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API
Documentation

Whatsapp Wappin.SWC

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Change Log

No	Date	Authors	Version	Change Reference
1	22/11/2019	Rizki Kurniawan	V 1.0	Creating Document
2	06/05/2020	Rizki Kurniawan	V 1.1	Update API Message • Add API Message With Media

Daftar Isi

I. Document Overview

II. API Documentation

2.1 Login

<table>
<tr><td colspan="2" align="center">Login</td></tr>
<tr><td>URL</td><td>https://swc.wappin.id</td></tr>
<tr><td>Path</td><td>/v1/users/login</td></tr>
<tr><td>HTTP Method</td><td>POST</td></tr>
<tr><td rowspan="3">HTTP Headers</td><td>

Name	Format	Mandatory
Content-Type	application/json	Yes
Authorization	Basic base64(username:password)	Yes

</td></tr>
<tr><td rowspan="2">Request Definition</td><td></td></tr>
</table>

Name	Mandatory	Description
token	Yes	Authorization token to be used for all other WhatsApp Business API calls. The token must be sent in the authorization header in the format: Authorization: Bearer <Authorization-token>
expires_after	Yes	Token expiration timestamp. By default, this is 7 days.

Request Body	
Response	

```
{
    "users": [{
        "token":
"eyJhbGciOHlXVCJ9.eyJ1c2VyIjoNTIzMDE2Nn0.mEoF0COaO00Z1cANo",
        "expires_after": "2018-03-01 15:29:26+00:00"
    }]
}
```

2.2 Messages

2.2.1. Messages

Messages			
URL	https://swc.wappin.id		
Path	/v1/messages		
HTTP Method	POST		

HTTP Headers	Name	Format	Mandatory
	Content-Type	application/json	Yes
	Authorization	Bearer your-auth-token	Yes

Request Definition	Name	Mandatory	Description
	preview_url	No	Options: false (default), To include a URL preview, set preview_url to true in the message body and make sure the URL begins with http:// or https://.
	recipient_type	No	Options: individual (default)
	to	Yes	When recipient_type is individual, this field is the WhatsApp ID (phone number) returned from contacts endpoint.
	type	No	Default: text Specifying type in the request is optional when you are sending a text message. For media message types, see the Error! Reference source not found. Error! Reference source not found..
	text	Yes	Contains the body field

Data

Name	Mandatory	Description

	Body	Ya	The text of the text message, which can contain URLs and formatting. See the sending URLs in 2.2.1 sections for more information.

Request Body	{
	    "preview_url": false | true,
	    "recipient_type": "individual",
	    "to": "whatsapp-id",
	    "type": "text",
	    "text": {
	        "body": "your-text-message-content"
	    }
	}		

	Sending URLs in Text Messages
	
	By default, the mobile WhatsApp application recognize URLs and makes them clickable. To include URL preview, include "preview_url": true in the message body and make sure the URL begins with http:// or https://. A hostname is also required, IP addresses are not matched.
	
	{
	    "preview_url": true,
	    "to": "whatsapp-id",
	    "text": {
	        "body": "You have to check out this amazing messaging service https://www.whatsapp.com/"
	    }
	}		

Response	{
	  "messages": [{
	    "id": "gBEGkYiEB1VXAglK1ZEqA1YKPrU"
	  }]
	}		

Formatting in Text Messages

Formatting	Symbol	Example
Bold	Asterisk (*)	Your total is *$10.50*.
Italic	Underscore (_)	Welcome to _WhatsApp_!
~~Strike through~~	Tilde (~)	This is ~better~ best!
Code	Three backticks (```)	```print 'Hello World';```
Formatting	Symbol	Example

2.2.2. Message Media

Message Media	
URL	https://swc.wappin.id
Path	/v1/messages
HTTP Method	POST

HTTP Headers			
	Name	**Format**	**Mandatory**
	Content-Type	application/json	Yes
	Authorization	Bearer your-auth-token	Yes

Request Definition

Name	Mandatory	Description
`recipient_type`	No	Options: individual (default) Specifying recipient_type in the request is optional when the value is individual.
`to`	Yes	When recipient_type is individual, this field is the WhatsApp ID (phone number) returned from contacts endpoint.
`type`	Yes	Options: text (default), image, audio, document, hsm, video
`audio`	Yes	The media object containing audio
`document`	Yes	The media object containing a document
`image`	Yes	The media object containing an image
`video`	Yes	The media object containing a video

Audio, Image, Document, Video

Name	Mandatory	Description
`id`	Yes	The media object ID,
`link`	Yes	The protocol and URL of the media to be sent. Use only with HTTP/HTTPS URLs.

	caption	No	Describes the specified image, video, or document media. Do not use with audio media.
	filename	No	Describes the filename for the specific document. Use only with document media.
	provider	No	This path is optionally used with link when the HTTP/HTTPS link is not directly accessible and requires additional configurations like a bearer token.
| **Request Body** | ```json
{
  "recipient_type": "individual",
  "to": "whatsapp-id",
  "type": "audio" | "contact" | "document" | "hsm" |
"image" | "location" | "text" | "video",

  "audio": {
    "id": "your-media-id",
  }

  "document": {
    "id": "your-media-id",
    "caption": "your-document-caption-to-be-sent",
    "filename": "your-document-filename"
  }

  "document": {
      "link": "the-provider-name/protocol://the-url"
      "provider": {
          "name" : "provider-name"
      }
      "caption": "your-document-caption"
    }

  "video": {
    "id": "your-media-id",
    "caption": "your-video-caption"
  }

  "image": {
      "link": "http(s)://the-url"
      "provider": {
          "name" : "provider-name"
      }
      "caption": "your-image-caption"
    }
``` | | |

| | ```
}
``` |
| **Response** | ```
{
  "messages": [{
    "id": "gBEGkYiEB1VXAglK1ZEqA1YKPrU"
  }]
}
``` |

2.3 Media

Supported content type

Media	Supported Content-Types
document	Any valid MIME-type
image	`image/jpeg, image/png`
audio	`audio/acc, audio/mp4, audio/amr, audio/mpeg, audio/ogg; codecs=opus`
video	`video/mp4, video/3gpp` **Note: Only H.264 video codec and AAC audio codec is supported.**

2.3.1. Upload Media

Upload Media			
URL	https://swc.wappin.id		
Path	/v1/media		
HTTP Method	POST		
HTTP Headers	**Name**	**Format**	**Mandatory**
	Content-Type	image/jpeg or other appropriate media type	Yes
	Authorization	Bearer your-auth-token	Yes
Request Definition	**Note**: The maximum file size for uploaded media is **100MB**.		
Request Body	`binary-media-data`		

Response	<pre>{
	    "media": [
	        {
	            "id": "f043afd0-f0ae-4b9c-ab3d-696fb4c8cd68"
	        }
	    ]
	}</pre>		

2.3.2. Retrieving Media

Retrieving Media			
URL	https://swc.wappin.id		
Path	/v1/media/media-id		
HTTP Method	GET		
HTTP Headers	**Name**	**Format**	**Mandatory**
	Authorization	Bearer your-auth-token	Yes
Request Definition			
Request Body			
Response	`binary-media-data`		

2.3.3. Delete Media

Delete Media			
URL	https://swc.wappin.id		
Path	/v1/media/media-id		
HTTP Method	DELETE		
HTTP Headers	**Name**	**Format**	**Mandatory**
	Authorization	Bearer your-auth-token	Yes
Request Definition			
Request Body			
Response	`HTTP 200 OK`		

2.4 Contact

Contact	
URL	https://swc.wappin.id
Path	/v1/contacts
HTTP Method	Post

HTTP Headers

Name	Format	Mandatory
Content-Type	Application/json	Yes
Authorization	Bearer your-auth-token	Yes

Request Definition

Name	Mandatory	Description
blocking	No	Default: no_wait Other Options: wait
contact	Yes	Array of contact phone numbers

Request Body

```
{
    "blocking": "wait",
    "contacts": [
       "16315551003",
       "1-631-555-1002",
       "+54 9 11 5612-1008"
    ]
}
```

Response Definition

Name	Description
input	The value you sent in the `contacts` field of the JSON request.
status	Status of the user. Options include: `processing` — Input is still being processed. `valid` — Input determined to be a valid WhatsApp user. `invalid` — Input determined to **not** be a valid WhatsApp user or the phone number is in a bad format.
wa_id	WhatsApp user identifier that can be used in other API calls. Only returned if the `status` is `valid`.

Response

```
{
    "contacts": [
        {
            "input": "1-631-555-1002",
```

```
                "status": "invalid"
            },
            {
                "input": "6315551003",
                "status": "valid"
                "wa_id": "16315551003"
            },
            {
                "input": "+54 9 11 5612-1008",
                "status": "invalid"
            }
        ]
    }
```

2.5 Profile

2.5.1. About

About	
URL	https://swc.wappin.id
Path	/v1/settings/profile/about
HTTP Method	PATCH
HTTP Headers	<table><tr><th>Name</th><th>Format</th><th>Mandatory</th></tr><tr><td>Content-Type</td><td>Application/json</td><td>Yes</td></tr><tr><td>Authorization</td><td>Bearer your-auth-token</td><td>Yes</td></tr></table>
Request Definition	<table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>text</td><td>String</td><td>Text to display in your profile's About section The max length for the string is 139 characters.</td></tr></table>
| Request Body | ```json
{
    "text": "your-profile-about-text"
}
``` |
| Response | HTTP 200 OK |

2.5.2. View About

View About	
URL	https://swc.wappin.id
Path	/v1/settings/profile/about
HTTP Method	GET
HTTP Headers	<table><tr><th>Name</th><th>Format</th><th>Mandatory</th></tr><tr><td>Content-Type</td><td>Application/json</td><td>Yes</td></tr><tr><td>Authorization</td><td>Bearer your-auth-token</td><td>Yes</td></tr></table>
Request Definition	
Request Body	
Response	```{ "settings": { "profile": { "about": { "text": "your-profile-about-text" } } } }```

2.5.3. Update Foto About

Update foto About			
URL	https://swc.wappin.id		
Path	/v1/settings/profile/photo		
HTTP Method	POST		
HTTP Headers	**Name**	**Format**	**Mandatory**
	Content-Type	image/jpeg	Yes
	Authorization	Bearer your-auth-token	Yes
Request Definition			
Request Body	`your-binary-image-content`		
Response	`HTTP 200 OK`		

2.5.4. Get Foto

Get Foto	
URL	https://swc.wappin.id
Path	/v1/settings/profile/photo
HTTP Method	GET
HTTP Headers	<table><tr><th>Name</th><th>Format</th><th>Mandatory</th></tr><tr><td>Content-Type</td><td>image/jpeg</td><td>Yes</td></tr><tr><td>Authorization</td><td>Bearer your-auth-token</td><td>Yes</td></tr></table>
Request Body	`your-binary-image-content`
Response	`base64`

2.5.5. Get URL Foto

Get URL Foto	
URL	https://swc.wappin.id
Path	/v1/settings/profile/photo?format=link
HTTP Method	GET
HTTP Headers	<table><tr><th>Name</th><th>Format</th><th>Mandatory</th></tr><tr><td>Content-Type</td><td>image/jpeg</td><td>Yes</td></tr><tr><td>Authorization</td><td>Bearer your-auth-token</td><td>Yes</td></tr></table>
Request Body	
Response	```{ "settings": { "profile": { "photo": { "link": "profile-photo-url" } } } }```

2.5.6. Delete Foto

Delete Foto			
URL	https://swc.wappin.id		
Path	/v1/settings/profile/photo		
HTTP Method	Delete		
HTTP Headers	**Name**	**Format**	**Mandatory**
	Content-Type	image/jpeg	Yes
	Authorization	Bearer your-auth-token	Yes
Request Definition			
Request Body			
Response	`HTTP 200 OK`		

2.6 Business Profile Setting

2.6.1. Business Profile Setting

Business Profile Setting	
URL	https://swc.wappin.id
Path	/v1/settings/business/profile
HTTP Method	POST

HTTP Headers	Name	Format	Mandatory
	Content-Type	Application/json	Yes
	Authorization	Bearer your-auth-token	Yes

Request Definition	Name	Type	Description
	address	String 256	Address of the business Maximum of 256 characters
	description	String 256	Description of the business Maximum of 256 characters
	email	String 128	Email address to contact the business Maximum of 128 characters
	vertical	String 128	Industry of the business
	websites	Array String 256	URLs associated with business (e.g., website, Facebook Page, Instagram) Maximum of 2 websites with a maximum of 256 characters each

Request Body	
| | ```
{
    "address": "your-business-address",
    "description": "your-business-description",
    "email": "your-business-email",
    "vertical": "your-business-industry",
    "websites": [ "your-website-1", "your-website-2" ]
}
``` |

Response	

2.6.2. Get Business Profile Setting

Retreive Profile Setting	
URL	https://swc.wappin.id
Path	/v1/settings/business/profile
HTTP Method	GET
HTTP Headers	<table><tr><th>Name</th><th>Format</th><th>Mandatory</th></tr><tr><td>Content-Type</td><td>Application/json</td><td>Yes</td></tr><tr><td>Authorization</td><td>Bearer your-auth-token</td><td>Yes</td></tr></table>
Request Definition	
Request Body	
| Response | ```json
{
    "settings": {
       "business": {
          "profile": {
             "address": "new-business-address",
             "description": "business-description",
             "email": "new-business-email",
             "vertical": "business-industry",
             "websites": [ "website-1", "website-2" ]
          }
       }
    }
}
``` |

2.7 Webhook/Callback

2.7.1. Inbound Notification

Requirements

To deploy a live Webhook that can receive Webhook events from the WhatsApp Business API, your code must have the following:

- HTTPS support
- A valid SSL certificate
- Clients must provide a URL webhook to the Wappin team as part of their implementation

Inbound Notification	
URL	https://swc.wappin.id
Path	
HTTP Method	POST
Request Definition	<table><tr><td>Name</td><td>Object contents</td></tr><tr><td>messages</td><td>Inbound message notifications</td></tr><tr><td>statuses</td><td>Message status updates</td></tr><tr><td>errors</td><td>Serious out-of-band errors</td></tr></table>

Example Notification Statuses	**Sent :**
	`{`
	`  "statuses": [`
	`    {`
	`      "id": "gBGGhSkIc2B_AgkXDygfSDwgG5s",`
	`      "recipient_id": "1234567890",`
	`      "status": "sent",`
	`      "timestamp": "1529381076"`
	`    }`
	`  ]}`
	
	Delivered :
	`{`
	`  "statuses": [`

```
        {
          "id": "gBGGhSkIc2B_AgkXDygfSDwgG5s",
          "recipient_id": "1234567890",
          "status": "delivered",
          "timestamp": "1529381076"
        }
      ]
    }


Read:
{
  "statuses": [
        {
          "id": "gBGGhSkIc2B_AgkXDygfSDwgG5s",
          "recipient_id": "1234567890",
          "status": "read",
          "timestamp": "1529381076"
        }
      ]
    }
```

| Format Notification Message Success | ```
{
  "contacts": [ {
    "profile": {
        "name": "sender-profile-name"
    },
    "wa_id": "wa-id-of-contact"
  } ],
  "messages": [
    "context": {
        "from": "sender-wa-id-of-context-message",
        "id": "message-id-of-context-message",
        "mentions": [ "wa-id1", "wa-id2" ]
    },
    "from": "sender-wa-id",
    "id": "message-id",
    "timestamp": "message-timestamp",
    "type": "audio | document | image | location | system | text
| video | voice",

    # If there are any errors the errors field (array) will be
present.
    # The errors field can be returned as part of any callback
event.
    "errors": [ { ... } ],

    "audio": {
        "file": "absolute-filepath-on-coreapp",
        "id": "media-id",
        "link": "link-to-audio-file",
        "mime_type": "media-mime-type",
         "sha256": "checksum"
    }

    "document": {
        "file": "absolute-filepath-on-coreapp",
        "id": "media-id",
``` |

	```json "link": "link-to-document-file", "mime_type": "media-mime-type", "sha256": "checksum", "caption": "document-caption" } "image": { "file": "absolute-filepath-on-coreapp", "id": "media-id", "link": "link-to-image-file", "mime_type": "media-mime-type", "sha256": "checksum", "caption": "image-caption" } "location": { "address": "1 Hacker Way, Menlo Park, CA, 94025", "latitude": latitude, "longitude": longitude, "name": "location-name" } "system": { "body": "system-message-content" } "text": { "body": "text-message-content" } "video": { "file": "absolute-filepath-on-coreapp", "id": "media-id", "link": "link-to-video-file", "mime_type": "media-mime-type", "sha256": "checksum" } "voice": { "file": "absolute-filepath-on-coreapp", "id": "media-id", "link": "link-to-audio-file", "mime_type": "media-mime-type", "sha256": "checksum" }] }```
Example Notification Message	```json{ "contacts": [{ "profile": { "name": "Alvinw" }, "wa_id": "628989229471" }], "messages": [```

	``json
	        {
	          "from": "628989229471",
	          "id": "ABEGYomJIpRxAgo-sBGMZrMYc8TT",
	          "text": {
	            "body": "tes"
	          },
	          "timestamp": "1562314210",
	          "type": "text"
	        }
	      ]
	    }
	``

Error Parameters	<table><tr><th>Field Name</th><th>Description</th><th>Type</th></tr><tr><td>code</td><td>Error code</td><td>Numeric</td></tr><tr><td>title</td><td>Error title</td><td>String</td></tr><tr><td>details</td><td>Optional. Error details provided, if available/applicable</td><td>String</td></tr><tr><td>href</td><td>Optional. Location for error detail.</td><td>String</td></tr></table>

Format Notification Error	```json
	{
	    "errors": [{
	        "code": <error-code>,
	        "title": "<error-title>",
	        "details": "<error-description>",
	        "href": "location for error detail"
	    },
	    {
	        ...
	    }
	    ]
	}
	``

2.7.2. Message Status Notification

The WhatsApp Business API client will send notifications to inform you of the status of the messages between you and users. When a message is sent successfully, you will receive a notification when the message is sent, delivered, and read. The order of these notifications in your app may not reflect the actual timing of the message status. View the timestamp to determine the timing, if necessary. The notifications you may receive are:

- sent — Message sent by your business was received by the server. To receive notifications for sent messages, set the sent_status setting to true in the application settings. Sent status notification is off by default.
- delivered — Message sent by your business was delivered to the user's device.
- read — Message sent by your business was read by the user. Read notifications will only be available for those users that have read receipts enabled. For users that do not have it enabled, you will only receive the delivered notification.
- failed — Message sent by your business failed to send. Reason for failure will be included in the callback; also see Error Messages doc for further description of the failure.
- deleted — message the user sent to your business was deleted by the user.

Message Status Notification			
URL	https://swc.wappin.id		
Path			
HTTP Method	POST		
Request Definition	**Name**	**Type**	**Description**
	`statuses`	Array of any type of status message	Statuses Object
	Statuses Object		
	Name	**Description**	**Type**
	id	Message ID	String

	recipient_id	WhatsApp ID of recipient	String
	status	Status of message: read, delivered, sent, failed, or deleted.	String
	timestamp	Timestamp of the status message	String

Example Message Sent	```
	{
	  "statuses":[{
	    "id": "ABGGFlA5FpafAgo6tHcNmNjXmuSf",
	    "recipient_id": "16315555555",
	    "status": "sent",
	    "timestamp": "1518694700"
	  }]
	}
	``		

Example Message Delivered	```
	{
	  "statuses":[{
	    "id": "ABGGFlA5FpafAgo6tHcNmNjXmuSf",
	    "recipient_id": "16315555555",
	    "status": "delivered",
	    "timestamp": "1518694708"
	  }]
	}
	``		

Example Message Read	```
	{
	  "statuses":[{
	    "id": "ABGGFlA5FpafAgo6tHcNmNjXmuSf",
	    "recipient_id": "16315555555",
	    "status": "read",
	    "timestamp": "1518694722"
	  }]
	}
	``		

Example Message Failed	```
	{
	  "statuses": [{
	    "errors": [{
	      "code": 470,
	      "title": "Failed to send message because you are outside the support window for freeform messages to this user. Please use a valid HSM notification or reconsider."
	    }],
	    "id": "gBGGEgZHMlEfAgkM1RBkhDRr7t8",
	    "recipient_id": "12064001000",
	    "status": "failed",
	    "timestamp": "1533332775"
	  }]
	}
	``		

Example Message Deleted	<pre>{
	  "statuses": [{
	        "id": "ABGGFmkiWVVPAgo66iFiii_-TG0-",
	        "recipient_id": "16692259554",
	        "status": "deleted",
	        "timestamp": "1532413514"
	    }]
	}</pre>

All Possible Message Statuses

Status	Description	WhatsApp Mobile Equivalent
sent	Message received by WhatsApp server	One checkmark
delivered	Message delivered to recipient	Two checkmarks
read	Message read by recipient	Two blue checkmarks
failed	Message failed to send	Red error triangle
deleted	Message deleted by the user	Message is replaced in WhatsApp mobile with a note 'This message was deleted'