### API DOCUMENTATION PLANE – SERVICE

**Get All Airports**

**Method:** GET

**Endpoint:** **/api/airport/getAll**

**Description:** Retrieves a list of all airports.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1[

2 {

3 "id": 1,

4 "name": "Airport A",

5 "size": 1000,

6 "x": 12.34,

7 "y": 56.78

8 },

9 {

10 "id": 2,

11 "name": "Airport B",

12 "size": 2000,

13 "x": 23.45,

14 "y": 67.89

15 }

16]

**403 Forbidden**

**401 Wrong Token**

**500 Internal Server Error**

**Create Airport**

**Method:** POST

**Endpoint:** **/api/airport/create**

**Description:** Creates a new airport.

**Request Model:** **AirportModel**

**Example Request:**

json

VerifyOpen In EditorRunCopy code

1{

2 "name": "New Airport",

3 "size": 1500,

4 "x": 34.56,

5 "y": 78.90

6}

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**201 Created**

Example Value:

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 3,

3 "name": "New Airport",

4 "size": 1500,

5 "x": 34.56,

6 "y": 78.90

7}

**403 Forbidden**

**400 Bad Request  
401 Wrong Token**

**500 Internal Server Error**

**Update Airport**

**Method:** POST

**Endpoint:** **/api/airport/update**

**Description:** Updates an existing airport.

**Request Model:** **AirportModel**

**Example Request:**

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "name": "Updated Airport",

4 "size": 1200,

5 "x": 12.34,

6 "y": 56.78

7}

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "name": "Updated Airport",

4 "size": 1200,

5 "x": 12.34,

6 "y": 56.78

7}

**403 Forbidden**

**400 Bad Request  
401 Wrong Token**

**500 Internal Server Error**

**Delete Airport**

**Method:** DELETE

**Endpoint:** **/api/airport/delete**

**Description:** Deletes an airport by ID.

**Request Parameters:**

**id**: The ID of the airport to delete.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

**403 Forbidden**

**400 Bad Request**

**500 Internal Server Error**

**Dispatcher**

**Get All Dispatchers**

**Method:** GET

**Endpoint:** **/api/dispatcher/getAll**

**Description:** Retrieves a list of all dispatchers.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1[

2 {

3 "id": 1,

4 "firstName": "John",

5 "lastName": "Doe",

6 "email": "john.doe@example.com",

7 "isBanned": false,

8 "roles": ["ADMIN"]

9 }

10]

**403 Forbidden**

**500 Internal Server Error**

**Update Dispatcher**

**Example Request:**

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "firstName": "John",

4 "lastName": "Doe",

5 "email": "john.doe@example.com",

6 "isBanned": false,

7 "roles": ["ADMIN"]

8}

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**update**: Comma-separated list of fields to update (e.g., **firstName,lastName**).

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "firstName": "John",

4 "lastName": "Doe",

5 "email": "john.doe@example.com",

6 "isBanned": false,

7 "roles": ["ADMIN"]

8}

**403 Forbidden**

**400 Bad Request**

**401 Wrong Token**

**500 Internal Server Error**

**Get Dispatcher By ID**

**Method:** GET

**Endpoint:** **/api/dispatcher/get**

**Description:** Retrieves a dispatcher by ID.

**Request Parameters:**

**id**: The ID of the dispatcher to retrieve.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "firstName": "John",

4 "lastName": "Doe",

5 "email": "john.doe@example.com",

6 "isBanned": false,

7 "roles": ["ADMIN"]

8}

**403 Forbidden**

**400 Bad Request**

**500 Internal Server Error**

**Flight**

**Get All Flights**

**Method:** GET

**Endpoint:** **/api/flights/getAll**

**Description:** Retrieves a list of all flights.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1[

2 {

3 "id": 1,

4 "timestampStart": 1620000000,

5 "timestampEnd": 1620003600,

6 "dispatcherId": 1,

7 "planeId": 1,

8 "airportId": 1

9 }

10]

**403 Forbidden  
401 Wrong Token**

**500 Internal Server Error**

**Create Flight**

**Method:** POST

**Endpoint:** **/api/flights/create**

**Description:** Creates a new flight.

**Request Model:** **FlightModel**

**Example Request:**

json

VerifyOpen In EditorRunCopy code

1{

2 "dispatcherId": 1,

3 "planeId": 1,

4 "airportId": 1

5}

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "timestampStart": 1620000000,

4 "timestampEnd": 1620003600,

5 "dispatcherId": 1,

6 "planeId": 1,

7 "airportId": 1

8}

**403 Forbidden**

**400 Bad Request  
401 Wrong Token**

**500 Internal Server Error**

**Plane**

**Get All Planes**

**Method:** GET

**Endpoint:** **/api/plane/getAll**

**Description:** Retrieves a list of all planes.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1[

2 {

3 "id": 1,

4 "name": "Plane A",

5 "pilot": "Pilot A",

6 "builtYear": 2010,

7 "brokenPercentage": 10,

8 "speed": 500,

9 "minAirportSize": 1000,

10 "x": 12.34,

11 "y": 56.78

12 }

13]

**403 Forbidden**

**500 Internal Server Error**

**Create Plane**

**Example Request:**

json

VerifyOpen In EditorRunCopy code

1{

2 "name": "New Plane",

3 "pilot": "Pilot B",

4 "builtYear": 2020,

5 "speed": 600,

6 "minAirportSize": 1500

7}

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 2,

3 "name": "New Plane",

4 "pilot": "Pilot B",

5 "builtYear": 2020,

6 "brokenPercentage": 0,

7 "speed": 600,

8 "minAirportSize": 1500

9}

**403 Forbidden**

**400 Bad Request  
401 Wrong Token**

**500 Internal Server Error**

**Update Plane**

**Method:** POST

**Endpoint:** **/api/plane/update**

**Description:** Updates an existing plane.

**Request Model:** **PlaneModel**

**Example Request:**

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "name": "Updated Plane",

4 "pilot": "Pilot A",

5 "builtYear": 2011,

6 "speed": 550,

7 "minAirportSize": 1200

8}

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**update**: Comma-separated list of fields to update (e.g., **name,pilot**).

**Responses:**

**200 OK**

Example Value:

json

VerifyOpen In EditorRunCopy code

1{

2 "id": 1,

3 "name": "Updated Plane",

4 "pilot": "Pilot A",

5 "builtYear": 2011,

6 "brokenPercentage": 0,

7 "speed": 550,

8 "minAirportSize": 1200

9}

**403 Forbidden**

**400 Bad Request  
401 Wrong Token**

**500 Internal Server Error**

**Delete Plane**

**Method:** DELETE

**Endpoint:** **/api/plane/delete**

**Description:** Deletes a plane by ID.

**Request Parameters:**

**id**: The ID of the plane to delete.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

**403 Forbidden**

**400 Bad Request**

**401 Wrong Token**

**500 Internal Server Error**

**Time**

**Get Current Time**

**Method:** GET

**Endpoint:** **/api/time/get**

**Description:** Retrieves the current time.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value: **1620000000** (Unix timestamp)

**403 Forbidden**

**401 Wrong Token**

**500 Internal Server Error**

**Skip Time**

**Method:** POST

**Endpoint:** **/api/time/skip**

**Description:** Skips the current time by a specified number of seconds.

**Request Parameters:**

**skip**: The number of seconds to skip.

**Request Headers:**

**Authorization**: Bearer token for authentication.

**Service-Token**: Service token for authorization.

**Responses:**

**200 OK**

Example Value: **"skipped 3600 seconds"**

**403 Forbidden**

**400 Bad Request**

**401 Wrong Token**

**500 Internal Server Error**