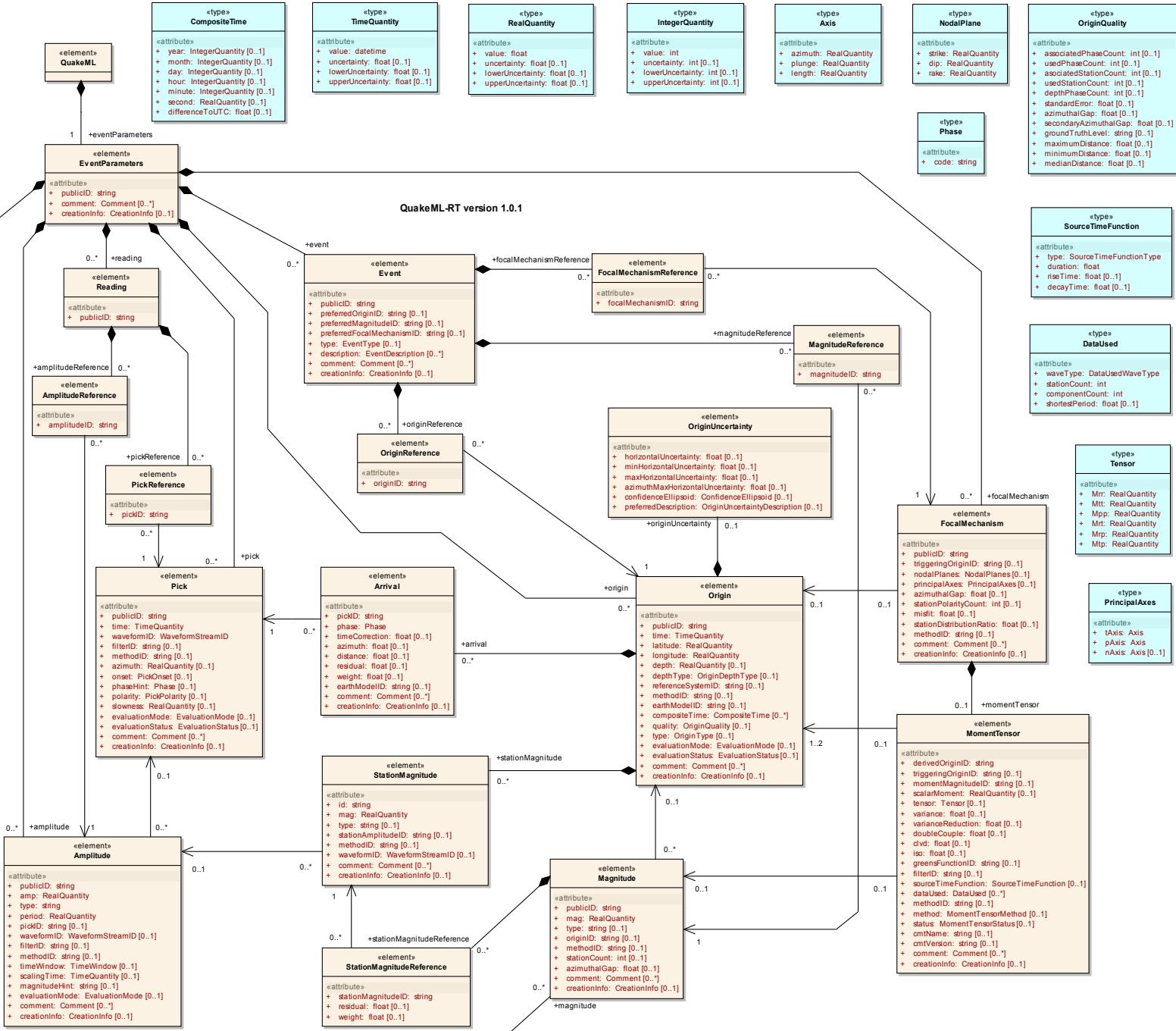


class QuakeML



enumeration
DataUsedWaveType

```
BODY_WAVES = body waves
P_BODY_WAVES = P body waves
LONG_PERIOD_WAVES = long-period body...
SURFACE_WAVES = surface waves
INTERMEDIATE_PERIOD_SURFACE_WAVES = intermediate-pe...
LONG_PERIOD_MANTLE_WAVES = long-period man...
UNKNOWN = unknown
```

enumeration
OriginDepthType

```
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
OriginUncertaintyDescription

```
HORIZONTAL = horizontal unce...
ELLIPSE = elliptical ellipse
ELLIPOID = confidence ellipsoid
PDF = probability den...
```

enumeration
EventEntityType

```
ERTHQUAKE = earthquake
EXPLOSION = explosion
QUARRY_BLAST = quarry blast
CHEMICAL_EXPLOSION = chemical explosion
NUCLEAR_EXPLOSION = nuclear explosion
LANDSLIDE = landslide
DEBRIS_AVALANCHE = debris avalanche
ROCKSLIDE = rockslide
MINE_COLLAPSE = mine collapse
VOLCANIC_ERUPTION = volcanic eruption
METEOR_IMPACT = meteor impact
PLANE_CRASH = plane crash
BUILDING_COLLAPSE = building collapse
SONIC_BOOM = sonic boom
NOT_EXISTING = not existing
NULL = null
OTHER_EVENT = other
```

enumeration
SourceTimeFunctionType

```
BOX_CAR = box car
TRIANGLE = triangle
TRAPEZOID = trapezoid
UNKNOWN = unknown
```

enumeration
EventDescriptionType

```
FELT_REPORT = felt report
FLINN_ENGDAHL_REGION = Flinn-Engdahl region
LOCAL_TIME = local time
TECTONIC_SUMMARY = tectonic summary
NEAREST_CITIES = nearest cities
EARTHQUAKE_NAME = earthquake name
REGION_NAME = region name
```

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
EvaluationStatus

```
PRELIMINARY = preliminary
CONFIRMED = confirmed
REJECTED = rejected
```

enumeration
CreationInfo

```
agencyID: string [0..1]
agencyURI: string [0..1]
author: string [0..1]
authorURI: string [0..1]
creationTime: datetime [0..1]
version: string [0..1]
```

enumeration
EvaluationMode

```
MANUAL = manual
AUTOMATIC = automatic
```

enumeration
ConfidenceEllipsoid

```
azimuth1: float
dip1: float
azimuth2: float
dip2: float
standardError1: float
standardError2: float
standardError3: float
```

enumeration
NodalPlanes

```
azimuth1Gap: float [0..1]
usedPhaseCount: int [0..1]
associatedStationCount: int [0..1]
depthPhaseCount: int [0..1]
standardError: float [0..1]
secondaryAzimuthGap: float [0..1]
groupID: string [0..1]
maximumDistance: float [0..1]
minimumDistance: float [0..1]
medianDistance: float [0..1]
```