IoT Locker API Documentation – v1

**Base URL: http://vsafe-api.scionrd.com/**

Authorization: Bearer JWT (Device token)

Content-Type: application/json

**Role Required: device**

Token Rotation: Automatically issues a new primary\_token on valid requests

# 1. Status Update

**Endpoint: POST /v1/iot/locker**

Description: Sends current locker status and metadata. Updates 'device\_status' and 'devices' table. Issues a new primary token if a valid one is used.

**Headers:**

|  |  |
| --- | --- |
| Key | Value |
| Authorization | Bearer <JWT Token> |
| Content-Type | application/json |

**Request Body:**

{  
 "battery": 2,  
 "wifi": "strong",  
 "door\_status": 1,  
 "wifi\_version": "v1.0",  
 "ble\_version": "v1.0",  
 "secure\_mode": 1,  
 "alarm": 0  
}

**Validation Rules:**

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Required | Rules |
| battery | int | Yes | 1 to 3 |
| wifi | string | Yes | min:1, max:10 |
| door\_status | int | Yes | 0 or 1 |
| wifi\_version | string | Yes | min:1, max:10 |
| ble\_version | string | Yes | min:1, max:10 |
| secure\_mode | int | Yes | 0 or 1 |
| alarm | int | Yes | 0 or 1 |

**Response:**

{  
 "token": "new.jwt.token.string"  
}

**Status Codes:**

|  |  |
| --- | --- |
| Code | Meaning |
| 201 | Success – Token rotated |
| 400 | Invalid/missing parameters |
| 401 | Invalid or expired token |
| 404 | Device not found |
| 500 | Internal server error |

# 2. Access Update

**Endpoint: POST /v1/iot/locker/access**

Description: Logs locker access with additional metadata like authentication type and index. Useful for auditing access.

**Headers:**

|  |  |
| --- | --- |
| Key | Value |
| Authorization | Bearer <JWT Token> |
| Content-Type | application/json |

**Request Body:**

{  
 "battery": 2,  
 "wifi": "strong",  
 "door\_status": 1,  
 "wifi\_version": "v1.0",  
 "ble\_version": "v1.0",  
 "secure\_mode": 1,  
 "alarm": 0,  
 "type": "2",  
 "index\_id": 1  
}

**Validation Rules:**

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Required | Rules |
| battery | int | Yes | 1 to 3 |
| wifi | string | Yes | min:1, max:10 |
| door\_status | int | Yes | 0 or 1 |
| wifi\_version | string | Yes | min:1, max:10 |
| ble\_version | string | Yes | min:1, max:10 |
| secure\_mode | int | Yes | 0 or 1 |
| alarm | int | Yes | 0 or 1 |
| type | string | Yes | One of: 1,2,3,4,5 |
| index\_id | int | Yes | max: 3 |

**Type Mapping:**

|  |  |
| --- | --- |
| Type | Description |
| 1 | PIN |
| 2 | Fingerprint |
| 3 | RFID Card |
| 4 | OTP |
| 5 | Manual |

**Response:**

{  
 "token": "new.jwt.token.string"  
}

**Status Codes:**

|  |  |
| --- | --- |
| Code | Meaning |
| 201 | Success – Token rotated |
| 400 | Invalid/missing parameters |
| 401 | Invalid or expired token |
| 404 | Device not found |
| 500 | Internal server error |

# 3. Tamper Update

**Endpoint: POST /v1/iot/locker/tamper**

Description: Used to report tampering alerts. Logs alert in 'device\_logs', updates device status and issues new token if needed.

**Headers:**

|  |  |
| --- | --- |
| Key | Value |
| Authorization | Bearer <JWT Token> |
| Content-Type | application/json |

**Request Body:**

{  
 "battery": 3,  
 "wifi": "weak",  
 "door\_status": 0,  
 "wifi\_version": "v1.1",  
 "ble\_version": "v1.1",  
 "secure\_mode": 0,  
 "alarm": 1  
}

**Validation Rules:**

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Required | Rules |
| battery | int | Yes | 1 to 3 |
| wifi | string | Yes | min:1, max:10 |
| door\_status | int | Yes | 0 or 1 |
| wifi\_version | string | Yes | min:1, max:10 |
| ble\_version | string | Yes | min:1, max:10 |
| secure\_mode | int | Yes | 0 or 1 |
| alarm | int | Yes | 0 or 1 |

**Response:**

{  
 "token": "new.jwt.token.string"  
}

**Status Codes:**

|  |  |
| --- | --- |
| Code | Meaning |
| 201 | Success – Token rotated |
| 400 | Invalid/missing parameters |
| 401 | Invalid or expired token |
| 404 | Device not found |
| 500 | Internal server error |

# 4. Device Freeze

**Endpoint: POST /v1/iot/locker/freeze**

Description: Used to report device freeze alerts. Logs alert in 'device\_logs', updates device status and issues new token if needed.

**Headers:**

|  |  |
| --- | --- |
| Key | Value |
| Authorization | Bearer <JWT Token> |
| Content-Type | application/json |

**Request Body:**

{  
 "battery": 3,  
 "wifi": "weak",  
 "door\_status": 0,  
 "wifi\_version": "v1.1",  
 "ble\_version": "v1.1",  
 "secure\_mode": 0,  
 "alarm": 1,  
 "type": "2"  
}

**Validation Rules:**

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Required | Rules |
| battery | int | Yes | 1 to 3 |
| wifi | string | Yes | min:1, max:10 |
| door\_status | int | Yes | 0 or 1 |
| wifi\_version | string | Yes | min:1, max:10 |
| ble\_version | string | Yes | min:1, max:10 |
| secure\_mode | int | Yes | 0 or 1 |
| alarm | int | Yes | 0 or 1 |
| type | string | Yes | One of: 1,2,3,4,5 |

**Type Mapping:**

|  |  |
| --- | --- |
| Type | Description |
| 1 | PIN |
| 2 | Fingerprint |
| 3 | RFID Card |
| 4 | OTP |
| 5 | Manual |

**Response:**

{  
 "token": "new.jwt.token.string"  
}

**Status Codes:**

|  |  |
| --- | --- |
| Code | Meaning |
| 201 | Success – Token rotated |
| 400 | Invalid/missing parameters |
| 401 | Invalid or expired token |
| 404 | Device not found |
| 500 | Internal server error |