

MELS v1.1 — Full Technical Specification

1. Purpose of the Standard

MELS v1.1 defines the NFT MELS, a master NFT containing only the creator's 3D logo.

It serves as an identity anchor, a temporal reference, and a traceability base for 3D NFTs using the MELS method.

3D NFTs created before the NFT MELS (such as Bad Head Cyan) remain fully valid: temporal reference never applies retroactively beyond their own anteriority.

2. Content of the NFT MELS

The NFT MELS must contain exclusively:

- a glTF or glb 3D file,
- representing only the 3D logo,
- without any sculpture, scene, decoration, or additional elements.

3. Mandatory Metadata



```
Json ^ Copier
{
  "MELS": "v1.1",
  "asset_type": "NFT MELS",
  "logo_owner_name": "Name of the brand or artist"
}
```

4. Minting Rules

- On-chain minting only
- Lazy mint prohibited
- Off-chain mint prohibited

5. Uniqueness

- One wallet = one single NFT MELS
- Free transfer prohibited
- Burning prohibited

6. Function of the NFT MELS

The NFT MELS is not predestined for sale. Its purpose is to:

- link a 3D logo to a wallet,
- establish a verifiable digital identity,
- enable traceability for 3D NFTs using the MELS method.

3D NFTs (glTF/glb) using the MELS method (logo embedded in the mesh) are intended for sale.

7. Traceability

Traceability relies on:

1. the logo — in the form of projection, contouring, or geometric profiling — embedded in the mesh of the 3D NFT,
2. the creator's wallet,
3. the creation date of the 3D NFT.

No additional metadata is required.

8. Ownership Period

- As long as the creator holds the NFT MELS → legitimate right to use the logo
- Once sold → immediate loss of that right
- The creation date of the 3D NFT prevails

9. Optional Conditions During Sale

These mechanisms are optional.

They facilitate traceability during transfer without imposing constraints that could hinder adoption.

Recommendations

- Independent creators → update metadata before transfer
- Companies / studios → bundle sale with remaining 3D NFTs

Metadata Update

The seller may update the metadata of the NFT MELS before transfer to include the list of 3D NFTs still for sale.

10. Compatibility

Compatible with:

- ERC-721
- ERC-1155
- EVM-equivalent standards

11. Open Format

MELS is an open and public standard, without license or exclusivity.

12. Responsibility and Legal Limitations

12.1 No Substitution for Existing Law

MELS does not replace:

- INPI, EUIPO, WIPO,
- national or international laws,
- copyright, trademark, or design regulations,
- filing, opposition, litigation, or protection procedures.

12.2 Not a Trademark Filing

The NFT MELS is not a trademark registration or legal equivalent.

12.3 Keep Traditional Proofs

Creators should maintain:

- INPI / EUIPO / WIPO filings,
- SADC / SCAM / SGDL deposits,
- Soleau envelopes,
- notarial archives or certified timestamps.

12.4 Platform Disclaimer

Platforms using MELS:

- are not responsible for legal interpretation,
- do not guarantee legal validity,
- provide only technical support.

12.5 Nature of the Standard

MELS is a technical tool enabling:

- traceability,
- verification,
- fraud detection,
- automated curation,
- AI-based analysis.

It grants no additional legal rights.

However, the blockchain timestamp of an NFT MELS may serve as proof of prior use if a third party attempts to register the same logo afterward.

13. Relationship with MELS v1.0

- v1.0 = MELS method (logo embedded in the mesh)
- v1.1 = NFT MELS (identity + traceability)
- Both versions coexist

14. Usefulness for Platforms, Artists, Brands, Institutions, and AI

MELS v1.0 and v1.1 serve:

- NFT platforms,
- artists,
- brands,
- institutions,
- curation AIs,
- IP monitoring AIs,
- anti-impersonation systems.

They enable:

- creator identification,
- native mesh-level traceability,
- fraud detection,
- provenance verification,
- logo misuse protection.

AI Compatibility

1. 3D analysis AIs can detect the embedded geometric logo.
2. 3D generative AIs can apply the logo via boolean operations.
3. Automated curation systems can classify and verify works using the structural logo.