

Event Feed 2011

From ICPC-Contest Control Standard

Jump to:[navigation](#), [search](#)

This page describes the event feed format that will be used at WF 2011

Contents

- [1 Getting the feed](#)
- [2 File format](#)
 - [2.1 <info>](#)
 - [2.2 <language>](#)
 - [2.3 <region>](#)
 - [2.4 <judgement>](#)
 - [2.5 <problem>](#)
 - [2.6 <team>](#)
 - [2.7 <clar>](#)
 - [2.8 <run>](#)
 - [2.9 <testcase>](#)
 - [2.10 <finalized>](#)
- [3 Balloon notification feed](#)
 - [3.1 Example](#)
 - [3.2 Elements](#)
 - [3.2.1 notifications](#)
 - [3.2.2 notification](#)
 - [3.2.3 balloon](#)
 - [3.3 Access to notifications](#)

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.

Event types are:

info

- contest information and updates
- language
 - submission language information
- region
 - super region information
- judgement
 - judgement information
- 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

Most elements are identified by an id. Timestamped events all have a timestamp element in decimal seconds. Submission events have a time element in decimal seconds relative to the contest start when it was submitted.

Events have time attributes identical to the timestamp element.

Sample events with inner element descriptions:

<info>

```
<info>
<length>05:00:00</length>
<penalty>20</penalty>
<started>False</started>
<starttime>1265335138.26</starttime>
<title>The 2010 World Finals of the ACM International Collegiate Programming
Contest</title>
</info>
```

length

Length of contest in HH:MM:SS format.

penalty

Penalty time in minutes.

started

Started flag.

starttime

Starttime as a timestamp in decimal seconds.

title

Contest title string.

<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>
</judgement>
```

acronym
Short name

name
descriptive name

<problem>

```
<problem>
<id>1</id>
<name>A - APL Lives!</name>
</problem>
```

id
Problem identifier

name
descriptive name

<team>

```
<team>
<id>1</id>
```

```
<name>American University of Beirut</name>
<nationality>LBN</nationality>
<university>American University of Beirut</university>
<region>Europe</region>
<external-id>23412</external-id>
</team>
```

id
Team identifier

name
Team name

nationality
nationality as ISO 3166-1 alpha-3

university
university affiliation.

region
super region name.

external-id
team id from registration system.

Additional information may be provided.

<clar>

```
<clar time="1265335256740">
<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>
118.480356991
<timestamp>1265335256.74</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 time="1265353100290">  
<id>1410</id>  
<judged>True</judged>  
<language>C++</language>  
<penalty>True</penalty>  
<problem>4</problem>  
<result>WA</result>  
<solved>False</solved>  
<team>74</team>  
17960.749403  
<timestamp>1265353100.29</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 time used for scoring.

timestamp

<testcase>

```
<testcase time="1265336078010">  
<i>1</i>  
<judged>True</judged>  
<judgement>WA</judgement>  
<n>1</n>  
<run-id>1</run-id>  
<solved>False</solved>  
939.751724958  
<timestamp>1265336078.01</timestamp>  
</testcase>
```

i
 testcase number
judged
judgement
 Judgement acronym
n
 Total number of testcases
run-id
solved
time
timestamp

<finalized>

```
<finalized>  
<timestamp>1265336078.01</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 place to receive a gold
last-silver
 integer, last place to receive a silver
last-bronze
 integer, last place to receive a bronze
comment
 text

Balloon notification feed

Comment: This should be moved into its own article like [Event Feed Douglas Lane](#) 18:48, 13 April 2011 (CEST)

Like the [Event Feed](#), the balloon notifications are provided as an XML document that can be processed as a stream using e.g., a SAX parser.

A notification should be sent the first time a team solves a particular problem. If a previously accepted run is rejected due to rejudging, no notification is sent, nor is a notification sent if and when the team subsequently solves the problem.

Example

```
<?xml version="1.0" encoding="UTF-8" ?>  
<notifications>  
  <notification>  
    <team-id>34</team-id>
```

```

<team>U Waterloo</team>
132.04213
<timestamp>1298733213.102</timestamp>
<nr>214</nr>
<balloon>
  <problem-id>B</problem-id>
  <problem>Bulls and bears</problem>
  <rgb>ff0000</rgb>
  <color>Red</color>
</balloon>
<first-by-team>true</first-by-team>
<balloons>
  <balloon>
    <problem-id>D</problem-id>
    <problem>Down the hill</problem>
    <rgb>33cc00</rgb>
    <color>Green</color>
  </balloon>
  <balloon>
    <problem-id>F</problem-id>
    <problem>Failing to make the grade</problem>
    <rgb>ffff00</rgb>
    <color>Yellow</color>
  </balloon>
</balloons>
</notification>
</notifications>

```

Elements

notifications

Root element. Contains zero or more notifications. Closing tag only sent once contest is over.

notification

Sent for each balloon to be printed. Contains

team-id
Team's number in contest (1, 2, etc) (int)

team
Team name (same as or similar to team sign) (string)

time
minutes since contest started, contest time (float)

nr
id of notification, sequential starting at 1 (int)

balloon
see below

first-in-contest
required only when true (bool)

first-for-problem

required only when true (bool)
first-by-team
required only when true (bool)
balloon
list of ballons team already should have

balloon

Describes a balloon for a problem

problem-id
A, B, etc (character)
problem
name / title of problem (string)
rgb
3-byte RGB value encoded in hex (string)
color
color name (string)

Comment: Standardize types and constants, put into their own section in article [Douglas Lane](#)
18:56, 13 April 2011 (CEST)
Examples for discussion

bool, values: "true", "false" (lower case strings) ?
character in problem-id: a single upper case letter
rgb: hex is an integer

Access to notifications

Comment: TODO. Connect to some port, authenticate in some way, get summary somehow.
[Mikael Goldmann](#)

Comment: Is the program that consumes the notifications responsible for tracking which have been send and which have not? [Douglas Lane](#) 17:06, 20 February 2011 (CET)

Retrieved from "https://clics.ecs.baylor.edu/index.php?title=Event_Feed_2011&oldid=764"

Navigation menu

Views

- [Page](#)
- [Discussion](#)
- [View source](#)
- [History](#)
- [PDF Export](#)

Personal tools

- [Log in](#)

Navigation

- [Main page](#)
- [Recent changes](#)
- [Random page](#)
- [Help](#)

Search

Tools

- [What links here](#)
- [Related changes](#)
- [Special pages](#)
- [Permanent link](#)
- [Page information](#)



- This page was last edited on 17 April 2011, at 02:20.
- Content is available under [Creative Commons Attribution-ShareAlike](#) unless otherwise noted.
- [Privacy policy](#)
- [About ICPC-Contest Control Standard](#)
- [Disclaimers](#)