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# 1 Files

	<i>File name</i>
Tracker metadata	tracker.meta
Tracker data	tracker.data

## 1.1 Tracker metadata

<i>Type</i>	<i>Description</i>
{TrackerMetadataTrack}	information of the track
{TrackerMetadataSegment} <sup>n</sup>	information of each segments
{TrackerMetadataWaypoint} <sup>n</sup>	waypoints of the track

## 1.2 Tracker data

<i>Type</i>	<i>Description</i>
{TrackerDataLocation TrackerDataSegmentStart} <sup>n</sup>	track locations and segment start indicators

# 2 Primitives

<i>Type</i>	<i>Size (byte)</i>	<i>Format</i>
int	4	big endian, signed
long	8	big endian, signed
double	8	IEE 754 encoding
string	variable	UTF8 encoding, starts with an int giving the string length in bytes
coordinate	4	WGS84, degrees*1e7
height	4	WGS84, meters*1e3, -999999999 means no value
timestamp	8	UTC time in millisecond
accuracy	4	meters, 0 means no value
pressure	4	hpa*1e3, 999999999 means no value

# 3 Structures

## 3.1 Structure {TrackerMetadataTrack}

<i>Type</i>	<i>Description</i>
int	magic number (0)
{Metadata}	

## 3.2 Structure {TrackerMetadataSegment}

Type	Description
int	magic number (2)
{Metadata}	

## 3.3 Structure {TrackerMetadataWaypoint}

Type	Description
int	magic number (1)
{Waypoint}	

## 3.4 Structure {TrackerDataSegmentStart}

Type	Description
int	magic number (2000000001)

## 3.5 Structure {TrackerDataLocation}

Type	Description
int	magic number (2000000004)
{Location}	

## 3.6 Structure {Location}

Type	Description
int	structure size (bytes)
coordinate	longitude
coordinate	latitude
height	elevation
timestamp	time
[accuracy]	accuracy (optional, depending on structure size)
[pressure]	pressure (optional, depending on structure size)

## 3.7 Structure {Waypoint}

Type	Description
{Metadata}	
{Location}	

## 3.8 Structure {Metadata}

Type	Description
{MetadataContent}	main metadata content
int	number of extended metadata contents (-1 for none)
[{MetadataContentExt} <sup>n</sup> ]	extended metadata contents

### 3.9 Structure {MetadataContent}

<i>Type</i>	<i>Description</i>
int	size of entries
[{MetadataContentEntry}]	

### 3.10 Structure {MetadataContentExt}

<i>Type</i>	<i>Description</i>
string	name of extension
{MetadataContent}	

### 3.11 Structure {MetadataContentEntry}

<i>Type</i>	<i>Description</i>
string	entry name
int	type of entry
[int]	size of data (optional, only if type of entry is -4)
[*]	data (size depends on the type of entry)

#### 3.11.1 Types of data

<i>Type of entry</i>	<i>Type of data</i>	<i>Size of data (byte)</i>
-1	boolean	1
-2	long	8
-3	double	8
-4	raw data	[see size of data]
>=0	string	[see type of entry]