

Proposed Change to FDSN Event webservice to support Event Type

Reference: <http://www.fdsn.org/webservices/FDSN-WS-Specifications-1.1.pdf>

Modification 1:

Current Table 2

fdsnws-event						
mindepth		[Any]	[Any]	[Any]	float	kilometers
maxdepth		[Any]	[Any]	[Any]	float	kilometers
minmagnitude	minmag	[Any]	[Any]	[Any]	float	Defined by the
maxmagnitude	maxmag	[Any]	[Any]	[Any]	float	mag type
magnitudetype	magtype	[Any]	[Not Applicable]		string	[Not Applicable]
includeallorigins		FALSE	[Not Applicable]		boolean	[Not Applicable]
includeallmagnitudes		FALSE	[Not Applicable]		boolean	[Not Applicable]
includearrivals		FALSE	[Not Applicable]		boolean	[Not Applicable]
eventid		[Any]	[Not Applicable]		string	[Not Applicable]
limit		[Any]	1	[Any Positive]	integer	[Not Applicable]
offset		1	1	[Any Positive]	integer	[Not Applicable]
orderby		time	One of: <i>time, time-asc, magnitude or magnitude-asc</i>		integer	[Not Applicable]
contributor		[Any]	[Not Applicable]		string	[Not Applicable]
catalog		[Any]	[Not Applicable]		string	[Not Applicable]
updatedafter		[Any]	[Any Valid Time]		time	UTC

Add this line to table 2

Parameter	Abbreviation	Default	Minimum	Maximum	Type	Units
Eventtype	No abbrev	Earthquake	Valid ASCII list (from quakeM1.2[1] or * or ?	Valid ASCII list (from quakeM1.2[1] or * or ?	string	Not applicable

And footnote [1] in the table caption stating: “[1] Event Types defined in <https://quake.ethz.ch/quakeml/docs/notes?action=AttachFile&do=view&target=quakeml-1.2-classdiag-AI.pdf>”

Modification 2:

In the Text output format for event type on page 16

This simple text output format contains one event per line with common fields separated by vertical bar characters (ASCII decimal 124). Field entries cannot contain vertical bar characters. Lines beginning with a hash character (“#”: ASCII decimal 35) should be considered comment lines.

```
EventID | Time | Latitude | Longitude | Depth/km | Author | Catalog | Contributor | ContributorID | MagType | Magnitude | MagAuthor | EventLocationName
EventID | Time | Latitude | Longitude | Depth/km | Author | Catalog | Contributor | ContributorID | MagType | Magnitude | MagAuthor | EventLocationName
```

Replace Above box with

```
EventID|Time|Latitude|Longitude|Depth/km|EventType|Author|Catalog|Contributor|ContributorID|MagType|Magnitude|MagAuthor|EventLocationName
EventID|Time|Latitude|Longitude|Depth/km|EventType|Author|Catalog|Contributor|ContributorID|MagType|Magnitude|MagAuthor|EventLocationName
```

As multiple origins, multiple magnitudes and arrivals cannot be represented in the text format, service implementations should ignore the 'includeallorigins', 'includeallmagnitudes' and 'includearrivals' parameters when the text output has been selected.

The description for each column of the text format is as follows:

EventID	Event ID assigned by the data center, as to be used with <i>eventid</i> parameter
Time	Origin time of the event in UTC
Latitude	Event latitude in degrees
Longitude	Event longitude in degrees
Depth/km	Event depth in kilometers
Event Type	Event type Identified here https://quake.ethz.ch/quakeml/docs/notes?action=AttachFile&do=view&target=quakeml-1.2-classdiag-AI.pdf
Author	Identifier of event origin author
Catalog	Identifier of source catalog
Contributor	Identifier of event information contributor
ContributorID	Event ID as reported by the contributor
MagType	Magnitude scale identifier (e.g. mb, ML, Mw)
Magnitude	Magnitude value
MagAuthor	Identifier of magnitude author
EventLocationName	Geographic description of event location (e.g. Flinn-Engdahl region name)

Example

Requesting origins for all events above magnitude 6 in 2012:

<http://service.iris.edu/fdsnws/event/1/query?minmag=6&starttime=2012-01-01T00:00:00&endtime=2013-01-01T00:00:00>