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# Information technology — Multimedia application format (MPEG-A) —

## Part 3: MPEG photo player application format

## AMENDMENT 2: Conformance testing for photo player application format

*Technologies de l'information — Format pour application multimédia (MPEG-A)*

*Partie 3: Format pour application photographique MPEG*

*AMENDEMENT 2: Essai de conformité pour le format pour application photographique*

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# Information technology — Multimedia application format (MPEG-A) —

## Part 3:
## MPEG photo player application format

## AMENDMENT 2: Conformance testing for photo player application format

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Add the following two new subclauses.

### 8.3 Procedures of conformance testing for the file format

For the file format, the following checks shall be done for conformance testing.

1) Check that there is one meta box containing collection-level metadata in the movie box.
2) Check that there is one meta box containing item-level metadata in each track box.
3) Check that each track box references the location of the corresponding JPEG resource in the media data box, and the number of JPEG resources is exactly the same as the number of track boxes.
4) Validate the collection-level metadata and the item-level metadata of individual photos with the corresponding schemas.
5) Check that all track IDs contained in ContentRef elements in the collection-level metadata exist.
6) Check that all the ContentRef elements corresponding to the tracks are included in the root collection of the collection-level metadata.
7) If a TitleMedia element exists in Creation element in the collection-level metadata, check that InlineMedia/type is image/jpeg or image/tiff.
8) If a MediaProfile element that does not include a MediaInstance (this means the resource is internal) exists, check the description within MediaProfile is correct by comparing the property of the corresponding resource.
9) If a MediaFormat element exists, check that a Content element exists and the value is “Image”.
10) If ‘id’ attribute exists for DescriptionUnit of Item-level metadata, check all the ids are different.
11) For type A file, check that there is at most one MediaProfile.
12) For type B file, check that there is one MediaProfile including MediaInstance. The number of MediaProfile elements is one or two.

### 8.4 Procedures of conformance testing for the photo player devices

For the photo player device, the following checks shall be done for conformance testing.

1) Check that the devices can appropriately parse conformance files listed in Table Amd2.1 and correctly present resources and metadata without error.
2) Check that modification date/time elements of both collection-level and item-level metadata are updated when the metadata is modified.

3) Check that the item-level metadata is correctly updated when a resource itself is modified. If the player does not have a capability to compute MPEG-7 visual metadata, check that the player removes the visual metadata extracted from the resource before modification.
4) Check that the player does not remove or modify the metadata of external resources that cannot be accessed from the player.
5) When a new resource is added to the file, check that a new ContentRef element is generated in the root collection of collection-level metadata and the ContentRef references the track corresponding to the newly added resource.
6) When a resource is removed from the file, check that all the ContentRef elements referencing the track for the resource are removed from the collection-level metadata.

**Table Amd2.1 — Conformance files**

| File Name | Type | Explanation |
|---|---|---|
| intSimplest.mp4 | A | Only one internal resource is included. |
| extSimplest.mp4 | B | Only one thumbnail image for an external resource is included. |
| emptyCollect.mp4 | A | An empty event collection is included as well as normal event collections. |
| eventCollect1.mp4 | A | Several single-tier event collections are included. |
| eventCollect2.mp4 | A | Several two-tier event collections are included. |
| catEventCollect.mp4 | A | Several two-tier category-event collections are included. |
| intSimplest_noSRF.mp4 | A | Only one internal resource is included without having corresponding visual features. |
| eventCollect1_noSRF.mp4 | A | Several single-tier event collections are included without having corresponding visual features. |
| catEventCollect_noSRF.mp4 | A | Several two-tier category-event collections are included without having corresponding visual features. |