



Using Jenkins XML API



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Contents:

- Remote API overview.
- Why XML API?
- Example.





Jenkins Remote API

- XML, JSON or Python
- What can you do?
 - Retrieve information.
 - Trigger jobs.
 - Copy/Create jobs





Why XML API



- Use scripts, PERL, etc.
- Create custom reports and summaries.
- XPath selection with 'xpath':
 - `http://jenkins-dev01:8080/job/iOS_UC%20Build/api/xml?xpath=/*/description`
- XPath selection with 'exclude':
 - `http://jenkins-dev01:8080/job/iOS_UC%20Build/api/xml?exclude=/*/build`
- Depth control:
 - `http://hudson-dev01:8080/view/Mobile/api/xml?depth=1`



What data?

- Job causes.
- Job statuses.
- SCM changeset information.
- View contents.
- Etc.





Example: Build Flow Data



- Get to the first job:
[<cause>](#)
- Get job status:
`<result>SUCCESS</result>`
- Collect all the changes:
[<changeSet>](#)



Tag <cause>



<cause>

...

<upstreamUrl>

job/3.1%20Build%20native%20AVEngineWrapper/

</upstreamUrl>

</cause>

Starting job:

<cause>

<shortDescription>Started by user aweiss

</shortDescription>

<userName> aweiss </userName>

</cause>



<changeSet> Tag



```
<changeSet>
  <item>
    <file>
      <comment>onEnterToForeground - add check to see if the call was not previously terminated
      before calling MediaEngine</comment>
      <date>1340204340000</date>
      <editType>edit</editType>
      <event>create version</event>
      <name>Android_Enablers\Android_Engines\src\com\att\android\engines\call\Call.java</name>
      <operation>checkin</operation>
      <shortVersion>\main\Android_Enablers_int\Android_Enablers_Video_int\63</shortVersion>
      <version>\main\Android_Enablers_int\Android_Enablers_Video_int\63</version>
    </file>
    <hasFiles>true</hasFiles>
    <hasSubActivities>false</hasSubActivities>
    <headline>Enc00056522</headline>
    <integrationActivity>false</integrationActivity>
    <name>Enc00056522</name>
    <stream>Android_Enablers_Video_int</stream>
    <user>rsagiv</user>
  </item>
  ...
</changeSet>
```



Questions?



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