

## Spike File Format

A Spike file is a zipped file that contains the following documents:

```
\[Unique Capture ID].spike\
  [Unique Image ID].jpg
  [Unique Image ID]-aligned.jpg
  [Unique Image ID]-composite.jpg
  [Unique Image ID]-thumb.jpg
  [Unique Image ID]-working.jpg
  spike.xml
\spike-manifest.xml  [not used]
```

## XML Format

Element	Parent	Attributes / Elements
spikedata		type [photo measure]
capture	spikedata	timestamp imageid captureid
steps	capture	
step	steps	
camera	step	timestamp imageid rotation offset resolution calibration
orientation	step	timestamp pitch roll bearing

location	step	type [local, target] timestamp latitude longitude altitude (meters)
range	step	timestamp distance (meters)
measurements	capture	
measurement	measurements	type [align, main, cutout, line] svg area (meters <sup>2</sup> ) circumference (meters) dimensions (meters)
images	capture	
image	images	id type [primary, aligned, composite, working, thumb] filename