

MICROSCOPE HARDWARE Specifications

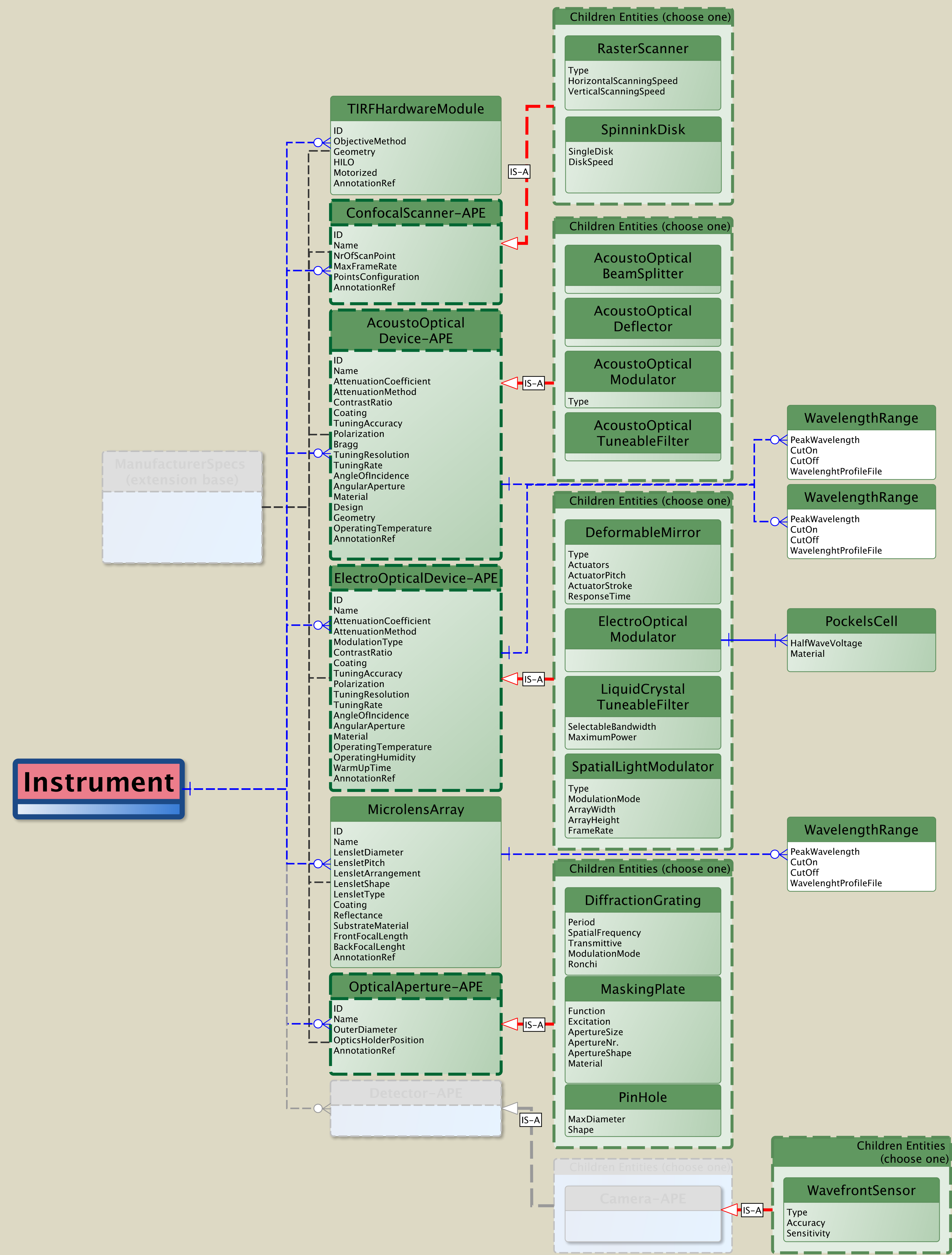
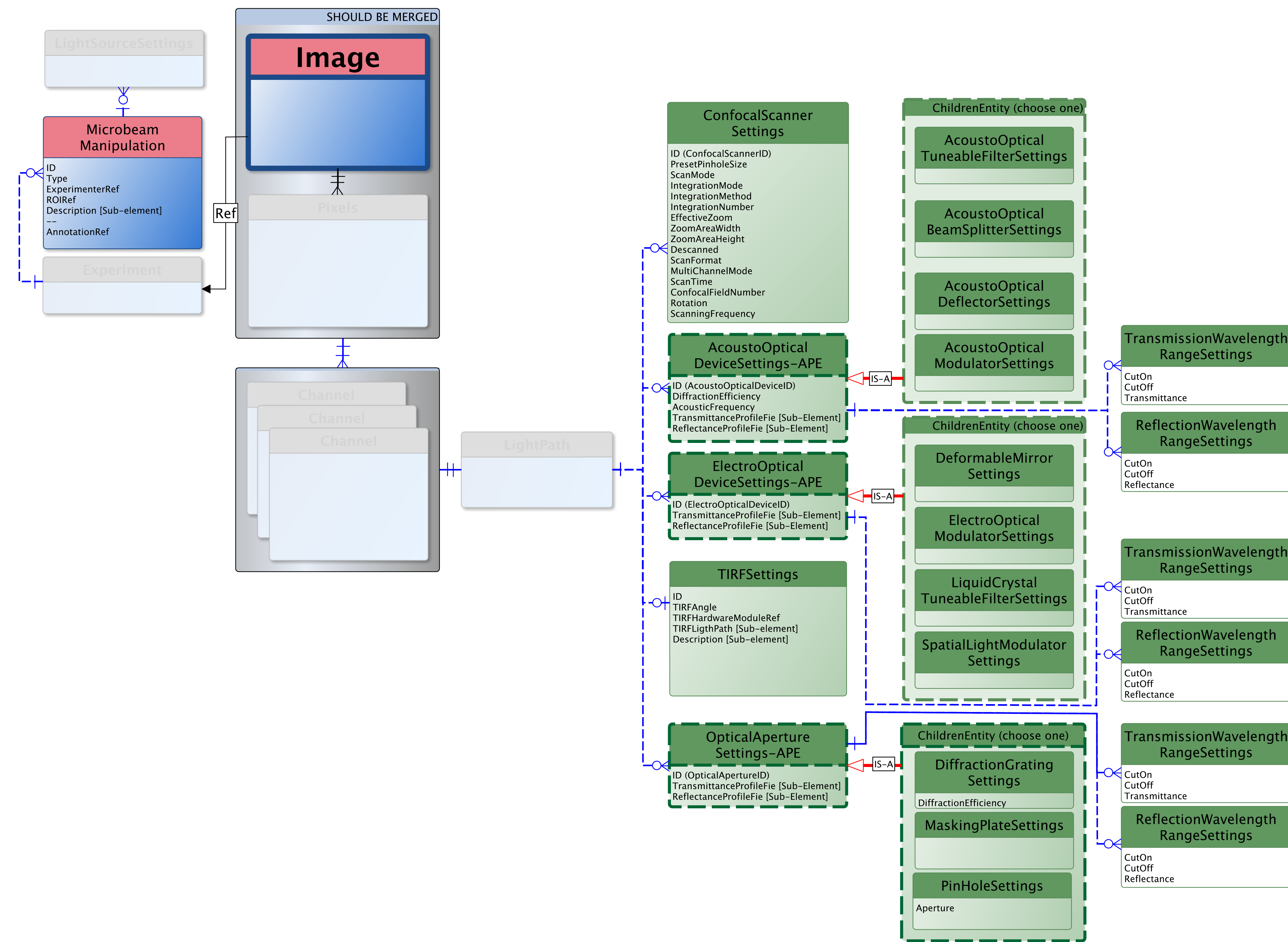


IMAGE ACQUISITION Settings



Legend

This is a Entity-Relationship diagrammatic representation of a proposed OME ADVANCED and CONFOCAL EXTENSION (grey boxes) developed by members of the Imaging Working Group of the 4D Nucleome consortium and and by members of the BINA Quality Control and Data Management Working Group.

The Entity-Relationship formalism represents information about a real world situation/thing (in our case a microscopic INSTRUMENT and an IMAGE acquired using that Instrument) by using three types of model elements:

- 1) Entities = Boxes;
- 2) Relationships = lines connecting boxes;
- 3) Attributes = fields within boxes

When describing a real life situation/thing:

- 1) ENTITIES corresponds to NOUNS = the things we want to collect information about.
- 2) RELATIONSHIPS corresponds to VERBS = actions/state/occurrence that connect Entities with each other
- 3) ATTRIBUTES corresponds to ADJECTIVES = the actual information about each Entity we want to collect

In order to read the schema please start from either the <INSTRUMENT> or the <IMAGE> elements for the Hardware Specifications and Image Acquisition Settings section respectively. Then follow the lines to the connected boxes and think something like:

- 1) An Instrument has a Microscope_Body, might rest on a Microscope_Table, and has a Light_Source etc.;
- 2) An Image was produced as part of a specific Experiment, was collected in a specific Imaging_Environment, was collected using specific Microscope_Settings etc.

Notes

Units are omitted for simplicity sake.
APE, Abstract Parent Entity

AnnotationRef, This element always refers to a Comment/Annotation element as described for Channel. However for simplicity sake most Comment/Annotation elements have been omitted and the AnnotationRef has been inserted in the referring element as an attribute.

[Sub-Element], For semplicity sake, in some cases Sub-Elements are listed within the referring element as an attribute.

Attributes listed after a --- separator have been added to the OME Core as part of the proposed revision.
Attributes listed after and in parenthesis have been removed as part of the proposed revision.

For questions or comments please contact:
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