

Event Feed Proposal 2017

From ICPC-Contest Control Standard

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This page describes the event feed format that was proposed for use at the 2017 WF. In reality, the 2016 feed was used instead.

The 2017 event feed only differs with respect to the feed used during WF 2016 by adding the **penalty** and **solved** attributes from **run** also to **judgement**, and adding judged time(stamp)s to **run**.



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Getting the feed

Connect to port 4713 and the entire feed for the contest will be sent to you. When the contest is finalized, the contest tag will be closed and the connection closed.

Connect to port 4714 and the entire feed for the contest will be sent to you, with the exception that no judgement information will be sent for runs submitted during the last hour. When the contest is finalized, the contest tag will be closed and the connection closed (but you will still not get judgements for runs submitted the last hour).

File format

The event feed is structured as an xml document within the root element <contest>.

All events are separate elements at the top level. Elements are considered either *static* in which case only one such element occurs, or *instances* in which case different instances are distinguished by a unique id. When an element appears again in the feed, either static or an instance with the same id, it is considered to replace the previous occurrence.

Some extra tags beyond what is documented here may also be sent, these should be ignored.

Event types are:

info

contest information and updates (static)

language

submission language information

region

super region information (instance with id 'external-id')

judgement

judgement information (instance with id 'acronym')

problem

problem information

team

team information

clar

submitted clarification information and updates

run

submitted run information and updates

testcase

judgement of individual test cases for a run (instance identified by 'i' and 'judgement_id')

finalized

contest finalization information (static)

If nothing is specified, elements are instances identified by an 'id'.

Time and timestamp elements are specified in seconds; time elements are in contest time (relative to contest start, corrected for removed time intervals) while timestamps are in Unix epoch. Both are specified with three decimal places, i.e. with millisecond resolution. Times are truncated, so in a 5 hour contest a submission at 18000 seconds is late. Events have time and timestamp sub-elements that represent the same real moment in time.

Sample events with inner element descriptions:

<info>

```
|-----|
|<info>
|<contest-id>398578</contest-id>
|<length>05:00:00</length>
|<scoreboard-freeze-length>01:00:00</scoreboard-freeze-length>
|<penalty>20</penalty>
|<started>False</started>
|<starttime>1265335138.260</starttime>
|<title>The 2016 World Finals of the ACM International Collegiate Programming Contest</title>
|<short-title>2016 World Finals</short-title>
|</info>
|-----|
```

contest-id

Contest identifier, which is of the form `[a-z0-9-]{1,36}`, i.e. lowercase letters, digits, and dashes with length at most 36 (this allows a UUID).

length

Length of contest in HH:MM:SS format.

scoreboard-freeze-length

Length of time at the end of the contest when scoreboard is frozen in HH:MM:SS format.

penalty

Penalty time in minutes.

started

Started flag.

starttime

Scheduled starttime as a timestamp in decimal seconds, or

`<starttime>undefined</starttime>` if the scheduled start time is not defined.

title

Contest title string.

short-title

Shortened contest title (from contest.yaml)

<language>

```
<language>
<id>1</id>
<name>C++</name>
</language>
```

id

Language identifier.

name

Language name.

<region>

```
<region>
<external-id>3012</external-id>
<name>Europe</name>
</region>
```

external-id

Identifier from the registration system.

name

Super region name.

<judgement>

```
<judgement>
<acronym>CE</acronym>
<name>Compile Error</name>
<penalty>False</penalty>
<solved>False</solved>
</judgement>
```

acronym

Short name

name

descriptive name

penalty

Whether this judgement type incurs penalty time

solved

Whether this judgement type solves the problem

Note that the **penalty** and **solved** attributes should be identical to those in corresponding **run** elements.

<problem>

```
<problem>
<id>1</id>
<label>A</label>
<name>APL Lives!</name>
<color>red</color>
<rgb>#FF0000</rgb>
</problem>
```

id

Problem identifier

label

problem label on the scoreboard

name

descriptive name

color

problem color name (optional, from problemset.yaml)

rgb

problem color RGB hex value (optional, from problemset.yaml)

<team>

```
<team>
<id>1</id>
<name>American University of Beirut</name>
<nationality>LBN</nationality>
<university>American University of Beirut</university>
<university-short-name>U Beirut</short-name>
```

```
<region>Europe</region>
<external-id>23412</external-id>
</team>
```

id

Team identifier and at World Finals the team seat number.

name

Team name

nationality

nationality as ISO 3166-1 alpha-3

university

university affiliation.

university-short-name

shortened university name (from teams.csv)

region

super region name.

external-id

team id from registration system.

Additional information may be provided. Note that for the World Finals the team name is set to the university name, but this need not be the case at ICPC regionals or other contests.

<clar>

```
<clar>
<answer>The number of pieces will fit in a signed 32-bit integer.</answer>
<answered>True</answered>
<id>1</id>
<question>What is the upper limit on the number of pieces of chocolate requested by the
friends?</question>
<team>0</team>
<problem>1</problem>
118.480
<timestamp>1265335256.480</timestamp>
<to-all>True</to-all>
</clar>
```

answer**answered**

Answered flag

id

Clarification identifier

question**team**

Team ID

problem

Problem ID

time**timestamp****to-all**

to-all flag

<run>

```
<run>
<id>1410</id>
<judged>True</judged>
<language>C++</language>
<penalty>True</penalty>
<problem>4</problem>
<result>WA</result>
<solved>False</solved>
<team>74</team>
17960.749
<timestamp>1265353100.749</timestamp>
<judged-time>17969.143</judged-time>
<judged-timestamp>1265353109.143</judged-timestamp>
</run>
```

id

Run identifier

judged

Judged flag

language

language name

penalty

penalty flag

problem

problem ID

result

result short name

solved

solved flag

team

team ID

time

official submission (contest) time used for scoring.

timestamp

UNIX Epoch timestamp

judged-time

contest time when submission was judged.

judged-timestamp

UNIX Epoch timestamp when submission was judged.

Note: The **judged-time** and **judged-timestamp** attributes are only present if **solved** is true.

<testcase>

```
<testcase>
<i>1</i>
<judged>True</judged>
<judgement>WA</judgement>
<n>1</n>
<run-id>1</run-id>
```

```
<solved>False</solved>
1939.752
<timestamp>1265336078.752</timestamp>
</testcase>
```

i
testcase number

judged
judgement
Judgement acronym

n
Total number of testcases

run-id
solved
time
timestamp

<finalized>

```
<finalized>
<timestamp>1265336078.015</timestamp>
<last-gold>4</last-gold>
<last-silver>8</last-silver>
<last-bronze>12</last-bronze>
<comment>Finalized by John Doe and Jane Doe</comment>
</finalized>
```

timestamp
last-gold
integer, last rank to receive a gold (should always be 4 for a compliant system)

last-silver
integer, last rank to receive a silver (should always be 8 for a compliant system)

last-bronze
integer, last rank to receive a bronze (should often be 12 but could very possibly be something else)

comment
text

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