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.)

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1. Retrieve the claim from the active manifest

2. Retrieve the claim signature and validate it, including any timestamps 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	71f4 Thumbnail	c85a data.hash
`{` `"edits": [` `"desaturate",` `"brighten"` `]` `}`		`{` `"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...
```