

Mifumo SMS API

Complete Integration Guide

Secure SMS Messaging Integration for Tanzania

Version 1.0
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Secure SMS Messaging Integration for Tanzania

SMS API Endpoints

Send SMS

****URL:**** `http://127.0.0.1:8001/api/integration/v1/sms/send/`

****Method:**** `POST`

Authentication

Include your API key in the header:

```
Authorization: Bearer YOUR_API_KEY
```

****Note:**** Replace `YOUR_API_KEY` with the key provided by Mifumo SMS.

Request Body

Submit the following JSON payload:

```
{ "message": "Hello from Mifumo SMS!", "recipients": ["+255123456789",
"+255987654321"], "sender_id": "MIFUMO", "schedule_time": "2024-01-01T10:00:00Z" }
```

Parameter Descriptions

Parameter	Type	Required	Description
message	string	■	SMS text content (max 160 characters)
recipients	array	■	List of phone numbers in E.164 format
sender_id	string	■	Custom sender ID (default: "MIFUMO")
schedule_time	string	■	ISO 8601 datetime for scheduled sending

Sample cURL Request

```
curl -X POST "http://127.0.0.1:8001/api/integration/v1/sms/send/" \
-H "Content-Type: application/json" \
-H "Authorization: Bearer YOUR_API_KEY" \
-d '{
  "message": "Hello from Mifumo SMS!",
  "recipients": ["+255123456789"],
  "sender_id": "MIFUMO"
}'
```

Successful Response

```
{ "success": true, "message": "SMS sent successfully", "data": { "message_id":
"msg_123456789", "recipients": ["+255123456789"], "status": "sent", "cost": 10.0,
"currency": "TZS" }, "error_code": null, "details": null }
```

Error Response

```
{ "success": false, "message": "Invalid API Key or request payload", "data": null,
"error_code": "INVALID_CREDENTIALS", "details": "The provided API key is invalid or"
```

```
expired" }

---
```

****Get Message Status****

****URL:**** `http://127.0.0.1:8001/api/integration/v1/sms/status/{message_id}/`

****Method:**** `GET`

**Sample Request**

```
curl -X GET "http://127.0.0.1:8001/api/integration/v1/sms/status/msg_123456789/" \
-H "Authorization: Bearer YOUR_API_KEY"
```

**Sample Response**

```
{ "success": true, "message": "Message status retrieved successfully", "data": {
  "message_id": "msg_123456789", "status": "delivered", "delivery_time":
  "2024-01-01T10:05:00Z", "recipients": [ { "phone": "+255123456789", "status":
  "delivered", "delivery_time": "2024-01-01T10:05:00Z" } ] } }
```

****Get Delivery Reports****

****URL:**** `http://127.0.0.1:8001/api/integration/v1/sms/delivery-reports/`

****Method:**** `GET`

**Query Parameters**

Parameter	Type	Required	Description
start_date	string	■	Start date (ISO 8601 format)
end_date	string	■	End date (ISO 8601 format)
status	string	■	Filter by status (sent, delivered, failed)
page	integer	■	Page number (default: 1)
per_page	integer	■	Items per page (default: 50)

**Sample Request**

```
curl -X GET "http://127.0.0.1:8001/api/integration/v1/sms/delivery-reports/?start_date=2024-01-01T00:00:00Z&status=delivered" \
-H "Authorization: Bearer YOUR_API_KEY"
```

****Get Account Balance****

****URL:**** `http://127.0.0.1:8001/api/integration/v1/sms/balance/`

****Method:**** `GET`

**Sample Request**

```
curl -X GET "http://127.0.0.1:8001/api/integration/v1/sms/balance/" \ -H
"Authorization: Bearer YOUR_API_KEY"

#### **Sample Response**

{ "success": true, "message": "Balance retrieved successfully", "data": { "balance":
5000.0, "currency": "TZS", "last_updated": "2024-01-01T10:00:00Z" } }

---
```

****Contacts API Endpoints****

****Create Contact****

****URL:**** `http://127.0.0.1:8001/api/integration/v1/contacts/create/`
****Method:**** `POST`

**Request Body**

```
{ "name": "John Doe", "phone_number": "+255123456789", "email": "john@example.com",
"tags": ["customer", "vip"], "is_active": true }
```

**Parameter Descriptions**

Parameter	Type	Required	Description
----- ----- ----- -----			
`name`	string	■	Contact's full name
`phone_number`	string	■	Phone number in E.164 format
`email`	string	■	Email address
`tags`	array	■	List of tags for categorization
`is_active`	boolean	■	Whether contact is active (default: true)

****Search Contacts****

****URL:**** `http://127.0.0.1:8001/api/integration/v1/contacts/search/`
****Method:**** `GET`

**Query Parameters**

Parameter	Type	Required	Description
----- ----- ----- -----			
`q`	string	■	Search query (name, phone, email)
`limit`	integer	■	Maximum results (default: 20)
`offset`	integer	■	Results offset (default: 0)

| `segment_id` | string | ■ | Filter by segment ID |

****Segments API Endpoints****

****Create Segment****

****URL:**** `http://127.0.0.1:8001/api/integration/v1/contacts/segments/create/`

****Method:**** `POST`

**Request Body**

```
{ "name": "VIP Customers", "description": "High-value customers", "criteria": {  
  "tags": ["vip", "premium"], "is_active": true, "created_after": "2024-01-01" } }
```

****Webhook Notifications****

Mifumo SMS can send automatic notifications to your server when SMS status changes.

****Webhook Setup****

Include the `webhook_url` parameter in your SMS request to receive status updates:

```
{ "message": "Hello from Mifumo SMS!", "recipients": [ "+255123456789" ], "sender_id":  
  "MIFUMO", "webhook_url": "https://your-domain.com/sms-webhook" }
```

****Webhook Authentication****

Mifumo SMS will send the `Authorization: Bearer YOUR_API_KEY` in the request header when calling your webhook URL. Verify this key to ensure the request is legitimate.

****Webhook Payload Example****

```
{ "message_id": "msg_123456789", "status": "delivered", "recipients": [ { "phone":  
  "+255123456789", "status": "delivered", "delivery_time": "2024-01-01T10:05:00Z" } ],  
  "metadata": { "sender_id": "MIFUMO", "cost": 10.0, "currency": "TZS" } }
```

****Note:**** Webhooks are triggered when SMS status changes to `delivered`, `failed`, or `sent`.

****API Key Management****

****Dashboard Access****

****URL:**** `http://127.0.0.1:8001/api/integration/dashboard/`

Access your API dashboard to:

- Generate new API keys
- View usage statistics
- Manage webhooks
- Monitor account activity

****API Key Permissions****

- `read`: View data and reports
- `write`: Send SMS and manage contacts
- `admin`: Full account management

****Error Codes****

Code	Description
----- -----	
`INVALID_CREDENTIALS`	Invalid or expired API key
`INVALID_PHONE`	Invalid phone number format
`INSUFFICIENT_BALANCE`	Account balance too low
`RATE_LIMIT_EXCEEDED`	Too many requests
`INVALID_SENDER_ID`	Sender ID not approved
`MESSAGE_TOO_LONG`	SMS exceeds character limit

****Rate Limits****

- ****SMS Sending****: 100 messages per minute
- ****API Calls****: 1000 requests per hour
- ****Contact Management****: 500 operations per hour

****Support****

For assistance, contact:

- ****Email****: support@mifumosms.com
- ****Website****: <http://127.0.0.1:8001>
- ****Documentation****: <http://127.0.0.1:8001/api/integration/documentation/>

Mifumo SMS Team

Simplifying SMS Communication in Tanzania

Quick Reference Guide

Mifumo SMS API - Quick Reference Guide

■ **Quick Start**

1. Get Your API Key

Visit the dashboard <http://127.0.0.1:8001/api/integration/dashboard/>

2. Send Your First SMS

```
curl -X POST "http://127.0.0.1:8001/api/integration/v1/sms/send/" \ -H  
"Content-Type: application/json" \ -H "Authorization: Bearer YOUR_API_KEY" \ -d '{  
"message": "Hello from Mifumo SMS!", "recipients": ["+255123456789"] }'
```

■ **SMS API**

Endpoint	Method	Description
----- ----- -----		
/v1/sms/send/	POST	Send SMS
/v1/sms/status/{id}/	GET	Get message status
/v1/sms/delivery-reports/	GET	Get delivery reports
/v1/sms/balance/	GET	Get account balance

Send SMS Payload

```
{ "message": "Your message here", "recipients": ["+255123456789"], "sender_id":  
"MIFUMO" }
```

■ **Contacts API**

Endpoint	Method	Description
----- ----- -----		

`/v1/contacts/create/`	POST	Create contact
`/v1/contacts/{id}/`	GET	Get contact
`/v1/contacts/{id}/update/`	PUT	Update contact
`/v1/contacts/{id}/delete/`	DELETE	Delete contact
`/v1/contacts/search/`	GET	Search contacts

****Create Contact Payload****

```
{ "name": "John Doe", "phone_number": "+255123456789", "email": "john@example.com",  
  "tags": [ "customer" ] }
```

■ **Segments API**

Endpoint	Method	Description
`/v1/contacts/segments/create/`	POST	Create segment
`/v1/contacts/segments/{id}/`	GET	Get segment
`/v1/contacts/segments/{id}/update/`	PUT	Update segment
`/v1/contacts/segments/{id}/delete/`	DELETE	Delete segment

■ **Authentication**

All requests require:

```
Authorization: Bearer YOUR_API_KEY Content-Type: application/json
```

■ **Response Format**

****Success Response****

```
{ "success": true, "message": "Operation successful", "data": { /* response data */  
  }, "error_code": null, "details": null }
```

****Error Response****

```
{ "success": false, "message": "Error description", "data": null, "error_code":  
"ERROR_CODE", "details": "Additional details" }
```

■ ****Common Error Codes****

Code	Description
INVALID_CREDENTIALS	Invalid API key
INVALID_PHONE	Invalid phone format
INSUFFICIENT_BALANCE	Low account balance
RATE_LIMIT_EXCEEDED	Too many requests

■ ****Phone Number Format****

Use E.164 format:

- +255123456789
- 0751234567
- 255123456789

■ ****Webhooks****

Set up webhooks for real-time notifications:

```
{ "message": "Hello!", "recipients": ["+255123456789"], "webhook_url":  
"https://your-domain.com/webhook" }
```

■ ****Rate Limits****

- SMS: 100/minute
- API: 1000/hour

- Contacts: 500/hour

■ ****Need Help?****

- ****Dashboard****: <http://127.0.0.1:8001/api/integration/dashboard/>
- ****Documentation****: <http://127.0.0.1:8001/api/integration/documentation/>
- ****Support****: support@mifumosms.com