

TargetProcess + Mercurial Plugin

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Mercurial Plugin is very similar to Git or Subversion plugin http://help.targetprocess.com/integration_api/git. It extracts commits from repository, bind these commits to TargetProcess User Stories/Bugs/Tasks, execute some actions like add comments, add time records, change state of User Story, Bug or Task.

Functional requirements and scenarios.

Usage Scenarios

Profile setup

Given Plugins section in TargetProcess

Then I see Mercurial Plugin with Mercurial logo, description, Add Profile button

[TBD - Design]



Plugins

New Plugins



Bugzilla

Imports bugs from Bugzilla to TargetProcess in real time. Sends the updated states, comments, assignments back to Bugzilla.

Add Profile



Git

Exports revisions from Git and binds source code to TargetProcess user stories, bugs and tasks.

! [TargetProcess](#)

Add Profile

Will be Mercurial :)

Given Plugins section in TargetProcess
When I click Add Profile button in Mercurial plugin
Then I see a plugin profile with fields

- Profile Name
- Repository path
- Login
- Password
- Import Start Date
- Users Mapping

Git Integration

Exports revisions from Git and binds source code to TargetProcess user stories, bugs and tasks.


Profile Name
Should be unique. Can't be changed later.

Repository Settings
Enter a full path to the repository [Examples](#)

Login

Password

Export all the revisions starting from

 [Check Connection](#)

Given user filled all required fields
When user clicks Check Connection link
Then connection is checked
And green success message is displayed

[TBD - screenshot]

Given all fields left blank
When user clicks Check Connection OR Save profile
Then required fields are highlighted
And error message is displayed

Git Integration

Exports revisions from Git and binds source code to TargetProcess user stories, bugs and tasks.


Profile Name Profile Name is required
Should be unique. Can't be changed later.


Repository Settings
Enter a full path to the repository [Examples](#) Uri should not be empty.

Login

Password

Export all the revisions starting from

 **Unable to establish connection**

 [Check Connection](#)

Users Mapping

note: Mercurial user format: Mr. Johnson <johnson@smith.com>

Given Users Mapping section in Mercurial plugin profile

When I type Mercurial User email valja@somedomainwithlongname.com

And TargetProcess user email valja@pupkina.com


Then plugin should recognize valja@somedomainwithlongname.com Mercurial user and map it to valja@pupkina.com TP user

User Mapping

Enter user names here (Example: John Smith -> John Smith)

Git User

TargetProcess User

 [Add more users](#)

Commit code

Given Mercurial plugin is setup

When I commit source code (1 file A) and type commit message

#234 state:done time:3:0 comment:this bug is fixed

And navigate to Source tab for Bug with ID = 234

Then I see new revision that contains file A

And state of the bug is Done

And new time record is added with 3 hrs spent and 0 hrs remaining

And new comment added "this big is fixed"

Detailed commit messages format:

#ID (or id:ID) state:fixed	Change defect state
#ID (or id:ID) comment: text of your comment here comment: this is a second multi-line comment row1 row2	Add comments to defect
#ID (or id:ID) time:1	Add time spent only
#ID (or id:ID) time:1:12	Update time spent and time remaining
#ID (or id:ID), #ID (or id:ID) comment: will not be fixed state: invalid time:0.5	Update several defects at a time

Given Mercurial plugin is setup

When I commit source code (1 file A) and type commit message

"state:done time:3:0 comment:this bug is fixed"

Then this commit is ignored by plugin

Given Mercurial plugin is setup

And there are 2 branches in repository (A and B)

When I commit source code (1 file X) into branch A OR branch B

And type commit message "#234"

And navigate to Source tab for Bug with ID = 234

Then I see new revision that contains file X

Given user with email valja@pupkina.com in Mercurial is mapped to V.Pupkina TP user

When Plugin discovers a commit **with a user that has** valja@pupkina.com email

And commits contains message “#ID:23 state:fixed comm:xxx”
Then this commits binds to an entity with ID 23
And state of this entity changed to Fixed
And comment from V.Pupkina user is added with content “xxx”

Given user with email notfound@pupkina.com in Mercurial is NOT mapped to any TP user
When Plugin discovers a commit with a user that has notfound@pupkina.com email
And commits contains message “#ID:23 state:fixed comm:xxx”
Then this commits binds to an entity with ID 23
And state of this entity DOES NOT changed to Fixed
And comment from V.Pupkina user is NOT added with content “xxx”

View diff

Source tab is already exist in TP as well as all UI for Mashups, it will be required to create Diff/View mashup based on Git mashup and provide required commands in plugin BL side.

Given Source tab in a user story
When I click Diff on a file A inside revision X
Then I see two versions of file A in a popup window (X and previous revision)
And changes are highlightes (red, green, yellow)

Given Source tab in a user story
When I click Diff on a file A inside revision X
Then I see content of file A in revision X in a popup window

STORY #36271. Getting Started Page redesign < Prev | Next >

General Tasks (5) Times Bugs (14) Test Cases (9) Requests **Source** History

Revision	Comment
+ # cbffa3d0025deaaa9b5547e421b7b5aa1000a77f	13-Feb-2012 11:09 AM by Anna Shnyukova US#36271 Show help link was hidden on getting started page
+ # 9c002ff0409ac658e9acf9dea30b12a0a3a7ab8f	13-Feb-2012 11:09 AM by Anna Shnyukova US#36271 Non-admin user behavior specs implemented
+ # 9a29a63b4f2be0b29c94225e7c8e4ffea734b842	13-Feb-2012 11:09 AM by Anna Shnyukova US#36271 Bug#41597 fixed
- # 2e470e1993f69f1e989452ff943fe01d3018a896	13-Feb-2012 11:09 AM by Anna Shnyukova US#36271 Replaced warning alerts with warning on progress bar (alerts behave very unstable in tests)

Name

[Code/Main/Tp.Web.Extensions/Controls/ProjectContextLink.cs](#)

[Code/Tests/Tp.FunctionalTests/Tp.FunctionalTests.Common/ActionSteps/AlertActionSteps.cs](#)

[Code/Tests/Tp.FunctionalTests/Tp.FunctionalTests.Common/Tp.FunctionalTests.Common.csproj](#)

[Code/Tests/Tp.FunctionalTests/Tp.FunctionalTests/Specifications/GettingStartedSpecs.cs](#)

777d3ebbe949baa9f54f2ec5ff44db7cce204409 13-Feb-2012 11:09 AM by Anna Shnyukova US#36271 Related video and links bloks are hidden if no content

886a4788408e6c65b96249c6d800cd75f7ee2852 14-Feb-2012 8:50 AM by Anna Shnyukova US#36271 turned Getting Started page redesign feature on

ccb6a8f3aa420d437a025d3c79f1ed34e336ff34 15-Feb-2012 5:39 PM by Anna Shnyukova US#36271 made custom report creation routine compatible with webdriver

d9d8c419d8d242d0a866011eb148e3869b2ac855 16-Feb-2012 10:00 AM by Anna Shnyukova US#36271 Fixed help bubbles placement

Diff with previous revision

View file content

Action

Modify Diff

Delete

Modify Diff

Modify Diff

Protocols

3 connection protocols should be supported:


- HTTP
- HTTPS
- Windows fileshare (\\server\\folder)

Logging

There should be good logging implemented. Check Git plugin. Log is visible in Profile page.

Save

[Back to plugins](#)

 [Hide Log](#)

Show Errors

Clear Log

19-Mar-2012 14:02:38	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 14:02:37	Checking changes	
19-Mar-2012 13:57:38	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:57:37	Checking changes	
19-Mar-2012 13:52:37	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:52:36	Checking changes	
19-Mar-2012 13:47:37	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:47:36	Checking changes	
19-Mar-2012 13:42:37	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:42:36	Checking changes	
19-Mar-2012 13:37:37	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:37:36	Checking changes	
19-Mar-2012 13:32:37	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:32:36	Checking changes	
19-Mar-2012 13:27:37	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:27:36	Checking changes	
19-Mar-2012 13:22:37	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:22:36	Checking changes	
19-Mar-2012 13:17:36	git://127.0.0.1/trunk: remote hung up unexpectedly	+
19-Mar-2012 13:17:35	Checking changes	

Show more

.....

So far we've used Mercurial in a `_very_` basic manner, but we've talked about developing our strategies with it as soon as we start putting code in a production state.

We're not using branches much so far. Just a few user stories have been separated into their own branches, everything else is done in the default branch.

Non-functional Requirements

- .NET lib for Mercurial - <http://mercurialnet.codeplex.com/> (maybe there is something better, I am not sure).
- Mercurial Plugin should be able to import 100,000 revisions without hangs and crashes.
- Test Suite should be created to ensure that Mercurial plugin works correctly. Scenarios will be provided.