

Image

Pixel Data



C2PA Manifest (JUMBF)

Where this is stored will vary by host file format

9042

01e3

85cf

Claim

Claim Signature

95ca

c85a

71f4

Claim

Claim Signature

XMP Metadata

Typical XMP from capture

dcterms:provenance

Other metadata (Exif, etc.)

1

- 1 Retrieve the claim from the active manifest
- 2 Retrieve the claim signature and validate it, including any time-stamps and revocation information
- 3 Compute & validate all data hash assertions
- 4 Inspect additional assertions and validate each

Optional processing of ingredients

- 5 Retrieve the claim for any parent ingredient manifests
- 6 Retrieve the claim signature for any parent ingredient manifests and validate it
- 7 Inspect assertions in the ingredient manifest and validate each

Claim

```
{
  "assertions": ["c2pa/urn:uuid:2/actions", "c2pa/urn:uuid:2/thumbnail", "c2pa/urn:uuid:2/ingredient", "c2pa/urn:uuid:2/data.hash"],
  "redacted_assertions": ["c2pa/urn:uuid:1/prec"],
  "signature": "#C2PA_sig2"
}
```

Claim Signature

Signed by: EditSuite
Time: 2020-06-05T12:22:43-07:00
Hash: 44...a4

Assertion Store

95ca
Actions

```
{
  "edits": [
    "desaturate",
    "brighten"
  ]
}
```

71f4
Thumbnail



c85a
data.hash

```
{
  "hash": ...
}
```

Claim

```
{
  "assertions": ["c2pa/urn:uuid:1/thumbnail", "c2pa/urn:uuid:1/prec", "c2pa/urn:uuid:2/data.hash"],
  "signature": "#C2PA_sig1"
  ...
}
```

Claim Signature

Signed by: CameraCompany
Time: 2020-06-05T10:37:00-07:00
Hash: fa31...