

12. Resources: Flags and Silhouettes

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1. Upload packages

Typical uploads:

1. `OperatorFlags.zip` (or `AirlineLogos.zip`) + optional `OperatorFlagsList.csv`
2. `DVSilhouettes.zip` (or `Silhouettes.zip`) + optional `Silhouettes.csv`

Supported image formats:

1. `.bmp`
2. `.png`

2. Runtime lookup logic

Operator flags:

1. frontend requests `/api/images/operator-flags/{operatorCode}.png?icaoType={type}`,
2. lookup priority is `OPERATOR-ICAOTYPE` first, then `OPERATOR`.

Silhouettes:

1. frontend requests `/api/images/silhouette/{icaoType}.png`,
2. lookup first uses `Silhouettes.csv`,
3. fallback tries direct `DVSilhouettes/{icaoType}.bmp/png` file.

If resource is not found, API returns transparent image instead of broken image icon.

3. CSV behavior on upload

1. separately uploaded CSV has priority over CSV found inside ZIP,
2. for `flags`, if CSV is missing system can regenerate `OperatorFlagsList.csv` from image files,
3. for `silhouettes`, provide `Silhouettes.csv` for deterministic mapping.

4. Verification after upload

1. check `Loaded` counters in admin panel,
2. verify operator flags in list/detail,
3. verify silhouettes in aircraft detail panel,
4. hard refresh browser if old cache is still used.

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