation

- Auto-generated format: `{INITIALS}-{DDMMYY}-{SEQUENCE}`
  - Example: "BUR-121225-0001"
  - INITIALS: First 3 words of title
  - DDMMYY: Date in format DDMMYY
  - SEQUENCE: 4-digit sequence number

---

## 🔗 Related Documentation

- [Multi-App Authentication Guide](#)
  - [Role-Based Access Control Guide](#)
  - [Postman Testing Guide](#)
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