



Media and devices

Image and Media Support

The WhatsApp channel runs via **Baileys Web**. This document captures the current media handling rules for send, gateway, and agent replies.

Goals

Send media with optional captions via `openclaw message send --media`.

Allow auto-replies from the web inbox to include media alongside text.

Keep per-type limits sane and predictable.

CLI Surface

```
openclaw message send --media <path-or-url> [--message <caption>]  
--media optional; caption can be empty for media-only sends.  
--dry-run prints the resolved payload; --json emits { channel,  
to, messageId, mediaUrl, caption } .
```

WhatsApp Web channel behavior

Input: local file path **or** HTTP(S) URL.

Flow: load into a Buffer, detect media kind, and build the correct payload:



Images: resize & recompress to JPEG (max side 2048px) targeting `agents.defaults.mediaMaxMb` (default 5 MB), capped at 6 MB.

Audio/Voice/Video: pass-through up to 16 MB; audio is sent as a voice note (`ptt: true`).

Documents: anything else, up to 100 MB, with filename preserved when available.

WhatsApp GIF-style playback: send an MP4 with `gifPlayback: true` (CLI: `--gif-playback`) so mobile clients loop inline.

MIME detection prefers magic bytes, then headers, then file extension.

Caption comes from `--message` or `reply.text`; empty caption is allowed.

Logging: non-verbose shows / ; verbose includes size and source path/URL.

Auto-Reply Pipeline

`getReplyFromConfig` returns `{ text?, mediaUrl?, mediaUrls? }`.

When media is present, the web sender resolves local paths or URLs using the same pipeline as `openclaw message send`.

Multiple media entries are sent sequentially if provided.

Inbound Media to Commands (Pi)

When inbound web messages include media, OpenClaw downloads to a temp file and exposes templating variables:

`{{MediaUrl}}` pseudo-URL for the inbound media.

`{{MediaPath}}` local temp path written before running the command.

When a per-session Docker sandbox is enabled, inbound media is copied into the sandbox workspace and `MediaPath` / `MediaUrl` are rewritten to a relative path like `media/inbound/<filename>`.

Media understanding (if configured via `tools.media.*` or shared `tools.media.models`) runs before templating and can insert `[Image]`, `[Audio]`, and `[Video]` blocks into `Body`.

Audio sets `{{Transcript}}` and uses the transcript for command parsing so slash commands still work.

Video and image descriptions preserve any caption text for command parsing.

By default only the first matching image/audio/video attachment is processed; set `tools.media.<cap>.attachments` to process multiple attachments.

Limits & Errors

Outbound send caps (WhatsApp web send)

Images: ~6 MB cap after recompression.

Audio/voice/video: 16 MB cap; documents: 100 MB cap.

Oversize or unreadable media → clear error in logs and the reply is skipped.

Media understanding caps (transcription/description)

Image default: 10 MB (`tools.media.image.maxBytes`).

Audio default: 20 MB (`tools.media.audio.maxBytes`).

Video default: 50 MB (`tools.media.video.maxBytes`).

Oversize media skips understanding, but replies still go through with the original body.

Notes for Tests



Cover send + reply flows for image/audio/document cases.

Validate recompression for images (size bound) and voice-note flag for audio.

Ensure multi-media replies fan out as sequential sends.

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