

# WhatsApp Cloud API - Business Encryption API | Developer Documentation

## WhatsApp Cloud API - Business Encryption API

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Version

API for managing WhatsApp Business Account encryption settings and public key management. This endpoint allows businesses to set up and manage encryption for their WhatsApp Business messaging by uploading and retrieving business public keys used for payload encryption.

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### GET `/{Version}/{Phone-Number-ID}/whatsapp_business_encryption`

Retrieve the current business public key and its signature verification status. This endpoint returns the public key that is currently configured for encrypting message payloads and indicates whether the stored signature is valid or has a mismatch.

Use Cases:

- Verify current encryption configuration
- Check public key signature validation status
- Retrieve public key for client-side encryption setup
- Monitor encryption key status for security compliance

Rate Limiting:

Standard Graph API rate limits apply. Use appropriate retry logic with exponential backoff.

Caching:

Public key information can be cached for moderate periods, but signature status may change and should be checked regularly for security validation.

### Request Syntax

Try it

Select language

---

Select status code

---

Header Parameters

---

User-Agentstring

The user agent string identifying the client software making the request.

Authorizationstring·required

Bearer token for API authentication. This should be a valid access token obtained through the appropriate OAuth flow or system user token.

Path Parameters

---

Versionstring·required

Graph API version to use for this request. Determines the API behavior and available features.

Phone-Number-IDstring·required

Your WhatsApp Business phone number ID. This ID represents the phone number entity and can be obtained from your WhatsApp Business Account phone numbers list.

Query Parameters

---

fieldsstring

Comma-separated list of fields to include in the response. If not specified, all available fields will be returned.

Available fields: `business_public_key`, `business_public_key_signature_status`

Responses

---

Retrieve the current business public key and its signature verification status.

This endpoint returns the public key that is currently configured for encrypting message payloads and indicates whether the stored signature is valid or has a mismatch.

Use Cases:

Verify current encryption configuration

Check public key signature validation status

Retrieve public key for client-side encryption setup

Monitor encryption key status for security compliance

Rate Limiting:

Standard Graph API rate limits apply. Use appropriate retry logic with exponential backoff.

Caching:

Public key information can be cached for moderate periods, but signature status may change and should be checked regularly for security validation.

200

Successfully retrieved business encryption public key information

Content Type: `application/json`

Schema: `object`

Show child attributes

---

dataarray of WhatsAppBusinessEncryptionInfo

Show child attributes

---

data[]WhatsAppBusinessEncryptionInfo

Business encryption public key information and verification status

Show child attributes

---

business\_public\_keystring·required

The business public key used for encrypting message payloads.

This key is used to encrypt data channel requests and responses.

Show child attributes

---

business\_public\_key\_signature\_statusBusinessPublicKeyVerificationStatus·required

Status of business public key signature verification

400

Bad Request - Invalid parameters or malformed request

Content Type: application/json

Schema: GraphAPIError

Show child attributes

---

GraphAPIError

---

errorobject·required

Show child attributes

---

messagestring·required

Human-readable error message

---

typestring·required

Error category type

---

codeinteger·required

Numeric error code

---

error\_subcodeinteger

More specific error subcode when available

---

fbtrace\_idstring

Unique identifier for debugging and support requests with Meta

---

is\_transientboolean

Indicates whether this error is temporary and the request should be retried

---

error\_user\_titlestring

User-friendly error title for display purposes

---

error\_user\_msgstring

User-friendly error message for display purposes

401

Unauthorized - Invalid or missing access token

Content Type: application/json

Schema: GraphAPIError

Show child attributes

---

GraphAPIError

---

errorobject.required

Show child attributes

---

messagestring.required

Human-readable error message

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error\_user\_msgstring  
User-friendly error message for display purposes  
403  
Forbidden - Insufficient permissions or access denied  
Content Type: application/json  
Schema: GraphAPIError  
Show child attributes

---

GraphAPIError

---

errorobject·required  
Show child attributes

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messagestring·required  
Human-readable error message

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typestring·required  
Error category type

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error\_user\_msgstring  
User-friendly error message for display purposes  
404  
Not Found - Phone number ID does not exist or is not accessible  
Content Type: application/json  
Schema: GraphAPIError

Show child attributes

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GraphAPIError

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errorobject·required  
Show child attributes

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messagestring·required  
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error\_user\_msgstring  
User-friendly error message for display purposes  
422  
Unprocessable Entity - Request parameters are valid but cannot be processed  
Content Type: application/json  
Schema: GraphAPIError  
Show child attributes

---

GraphAPIError

---

errorobject·required  
Show child attributes

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error\_user\_msgstring  
User-friendly error message for display purposes  
429  
Too Many Requests - Rate limit exceeded  
Content Type: application/json  
Schema: GraphAPIError  
Show child attributes

---

GraphAPIError

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errorobject·required  
Show child attributes

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messagestring·required  
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error\_user\_msgstring  
User-friendly error message for display purposes  
500  
Internal Server Error - Unexpected server error  
Content Type: application/json  
Schema: GraphAPIError  
Show child attributes

---

GraphAPIError

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errorobject·required  
Show child attributes

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User-friendly error message for display purposes

Select language

---

Select status code

---

---

## POST /{Version}/{Phone-Number-ID}/whatsapp\_business\_encryption

Upload and configure a business public key for message payload encryption. This endpoint accepts a business public key in PEM format, validates it, and stores it with a cryptographic signature for future use in encrypting message payloads and data channel requests.

Use Cases:

Initial setup of encryption for WhatsApp Business messaging

Update existing public key for key rotation

Enable secure payload encryption for sensitive business communications

Configure encryption keys for compliance requirements

Key Requirements:

Must be a valid RSA public key in PEM format

Key must meet Meta's security standards for encryption

Only one active public key per phone number at a time

Previous keys are replaced when new ones are uploaded

Rate Limiting:

Standard Graph API rate limits apply. Key uploads may have additional security-related rate limiting to prevent abuse.

## Request Syntax

Try it

Select language

---

Select status code

---

Header Parameters

---

User-Agentstring

The user agent string identifying the client software making the request.

Authorizationstring·required

Bearer token for API authentication. This should be a valid access token obtained through the appropriate OAuth flow or system user token.

Path Parameters

---

Versionstring·required

Graph API version to use for this request. Determines the API behavior and available features.

Phone-Number-IDstring·required

Your WhatsApp Business phone number ID. This ID represents the phone number entity and can be obtained from your WhatsApp Business Account phone numbers list.

Required

---

Content Type: multipart/form-data

Schema: WhatsAppBusinessEncryptionUploadRequest

Show child attributes

---

WhatsAppBusinessEncryptionUploadRequest

---

business\_public\_keystring·required

The business public key in PEM format to be uploaded and signed.

Must be a valid RSA public key that will be used for payload encryption.

Responses

---

Upload and configure a business public key for message payload encryption.

This endpoint accepts a business public key in PEM format, validates it, and stores it with a cryptographic signature for future use in encrypting message payloads and data channel requests.

Use Cases:

Initial setup of encryption for WhatsApp Business messaging

Update existing public key for key rotation

Enable secure payload encryption for sensitive business communications

Configure encryption keys for compliance requirements

Key Requirements:

Must be a valid RSA public key in PEM format

Key must meet Meta's security standards for encryption  
Only one active public key per phone number at a time  
Previous keys are replaced when new ones are uploaded  
Rate Limiting:

Standard Graph API rate limits apply. Key uploads may have additional security-related rate limiting to prevent abuse.

200

Successfully uploaded and configured business encryption public key

Content Type: application/json

Schema: WhatsAppBusinessEncryptionUploadResponse

Show child attributes

---

WhatsAppBusinessEncryptionUploadResponse

---

successboolean·required

Indicates whether the public key was successfully uploaded and signed

400

Bad Request - Invalid parameters or malformed request

Content Type: application/json

Schema: GraphAPIError

Show child attributes

---

GraphAPIError

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errorobject·required

Show child attributes

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messagestring·required

Human-readable error message

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typestring·required

Error category type

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Unauthorized - Invalid or missing access token

Content Type: application/json

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Show child attributes

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Select status code

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## Authentication

Scheme	Type	Location
bearerAuth	HTTP Bearer	Header: <code>Authorization</code>

## Usage Examples

bearerAuth:

Include `Authorization: Bearer your-token-here` in request headers

## Global Authentication Requirements

All endpoints require:

bearerAuth

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Revision #4

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