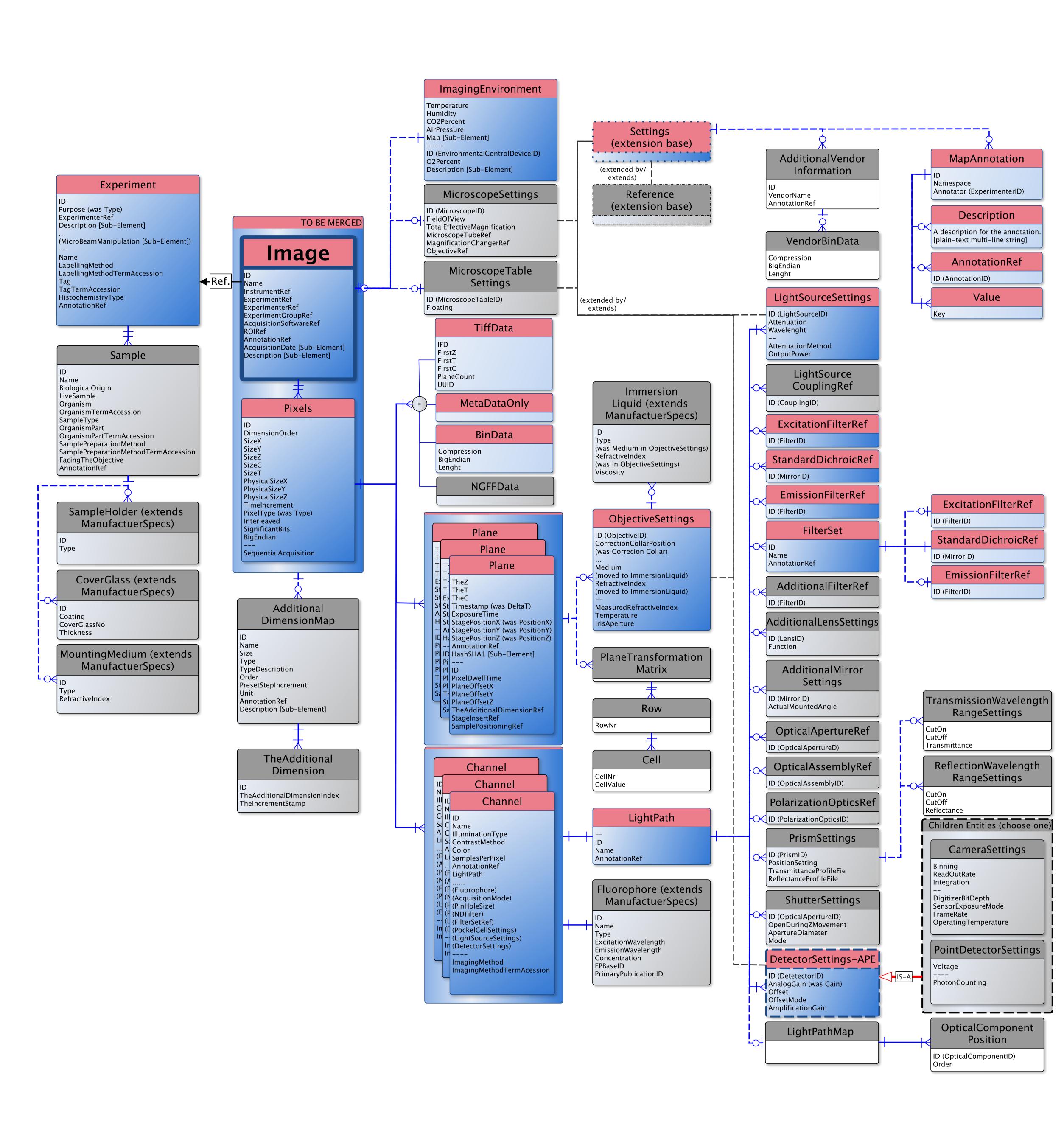
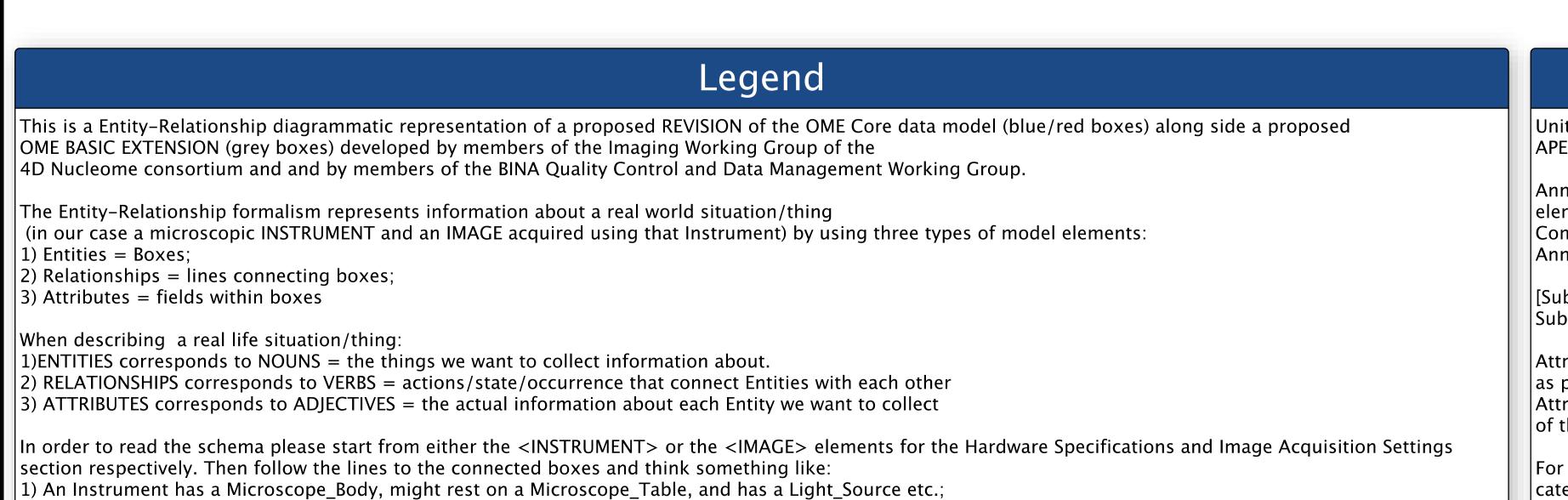
MICROSCOPE HARDWARE lluminationWavelength Specifications PeakWavelength | WavelenghtProfileFile [Sub-Element] IlluminationWavelengt ______ Children Entities (choose one) | PeakWavelength | WavelenghtProfileFile [Sub-Element] Filament **IlluminationWavelengt** ______ GenericExcitationSource ______ MicroscopeStand-APE MapAnnotation [Sub-Element] **┼**← IlluminationPower PeakWavelength (was Microscope) Laser ______ WavelenghtProfileFile [Sub-Element] Upright LaserMedium IsPumped RepetitionRate ProjectionAngle EnvironmentControl EyepieceFieldNumber FrequencyMultiplication IlluminationWavelengt MicroscopeTable (PockelCell) | ModulationMechanism IlluminationPower CO2Control LaserClass PeakWavelength IsPump Position VibrationControl PulseDuration WavelenghtProfileFile [Sub-Element] Acousto-OpticalDeviceRef MinTemperature WavelengthRange |TemperatureAccuracy StageInsert PeakWavelength MultiLaserEngine WavelenghtProfileFile [Sub-Element] SingleMode NumberOfLasers TemperatureControlled _____ FilterRef AnnotationRef MultiportSwitchTime Laser [Sub-Element] ID (FilterD) _____ (choose or ______ _____ Children Entities (choose one Positioning-APE MechanicalStage ID (LensID) ---------<u>-</u>---LightGuide MirroringDeviceRef XYMaxVelocity ______ XYRepetability PiezoelectricStage XTravelRange ID (MirroringDeviceID) YTravelRange Δ<mark>– RefractiveIndex</mark> NumericalAperture ■XYPositionLinearityError OpticalApertureRef ZRepetability CouplingLensRef AcceptanceAngle ZTravelRange ■AnnotationRef Geometry ID (OpticalApertureID) **ZPositionLinearityError** Children Entities MaterialName _____ ______ ZSettlingTime OpticsHolderRef Focusing Device – APE (choose on WaveguideMode Objective MovementAxes ______ Diameter ID (OpticsHolderID) _____ ObjectiveTurret FreeBeam RotationAngle ImmersionType PolarizationOpticsRef Focusing Correction DirectMount ______ ID (PolarizationOpticsID) Magnification MountType CalibratedMagnification ______ IndividualObjective FocusStabilizationDevice PrismRef _____ WorkingDistance Focusing _____ ID (PrismID) Children Entitie Mechanism ExcitationFilterRef BeamExpander ID (FilterID) Wavelength ContrastModulation AnnotationRef Configuration StandardDichroicRef WebsiteURL CorrectionCollar (was DichroicRef) | PrimaryPublicationID ----Collimator orrectionCollarType ID (MirroringDeviceID) EmissionFilterRef Condenser kFocalLenght Launguage AnnotationRef ID (FilterID) ExcitationFilterRef MicroscopeTube ID (FilterID) MechanicalLength StandardDichroicRef OpticalLenght _____ _____ _____ illdren Entities (choose one) OpticalAperture-APE ID (MirroringDeviceID) ______ ______ (extension base) EmissionFilterRef DarkFieldStop ______ Manufacturer ID (FilterID) CenterStopDiameter OpticsHolderPosition ______ CatalogNumber FilterCube <u>_____</u> ID (FilterCubeID) SpecsFile OpticsHolderPosition IrisDiaphragm FilterCubeRef FilterSlider ID (FilterCubeID) _____, **MapAnnotation** MaxApertureDiameter OpticsHolder-APE Information PhaseRing _____ ExcitationFilterRef FilterCubeTurret Namespace PhaseNumber ID (FilterID) Annotator (ExperimenterID) VendorName Name NrOfSlots CenterStopDiameter AnnotationRef SlitWidth FilterWheel StandardDichroicRef MirroringDeviceRef FilterCube Description AnnotationRef VarelRing ID (MirroringDeviceID) ID (MirroringDeviceID) A description for the annotation. VendorBinData OpticsTurret [plain-text multi-line string] EmissionFilterRef LensRef Shutter Compression ID (FilterID) AnnotationRef ID (LensID) _____ _____ Lens-APE Function ID (AnnotationID) PrimsRef PolarizationOpticsRef ResponseTime Children Entities (choose on ______ Motorized Value ID (PrismID) MaxApertureDiameter ID (PolarizationOpticsID) Multimode ExcitationFilter Magnification FilterHolderPosition (was FilterWheel) OpticalApertureRef Children Entities RefractiveIndex ID (OpticalApertureID) EmissionFilter WorkingDistance CoatingMethod (choose one LightPathLocation Composite TransmittanceRange Technology Geometry agnificationChange NeutralDensityFilter AttenuationCoefficient AttenuationCoefficient (deprecated: CutIn, CutOut, ImageDistance ObjectDistance CutInTolerance, CutOutTolerance) Transmittance Thickness FrontFocalLength AdditionalLens BackFocalLenght Wavelenght Polarization [Sub-Element] AdditionalFilter FWHMBandwidth RadiusOfCurvature BeamExpanderLens TransmittanceRange ______ MaterialName ______ MirroringDevice-APE Wavelenght ______ GlassCode (was Dichroic) FWHMBandwidth Children Entities (choose one CollimatorLens Transmittance ______ ------AnnotationRef ReflectingMirror ReflectanceRange Prism CondenserLens **──** Wavelenght MirrorType ReflectanceProfileFile [Sub-Element] FWHMBandwidth Diameter Reflectance AngleOfIncidence CouplingLens Beamsplitter Children Entities RadiusOfCurvature (choose one Transmittance SubstrateType OilObjective TransmissionAngle RelayLens GlassCode StandardDichroic RefractiveIndex TransmittanceProfileFile [Sub-Element] Reflectance ReflectanceProfileFile [Sub-Element] _____ AngleOfIncidence TubeLens ______ ______ AdditionalDichroic _____ (was Detector) ______ CoatingMethod LightPathLocation FilterHolderPosition MaterialName GlassCode Children Entities WavelengthRange (additional attributes removed PeakWavelength (choose on AttenuationCoefficient or moved to new Detector Settings AttenuationMethod PolarizationOptics WavelenghtProfileFile [Sub-Element] AnalogVideo Name Mount MaxBitDepth TransmittanceProfileFile [Sub-Element] ReflectanceProfileFile [Sub-Element] CCD QuantumEfficiency Function CrossPolarizer WavelengthRange L_____/ ElectronConversionFactor ______ ReadOutNoise BeamSplitter _____ PeakWavelength DetectorNoiseModel Children Entities (choose on FaradayIsolator RegisterWellCapacity DarkCurrentRate c-----Construction WavelenghtProfileFile [Sub-Element] Camera-APE CMOS Retardation **|------**MaterialName ArrayHeight PixelWidth PixelHeight Intensified Illumination SensorType IntensifierType ManufacturerOffset WavelengthRange RegisterWellCapacity PixelWellCapacity MaximumFrameRate MaximumReadoutRate PeakWavelength Children entities (choose one) VerticalClockSpeed WavelenghtProfileFile [Sub-Element] PhotomultiplierTube ·----PointDetector-APE CollectionEfficiency ______ Multianode MultianodeChannelNr SignalProcessing ResponseTime DeadTime MultianodeArrangement PhotoDiode _______ GenericDetector Avalanche PINJunction MapAnnotation [Sub-Element] HybridPhotoDetector _____ ______

IMAGE ACQUISITION Settings





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.

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

Notes

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 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: caterina.strambio@umassmed.edu