

# Mifumo SMS API Integration Guide – SMS Messaging Platform

## 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
<code>`message`</code>	string	■	SMS text content (max 160 characters)
<code>`recipients`</code>	array	■	List of phone numbers in E.164 format
<code>`sender_id`</code>	string	■	Custom sender ID (default: "MIFUMO")
<code>`schedule_time`</code>	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" }
```

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## **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" } ] } }
```

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## **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"
```

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**\*\*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" } }
```

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**\*\*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)

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## **\*\*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

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## **\*\*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" } }
```

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## **\*\*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`.

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## **\*\*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

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## **\*\*Error Codes\*\***

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

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## **\*\*Rate Limits\*\***

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

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## **\*\*Support\*\***

For assistance, contact:

- **\*\*Email\*\***: [support@mifumosms.com](mailto:support@mifumosms.com)
- **\*\*Website\*\***: <http://127.0.0.1:8001>
- **\*\*Documentation\*\***: <http://127.0.0.1:8001/api/integration/documentation/>

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### **Mifumo SMS Team**

**\*Simplifying SMS Communication in Tanzania\***