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ThoughtWorks® Multiple Project Summary Reporting Standard

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Added by [Mike Roberts](#) , last edited by [Aaron Bronow](#) on May 12, 2010 ([view change](#))

Labels: (None)

⚠ This is a work in progress and should **not** be considered ready for use!

Introduction

Various Continuous Integration monitoring / reporting tools exist. Examples are:

- [CruiseControl.NET's CCTray](#)
- [CruiseControl Firefox Plugin](#)
- [CCMenu for Mac](#)

These tools work by polling Continuous Integration servers for summary information and presenting it appropriately to users.

If a Continuous Integration server can offer a standard summary format, and a reporting tool can consume the same, then we get interoperability between reporting tools and CI Servers.

Description

Summary information will be available as a plain XML string retrievable through an http GET request.

The format of the XML will be as follows:

Summary

A single `<Projects>` node, the document root, which contains 0 or many `<Project>` node.

Each `<Project>` may have the following attributes:

name	description	type	required
name	The name of the project	string	yes
activity	The current state of the project	string enum : Sleeping, Building, CheckingModifications	yes
lastBuildStatus	A brief description of the last build	string enum : Success, Failure, Exception, Unknown	yes
lastBuildLabel	A referential name for the last build	string	no
lastBuildTime	When the last build occurred	DateTime	yes
nextBuildTime	When the next build is scheduled to occur (or when the next check to see whether a build should be performed is scheduled to occur)	DateTime	no
webUrl	A URL for where more detail can be found about this project	string (URL)	yes

Clients that consume this XML should not rely on any optional attribute being present, and should degrade their functionality gracefully.

Example

```
<Projects>
  <Project
    name="SvnTest"
    activity="Sleeping"
    lastBuildStatus="Exception"
    lastBuildLabel="8"
    lastBuildTime="2005-09-28T10:30:34.6362160+01:00"
    nextBuildTime="2005-10-04T14:31:52.4509248+01:00"
```

```

        webUrl="http://mrtickle/ccnet/" />

    <Project
        name="HelloWorld"
        activity="Sleeping"
        lastBuildStatus="Success"
        lastBuildLabel="13"
        lastBuildTime="2005-09-15T17:33:07.6447696+01:00"
        nextBuildTime="2005-10-04T14:31:51.7799600+01:00"
        webUrl="http://mrtickle/ccnet/" />
</Projects>

```

Schema

```

<?xml version="1.0" encoding="UTF-8" ?>
<xs:schema elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="Projects">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Project" maxOccurs="unbounded">
          <xs:complexType>
            <xs:attribute name="name" type="xs:NMTOKEN" use="required" />
            <xs:attribute name="activity" use="required">
              <xs:simpleType>
                <xs:restriction base="xs:NMTOKEN">
                  <xs:enumeration value="Sleeping" />
                  <xs:enumeration value="Building" />
                  <xs:enumeration value="CheckingModifications" />
                </xs:restriction>
              </xs:simpleType>
            </xs:attribute>
            <xs:attribute name="lastBuildStatus" use="required">
              <xs:simpleType>
                <xs:restriction base="xs:NMTOKEN">
                  <xs:enumeration value="Exception" />
                  <xs:enumeration value="Success" />
                  <xs:enumeration value="Failure" />
                  <xs:enumeration value="Unknown" />
                </xs:restriction>
              </xs:simpleType>
            </xs:attribute>
            <xs:attribute name="lastBuildLabel" type="xs:NMTOKEN" use="required" />
            <xs:attribute name="lastBuildTime" type="xs:dateTime" use="required" />
            <xs:attribute name="nextBuildTime" type="xs:dateTime" use="optional" />
            <xs:attribute name="webUrl" type="xs:string" use="required" />
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

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[Jeffrey Fredrick](#)

Oct 07, 2005 10:23



data seems very similar to what you might see in an rss feed.

[Jeffrey Fredrick](#)

Oct 08, 2005 11:26



wrt "activity", sleeping might more correctly be called waiting if it also covers projects waiting in a build queue. and should there be an activity status like 'disabled' to indicate a project that has been defined but is not currently active? (could be paused or otherwise turned off depending on the tool)

[Robert Lieske](#)

Aug 26, 2009 08:59

Hi,

I know, CruiseControl and CC.Net can just have successful (green) and failed (red) builds. It is up to the buildmaster to consider successful builds, that have failed tests either a failure or success. In Hudson however, there is a special state for this: In Hudson a successful build, but with failing tests is considered "unstable". Currently Hudson is forced to display "Failure" in that case (see: https://hudson.dev.java.net/issues/show_bug.cgi?id=1267).

It would be great, to allow the state "unstable" for \$lastBuildStatus.

I have already submitted an improvement request to the CCTray team (<http://jira.public.thoughtworks.org/browse/CCNET-1677>) for that issue, so that CCTray could reflect this new state. Please note, that you can vote for this change there 😊

TIA, Robert

[Aaron Bronow](#)

May 12, 2010 20:25

Is there a way to configure ccnet to output DateTime strings in UTC instead of the server's time?

[Ruben Willems](#)

Apr 07, 2011 15:01



maybe it is also handy to add the breakers of a build, and the name of the build server, so you can wath many build servers with 1 tool.
the idea is like cradiator and ccnet are doing now

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