

WhatsApp Cloud API - Business Encryption API | Developer Documentation

WhatsApp Cloud API - Business Encryption API

Copy for LLM

[View as Markdown](#)

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.

GET `/v{Version}/w{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

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

403

Forbidden - Insufficient permissions or access denied

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

404

Not Found - Phone number ID does not exist or is not accessible

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

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

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
429
Too Many Requests - Rate limit exceeded
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
500
Internal Server Error - Unexpected server error
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
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

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

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

403

Forbidden - Insufficient permissions or access denied

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

404

Not Found - Phone number ID does not exist or is not accessible

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

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

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

429

Too Many Requests - Rate limit exceeded

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
500
Internal Server Error - Unexpected server error
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
Select language

Select status code

Authentication

Scheme	Type	Location
bearerAuth	HTTP Bearer	Header: Authorization

Usage Examples

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

Global Authentication Requirements

All endpoints require:
bearerAuth

Updated 2026-04-05 18:51:37 UTC by New Admin