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WebRamos Modern Images – User Guide

Version: 1.2.0 **Compatibility:** Adobe Commerce / Magento Open Source 2.4.7 – 2.4.9, PHP 8.1 – 8.5 **Vendor:** WebRamos

1. Overview

WebRamos Modern Images lets your store accept and serve **WebP** and **AVIF** product imagery without any theme changes or front-end markup tricks. Out of the box, Magento blocks WebP/AVIF uploads in the admin and serves only the legacy JPEG/PNG/GIF formats. This extension removes those restrictions and lets Magento resize and deliver modern formats as ordinary images through its own ImageMagick image adapter.

Modern formats are typically 25 – 50 % smaller than an equivalent JPEG at the same visual quality, which means faster product pages, better Core Web Vitals, and lower bandwidth. Because the images are served as a plain ``, the result works identically on Luma and Hyvä and needs no `<picture>` element, no JavaScript, and no per-theme integration.

A command-line tool migrates your existing catalogue: it converts current JPEG/PNG product images to WebP (or AVIF) and updates the catalogue references in a single, idempotent pass.

Key Features

- Accept **.webp** and **.avif** uploads across the admin: product images, the Media Gallery, configurable/swatch images, Page Builder, the CMS/WYSIWYG image manager, theme logos and favicons, and customer file uploads.
- Native serving – modern images are delivered as plain `<img>` (no `<picture>`, no JavaScript), identical on Luma and Hyvä.
- One-command catalogue migration (existing JPEG/PNG → WebP/AVIF + reference rewrite), with a dry-run preview.
- Per-store configuration: enable each format, set encoder quality, choose the converter, exclude paths.
- Built-in diagnostics panel that reports converter availability and warns when the image adapter is not set to ImageMagick.

Compatibility

Platform	Versions
Adobe Commerce	2.4.7 – 2.4.9
Magento Open Source	2.4.7 – 2.4.9
PHP	8.1, 8.2, 8.3, 8.4, 8.5
Themes	Luma and Hyvä (native serving is theme-independent)
Image adapter	ImageMagick (Imagick) with WebP and AVIF support

2. Installation

Via Composer

```
composer require webmaster-ramos/module-modern-images
bin/magento module:enable WebRamos_ModernImages
bin/magento setup:upgrade
bin/magento setup:di:compile      # production mode only
bin/magento cache:flush
```

Verify

```
bin/magento module:status WebRamos_ModernImages
```

Enable native serving

Magento resizes storefront images through its PHP image adapter. To serve WebP/AVIF natively, the server needs the **Imagick** PHP extension built with WebP and AVIF support, and Magento's adapter must be set to ImageMagick:

```
bin/magento config:set dev/image/default_adapter IMAGEMAGICK
bin/magento cache:flush
```

Confirm the environment is ready:

```
bin/magento webramos:modernimages:check
```

```
www-data@market-luma: /app
$ bin/magento webramos:modernimages:check
Preflight: WebRamos ModernImages

Converters
+-----+-----+-----+
| Name   | Status  | Supported target formats |
+-----+-----+-----+
| cwebp  | Available | image/webp               |
| imagick | Available | image/webp, image/avif   |
| gd     | Available | image/webp               |
+-----+-----+-----+

Effective configuration
+-----+-----+
| Setting          | Value      |
+-----+-----+
| enable_webp      | yes        |
| enable_avif      | no         |
| quality_webp     | 82         |
| quality_avif     | 60         |
| converter_preference | auto      |
| exclude_patterns_count | 0        |
| image_adapter    | IMAGEMAGICK |
| adapter_warning  | no         |
+-----+-----+

Product media root
+-----+-----+
| Property         | Value      |
+-----+-----+
| root_relative    | catalog/product |
| root_absolute    | /app/pub/media/catalog/product |
| root_exists      | yes        |
| root_writable     | yes        |
+-----+-----+
```

Figure 1: Preflight – CLI converter availability

3. Configuration

Navigate to **Stores** → **Configuration** → **WebRamos** → **Modern Images**.

General
⌵

Enable WebP

[store view]

Yes

▼

Master toggle for WebP alternate generation. Default: Yes.

Enable AVIF

[store view]

No

▼

Master toggle for AVIF alternate generation. Default: No (opt-in; AVIF encoder support is host-dependent).

[Webmaster Ramos](#) | contact@webmaster-ramos.com | [Support](#)
WebRamos_ModernImages 1.2.0

Quality

⌵

Engine

⌵

Advanced

⌵

Figure 2: Config – Modern Images section

3.1 General

Field	Description	Default
Enable WebP	Allow WebP generation and serving.	Yes
Enable AVIF	Allow AVIF generation and serving.	No

The group also shows a support banner naming the extension and the installed version (**WebRamos_ModernImages 1.2.0**). It is read from the installation, not written into the page, so it always matches what is actually running – quote that line when you contact support.

3.2 Quality

Field	Description	Default
WebP quality	Encoder quality (1 – 100). Higher is better quality / larger file.	82
AVIF quality	Encoder quality (1 – 100).	60

3.3 Engine

Field	Description	Default
Converter preference	Which converter to use: auto , cwebp , imagemagick , or gd .	auto
Converter Availability	Diagnostic panel: detected converters, the active image adapter, and a warning when the adapter is not ImageMagick.	–

General

Quality

Engine

Converter preference

Auto-detect (first available)

Auto-detect picks the first available converter; an explicit choice is honoured when available and falls back to auto-detect otherwise.

Converter Availability

Converter	Status	Supported target formats
cwebp	Available	image/webp
imagemagick	Available	image/webp, image/avif
gd	Available	image/webp

Advanced

Figure 3: Config – Engine group with Converter Availability

3.4 Advanced

Field	Description	Default
Exclude paths	One regular expression per line (delimited PCRE, e.g. <code>#catalog/category#</code>). Matching media paths are skipped.	(empty)

All settings can be configured per store view, so you can enable modern formats on one store while leaving another untouched.

4. Migrating an Existing Catalogue

The `migrate` command converts existing product gallery images to WebP (or AVIF) and rewrites the catalogue so the storefront serves the modern format.

Always preview first with `--dry-run` (it writes nothing):

```
bin/magento webramos:modernimages:migrate --dry-run
```

```
www-data@market-luma: /app

$ bin/magento webramos:modernimages:migrate --dry-run
Would convert m/b/mb01-blue-0.jpg -> m/b/mb01-blue-0.webp (value_id 1)
Would convert m/b/mb04-black-0.jpg -> m/b/mb04-black-0.webp (value_id 2)
Would convert m/b/mb04-black-0_alt1.jpg -> m/b/mb04-black-0_alt1.webp (value_id 3)
Would convert m/b/mb03-black-0.jpg -> m/b/mb03-black-0.webp (value_id 4)
Would convert m/b/mb03-black-0_alt1.jpg -> m/b/mb03-black-0_alt1.webp (value_id 5)
Would convert m/b/mb05-black-0.jpg -> m/b/mb05-black-0.webp (value_id 6)
Would convert m/b/mb06-gray-0.jpg -> m/b/mb06-gray-0.webp (value_id 7)
Would convert m/b/mb02-gray-0.jpg -> m/b/mb02-gray-0.webp (value_id 8)
Would convert m/b/mb02-blue-0.jpg -> m/b/mb02-blue-0.webp (value_id 9)
Would convert u/b/ub02-black-0.jpg -> u/b/ub02-black-0.webp (value_id 10)
Would convert w/b/wb01-black-0.jpg -> w/b/wb01-black-0.webp (value_id 11)
Would convert w/b/wb02-green-0.jpg -> w/b/wb02-green-0.webp (value_id 12)
Would convert w/b/wb05-red-0.jpg -> w/b/wb05-red-0.webp (value_id 13)
Would convert w/b/wb06-red-0.jpg -> w/b/wb06-red-0.webp (value_id 14)
Would convert w/b/wb06-red-0_alt1.jpg -> w/b/wb06-red-0_alt1.webp (value_id 15)
Would convert w/b/wb03-purple-0.jpg -> w/b/wb03-purple-0.webp (value_id 16)
... (3404 further lines omitted from this capture)

Done (dry-run, nothing written). Converted: 3419, Skipped: 16, Failed: 0.
```

Figure 4: Migrate – dry-run preview

Then run the migration. Because it rewrites catalogue references and is irreversible without a backup, the command asks for confirmation (use `--force` to skip the prompt):

```
# Whole catalogue
bin/magento webramos:modernimages:migrate --force

# A single product
bin/magento webramos:modernimages:migrate --sku=24-MB01 --force

# AVIF instead of WebP
bin/magento webramos:modernimages:migrate --format=avif --force

# Optional: resized images are built on first request anyway. This warms them
# ahead of traffic and reprocesses the ENTIRE catalogue (no per-SKU option).
bin/magento catalog:images:resize
```

The command is idempotent – images already in the target format are skipped – so it is safe to re-run. If no converter is available, it aborts cleanly without changing the database.

Back up first. The migration rewrites `catalog_product_entity_media_gallery` in place; the original reference is not retained. Take a database backup before a real run.

5. CLI Commands

Command	Description
<code>webramos:modernimages:check</code>	Preflight diagnostics – converters, effective configuration, image adapter, output root.
<code>webramos:modernimages:migrate</code>	Convert existing product images to WebP/AVIF and rewrite catalogue references.

Migrate command options

Option	Description
<code>--sku=SKU</code>	Limit to a single product (default: all products).
<code>--format=webp avif</code>	Target format (default: webp).
<code>--quality=N</code>	Encoder quality 1 – 100 (default: from configuration).
<code>--keep-originals</code>	Keep the source JPEG/PNG file on disk.
<code>--dry-run</code>	Print the plan without writing files or the database.
<code>--force</code>	Skip the confirmation prompt.

6. Use Cases

6.1 Switch a new store to WebP

1. Install the extension and confirm Imagick is available (`webramos:modernimages:check`).
2. Set `dev/image/default_adapter` to `ImageMagick`.
3. Under **Modern Images** → **General**, keep **Enable WebP** = Yes.
4. Run `webramos:modernimages:migrate --dry-run`, review, then `--force`. Resized images are rebuilt on first request – no further command is needed.
5. Open a product page – the product image is served as `image/webp`.

6.2 Accept WebP uploads from your team

With the extension enabled, merchandisers can upload `.webp` (or `.avif`) files directly in the product Media Gallery; Magento stores and serves them natively.

7. Troubleshooting

Symptom	Resolution
Product images broken after enabling	The image adapter is not ImageMagick, or Imagick lacks WebP/AVIF support. Run <code>webramos:modernimages:check</code> – the Converter Availability panel warns when the adapter is wrong. Set <code>dev/image/default_adapter</code> <code>IMAGE</code> <code>MAGICK</code> and flush the cache.
<code>migrate</code> reports “no converter available”	Install Imagick (ImageMagick 7 with WebP/AVIF) or the <code>cwebp</code> binary, then re-run.
Storefront still serves JPEG after migrate	Regenerate the image cache: <code>bin/magento catalog:images:resize</code> , then flush the cache.
<code>.webp</code> upload rejected in admin	Confirm the module is enabled (<code>module:status</code>) and the cache is flushed.

Logs: `var/log/system.log` and `var/log/exception.log`.

8. Support & Changelog

- **Vendor:** WebRamos
- **Email:** contact@webmaster-ramos.com
- **Website:** <https://webmaster-ramos.com>
- **Support:** <https://webmaster-ramos.com/support>
- **Changelog:** see `CHANGELOG.md` inside the package.

When reporting an issue, include the identifier line from **Stores** → **Configuration** → **WebRamos** → **Modern Images** → **General** (`WebRamos_ModernImages` plus the version) and the output of `webramos:modernimages:check`. Together they state the version in use and the converter environment it runs in.