

## Redmine - Defect #29413

### Mercurial 4.7 compatibility

2018-08-20 11:19 - Frédéric Fondement

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Go MAEDA	<b>% Done:</b>	0%
<b>Category:</b>	SCM	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	3.3.9	<b>Affected version:</b>	
<b>Resolution:</b>	Fixed		
<b>Description</b>			
<p>Hello,</p> <p>Redmine 3.4.6 doesn't work with mercurial 4.7.</p> <p>Logs say that in redmine/lib/redmine/scm/adapters/mercurial/redminehelper.py, module cmdutil does not have a command method. Checking mercurial 4.6.1 source, this method is indeed deprecated ; it must have been removed from 4.7.</p> <p>I got it back to work by following deprecation instruction which was "used registrar.command instead":</p> <pre>import re, time, cgi, urllib from mercurial import cmdutil, commands, node, error, hg, registrar # added registrar  cmdtable = {} command = registrar.command(cmdtable) # replaced cmdutil with registrar</pre> <p>Regards.</p>			

#### Associated revisions

##### Revision 17474 - 2018-08-25 10:40 - Go MAEDA

Mercurial 4.7 compatibility (#29413).

Patch by Frédéric Fondement.

##### Revision 17475 - 2018-08-25 11:33 - Go MAEDA

Merged r17474 from trunk to 3.4-stable (#29413).

##### Revision 17476 - 2018-08-25 11:48 - Go MAEDA

Merged r17474 from trunk to 3.3-stable (#29413).

#### History

##### #1 - 2018-08-20 11:22 - Go MAEDA

- Target version set to 3.3.9

##### #2 - 2018-08-20 13:37 - Frédéric Fondement

Another problem with exploring branches using hg 4.7.

It can be solved by modifying `_changectx` of `redmine/scm/adapters/mercurial/redminehelper.py`:

```
def _changectx(repo, rev):
    if hasattr(repo, 'branchtip') and rev in repo.branchmap(): # mercurial 4.7 doesn't select on branch name
        rev = repo.branchtip(rev)
    if hasattr(repo, 'changectx'):
        return repo.changectx(rev)
    else:
        return repo[rev]
```

### #3 - 2018-08-20 13:57 - Frédéric Fondement

Maybe clever:

```
def _changectx(repo, rev):
    if isinstance(rev, str):
        rev = repo.lookup(rev)
    if hasattr(repo, 'changectx'):
        return repo.changectx(rev)
    else:
        return repo[rev]
```

### #4 - 2018-08-20 14:04 - Go MAEDA

Frédéric Fondement, thank you for reporting the issue and submitting the workaround. Do you know it also work with Mercurial < 4.7?

### #5 - 2018-08-20 14:39 - Frédéric Fondement

Good point !

The change I proposed fails with 4.0.

Here is the new version successfully tested with hg 4.7, 4.6, 4.5, 4.4, 4.1, 4.0, 3.9, 3.5, 2.6.2 (the older I can easily access - using pip):

```
import re, time, cgi, urllib
from mercurial import cmdutil, commands, node, error, hg, registrar

cmdtable = {}
command = registrar.command(cmdtable) if hasattr(registrar, 'command') else cmdutil.command(cmdtable)

def _changectx(repo, rev):
    if isinstance(rev, str):
        rev = repo.lookup(rev)
    if hasattr(repo, 'changectx'):
        return repo.changectx(rev)
    else:
```

return repo[rev]

**#6 - 2018-08-22 05:48 - Go MAEDA**

- File *29413-mercurial-fix.diff* added
- Category set to *SCM*

I made a patch file from #29413#note-5.

**#7 - 2018-08-22 18:23 - Go MAEDA**

LGTM. The test suite passed with both Mercurial 2.6.2 and 4.7.

**#8 - 2018-08-25 10:54 - Go MAEDA**

- Status changed from *New* to *Resolved*
- Assignee set to *Go MAEDA*

**#9 - 2018-08-25 11:48 - Go MAEDA**

- Status changed from *Resolved* to *Closed*
- Resolution set to *Fixed*

Committed. Thank you for reporting and fixing the issue.

**Files**

---

29413-mercurial-fix.diff	866 Bytes	2018-08-22	Go MAEDA
--------------------------	-----------	------------	----------