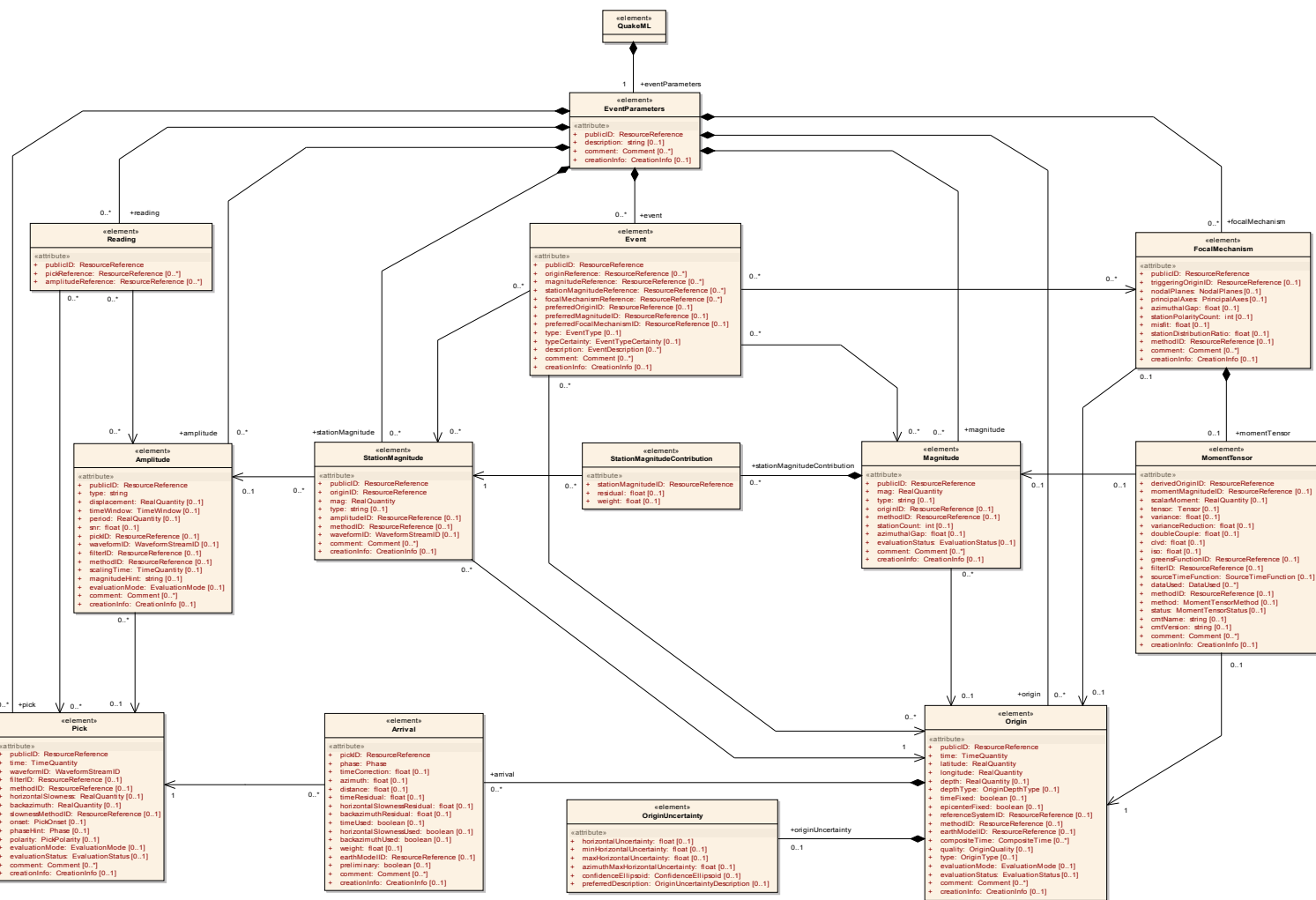


QuakeML-RT version 1.1



```

<type>
TimeQuantity
+ attributes
+ value: datetime
+ uncertainty: float [0..1]
+ lowerUncertainty: float [0..1]
+ upperUncertainty: float [0..1]
+ confidenceLevel: float [0..1]

```

```

<type>
CompositeTime
+ attributes
+ year: IntegerQuantity [0..1]
+ month: IntegerQuantity [0..1]
+ day: IntegerQuantity [0..1]
+ hour: IntegerQuantity [0..1]
+ minute: IntegerQuantity [0..1]
+ second: RealQuantity [0..1]

```

```

<type>
RealQuantity
+ attributes
+ value: float
+ uncertainty: float [0..1]
+ lowerUncertainty: float [0..1]
+ upperUncertainty: float [0..1]
+ confidenceLevel: float [0..1]

```

```

<type>
IntegerQuantity
+ attributes
+ value: int
+ uncertainty: int [0..1]
+ lowerUncertainty: int [0..1]
+ upperUncertainty: int [0..1]
+ confidenceLevel: float [0..1]

```

```

<type>
Axis
+ attributes
+ azimuth: RealQuantity
+ plunge: RealQuantity
+ length: RealQuantity

```

```

<type>
NodePlane
+ attributes
+ strike: RealQuantity
+ dip: RealQuantity
+ rate: RealQuantity

```

```

<type>
NodePlanes
+ attributes
+ nodalPlane1: NodePlane [0..1]
+ nodalPlane2: NodePlane [0..1]
+ preferredPlane: int [0..1]

```

```

<type>
WaveformStreamID
+ attributes
+ networkCode: string
+ stationCode: string [0..1]
+ channelCode: string [0..1]
+ locationCode: string [0..1]
+ resourceURI: ResourceReference [0..1]

```

```

<type>
ConfidenceEllipsoid
+ attributes
+ semiMajorAxisLength: float
+ semiMinorAxisLength: float
+ semiIntermediateAxisLength: float
+ majorAxisPlunge: float
+ majorAxisAzimuth: float
+ majorAxisRotation: float

```

```

<type>
CreationInfo
+ attributes
+ agencyID: string [0..1]
+ agencyURI: ResourceReference [0..1]
+ author: string [0..1]
+ authorURI: ResourceReference [0..1]
+ creationTime: datetime [0..1]
+ version: string [0..1]

```

```

<type>
DataUsed
+ attributes
+ waveType: DataUsedWaveType
+ stationCount: int
+ componentCount: int
+ shortestPeriod: float [0..1]

```

```

<type>
Tensor
+ attributes
+ Mr: RealQuantity
+ Mt: RealQuantity
+ Mp: RealQuantity
+ Mp: RealQuantity
+ Mq: RealQuantity

```

```

<type>
PrincipalAxes
+ attributes
+ pAxis: Axis
+ nAxis: Axis [0..1]

```

```

<type>
EventDescription
+ attributes
+ text: string
+ type: EventDescriptionType [0..1]

```

```

<type>
OriginQuantity
+ attributes
+ associatedPhaseCount: int [0..1]
+ usedPhaseCount: int [0..1]
+ associatedStationCount: int [0..1]
+ usedStationCount: int [0..1]
+ depthPhaseCount: int [0..1]
+ standardError: float [0..1]
+ azimuthalGap: float [0..1]
+ secondaryAzimuthalGap: float [0..1]
+ maximumDistance: float [0..1]
+ minimumDistance: float [0..1]
+ medianDistance: float [0..1]

```

```

<type>
SourceTimeFunction
+ attributes
+ type: SourceTimeFunctionType
+ duration: float
+ riseTime: float [0..1]
+ decayTime: float [0..1]

```

```

<enumeration>
EventTypes
EARTHQUAKE = earthquake
INDUCED_EARTHQUAKE = induced earthquake
QUARRY_BLAST = quarry blast
EXPLOSION = explosion
CHEMICAL_EXPLOSION = chemical explosion
NUCLEAR_EXPLOSION = nuclear explosion
LANDSLIDE = landslide
ROCKSLIDE = rockslide
SNOW_AVALANCHE = snow avalanche
DEBRIS_AVALANCHE = debris avalanche
MINE_COLLAPSE = mine collapse
BUILDING_COLLAPSE = building collapse
VOLCANIC_ERUPTION = volcanic eruption
METEOR_IMPACT = meteor impact
PLANE_CRASH = plane crash
SONG_BOOM = sonic boom
NOT_EXISTING = not existing
NULL = null
OTHER_EVENT = other

```

```

<enumeration>
TimeWindow
+ attributes
+ begin: float
+ end: float
+ reference: datetime

```

```

<enumeration>
ResourceReference
+ attributes
+ resourceID: string

```

```

<enumeration>
Comment
+ attributes
+ text: string
+ id: ResourceReference [0..1]
+ creationInfo: CreationInfo [0..1]

```

```

<enumeration>
OriginType
HYPOCENTER = hypocenter
CENTROID = centroid
AMPLITUDE = amplitude
MACROSEISMIC = macroseismic
RUPTURE_START = rupture start
RUPTURE_END = rupture end

```

```

<enumeration>
MomentTensorMethod
CMT_0 = CMT - general m.
CMT_1 = CMT - moment te.
CMT_2 = CMT - double co.
TELESEISMIC = teleseismic
REGIONAL = regional

```

```

<enumeration>
EventStatus
PRELIMINARY = preliminary
CONFIRMED = confirmed
REVIEWED = reviewed
FINAL = final
REJECTED = rejected
REPORTED = reported

```

```

<enumeration>
EventCertainty
KNOWN = known
SUSPECTED = suspected

```

```

<enumeration>
PickPolarity
POSITIVE = positive
NEGATIVE = negative
UNDECIDABLE = undecidable

```

```

<enumeration>
OriginType
HYPOCENTER = hypocenter
CENTROID = centroid
AMPLITUDE = amplitude
MACROSEISMIC = macroseismic
RUPTURE_START = rupture start
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REJECTED = rejected
REPORTED = reported

```

```

<enumeration>
EventCertainty
KNOWN = known
SUSPECTED = suspected

```

```

<enumeration>
EvaluationMode
MANUAL = manual
AUTOMATIC = automatic

```

```

<enumeration>
SourceTimeFunctionType
BOX_CAR = box car
TRIANGLE = triangle
TRAPEZOID = trapezoid
UNKNOWN = unknown

```

```

<enumeration>
DataUsedWaveType
BODY_WAVES = body waves
P_BODY_WAVES = P body waves
LONG_PERIOD_BODY_WAVES = long-period bod...
SURFACE_WAVES = surface waves
INTERMEDIATE_PERIOD_SURFACE_WAVES = intermediate pe...
LONG_PERIOD_MANTLE_WAVES = long-period man...
UNKNOWN = unknown

```

```

<enumeration>
OriginType
FROM_LOCATION = from location
FROM_MOMENT_TENSOR_INVERSION = from moment ten...
BROAD_BAND_P_WAVEFORMS = from modeling o...
CONSTRAINED_BY_DEPTH_PHASES = constrained by ...
CONSTRAINED_BY_DIRECT_PHASES = constrained by ...
OPERATOR_ASSIGNED = operator assigned
OTHER_ORIGIN_DEPTH = other

```

```

<enumeration>
EventDescriptionType
FELT_REPORT = felt report
LINK_ENGDALH_REGION = Finn-Engdahl region
LOCAL_TIME = local time
TECTONIC_SUMMARY = tectonic summary
NEAREST_CITIES = nearest cities
EARTHQUAKE_NAME = earthquake name
REGION_NAME = region name

```

```

<enumeration>
OriginUncertaintyDescription
HORIZONTAL = horizontal unce...
ELLIPSE = uncertainty ellipse
ELLIPSOID = confidence ellipsoid
PDF = probability den...

```