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# Reson8 REST API Documentation

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## Revision History

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## Introduction

REST APIs provide an efficient and very streamlined way of integrating services into Web and Mobile apps.

Representational State Transfer (REST) is a software architectural style that defines a set of constraints to be used for creating Web services. Web services that conform to the REST architectural style, called RESTful Web services (RWS), provide interoperability between computer systems on the Internet. RESTful Web services allow the requesting systems to access and manipulate textual representations of Web resources by using a uniform and predefined set of stateless operations.

## Getting Started

In order to use the Reson8 gateway you need a Reson8 account and at least one registered connection (API sub-product instance) between your application and our gateway. Each connection method is known as a sub-product (of our API product). You can follow these steps to get started:



## How to get my Reson8 account?

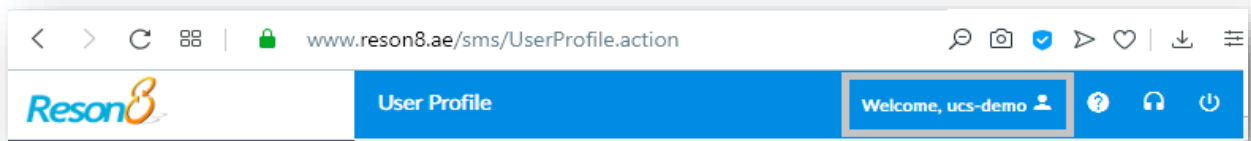
Getting a Reson8 account is very quick and easy. Sign up [here](#) for an account by entering a few details.

## How to get access to the API key?

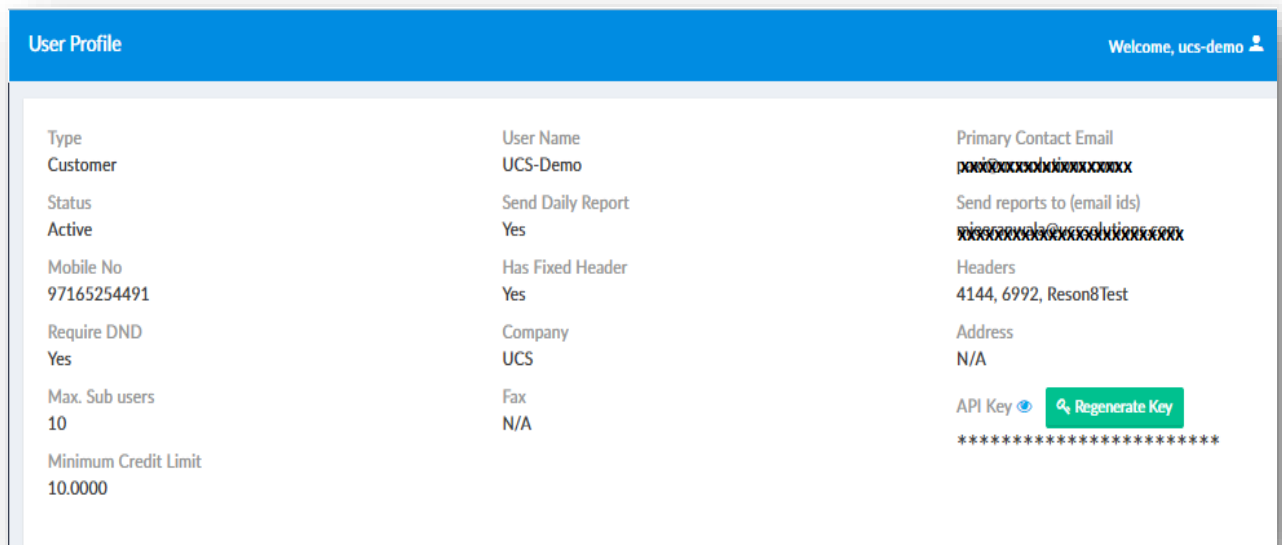
Instructions to access the API key are mentioned below.

**In Order to access API Key, Kindly follow below mentioned steps:**

- Login to your Reson8 Account.
- Click on User Profile Icon available on top.



- Once On the user profile page, API key can be accessed as shown below.
- Click on 'Eye' Icon and API key will be accessible.





## Send Message – (Basic)

### Purpose of the API

The purpose of the API is to send basic messages

### Request URL

<https://www.reson8.ae/rest-api/v1/message>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-0a
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
from	from-address, i.e., short-code or message-header
to	to-address, i.e., recipient mobile number
text	message text to be sent (max length: 938 for english, and 469 for non-english)
enableURLShortening	specify value as "Y" to shorten URLs in message text (default: "N")

### Sample Request Body

```
{
  "from": "1234",
  "to": "971500000000",
  "text": "This is a test message"
}
```



### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>campaignID</b>	campaign-id (if the message was queued successfully)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 9001,
  "procResponse": "Unregistered from-address (464)"
}
```

### Response error-levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>429</b>	Too many requests
<b>500</b>	Unexpected application error
<b>503</b>	Service temporarily not available





## Send Message – (Campaign)

### Purpose of the API

The purpose of the API is to send messages for a bulk campaign

### Request URL

<https://www.reson8.ae/rest-api/v1/message/campaign>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
from	from-address, i.e., short-code or message-header
to	to-address, i.e., one or more recipient mobile numbers (max count: 100)
text	message text to be sent (max length: 938 for English, and 469 for non-English)
name	campaign name (max length: 100)
type	Marketing/Operational
enableURLShortening	specify value as "Y" to shorten URLs in message text (default: "N")



### Sample Request Body

```
{
  "from": "1234",
  "to": ["971500000000", "971560000000"]
  "text": "This is a test message",
  "name": "Test campaign",
  "type": "Marketing"
}
```

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
campaignID	campaign-id (if the message was queued successfully)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 9001,
  "procResponse": "Unregistered from-address (464)"
}
```

### Response Error-Levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Send Message – (2-Way Tracking)

### Purpose of the API

The purpose of the API is send messages with the option of response tracking

### Request URL

<https://www.reson8.ae/rest-api/v1/message/tracked>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
From	from-address, i.e., short-code or message-header
To	to-address, i.e., recipient mobile number
Text	message text to be sent (max length: 938 for English, and 469 for non-English)
enableResponseTracking	specify value as "Y" only if a reply is expected for this message, else specify the value as "N"

### Sample Request Body

```
{
  "from": "1234",
  "to": "971500000000",
  "text": "This is a test message",
  "enableResponseTracking": "N"
}
```



### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
campaignID	campaign-id (if the message was queued successfully)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 9001,
  "procResponse": "Unregistered from-address (464)"
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Send Message – (Template)

### Purpose of the API

The purpose of the API is to send template based message

### Request URL

<https://www.reson8.ae/rest-api/v1/message/template>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
from	from-address, i.e., short-code or message-header
to	to-address
tid	template-id
params	template parameters
enableURLShortening	specify value as "Y" to shorten URLs in message text (default: "N")
enableResponseTracking	specify value as "Y" only if an SMS reply is expected for this message (default: "N")
scheduleDateTime	schedule date-time in yyyy-MM-dd HH:mm format (optional)
scheduleTimeZone	schedule time-zone code, please refer Appendix A (optional)



### Sample Request Body

```
{
  "from": "Reson8SMS",
  "to": "971xyyyyyyy",
  "tid": 9999999,
  "params": [
    {
      "name": "PARAM-1",
      "value": "Value 1"
    }
  ]
}
```

### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>campaignID</b>	campaign-id (if the message was queued successfully)
<b>extTrackingID</b>	external tracking-id (if the message template contains an EXT_TRACKING_ID parameter)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 9001,
  "procResponse": "Unregistered from-address (464)"
}
```

### Response Error-Levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error



Exact error/status description will be available in the **procResponse** attribute in the response body

#### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Send Message – (Template Campaign)

### Purpose of the API

The purpose of the API is to send template based campaigns

### Request URL

<https://www.reson8.ae/rest-api/v1/message/template/campaign>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
from	from-address, i.e., short-code or message-header
tid	template-id
recipientData	recipient-wise template parameters
name	campaign name (max length: 100)
type	Marketing/Operational
enableURLShortening	specify value as "Y" to shorten URLs in message text (default: "N")





### Sample Request Body

```
{
  "from": "Reson8SMS",
  "tid": 9999999,
  "recipientData": [
    {
      "to": "971xxyyyyy1",
      "params": [
        {
          "name": "PARAM-1",
          "value": "Value 123"
        },
        {
          "name": "PARAM-2",
          "value": "Value 456"
        }
      ]
    },
    {
      "to": "971xxyyyyy2",
      "params": [
        {
          "name": "PARAM-1",
          "value": "Value ABC"
        },
        {
          "name": "PARAM-2",
          "value": "Value XYZ"
        }
      ]
    }
  ],
  "name": "Test Campaign",
  "type": "Marketing",
  "enableURLShortening": "N"
}
```



### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>campaignID</b>	campaign-id (if the message was queued successfully)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 9001,
  "procResponse": "Unregistered from-address (464)"
}
```

### Response Error-Levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>429</b>	Too many requests
<b>500</b>	Unexpected application error
<b>503</b>	Service temporarily not available



## Check Status

### Purpose of the API

The purpose of the API is to check the status of the message

### Request URL

<https://www.reson8.ae/rest-api/v1/message/status>

### Request Method

The API can be requested via GET

### Request-Input-Format

The format for the request input is: path-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
campaignID	campaign-id of the message for which status needs to be checked

### Sample Request

<https://www.reson8.ae/rest-api/v1/message/status/0a7acabe-f8f7-4cab-b525-6f2e890683fc>

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
statusInfo	array of objects providing recipient-wise status-information



### Sample Response

```
{
  "requestID": "4b1f8ebb-785d-4515-a18f-bf72f79b981a",
  "errorLevel": 9002,
  "procResponse": "No status information available"
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9001	data validation failure
9002	request processing/information retrieval failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error



## Get Incoming Message

### API Purpose

The purpose of the API is to fetch incoming message

### Request URL

<https://www.reson8.ae/rest-api/v1/incoming-messages>

### Request Method

The API can be requested via GET

### Request-Input-Format

The format for the request input is: query-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
to	for filtering by destination address (optional)

### Sample Request

<https://www.reson8.ae/rest-api/v1/incoming-messages>



### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
messages	array of objects providing incoming messages data

### Sample Response

```
{
  "requestID": "3327f1b2-54c7-4d0d-82f2-e1281dd74d2b",
  "errorLevel": 0,
  "messages": [
    {
      "messageID": 12345,
      "from": "971500000000",
      "to": "1234",
      "text": "Y",
      "receivedAt": "1990-01-16 11:18:15.0",
      "campaignID": "7986273f-4787-44d6-b18a-a579bda8304f"
    }
  ]
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9002	request processing/information retrieval failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error



## Acknowledge Incoming Message

### API Purpose

The purpose of the API is to acknowledge incoming message (i.e., update as read)

### Request URL

<https://www.reson8.ae/rest-api/v1/incoming-messages/ack>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: path-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
msgID	message-id of the incoming message that is to be acknowledged

### Sample Request

<https://www.reson8.ae/rest-api/v1/incoming-messages/ack/12345>



### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description

### Sample Response

```
{  
  "requestID": "c0ab901e-d389-4918-aa54-ed6957b8a8ce",  
  "errorLevel": 9001,  
  "procResponse": "Invalid message-id (227)"  
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9001	data validation failure
9002	request processing/information retrieval failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
500	Unexpected application error





## Send OTP message

### API Purpose

The purpose of the API is to send OTP message

### Request URL

<https://www.reson8.ae/rest-api/v1/otp/send>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
from	from-address, i.e., short-code or message-header
to	recipient mobile number
languageCode	language indicator for OTP SMS text (possible values: EN/AR, default: EN)
template	custom message template (placeholders: %OTP% for the OTP code, %OTP_VALIDITY% for the validity)
otpLength	length of OTP code (min: 4, max: 8, default: 6)
validity	validity of OTP code in minutes (min: 1, max: 5, default: 3)
appHash	for sending OTP as per SMS Retriever API guidelines to enable automatic verification
toEmail	recipient email address
emailSubject	email subject (mandatory for sending OTP by email)
emailTemplate	custom message template (placeholders: %OTP% for the OTP code, %OTP_VALIDITY% for the validity)



### Sample Request

```
{
  "from": "1234",
  "to": "971500000000"
}
```

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>campaignID</b>	campaign-id (if the message was queued successfully)
<b>otpReference</b>	OTP reference code (for use in verification request)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 9001,
  "procResponse": "Unregistered from-address (464)"
}
```

### Response error-levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>429</b>	Too many requests
<b>500</b>	Unexpected application error
<b>503</b>	Service temporarily not available



## Verify OTP

### API Purpose

The purpose of the API is to verify OTP message

### Request URL

<https://www.reson8.ae/rest-api/v1/otp/verify>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
otpReference	OTP reference received from Send-OTP API request
otpCode	OTP code provided by user

### Sample Request

```
{  
  "otpReference": "01234567-0123-0123-0123-012345678901",  
  "otpCode": "000000"  
}
```



### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
campaignID	campaign-id (if the message was queued successfully)

### Sample Response

```
{  
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",  
  "errorLevel": 0,  
  "procResponse": "OTP verified successfully"  
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9002	OTP validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Validate Mobile Number

### API Purpose

The purpose of the API is to validate if a number is structurally a valid mobile number

### Request URL

<https://www.reson8.ae/rest-api/v1/number/validate>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

**Request Body:** an array of mobile numbers (maximum 100 per-request)

### Sample Request

```
["971500000000","971511111111"]
```

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
statusInfo.number	mobile number that has been validated
statusInfo.status	indicates if a mobile number is valid or not



### Sample Response

```

{
  "requestID": "acc3c8b7-4967-432f-8833-b29fb237e631",
  "errorLevel": 0,
  "statusInfo": [
    {
      "number": "971500000000",
      "status": "VALID"
    },
    {
      "number": "971511111111",
      "status": "INVALID"
    }
  ]
}

```

### Response error-levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Retrieve Mobile Number Info

### API Purpose

The purpose of the API is to retrieve detailed information for a mobile number based on an HLR lookup

### Request URL

<https://www.reson8.ae/rest-api/v1/number/info>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

**Request Body:** an array of mobile numbers (maximum 100 per-request)

### Sample Request

```
["971500000000","971511111111"]
```

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
infoData.number	mobile number that has been validated
infoData.mccMnc	MCC-MNC code associated with a mobile number



<b>infoData.ported</b>	indicates if a mobile number has been ported or not
<b>infoData.roaming</b>	indicates if a mobile number is in roaming state
<b>infoData.originalNetwork</b>	original network operator information
<b>infoData.portedNetwork</b>	network information of the current operator if the number has been ported
<b>infoData.roamingNetwork</b>	network information of the roaming operator if the number is in roaming state
<b>infoData.status</b>	status information to indicate whether a number is a valid or not
<b>infoData.error</b>	error details describing the validation failure

### Sample Response

```
{
  "requestID": "99283a9d-5468-4ac5-a465-c2d823fe1b1b",
  "errorLevel": 0,
  "infoData": [
    {
      "number": "971511111111",
      "originalNetwork": {},
      "ported": false,
      "roaming": false,
      "status": {
        "code": "REJECTED_PREFIX_MISSING",
        "description": "Number prefix missing"
      }
    },
    {
      "number": "971500000000",
      "mccMnc": "42402",
      "originalNetwork": {
        "networkName": "Etisalat (Emirates Telecom Corp)",
        "countryName": "United Arab Emirates",
        "countryPrefix": "971"
      },
      "ported": false,
      "roaming": false,
      "status": {
        "code": "UNDELIVERABLE_NOT_DELIVERED",
        "description": "Message sent not delivered"
      },
      "error": {
        "code": "EC_FACILITY_NOT_SUPPORTED",
        "description": "Facility Not Supported",
        "permanent": false
      }
    }
  ]
}
```





### Response error-levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Add/Update Contact

### Purpose of the API

The purpose of the API is to create a new contact or update an existing one.

### Request URL

<https://www.reson8.ae/rest-api/v1/address-book/contact>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
firstName	first name
lastName	last name
mobileNumber	mobile number (no duplicates allowed) – will be used as key to update an existing contact when no external-id is applicable for a particular account
status	to indicate whether a contact is active or not (possible values: Y/N)
extID	external-id (no duplicates allowed) – will be used as key to update an existing contact when external-id is applicable for an account
data	to specify additional contact attributes (fax, email, address, speciality, company, country)



### Sample Request Body

```
{
  "firstName": "John",
  "lastName": "Doe",
  "mobileNumber": "971xxyyyyyyy",
  "status": "Y",
  "extID": "H123456",
  "data": {
    "speciality": "GP",
    "company": "ABC Pvt Ltd",
    "country": "UAE"
  }
}
```

### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>contactID</b>	contact-id for the created/updated contact

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Contact saved successfully",
  "contactID": "9bae3d40-9a70-4568-9dd1-6477cdbca435"
}
```

### Response Error-Levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error



Exact error/status description will be available in the **procResponse** attribute in the response body

#### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
409	Conflict (generally due to a duplicate mobile-no when using external-id)
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Get Contact Info

### API Purpose

The purpose of the API is to retrieve contact details

### Request URL

<https://www.reson8.ae/rest-api/v1/address-book/contact>

### Request Method

The API can be requested via GET

### Request-Input-Format

The format for the request input is: path-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
contactID	contact-id of the contact for which information is to be retrieved

### Sample Request

<https://www.reson8.ae/rest-api/v1/address-book/contact/aa3120a1-bfdb-44f0-9ac0-0f2c1add51c>

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)



<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>firstName</b>	first name
<b>lastName</b>	last name
<b>mobileNumber</b>	mobile number
<b>Status</b>	status indicator whether a contact is active or not
<b>extID</b>	external-id
<b>Data</b>	additional contact attributes (fax, email, address, speciality, company, country)

### Sample Response

```
{
  "requestID": "3327f1b2-54c7-4d0d-82f2-e1281dd74d2b",
  "errorLevel": 0,
  "firstName": "John",
  "lastName": "Doe",
  "mobileNumber": "971xyyyyyyyy",
  "status": "Y",
  "extID": "H123456",
  "data": {
    "speciality": "GP",
    "company": "ABC Pvt Ltd",
    "country": "UAE"
  }
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9002	request processing/information retrieval failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error



## Opt-out Contact

### API Purpose

The purpose of the API is to opt out a contact from receiving any further SMS messages

### Request URL

<https://www.reson8.ae/rest-api/v1/address-book/optout>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: path-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
contactID	contact-id of the contact that is to be opted-out

### Sample Request

<https://www.reson8.ae/rest-api/v1/address-book/optout/aa3120a1-bfdb-44f0-9ac0-0f2c1add51c>



### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description

### Sample Response

```
{
  "requestID": "c0ab901e-d389-4918-aa54-ed6957b8a8ce",
  "errorLevel": 9001,
  "procResponse": "Invalid contact-id (227)"
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9001	data validation failure
9002	request processing/information retrieval failure
9003	contact-id is invalid
9004	contact has already opted-out
9005	unknown contact opt-out status
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
500	Unexpected application error





## Validate URL Tracking-ID

### API Purpose

The purpose of the API is to verify whether a URL tracking-id is valid, and then accordingly validate if it has been used earlier or not.

### Request URL

<https://www.reson8.ae/rest-api/v1/url/validate>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: path-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
uniqueID	unique-id (i.e., uld parameter) from the URL that has to be validated

### Sample Request

<https://www.reson8.ae/rest-api/v1/url/validate/bb3120a1-bfdb-44f0-9ac0-0f2c1add522>



### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description

### Sample Response

```
{
  "requestID": "c0ab901e-d389-4918-aa54-ed6957b8a8ce",
  "errorLevel": 9001,
  "procResponse": "Invalid unique-id (227)"
}
```

### Response error-levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9001</b>	data validation failure
<b>9002</b>	request processing/information retrieval failure
<b>9003</b>	url unique-id is invalid
<b>9004</b>	url unique-id is already used
<b>9005</b>	unknown url unique-id status
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>500</b>	Unexpected application error



## Initialize VAPID keys for Web-Push

### Purpose of the API

The purpose of the API is to initialize the VAPID (Voluntary Application Server Identification) keys for sending web-push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/web-push/init>

### Request Method

The API can be requested via POST

### Request-Input-Format

There is no input parameter required for this request

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
publicKey	VAPID public-key

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Keys initialized successfully",
  "publicKey": "abce3d409a7045689dd16477cdbca435"
}
```



### Response Error-Levels

Error Level	Description
0	request completed successfully
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Register Device for Web-Push

### Purpose of the API

The purpose of the API is to register a web-browser for receiving web-push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/web-push/register>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-0a
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
endpoint	web-push subscription endpoint
publicKey	web-push subscription public-key
authKey	web-push subscription auth-key
deviceID	device-id if the browser has been registered previously (optional)



### Sample Request Body

```
{
  "endpoint":
  "https://sg2p.notify.windows.com/w/?token=BQYBBBBcUYJQzWYyCdZCqP%2fhk0SW0IneN0U%2f9CqlwPuBCR
  XnN81MrB5XLcHDsC7UZsEGyBj%2fs0YEPcCu4iiMChlu04yjTeyls9CBTO1JBFdt1LZ3%2bBwTT5%2bljwZBxB8Bfu2
  W7xJCG%2b3UL1RCEYpZJfktxMkXWIIOGFdItsFN6p39%2f8kEUoLqgnRQtBiJh2ht%2bzy8IRLNKuxY81ki00N2z0S1EI
  46pd74cX2DceruHClBZddWEOWd54PWCdWByRKGkN6FByWD3WRBezR68OOo1C8PNMKYr2e5dhCMBOXEcGh0
  4nwiOmyMOfdKQowl9mlW32od2E%3d",
  "publicKey": "BLs-
  Df0wYZMdCbTJCN1FoFrodGXhCf0qUNizOo1o6kCilt8WlyM7xyWqxXdkjKRXcPn3RNkqTZ9y9_IB92sSxQWk",
  "authKey": "XS1-KP9qnrdbxNLzoGz7X",
  "deviceId": "xb96a0eaq0ff11eaa30c00248103222c"
}
```

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
deviceId	device-id for the registered browser

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Device registered successfully",
  "deviceId": "9bae3d409a7045689dd16477cdbca435"
}
```

### Response Error-Levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error



Exact error/status description will be available in the **procResponse** attribute in the response body

#### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Set Profile Information for a Web Browser

### Purpose of the API

The purpose of the API is to associate application-specific user-identity for a web-browser that has been registered for push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/web-push/profile>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
deviceID	device-id for which profile information has to be updated
appUserID	application user-identifier

### Sample Request Body

```
{
  "deviceID": "xb96a0eaq0ff11eaa30c00248103222c",
  "appUserID": "john-smith"
}
```





### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Profile information updated successfully"
}
```

### Response Error-Levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Update Tags/Segmentation for a Web Browser

### Purpose of the API

The purpose of the API is to associate tags for a web-browser that has been registered for push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/web-push/tags>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
deviceID	device-id for which profile information has to be updated
mode	update mode (Overwrite/Add/Remove)
tags	one or more segmentation tags

### Sample Request Body

```
{
  "deviceID": "xb96a0eaq0ff11eaa30c00248103222c",
  "mode": "Add"
  "tags": ["VIP"]
}
```



### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Tags updated successfully"
}
```

### Response Error-Levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Send Web-Push Notification

### Purpose of the API

The purpose of the API is to send a web-push notification.

### Request URL

<https://www.reson8.ae/rest-api/v1/web-push/send>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
payloadTitle	web-push payload title
payloadOptions	web-push payload options
targetType	target type (All/ID/User/Tag)
targetData	one or more device-id/user/tag (max: 100)
startDateTime	start date-time, applicable in tag-based targeting (format: yyyy-MM-dd HH:mm)
endDateTime	end date-time, applicable in tag-based targeting (format: yyyy-MM-dd HH:mm)



### Sample Request Body

```
{
  "payloadTitle": "This is a test notification",
  "payloadOptions": {},
  "targetType": "All"
}
```

### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>notificationID</b>	notification-id (if the notification was queued successfully)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Notification enqueued successfully",
  "notificationID": "9bae3d409a7045689dd16477cdbca435"
}
```

### Response Error-Levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>429</b>	Too many requests
<b>500</b>	Unexpected application error
<b>503</b>	Service temporarily not available



## Check Status of Web-Push Notification

### Purpose of the API

The purpose of the API is to check the status of a web-push notification

### Request URL

<https://www.reson8.ae/rest-api/v1/web-push/status>

### Request Method

The API can be requested via GET

### Request-Input-Format

The format for the request input is: path-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-oa
X-Reson8-Token	ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
notificationID	notification-id of the notification for which status needs to be checked

### Sample Request

<https://www.reson8.ae/rest-api/v1/web-push/status/0a7acabef8f74cabb5256f2e890683fc>

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
statusInfo	array of objects providing recipient-wise status-information



### Sample Response

```
{
  "requestID": "4b1f8ebb-785d-4515-a18f-bf72f79b981a",
  "errorLevel": 0,
  "statusInfo": [{"deviceId":"1a7acabef8f74cabb5256f2e890683fd","status":"Y","errorDesc":"N/A" }]
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9001	data validation failure
9002	request processing/information retrieval failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error



## Initialize FCM/APNS keys for Mobile-Push

### Purpose of the API

The purpose of the API is to initialize the FCM/APNS keys for sending mobile-push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/mobile-push/init>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-mp
X-Reson8-Token	bffaf7bff3d572e0f1f7c664ac1bb31f8ecfd719dc281858507e44fff2a6ca3c
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
appPlatform	app platform (android/ios)
keyFile	key file (FCM service-account or APNS auth-key encoded as Base-64)
keyID	key-id (for ios only)
teamID	team-id (for ios only)
bundleID	Application bundle-id (for ios only)





### Sample Request Body

```
{
  "appPlatform": "Android",
  "keyFile": "fyK0eTBSIjoEc2RfyK0eTBSIjoEc2RfyK0eTBSIjoEc2R"
}
```

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Key-information initialized successfully"
}
```

### Response Error-Levels

Error Level	Description
0	request completed successfully
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Initialize app key for Mobile-Push

### Purpose of the API

The purpose of the API is to initialize the application key for registering devices and designate the primary Reson8 client account that will be used for processing notifications related to the app.

### Request URL

<https://www.reson8.ae/rest-api/v1/mobile-push/init-app-key>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-mp
X-Reson8-Token	bffaf7bff3d572e0f1f7c664ac1bb31f8ecfd719dc281858507e44fff2a6ca3c
api-key	Refer section: <a href="#">How to get access to the API key</a>

### Request Attributes

Name	Value
clientUsername	reson8 account name (for sending notifications)

### Sample Request Body

```
{  
  "clientUsername": "ABC1234"  
}
```



### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "App-key initialized successfully"
}
```

### Response Error-Levels

Error Level	Description
0	request completed successfully
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Register Device for Mobile-Push

### Purpose of the API

The purpose of the API is to register a mobile-device for receiving mobile-push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/mobile-push/register>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-mp
X-Reson8-Token	bffaf7bff3d572e0f1f7c664ac1bb31f8ecfd719dc281858507e44fff2a6ca3c
app-key	Refer section: <a href="#">Initialize app key for Mobile-Push</a>

### Request Attributes

Name	Value
appPlatform	app platform (android/ios)
deviceToken	device token (received from FCM/APNS)
deviceID	device-id if the device has been registered previously (optional)

### Sample Request Body

```
{
  "appPlatform": "Android",
  "deviceToken": "73562a9c8f06d7a:ada9c8f06d7a71cc73562131de5e",
  "deviceID": "411eb 62600b411ebbf15002411eb222b"
}
```



### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>deviceID</b>	device-id for the registered device

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Device registered successfully",
  "deviceID": "9bae3d409a7045689dd16477cdbca435"
}
```

### Response Error-Levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>429</b>	Too many requests
<b>500</b>	Unexpected application error
<b>503</b>	Service temporarily not available



## Set Profile Information for a Mobile Device

### Purpose of the API

The purpose of the API is to associate application-specific user-identity for a web-browser that has been registered for push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/mobile-push/profile>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-mp
X-Reson8-Token	bffaf7bff3d572e0f1f7c664ac1bb31f8ecfd719dc281858507e44fff2a6ca3c
app-key	Refer section: <a href="#">Initialize app key for Mobile-Push</a>

### Request Attributes

Name	Value
deviceID	device-id for which profile information has to be updated
appUserID	application user-identifier

### Sample Request Body

```
{
  "deviceID": "xb96a0eaq0ff11eaa30c00248103222c",
  "appUserID": "john-smith"
}
```



### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Profile information updated successfully"
}
```

### Response Error-Levels

Error Level	Description
0	request completed successfully
9000	invalid input structure
9001	data validation failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error
503	Service temporarily not available



## Update Tags/Segmentation for a Mobile Device

### Purpose of the API

The purpose of the API is to associate tags for a device that has been registered for push notifications.

### Request URL

<https://www.reson8.ae/rest-api/v1/mobile-push/tags>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-mp
X-Reson8-Token	bffaf7bff3d572e0f1f7c664ac1bb31f8ecfd719dc281858507e44fff2a6ca3c
api-key	Refer section: <a href="#">Initialize app key for Mobile-Push</a>

### Request Attributes

Name	Value
deviceID	device-id for which profile information has to be updated
mode	update mode (Overwrite/Add/Remove)
tags	one or more segmentation tags

### Sample Request Body

```
{
  "deviceID": "xb96a0eaq0ff11eaa30c00248103222c",
  "mode": "Add"
  "tags": ["VIP"]
}
```





### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Tags updated successfully"
}
```

### Response Error-Levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>429</b>	Too many requests
<b>500</b>	Unexpected application error
<b>503</b>	Service temporarily not available



## Send Mobile-Push Notification

### Purpose of the API

The purpose of the API is to send a mobile-push notification.

### Request URL

<https://www.reson8.ae/rest-api/v1/mobile-push/send>

### Request Method

The API can be requested via POST

### Request-Input-Format

The format for the request input is: application/json

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-mp
X-Reson8-Token	bffaf7bff3d572e0f1f7c664ac1bb31f8ecfd719dc281858507e44fff2a6ca3c
api-key	Refer section: <a href="#">How to get access to the API key</a>
app-key	Refer section: <a href="#">Initialize app key for Mobile-Push</a>

### Request Attributes

Name	Value
payloadTitle	notification title
payloadBody	notification body
payloadOptions	mobile-push payload options (refer <a href="#">Appendix B</a> for android & <a href="#">Appendix C</a> for iOS)
customData	custom notification data
targetPlatform	target type (All/Android/iOS)
targetType	target type (All/ID/User/Tag)
targetData	one or more device-id/user/tag (max: 100)
startDateTime	start date-time, applicable in tag-based targeting (format: yyyy-MM-dd HH:mm)
endDateTime	end date-time, applicable in tag-based targeting (format: yyyy-MM-dd HH:mm)
mode	notification-mode (P for production or D for development/dry-run)



### Sample Request Body

```
{
  "payloadTitle": "Test notification",
  "payloadBody": "This is a test notification",
  "targetType": "All",
  "mode": "D"
}
```

### Response Attributes

Name	Value
<b>requestID</b>	unique request reference (available only post authentication)
<b>errorLevel</b>	error category (available only post authentication)
<b>procResponse</b>	status/error description
<b>notificationID</b>	notification-id (if the notification was queued successfully)

### Sample Response

```
{
  "requestID": "abae3d40-9a70-4568-9dd1-6477cdbca876",
  "errorLevel": 0,
  "procResponse": "Notification enqueued successfully",
  "notificationID": "9bae3d409a7045689dd16477cdbca435"
}
```

### Response Error-Levels

Error Level	Description
<b>0</b>	request completed successfully
<b>9000</b>	invalid input structure
<b>9001</b>	data validation failure
<b>9998/9999</b>	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
<b>200</b>	OK
<b>401</b>	Unauthorized
<b>429</b>	Too many requests
<b>500</b>	Unexpected application error
<b>503</b>	Service temporarily not available



## Check Status of Mobile-Push Notification

### Purpose of the API

The purpose of the API is to check the status of a mobile-push notification

### Request URL

<https://www.reson8.ae/rest-api/v1/mobile-push/status>

### Request Method

The API can be requested via GET

### Request-Input-Format

The format for the request input is: path-parameters

### Security Headers

Name	Value
X-Reson8-ID	reson8rest-mp
X-Reson8-Token	bffaf7bff3d572e0f1f7c664ac1bb31f8ecfd719dc281858507e44fff2a6ca3c
api-key	Refer section: <a href="#">How to get access to the API key</a>
app-key	Refer section: <a href="#">Initialize app key for Mobile-Push</a>

### Request Attributes

Name	Value
notificationID	notification-id of the notification for which status needs to be checked

### Sample Request

<https://www.reson8.ae/rest-api/v1/mobile-push/status/0a7acabef8f74cabb5256f2e890683fc>

### Response Attributes

Name	Value
requestID	unique request reference (available only post authentication)
errorLevel	error category (available only post authentication)
procResponse	status/error description
statusInfo	array of objects providing recipient-wise status-information



### Sample Response

```
{
  "requestID": "4b1f8ebb-785d-4515-a18f-bf72f79b981a",
  "errorLevel": 0,
  "statusInfo": [{"deviceId":"1a7acabef8f74cabb5256f2e890683fd","status":"Y","errorDesc":"N/A" }]
}
```

### Response error-levels

Error Level	Description
0	request completed successfully
9001	data validation failure
9002	request processing/information retrieval failure
9998/9999	unexpected application error

Exact error/status description will be available in the **procResponse** attribute in the response body

### HTTP Response Codes

HTTP Status Code	Reason
200	OK
401	Unauthorized
429	Too many requests
500	Unexpected application error



## Curl Samples for Sending Messages and Checking the Status

### Send Message:

```
curl -X POST \  
https://www.reson8.ae/rest-api/v1/message \  
-H 'Content-Type: application/json' \  
-H 'X-Reson8-ID: reson8rest-oa' \  
-H 'X-Reson8-Token: ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825' \  
-H 'api-key: PLEASE_GET_YOUR_API_KEY_FROM_USER_PROFILE_PAGE_ON_RESON8' \  
-d '{  
  "from": "MESSAGE_HEADER_GOES_HERE",  
  "to": "RECIPIENT_MOBILE_NO_GOES_HERE",  
  "text": "MESSAGE_TEXT_GOES_HERE"  
}'
```

### Check Status:

```
curl -X GET \  
https://www.reson8.ae/rest-api/v1/message/status/MESSAGE_CAMPAIN_ID_GOES_HERE \  
-H 'Content-Type: application/json' \  
-H 'Host: www.reson8.ae' \  
-H 'X-Reson8-ID: reson8rest-oa' \  
-H 'X-Reson8-Token: ada2dbe85881dd101af6e4854577f56a30c733eb31de07d84eeb3f83d11c6825' \  
-H 'api-key: PLEASE_GET_YOUR_API_KEY_FROM_USER_PROFILE_PAGE_ON_RESON8'
```



## Status feedback web-hook payload information

### Sample payload:

```
[
  {
    "id":12321,
    "campaignID":"a1571xxx-c8yy-23zz-a1aa-8037x92caax",
    "recipient":"971xyyyyyyy",
    "status":"SENT",
    "errorDesc":""
  },
  {
    "id":43432,
    "campaignID":"b1571xxx-b8yy-43zz-a1aa-1047f92caax",
    "recipient":"971xyyyyyyy",
    "status":"DELIVERED",
    "errorDesc":""
  }
]
```

### Possible status values:

- PENDING
- IN PROGRESS
- SENT
- DELIVERED
- FAILED



## Incoming message web-hook payload information

### Sample payload:

```
[
  {
    "id":99999,
    "messageID":324213,
    "from":"971001234567",
    "to":"1234",
    "text":"Hello Reson8 !",
    "receivedAt":"2020-01-01 00:00:00.0",
    "campaignID": "b1571xxx-b8yy-43zz-a1aa-8037f92caaxx"
  },
  {
    "id":99990,
    "messageID":231113,
    "from":"971101234567",
    "to":"1234",
    "text":"This is a test message",
    "receivedAt":"2020-01-02 00:00:00.0"
  }
]
```





## Web-hook security information

All web-hook payloads are signed using the user's API key, this signature information from the request headers can be used to validate the authenticity of the request.

This signature is generated by hashing a combination of current UTC timestamp and serialized JSON payload.

For example, if the UTC timestamp is: **1990-01-09T16:25:00.177Z**, and the serialized JSON payload is: **{"key":"value"}**

Then the value that is used for generating the signature will be in the following form:

**1990-01-09T16:25:00.177Z|{"key":"value"}**

**Signature Algorithm:** HMAC-SHA256

**Signature Header:** X-Reson8-Signature

**Signature Value Format:** t=<UTC\_ISO\_TIMESTAMP>,s=<SIGNATURE\_VALUE>

**Sample Signature Header Value:**

t=1990-01-09T16:25:00.177Z,s=X3kqxDxgzCt9xmt4pyllEpaZa4H37fbZu8QYAgUkCLc=



## Appendix A (Time-zone codes)

Code	Description
90	(GMT+04:00) Abu Dhabi, Muscat
1	(GMT-12:00) International Date Line West
2	(GMT-11:00) Midway Island, Samoa
3	(GMT-10:00) Hawaii
4	(GMT-09:00) Alaska
5	(GMT-08:00) Tijuana, Baja California
6	(GMT-08:00) Pacific Time (US & Canada)
7	(GMT-07:00) Mountain Time (US & Canada)
8	(GMT-07:00) Chihuahua, La Paz, Mazatlan
9	(GMT-07:00) Arizona
10	(GMT-06:00) Saskatchewan
11	(GMT-06:00) Guadalajara, Mexico City, Monterrey
12	(GMT-06:00) Central Time (US & Canada)
13	(GMT-06:00) Central America
14	(GMT-05:00) Indiana (East)
15	(GMT-05:00) Eastern Time (US & Canada)
16	(GMT-05:00) Bogota, Lima, Quito, Rio Branco
17	(GMT-04:30) Caracas
18	(GMT-04:00) Santiago
19	(GMT-04:00) Manaus
20	(GMT-04:00) La Paz
21	(GMT-04:00) Atlantic Time (Canada)
22	(GMT-03:30) Newfoundland
23	(GMT-03:00) Montevideo
24	(GMT-03:00) Greenland
25	(GMT-03:00) Georgetown
26	(GMT-03:00) Buenos Aires
27	(GMT-03:00) Brasilia
28	(GMT-02:00) Mid-Atlantic
29	(GMT-01:00) Cape Verde Is.
30	(GMT-01:00) Azores
31	(GMT) Casablanca
32	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
33	(GMT) Monrovia, Reykjavik
34	(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
35	(GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
36	(GMT+01:00) Brussels, Copenhagen, Madrid, Paris
37	(GMT+01:00) Sarajevo, Skopje, Warsaw, Zagreb



38	(GMT+01:00) West Central Africa
39	(GMT+02:00) Amman
40	(GMT+02:00) Athens, Bucharest, Istanbul
41	(GMT+02:00) Beirut
42	(GMT+02:00) Cairo
43	(GMT+02:00) Harare, Pretoria
44	(GMT+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius
45	(GMT+02:00) Jerusalem
46	(GMT+02:00) Minsk
47	(GMT+02:00) Windhoek
48	(GMT+03:00) Baghdad
49	(GMT+03:00) Kuwait, Riyadh
50	(GMT+03:00) Moscow, St. Petersburg, Volgograd
51	(GMT+03:00) Nairobi
52	(GMT+03:00) Tbilisi
53	(GMT+03:30) Tehran
55	(GMT+04:00) Baku
56	(GMT+04:00) Caucasus Standard Time
57	(GMT+04:00) Port Louis
58	(GMT+04:00) Yerevan
59	(GMT+04:30) Kabul
60	(GMT+05:00) Ekaterinburg
61	(GMT+05:00) Islamabad, Karachi
62	(GMT+05:00) Tashkent
63	(GMT+05:30) Chennai, Kolkata, Mumbai, New Delhi
64	(GMT+05:30) Sri Jayawardenepura
65	(GMT+05:45) Kathmandu
66	(GMT+06:00) Almaty, Novosibirsk
67	(GMT+06:00) Astana, Dhaka
68	(GMT+06:30) Yangon (Rangoon)
69	(GMT+07:00) Bangkok, Hanoi, Jakarta
70	(GMT+07:00) Krasnoyarsk
71	(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi
72	(GMT+08:00) Irkutsk, Ulaan Bataar
73	(GMT+08:00) Kuala Lumpur, Singapore
74	(GMT+08:00) Perth
75	(GMT+08:00) Taipei
76	(GMT+09:00) Osaka, Sapporo, Tokyo
77	(GMT+09:00) Seoul
78	(GMT+09:00) Yakutsk
79	(GMT+09:30) Adelaide
80	(GMT+09:30) Darwin
81	(GMT+10:00) Brisbane



82	(GMT+10:00) Canberra, Melbourne, Sydney
83	(GMT+10:00) Guam, Port Moresby
84	(GMT+10:00) Hobart
85	(GMT+10:00) Vladivostok
86	(GMT+11:00) Magadan, Solomon Is., New Caledonia
87	(GMT+12:00) Auckland, Wellington
88	(GMT+12:00) Fiji, Kamchatka, Marshall Is.
89	(GMT+13:00) Nuku'alofa



## Appendix B (Android Payload Options)

Option Name	Description
channelId	The notification's channel id (new in Android O). The app must create a channel with this channel ID before any notification with this channel ID is received. If you don't send this channel ID in the request, or if the channel ID provided has not yet been created by the app, FCM uses the channel ID specified in the app manifest.
clickAction	The action associated with a user click on the notification. If specified, an activity with a matching intent filter is launched when a user clicks on the notification.
collapseKey	An identifier of a group of messages that can be collapsed, so that only the last message gets sent when delivery can be resumed. A maximum of 4 different collapse keys is allowed at any given time.
color	The notification's icon color, expressed in #rrggbb format.
directBootOK	If set to true, messages will be allowed to be delivered to the app while the device is in direct boot mode. (reference: <a href="https://developer.android.com/training/articles/direct-boot">https://developer.android.com/training/articles/direct-boot</a> )
eventTimeInMillis	Set the time that the event in the notification occurred. Notifications in the panel are sorted by this time.
icon	The notification's icon. Sets the notification icon to myicon for drawable resource myicon. If you don't send this key in the request, FCM displays the launcher icon specified in your app manifest.
image	Contains the URL of an image that is going to be displayed in a notification.
localOnly	Set whether or not this notification is relevant only to the current device. Some notifications can be bridged to other devices for remote display, such as a Wear OS watch. This hint can be set to recommend this notification not be bridged. See Wear OS guides
locBodyArgs	Variable string values to be used in place of the format specifiers in body_loc_key to use to localize the body text to the user's current localization.
locBodyKey	The key to the body string in the app's string resources to use to localize the body text to the user's current localization.
locTitleArgs	Variable string values to be used in place of the format specifiers in title_loc_key to use to localize the title text to the user's current localization.
locTitleKey	The key to the title string in the app's string resources to use to localize the title text to the user's current localization.



<code>notificationCount</code>	Sets the number of items this notification represents. May be displayed as a badge count for launchers that support badging. See Notification Badge. For example, this might be useful if you're using just one notification to represent multiple new messages but you want the count here to represent the number of total new messages. If zero or unspecified, systems that support badging use the default, which is to increment a number displayed on the long-press menu each time a new notification arrives.
<code>notificationPriority</code>	Set the relative priority for this notification. Priority is an indication of how much of the user's attention should be consumed by this notification. Low-priority notifications may be hidden from the user in certain situations, while the user might be interrupted for a higher-priority notification. The effect of setting the same priorities may differ slightly on different platforms. Note this priority differs from <code>AndroidMessagePriority</code> . This priority is processed by the client after the message has been delivered, whereas <code>AndroidMessagePriority</code> is an FCM concept that controls when the message is delivered. (reference: <a href="https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#NotificationPriority">https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#NotificationPriority</a> )
<code>priority</code>	Message priority. Can take "normal" and "high" values. (reference: <a href="https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#androidmessagepriority">https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#androidmessagepriority</a> )
<code>restrictedPackageName</code>	Package name of the application where the registration token must match in order to receive the message.
<code>sound</code>	The sound to play when the device receives the notification. Supports "default" or the filename of a sound resource bundled in the app. Sound files must reside in <code>/res/raw/</code> .
<code>sticky</code>	When set to false or unset, the notification is automatically dismissed when the user clicks it in the panel. When set to true, the notification persists even when the user clicks it.
<code>tag</code>	Identifier used to replace existing notifications in the notification drawer. If not specified, each request creates a new notification. If specified and a notification with the same tag is already being shown, the new notification replaces the existing one in the notification drawer.
<code>ticker</code>	Sets the "ticker" text, which is sent to accessibility services. Prior to API level 21 (Lollipop), sets the text that is displayed in the status bar when the notification first arrives.



ttl	How long (in seconds) the message should be kept in FCM storage if the device is offline. The maximum time to live supported is 4 weeks, and the default value is 4 weeks if not set. Set it to 0 if want to send the message immediately. In JSON format, the Duration type is encoded as a string rather than an object, where the string ends in the suffix "s" (indicating seconds) and is preceded by the number of seconds, with nanoseconds expressed as fractional seconds. For example, 3 seconds with 0 nanoseconds should be encoded in JSON format as "3s", while 3 seconds and 1 nanosecond should be expressed in JSON format as "3.000000001s". The ttl will be rounded down to the nearest second.
visibility	Set the visibility of the notification (reference: <a href="https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#Visibility">https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#Visibility</a> )

**Reference URLs:**

<https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#AndroidNotification>

<https://firebase.google.com/docs/reference/fcm/rest/v1/projects.messages#AndroidConfig>



## Appendix C (iOS Payload Options)

Option Name	Description
badgeNumber	The number to display in a badge on your app's icon. Specify 0 to remove the current badge, if any.
sound	Name of the sound file to play
soundCriticalAlert	Specifies whether this sound should be played as a "critical alert" (boolean)
soundVolume	The volume at which to play the sound; must be between 0.0 (silent) and 1.0 (loudest)
threadId	An app-specific identifier for grouping related notifications. This value corresponds to the threadIdentifier property in the UNNotificationContent object.
categoryName	Action category name for interactive remote notifications
contentAvailable	The background notification flag. To perform a silent background update, specify the value true and don't include the alert, badge, or sound keys in your payload. See Pushing Background Updates to Your App.
mutableContent	The notification service app extension flag. If the value is true, the system passes the notification to your notification service app extension before delivery. Use your extension to modify the notification's content.
showActionButton	Sets whether an "action" button should be shown if the push notification is displayed as an alert (boolean)
subtitle	Additional information that explains the purpose of the notification.
launchImageFileName	The name of the launch image file to display. If the user chooses to launch your app, the contents of the specified image or storyboard file are displayed instead of your app's normal launch image.
locTitleKey	The key for a localized title string. Specify this key instead of the title key to retrieve the title from your app's Localizable.strings files. The value must contain the name of a key in your strings file.
locTitleArgs	An array of strings containing replacement values for variables in your title string. Each %@ character in the string specified by the title-loc-key is replaced by a value from this array. The first item in the array replaces the first instance of the %@ character in the string, the second item replaces the second instance, and so on.
locSubtitleKey	The key for a localized subtitle string. Use this key, instead of the subtitle key, to retrieve the subtitle from your app's Localizable.strings file. The value must contain the name of a key in your strings file.
locSubtitleArgs	An array of strings containing replacement values for variables in your title string. Each %@ character in the string specified by subtitle-loc-key is replaced by a value from this array. The first item in the array replaces the first instance of the %@ character in the string, the second item replaces the second instance, and so on.





locBodyKey	The key for a localized message string. Use this key, instead of the body key, to retrieve the message text from your app's Localizable.strings file. The value must contain the name of a key in your strings file.
locBodyArgs	An array of strings containing replacement values for variables in your message text. Each %@ character in the string specified by loc-key is replaced by a value from this array. The first item in the array replaces the first instance of the %@ character in the string, the second item replaces the second instance, and so on.

**Reference URLs:**

[https://developer.apple.com/documentation/usernotifications/setting\\_up\\_a\\_remote\\_notification\\_server/generating\\_a\\_remote\\_notification#2943360](https://developer.apple.com/documentation/usernotifications/setting_up_a_remote_notification_server/generating_a_remote_notification#2943360)



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