

The event feed is a set of data output by the Contest Control System.

Contents

- 1 Getting the feed
 - ◆ 1.1 Authentication
 - ◆ 1.2 Accessing the feed
 - ◆ 1.3 Account Types
- 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 notification
 - ◇ 2.10.1 balloon
 - ◆ 2.11 finalized

Getting the feed

Authentication

'''

'''

ICPC Collaborative Learning Institute Event Feed

Accessing 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).

Account Types

All events are sent to Admin and Resolver, all other types stop receiving TBD events when contest is frozen.

Type	Description
Admin	All events
Balloon	Balloon Notifications only
Commentator	<u>TBD</u> , request team source code
Floor / Team	<u>TBD</u>
Judge	<u>TBD</u>
Public	<u>TBD</u>
Resolver	All events

File format

The event feed is an XML document within the root element `<contest>`.

```
<contest version="1.0">
  <info ... />
  <language ... />
  ...
</contest>
```

version
the format version. Must be "1.0"

All events are separate elements at the top level.

Event types/tags

Event/Element	Contains
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

Event_Feed

run submitted run information and updates
testcase judgement of individual test cases for a run
notification balloon notification
finalized the contest standings/medals are assigned, contest is over

Notes

1. Submission events have a contest-time element in minutes
2. Timestamped events all have a timestamp element in decimal seconds.
3. The `<finalized>` element is followed by a `</contest>` tag

info

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

title contest title string
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

language

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

name language name

region

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

external-id identifier (integer) from groups.tsv (Group ID)
name super-region name from groups.tsv

judgement

```
<judgement>
  <acronym>CE</acronym>
  <name>Compile Error</name>
</judgement>
```

acronym

judgement acronym

name

descriptive name

problem

```
<problem id="1" state="enabled">
  <label>A</label>
  <name>APL Lives!</name>
  <color rgb="#ffff00">yellow</color>
</problem>
```

id

problem identifier

state

one of enabled, paused, disabled

label

one letter label

name

descriptive name

color

color name, typically used for balloons

rgb

color rgb value

team

```
<team id="1" external-id="23412">
  <name>American University of Beirut</name>
  <nationality>LBN</nationality>
  <university>American University of Beirut</university>
  <region>Europe</region>
</team>
```

id

team identifier. from teams.tsv (team number)

external-id

team id from teams.tsv (Reservation ID)

name

team name from teams.tsv

nationality

nationality as ISO 3166-1 alpha-3, from teams.tsv

university

university affiliation, from teams.tsv

region

super region name groups.tsv from teams.tsv

judgement

Event_Feed

clar

```
<clar id="1" team-id="0" problem-id="1">
  <answer>The number of pieces will fit in a signed 32-bit integer.</answer>
  <question>What is the upper limit on the number of pieces of chocolate requested by the friends?</question>
  <to-all>true</to-all>
  <contest-time>118.48</contest-time>
  <timestamp>1265335256.74</timestamp>
</clar>
```

id

clarification identifier

team-id

team ID

problem-id

problem ID

question

A question, typically from a team.

answer

The judges answer to the question

to-all

true if the clarification was sent to all teams

contest-time

contest (elapsed) time in minutes

timestamp

the current computer time when this element was created, decimal seconds

run

```
<run id="1410" team-id="74" problem-id="4">
  <language>C++</language>
  <judgement>WA</judgement>
  <penalty>true</penalty>
  <contest-time>17960.74</contest-time>
  <timestamp>1265353100.29</timestamp>
</run>
```

id

run identifier

team-id

team ID

problem-id

problem ID

language

language name

judgement

judgement acronym

penalty

penalty flag

contest-time

official submission time used for scoring

timestamp

the current computer time when this element was created

clar

testcase

```
<testcase run-id="1">
  <i>1</i>
  <n>1</n>
  <judgement>WA</judgement>
  <contest-time>939.75</contest-time>
  <timestamp>1265336078.01</timestamp>
</testcase>
```

run-id

TBD

i

testcase number

n

total number of testcases

judgement

judgement acronym

contest-time

TBD

timestamp

the current computer time when this element was created

notification

A notification should be sent the first time a team solves a particular problem. It is not sent for rejected solutions, nor if the team submits another successful solution to the same problem. If a previously accepted run is rejected due to rejudging, no notification is sent.

```
<notification id="214" team-id="34">
  <team>U Waterloo</team>
  <contest-time>132.04</contest-time>
  <timestamp>1298733213.10</timestamp>
  <balloon problem-id="2">
    <label>B</label>
    <name>Bulls and bears</name>
    <color rgb="ff0000">red</color>
  </balloon>
  <first-by-team>true</first-by-team>
  <balloons>
    <balloon problem-id="4">
      <label>D</label>
      <name>Down the hill</name>
      <color rgb="33cc00">green</color>
    </balloon>
    <balloon problem-id="6">
      <label>F</label>
      <name>Failing to make the grade</name>
```

testcase

Event_Feed

```
<color rgb="ffff00">yellow</color>
</balloon>
</balloons>
</notification>
```

Sent for each balloon to be printed. Contains:

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

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

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

contest-time
minutes since contest started, contest time (float)

timestamp
the current computer time when this element was created, decimal seconds

balloon
balloon info, see balloon element 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)

balloons
list of balloons team should have (including this balloon)

balloon

Describes a balloon for a problem

problem-id
the id of the problem

label
A, B, etc (character)

name
name / title of problem (string)

rgb
3-byte RGB value encoded in hex (string)

color
color name (string)

finalized

Note that the finalized element is followed immediately by a `</contest>` tag.

```
<finalized>
  <last-gold>4</last-gold>
  <last-silver>8</last-silver>
  <last-bronze>12</last-bronze>
  <comment>Finalized by John Doe and Jane Doe</comment>
  <timestamp>1265336078.01</timestamp>
</finalized>
```

notification

Event_Feed

timestamp

TBD

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