## Redmine - Defect #7834

## API Issue XML cannot represent empty arrays

2011-03-11 11:15 - milki milk

/issues>

Status: Start date: 2011-03-11 **Priority:** Normal Due date: % Done: Assignee: 0% **REST API** Estimated time: 0.00 hour Category: Target version: Resolution: Affected version: Description When trying to retrieve issues from a project with no issues, there is a typecast issue from the xml conversion. I am using Redmine trunk, Rails 2.3.11 Sample code: #!/usr/local/bin/ruby require 'rubygems' require 'active\_resource' class Issue < ActiveResource::Base self.site = 'http://demo.redmine.org/' end issue = Issue.find(:first, :params => { :project\_id => 3 }) And the output: /usr/local/lib/ruby/gems/1.8/gems/activesupport-2.3.11/lib/active\_support/core\_ext/hash/conversion s.rb:99:in `typecast\_xml\_value': can't typecast "" (RuntimeError) from /usr/local/lib/ruby/gems/1.8/gems/activesupport-2.3.11/lib/active\_support/core\_ext/ha sh/conversions.rb:121:in `typecast\_xml\_value' from /usr/local/lib/ruby/site\_ruby/1.8/rubygems/custom\_require.rb:29:in `inject' from /usr/local/lib/ruby/gems/1.8/gems/activesupport-2.3.11/lib/active\_support/core\_ext/ha sh/conversions.rb:120:in `each' from /usr/local/lib/ruby/gems/1.8/gems/activesupport-2.3.11/lib/active\_support/core\_ext/ha sh/conversions.rb:120:in `inject' from /usr/local/lib/ruby/gems/1.8/gems/activesupport-2.3.11/lib/active\_support/core\_ext/ha sh/conversions.rb:120:in `typecast\_xml\_value' from /usr/local/lib/ruby/gems/1.8/gems/activesupport-2.3.11/lib/active\_support/core\_ext/ha sh/conversions.rb:78:in `from\_xml' from /usr/local/lib/ruby/gems/1.8/gems/activeresource-2.3.11/lib/active\_resource/formats/x ml\_format.rb:22:in `decode' from /usr/local/lib/ruby/gems/1.8/gems/activeresource-2.3.11/lib/active\_resource/connectio n.rb:79:in `get' from /usr/local/lib/ruby/gems/1.8/gems/activeresource-2.3.11/lib/active\_resource/connectio n.rb:217:in `with\_auth' from /usr/local/lib/ruby/gems/1.8/gems/activeresource-2.3.11/lib/active\_resource/connectio n.rb:79:in `get' from /usr/local/lib/ruby/gems/1.8/gems/activeresource-2.3.11/lib/active\_resource/base.rb:8 57:in `find\_every' from /usr/local/lib/ruby/gems/1.8/gems/activeresource-2.3.11/lib/active\_resource/base.rb:7 78:in `find' The problem is different from #4745 and #5226. Let's examine the xml returned from the call: <?xml version="1.0" encoding="UTF-8"?><issues type="array" offset="0" total\_count="0" limit="25"><

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Ok, that looks fine. Let's see how it's turned into an ActiveResource:

```
{"type"=>"array", "total_count"=>"0", "limit"=>"25", "offset"=>"0"}
```

This last line is passed into typecast\_xml\_value in

/usr/local/lib/ruby/gems/1.8/gems/activesupport-2.3.11/lib/active\_support/core\_ext/hash/conversions.rb. In this code, it will do the following:

```
_, entries = Array.wrap(value.detect { |k,v| k != 'type' })
if entries.nil? || (c = value['__content__'] && c.blank?)
[]
else
   case entries.class.to_s
   when "Array"
   when "Hash"
   else
     raise "can't typecast #{entries.inspect}
   end
```

The first line sets entries to "0" (or whatever is the value of the next key), so it will always hit the exception. The seoncd line shows that an explicit empty key *content* is used to detect an empty array. Thus, if I patch index.api.rsb:

```
+if @issues.empty?
+ api.array :issues, api_meta(:__content__ => '', :total_count => @issue_count, :offset => @offs
et, :limit => @limit)
+else
...
```

Then the returned xml is correct. This patch will not work however because it interferes with the json format, which works fine by representing an empty array with []. I've attached the simple script, a proposed patch that fixes the problem but breaks json, and a test. It may be that the json/xml template needs to be split again.

## **Files**

patch-index.api.rsb	3.32 KB	2011-03-11	milki milk
patch-issues_test.rb	679 Bytes	2011-03-11	milki milk
fail.rb	227 Bytes	2011-03-11	milki milk

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