

ALGE-Timing

Versatile Exchange Protocol

General

The protocol is based on XML fragments that are sent from a source to one or many destinations. Each fragment contains of attributes and child elements. The order of attributes is not fixed and they may also be omitted. Same is true for child elements.

Each fragment contains at least the following information:

```
<FragmentName Source="OptiC3NET" Generated="2016-08-01T12:30:33.456+0:00" Version="1" />
```

Attribute	Description	Occurance	Values	Default
Source	Name of the application used	Required	Text	
Generated	Generation timestamp in the application	Required	DateTime	
Version	Version of the protocol used	Required	Number	

Heat Start

This fragment is sent whenever a heat is started.

```
<HeatStart IsFalseStart="False" EventId="1" HeatId="2" Time="12:30:22.2124" />
```

Attribute	Description	Occurance	Values	Default
IsFalseStart	Indicates a false start	Optional	True/False	False
EventId	Id of the event	Required	Number	
HeatId	Id if the heat	Required	Number	
Time	TOD the start happened	Optional	Time	

Heat Intermediate

This fragment is sent whenever a heat is at an intermediate

```
<HeatIntermediate EventId="1" HeatId="2" Time="12:30:22.2124" Runtime="12.34" />
```

Attribute	Description	Occurance	Values	Default
EventId	Id of the event	Required	Number	
HeatId	Id if the heat	Required	Number	
Time	TOD the finish happened	Optional	Time	
Runtime	Runtime of the heat	Optional	Time	

Heat Finish

This fragment is sent whenever a heat finished (e.g. first athlete to cross the line)

```
<HeatFinish EventId="1" HeatId="2" Time="12:30:22.2124" Runtime="12.34" />
```

Attribute	Description	Occurance	Values	Default
EventId	Id of the event	Required	Number	
HeatId	Id if the heat	Required	Number	
Time	TOD the finish happened	Optional	Time	
Runtime	Runtime of the heat	Optional	Time	

Heat Wind

This fragment is sent whenever a wind reading for a heat is done

```
<HeatWind EventId="1" HeatId="2" Wind="+5,2" WindUnit="MetersPerSeconds"/>
```

Attribute	Description	Occurance	Values	Default
EventId	Id of the event	Required	Number	
HeatId	Id if the heat	Required	Number	
Wind	Wind reading	Optional	Decimal	
WindUnit	Unit of the wind reading	Required	MilesPerHour, MetersPerSecond, FeetsPerSecond	

Athlete evaluated

This fragment is sent whenever a result has been evaluated by reading the photo finish.

```
<CompetitorEvaluated Bib="1" Rank="2" Time="12:30:22.2124" Runtime="12.34"  
Disqualification="DNF" Lane="3" />
```

Attribute	Description	Occurrence	Values	Default
Bib		Required	Number	
Rank		Optional	Number	
Time		Optional	Time	
Runtime		Optional	Time	
RuntimeFullPrecision	With full precision	Optional	Time	
Lane		Optional	Number	
Disqualification		Optional	Text	
DifferenceToWinner				
DifferernceToPrevious				
State		Optional	DNS/DNF/DSQ	omitted

Heat result confirmed

This fragment is sent whenever the reading of photo finish is completed and the result is pushed by the operator.

```
<HeatResult SessionId="1" EventId="2" HeatId="2" Starttime="12:30:22.2124"  
Finishtime="12:31:12.34" Runtime="22.33">  
  
    <Result Bib="1" Rank="2" Time="12:30:22.2124" Runtime="12.34" Disqualification="DNF"  
    sLane="3" />  
    ...  
</HeatResult>
```

Attribute	Description	Occurance	Values	Default
SessionId		Required	Number	
EventId		Required	Number	
HeatId		Required	Number	
Starttime		Optional	Time	
Finishtime		Optional	Number	
Runtime		Optional	Text	
Wind				
WindUnit				
DistanceMeters				

The result tags follow the same structure as the CompetitorEvaluated tags.

Legend:

TOD: Time Of Day

Timeformat HH:MM:SS.1234