



MyAlberta Notify API Guide

Government of Alberta

v0.02

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1. Swagger UI

A Swagger UI was created to document the API endpoints and their requirements. Go to the following URL to view it: <https://rest-api.notify.alberta.ca/swagger>

2. Endpoints

2.1 Authentication

Prior to sending any notifications through the API, you will need to generate an API key using the MyAlberta Notify service website (UI). Please see the MyAlberta Notify Admin User guide on how to generate an API key. If you do not have the ability to create an API key, please contact your MyAlberta Notify representative.

The API key is used to generate a bearer token for the notification request and needs to be sent to the token endpoint URL in a JSON request body.

Token Endpoint URL:

<https://rest-api.notify.alberta.ca/token>

JSON Request Body Example:

```
{"api_key": "sampleapikey"}
```

Upon successful validation of the API key, a bearer token will be returned to you. The bearer token is required as a header parameter for sending notifications.

2.2 Send SMS Notifications

To send an SMS notification, you will need the bearer token and a JSON Request Body that contains the message details.

SMS Endpoint URL:

<https://rest-api-notify.alberta.ca/v2/notifications/sms>

Header Parameter:

"Authorization: Bearer {generated token value}"

JSON Request Body Example:

```
{  
  "phone_number": "17801234567",  
  "template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",  
  "personalisation": "{\"name\": \"Andrew\", \"documents\": [\"Drivers License\", \"Medicare Card\"]}",  
  "reference": "123456",  
  "sms_sender_id": "8e222534-7f05-4972-86e3-17c5d9f894e2",  
  "status_callback_url": "https://example.com/callback",  
  "status_callback_bearer_token": "secure-bearer-token"  
}
```

Parameter Notes:

phone_number (required, string)

The phone number of the recipient you want to send to.

template_id (required, string)

The ID of the template. You can find this by signing into MyAlberta Notify and going to the Templates page and selecting the template you wish to use. Template ID is near the bottom of the template.

personalisation (optional, Dictionary <string, dynamic>)

If a template has placeholder fields for personalized information such as name or application date, you must provide their values in a dictionary. For example:

```
Dictionary<string, dynamic> personalisation = new Dictionary<string, dynamic>
{
    {"first_name", "Amala"},
    {"application_date", "2018-01-01"}
};
```

Please note: the use of ‘personalisation’ versus ‘personalization’ is important. This is an Australian code base and changing it will result in errors.

reference (optional, string)

A unique identifier you create. This reference identifies a single unique notification or a batch of notifications.

sms_sender_id (optional, string)

A unique identifier of the sender for text message notifications. To find this information, go to the Text Message sender settings screen:

1. Sign in to your MyAlberta Notify account.
 - Make sure you are on the Service you want. If you need to change to another service, select Switch service in the top right corner of the screen and select the correct one.
2. Go to Settings.
3. Go to the Text Messages section and select Manage on the Text Message sender row.
 - On this screen, you can:
 - copy the sender ID that you want to use and paste it into the method
 - select Change to change the default sender that the service will use, and select Save

If you do not have an sms_sender_id, you can leave out this argument.

status_callback_url (optional, string)

Status callback arguments allow you to receive updates on delivery status to a server of your choice. If you do not use this argument, and you have set up a delivery status callback URL on your MyAlberta Notify service, then that will be used.

The URL for the status callback argument is the HTTPS URL of the server that you would like status updates sent to.

status_callback_bearer_token (optional, string)

This is the bearer token that MyAlberta Notify will use when making a request to your server so that you can authenticate requests.

2.3 Send Email Notifications

To send an Email notification you will need the bearer token and a JSON Request Body that contains the message details.

Email Endpoint URL:

<https://rest-api-notify.alberta.ca/v2/notifications/email>

Header Parameter:

"Authorization: Bearer {generated token value}"

JSON Request Body Example:

```
{
  "email_address": "17801234567",
  "template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "personalisation": "{\"name\": \"Andrew\", \"documents\": [\"Drivers License\", \"Medicare Card\"]}",
  "reference": "123456",
  "email_reply_to_id": "8e222534-7f05-4972-86e3-17c5d9f894e2",
  "status_callback_url": "https://example.com/callback",
  "status_callback_bearer_token": "secure-bearer-token"
}
```

Parameter Notes:

email_address (required, string)

The email address of the recipient you want to send to.

template_id (required, string)

The ID of the template. You can find this by signing into MyAlberta Notify and going to the Templates page and selecting the template you wish to use. Template ID is near the bottom of the template.

personalisation (optional, Dictionary <string, dynamic>)

If a template has placeholder fields for personalized information such as name or application date, you must provide their values in a dictionary. For example:

```
Dictionary<string, dynamic> personalisation = new Dictionary<string, dynamic>
{
    {"first_name", "Amala"},
    {"application_date", "2018-01-01"}
};
```

Please note: the use of ‘personalisation’ versus ‘personalization’ is important. This is an Australian code base and changing it will result in errors.

reference (optional, string)

A unique identifier you create. This reference identifies a single unique notification or a batch of notifications.

email_reply_to_id (optional, string)

This is an email reply-to address specified by you to receive replies from your users. Your service cannot go live until you set up at least one of these email addresses. To set up:

1. Sign in to your MyAlberta Notify account.
2. Go to Settings.
3. Go to the Email section and select Manage on the Email reply-to addresses row.
4. Select Change to specify the email address to receive replies and select Save.

If you do not have an email_reply_to_id, you can leave out this argument.

status_callback_url (optional, string)

The status callback arguments allow you to receive delivery status updates to a server of your choice. If you do not use this argument and you have set up a delivery status callback URL on your Notify service, then that will be used.

The URL for the status callback argument is the HTTPS URL of the server that you would like status updates sent to.

status_callback_bearer_token (optional, string)

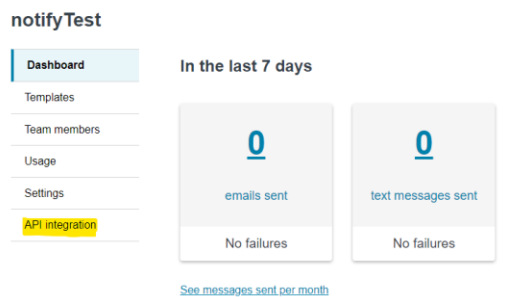
This is the bearer token that Notify will use when making a request to your server so that you can authenticate requests.

3. Callbacks

3.1 Accepting callbacks

A callback lets you receive message delivery updates from Notify to a URL of your choice.

Callbacks functionality can be found in the left hand menu under API integration in your service.



On a server you control, set up an endpoint that can accept POST requests. Notify will POST messages in a JSON format to the endpoint you specify.

Tip! To test callbacks without setting up your own endpoint you may use this free service

- <https://webhook.site/#!/>

To ensure that callbacks are coming from Notify and not some other malicious source, you will need to create a "bearer token" when setting up the callback URL. A bearer token should be a long, randomised piece of text that an attacker wouldn't be able to easily guess.

When creating a bearer token, you should:

- keep your bearer token secure
- change it if you have any reason to think it might no longer be trusted
- make sure that callbacks you receive from Notify contain your bearer token in the "Authorization" header

3.2 Message delivery updates

When you send an email or text message through Notify, we can send a receipt to your callback URL to tell you if we were able to deliver it or not.

The JSON message that Notify sends has this format:

```
{
  "id": "UUID",
  "reference": "12345678",
  "to": "person@example.com",
  "status": "delivered",
  "notification_type": "email",
  "created_at": "2017-05-14T12:15:30.000000Z",
  "completed_at": "2017-05-14T12:15:30.000000Z",
  "sent_at": "2017-05-14T12:15:30.000000Z"
}
```

The parameter definitions are as follows:

- Parameter name: "id", kind: "UUID"
 - => Notify's ID for this notification.
 - You can use this to correlate with the ID that is returned when you send a message.
- Parameter name: "reference", optional kind: "string"
 - => The reference potentially sent with your API request
- Parameter name: "to", kind: "string"
 - => The email address or phone number of the recipient.
 - If `notification_type` is `email`, this is the recipient's email address.
 - If `notification_type` is `sms`, this is the recipient's E.164 formatted phone number.
- Parameter name: "status", kind: "string"
 - => The status of the notification.
 - Possible values:
 - sending
 - delivered
 - permanent-failure
 - temporary-failure
 - technical-failure
- Parameter name: "notification_type", kind: "string"
 - => The notification type, either `email` or `sms`
- Parameter name: "created_at", kind: "ISO-8601 string"
 - => The time in UTC that the service sent the request
- Parameter name: "completed_at", kind: "ISO-8601 string"
 - => The last time in UTC that the status was updated
- Parameter name: "sent_at", optional kind: "ISO-8601 string"
 - => The time in UTC that the notification was sent