

SIM Box Data Collection

by BROADNET



Overview

This API allows the operator to send necessary data for SIM box detection to our system. The data includes call logs, SMS details, IMSI, IMEI numbers, geolocation, IP addresses, and more.

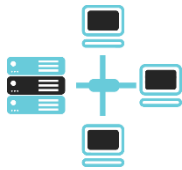
Base URL

<https://broadnet.me/api/v1/simbox-data>

Authentication

We use JWT (JSON Web Tokens) for authentication. The operator must include a valid token in the request header.

Headers: Authorization: Bearer <TOKEN>



API Endpoints

Push SMS Traffic Data

Endpoint: /sms-traffic **Payload:**

```
{ "timestamp": "2023-11-01T12:34:56Z", "imsi": "123456789012345", "imei":
"123456789012345", "source_number": "+1234567890", "destination_number":
"+0987654321", "message_content": "Hello, how are you?", "geolocation":
"12.3456,78.9012", "ip_address": "192.168.1.1", "network_type": "4G",
"device_software_version": "1.2.3" }
```

Push Call Traffic Data

Endpoint: /call-traffic **Payload:**

```
{ "timestamp": "2023-11-01T12:34:56Z", "imsi": "123456789012345", "imei":
"123456789012345", "source_number": "+1234567890", "destination_number":
"+0987654321", "call_duration": 120, "geolocation": "12.3456,78.9012", "ip_address":
"192.168.1.1", "network_type": "4G" }
```

Push Location Data

Endpoint: /location-data Payload:

```
{ "timestamp": "2023-11-01T12:34:56Z", "imsi": "123456789012345", "imei":  
"123456789012345", "current_geolocation": "12.3456,78.9012", "previous_geolocation":  
"12.3457,78.9013", "movement_speed": "15km/h" }
```

Push Network Data

Endpoint: /network-data Payload:

```
{ "timestamp": "2023-11-01T12:34:56Z", "imsi": "123456789012345", "imei":  
"123456789012345", "network_type": "4G", "signal_strength": "-70dBm", "cell_id": "12345",  
"location_area_code": "123" }
```

Push Device Data

Endpoint: /device-data Payload:

```
{ "timestamp": "2023-11-01T12:34:56Z", "imei": "123456789012345", "device_model":  
"BrandX ModelY", "software_version": "1.2.3", "last_active": "2023-10-31T11:22:33Z" }
```

Push IMSI Data

Endpoint: /imsi-data Payload:

```
{ "timestamp": "2023-11-01T12:34:56Z", "imsi": "123456789012345", "associated_imei":  
["123456789012345", "123456789012346"], "activation_date": "2023-01-01T10:10:10Z",  
"deactivation_date": "2023-10-31T10:10:10Z", "status": "active" }
```



Status Code Description

2xx: Success

- 200 OK: Standard response for successful HTTP requests.
- 201 Created: Request fulfilled, new resource created.
- 202 Accepted: Request accepted, processing not complete.
- 204 No Content: Request successful, no content returned.

3xx: Redirection

- 301 Moved Permanently: Resource moved to another URI.
- 302 Found: Resource temporarily located elsewhere.

304 Not Modified: Client can use cached data.

4xx: Client Errors

- 400 Bad Request: Server cannot process due to client error.
- 401 Unauthorized: Client must authenticate for response.
- 403 Forbidden: Client does not have access rights.
- 404 Not Found: Server cannot find the requested resource.
- 405 Method Not Allowed: Known but unsupported request method.
- 406 Not Acceptable: Server cannot produce acceptable response.
- 409 Conflict: Request conflicts with server's current state.
- 413 Payload Too Large: Request is larger than server can process.
- 415 Unsupported Media Type: Server can't support media format.
- 429 Too Many Requests: Too many requests in a given time.

5xx: Server Errors

- 500 Internal Server Error: Server encountered unknown situation.
- 501 Not Implemented: Server doesn't support the request method.
- 502 Bad Gateway: Server received invalid response from another server.
- 503 Service Unavailable: Server not ready to handle the request.
- 504 Gateway Timeout: Server cannot get a timely response.



API Endpoint:

POST <https://operator-api-endpoint.com/deactivateSIM>

Request Headers:

```
"Content-Type": "application/json",  
"Authorization": "Bearer YOUR_SECURE_ACCESS_TOKEN",  
"Timestamp": "UTC_TIMESTAMP_HERE",  
"Signature": "HMAC_SIGNATURE_HERE"
```

Request Body:

```
"request_id": "UNIQUE_REQUEST_ID",  
"imsi": "IMSI_NUMBER_TO_BE_DEACTIVATED",
```

```
"reason": "Suspected SIM-box activity",  
"detected_at": "UTC_TIMESTAMP_OF_DETECTION",  
"additional_info": {  
  "last_known_location": "GEO_COORDINATES_OR_CELL_TOWER_INFO",  
  "traffic_patterns": "DESCRIPTION_OR_LINK_TO_TRAFFIC_PATTERN_REPORT",  
  "source_ip": "SUSPECTED_SIMBOX_IP_ADDRESS"
```

Successful Request:

```
"status": "success",  
"message": "SIM deactivation initiated.",  
"operator_request_id": "OPERATOR_UNIQUE_REQUEST_ID",  
"expected_completion": "UTC_TIMESTAMP_OF_EXPECTED_COMPLETION"
```

Failed Due to Authorization:

```
"status": "authorization_failed",  
"message": "Invalid access token.",  
"operator_request_id": "OPERATOR_UNIQUE_REQUEST_ID"
```

Failed Due to Invalid IMSI:

```
"status": "invalid_imsi",  
"message": "The provided IMSI number is not recognized.",  
"operator_request_id": "OPERATOR_UNIQUE_REQUEST_ID"
```

Failed Due to System Error:

```
"status": "system_error",  
"message": "Internal system error. Please try again later.",  
"operator_request_id": "OPERATOR_UNIQUE_REQUEST_ID"
```

Failed Due to Rate Limiting:

```
"status": "rate_limit_exceeded",  
"message": "Too many requests in a short duration. Please retry after some time.",  
"operator_request_id": "OPERATOR_UNIQUE_REQUEST_ID"
```

 **Failed Due to Suspicious Activity:**

```
"status": "suspicious_request",  
"message": "The request seems suspicious and has been flagged for review.",  
"operator_request_id": "OPERATOR_UNIQUE_REQUEST_ID"
```

 **Failed Because SIM Already Deactivated:**

```
"status": "already_deactivated",  
"message": "The provided IMSI is already deactivated.",  
"operator_request_id": "OPERATOR_UNIQUE_REQUEST_ID"
```