





# National Urban Digital Mission

Building cities that work for people





#### **Outline**

- 1. Using the generic GET & POST Gateway interface
- 2. Developing custom Interface



### Using Get/Post sms gateway

Notification SMS Service - Create a common point to manage all the SMS notifications being sent out of the platform.

Notification SMS service consumes SMS from the Kafka notification topic and processes them to send it to a third party service. Modules like PT, TL, PGR etc make use of this service to send messages through the Kafka Queue.

#### Configuration Details:

This service is a consumer, which means it reads from the Kafka queue and does not provide the facility to be accessed through API calls. There is no REST layer here. The producers willing to integrate with this consumer post a JSON onto the topic configured at 'kafka.topics.notification.sms'.

The notification-sms service reads from the queue and sends the SMS to the mentioned phone number using one of the SMS providers configured. The implementation of the consumer is present in the directory src/main/java/org/egov/web/notification/sms/service/impl

These are current providers available

- Generic
- Console
- MSDG



### Using Get/Post sms gateway

The implementation to be used can be configured by setting sms.provider.class.

Console implementation

The Console implementation just prints the message mobile number and message to the console.

#### Generic implementation

To use the generic GET/POST SMS gateway, first, configure the service application properties

sms.provider.class=Generic

This will set the generic interface to be used. This is the default implementation, which can work with most of the SMS Provider. The generic implementation supports below

- GET or POST based API
- Supports query params, form data, JSON Body

To <u>configure</u> the URL of the SMS provider use sms.provider.url property.

To configure the http method used configure the sms.provider.requestType property to either GET or POST.

To configure form data or json api set sms.provider.contentType=application/x-www-form-urlencoded or sms.provider.contentType=application/json respectively



## **Configuring Variables**

To <u>configure</u> which data needs to be sent to the API below property can be configured:

- sms.config.map={'uname':'\$username', 'pwd': '\$password', 'sid':'\$senderid', 'mobileno':'\$mobileno', 'content':'\$message', 'smsservicetype':'unicodemsg', 'myParam': '\$extraParam', 'messageType': '\$mtype'}
- sms.category.map={'mtype': {'\*': 'abc', 'OTP': 'def'}}
- sms.extra.config.map={'extraParam': 'abc'}

sms.extra.config.map is not used currently and is only kept for custom implementation which requires data that doesn't need to be directly passed to the REST API call

sms.config.map is a map of parameters and their values



### Special variable needs to be mapped

- \$username maps to sms.provider.username
- \$password maps to sms.provider.password
- \$senderid maps to sms.senderid
- \$mobileno maps to mobileNumber from kafka fetched message
- \$message maps to the message from the kafka fetched message
- \$<name> any variable that is not from above list, is first checked in sms.category.map and then in application.properties and then in environment variable with full upper case and \_ replacing -, space or .

```
So if you use sms.config.map={'u':'$username', 'p':'password'}. Then the API call will be passed <url>?u=<$username>&p=password
```



### Message Success or Failure

Message success delivery can be controlled using below properties

- sms.verify.response (default: false)
- sms.print.response (default: false)
- sms.verify.responseContains
- sms.success.codes (default: 200,201,202)
- sms.error.codes

If you want to verify some text in the API call response set sms.verify.response=true and sms.verify.responseContains to the text that should be contained in the response



## Black Listing or whitelisting numbers

It is possible to whitelist or blacklist phone numbers to which the messages should be sent. This can be controlled using the below properties:

- sms.blacklist.numbers
- sms.whitelist.numbers

Both of them can be given a , separated list of numbers or number patterns. To use patterns use X for any UPYOG match and \* for any number of UPYOGs match.

sms.blacklist.numbers=5\*,9999999999,88888888XX will blacklist any phone number starting with 5, or the exact number 9999999999 and all numbers starting from 88888888800 to 8888888899

#### Steps to Integration

To integrate, create the SMS request body given in the example below. Provide the correct mobile number and message in the request body and send it to the kafka topic:- egov.core.notification.sms

```
"mobileNumber": "9999999993",
"message": "Hey, how you doing?"
```

The notification-sms service reads from the queue and sends the sms to the mentioned phone number using one of the SMS providers configured.



## **SMS** formats and Template

https://docs.google.com/spreadsheets/d/1dUwDeCmKImwSI\_SW1JQL-SijU7rSpUgM/edit#gid=510

#### 937816

Using the above template, the sms provider will provide templateid for each sms format. We are using these templateid along with localization keys to send SMS.



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