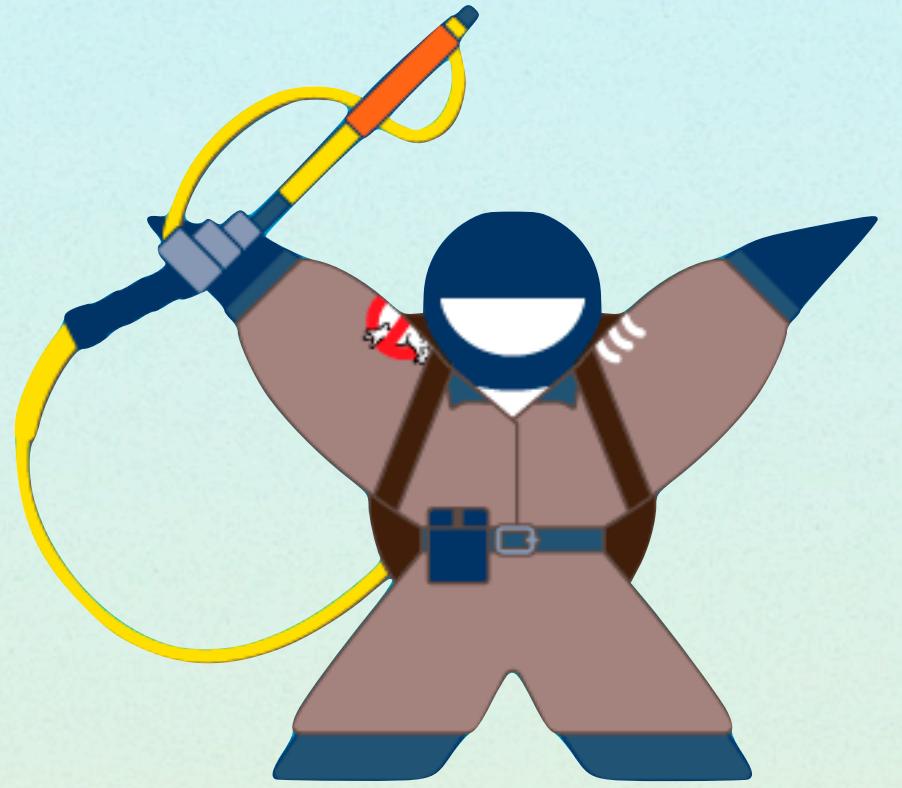




Get in the Flow With Activity Streams



Ben Woskow
Atlassian
Developer, San Francisco Ecosystem Team



Overview



- Introduction
- Consuming an Activity Stream
- Adding content to an Activity Stream
 - Activity REST and Java APIs
 - Provider Plugin API
- Pluggable In-Stream Actions



Introduction

Problem

- What is the easiest way to find activity...
 - across multiple Atlassian products?
 - over a specified timeframe?
 - by particular user(s)?
 - within specific project(s)?



Problem

- What is the easiest way to find activity...
 - across multiple Atlassian products?
 - over a specified timeframe?
 - by particular user(s)?
 - within specific project(s)?
 - that you care about!?!?





Solution: Activity Streams

- Multiple data sources in a single filterable view





Activity Stream

AtlasCamp Activity Stream

Yesterday

 Bryan Rollins commented on How to add activities to the Third Party feed (REST API)
The examples of the URLs confused testers during the blitz test:
<http://localhost:3990/streams/rest/activities/1.0/> [http://localhost:3990/streams/rest/activities/1.0/\]](http://localhost:3990/streams/rest/activities/1.0/).
Everyone thinks they have to add "streams" in the URL. Might be... [Read more »](#)

 Yesterday at 6:37 PM [Reply](#)

 Geoff Crain created review CR-STRM-1147
• Project: Activity Streams
• Files: 0
• Reviewers: [Ell Bishop](#), Richard Wallace, Ben Woskow, Ryan Talusan, Stacey Shkuratoff, John Kodumal, Zachary Davis and Andrew Ray

 Yesterday at 4:41 PM

Friday

 Jonathan Nolen resolved [STRM-1960](#) - Activity Stream should not highlight comments using blue background color as 'Won't Fix'
Thanks for the feedback, Holger, but unfortunately we're not going to be able to accommodate the request. The designers had a specific goal to highlight the human-entered content in a stream entry (like comments) as they felt that was the most
[Read more »](#)

 Friday at 10:51 PM [Comment](#)

 Arun Bhalla created [STRM-1975](#) - Fisheye's issue key search eagerly manages changesets with comments that contain the issue key anywhere



Activity Stream

AtlasCamp Activity Stream

Global Filters

Global filters can be used to customise activity for all enabled streams. Add a global filter.

Project is ActiveObjects Plugin
Activity Streams
Answers Linker Plugin
Application Links

Available Streams

Each stream can be toggled and customised individually.

JIRA (add filter)
 Bamboo (add filter)
 Confluence (add filter)
 Crucible (add filter)
 FishEye (add filter)

Display Options

Limit to items
 Automatically refresh this activity stream



Activity Stream

AtlasCamp Activity Stream

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Global filters can be used to customise activity for all enabled streams. Add a global filter.

Project is ActiveObjects Plugin
Project JIRA Issue Key Activity Streams
JIRA Issue Key Answers Linker Plugin
Update Date Application Links
Username

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[Read more »](#)

 Friday at 10:51 PM Comment

 Arun Bhalla created STRM-1975 - Fisheye's issue key search eagerly manages changesets with comments that contain the issue key anywhere

See the attachment. The Activity tab for [FASTDEV-11](#) is matching a changeset with a comment that contains CR-FASTDEV-11.

 Friday at 6:00 PM Comment Vote Watch

Thursday

 Stacey Shkuratoff summarized and closed review CR-STRM-1132 - STRM-1626 Confluence reports StringIndexOutOfBoundsException caused by Renderers.truncate... missing...

 Thursday at 10:15 AM



Activity Stream

AtlasCamp Activity Stream

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[Read more »](#)

 Friday at 10:51 PM Comment

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See the attachment. The Activity tab for [FASTDEV-11](#) is matching a changeset with a comment that contains CR-FASTDEV-11.

 Friday at 6:00 PM Comment Vote Watch

 Successfully added as a watcher.

Thursday





Activity Stream

AtlasCamp Activity Stream



Yesterday

**Geoff Crain** created review CR-STRM-1147

- Project: [Activity Streams](#)
- Files: 0
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Yesterday at 4:41 PM

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[Read more »](#)

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Thursday at 10:15 AM

Drag your gadgets here or add a



Profile: Ben Woskow

[Summary](#)[Roadmap](#)

Summary

Details

Avatar:



bwoskow

[Administer User](#)

Ben Woskow

bwoskow@atlassian.com[Change Password](#)[Clear All Tokens](#)

atlassian-dev

atlassian-staff

integration-team

jira-users

streams-developers

studio-developers

sudoers-idog

upm-developers

[View Project Roles](#)

Project Roles:

Preferences

Page Size:

50

Email Type:

HTML

Language:

English (United States) [Default]

Time Zone:

JIRA default (GMT-08:00) Los Angeles

My Changes:

Do not notify me

Filter and Dashboard Sharing:

Unshared

[View dashboard sharing](#)

Activity Stream

Today

**Ben Woskow** commented on [STRM-1961 - Bamboo 'run' inline action is not visible](#)

If we end up releasing another 4.0.x then it would probably be worth it to fix this - should do. But IMO only if we're already planning on releasing another 4.0.x for some other (r)

 2 hours ago [Reply](#) [Watch](#)**Ben Woskow** created [STRM-1961 - Bamboo 'run' inline action is not visible](#)

Found on StAC (STRM 4.0.x) - build-trigger.js binds the inline action to activity of it is still called build. It isn't called job until a later Bamboo/STRM version.

 2 hours ago [Comment](#) [Watch](#)**Ben Woskow** resolved [STRM-1925 - Use long type for AO entities auto-incremented ID](#) 9 hours ago [Comment](#) [Watch](#)**Ben Woskow** summarized and closed review [CR-STRM-1128 - STRM-1925 bumping a long activity ids](#)

9 hours ago

Ben Woskow resolved [STRM-1899 - Inline actions with similar baseurls are using oauth provider as 'Fixed'](#) 9 hours ago [Comment](#)**Ben Woskow** summarized and closed review [CR-STRM-1134 - STRM-1899 inline actions applinks connection for oauth tokens](#)

9 hours ago



Summary

[Issues](#)

[Road Map](#)

[Agile](#)

[People](#)

[Change Log](#)

[Popular Issues](#)

[Calendar](#)

[Versions](#)

[Components](#)

[Labels](#)

[Builds](#)

[Source](#)

[Reviews](#)

Summary

Description

Lead: John Kodumal
Key: STRM

Issues: Due

- [STRM-1489](#)
NPE when trying to add links
- [STRM-1713](#)
Disable timeouts
- [STRM-86](#)
Intermittent "Operation aborted" errors in IE

Issues: 30 Day Summary

Issues: 186 created and 217 resolved

Versions: Due

- [3.4.4](#)
- [3.x Backlog](#)
- [4.0.9](#)

Activity Stream

Today

[Min'an Tan](#) created [STRM-1963](#) - When filtering, the input box layers above the + and - when at low resolutions
On JIRA, IE 8 and 1024 x 768, see attached screenshot
1 hour ago Comment Vote Watch

[Eli Bishop](#) resolved [STRM-1872](#) - Automatically hyperlink mentioned entities in title and content for third party activities
'Fixed'
1 hour ago Comment Watch

[Min'an Tan](#) created [STRM-1962](#) - Placeholder text when adding a filter is not positioned correctly
See attached screenshot. On JIRA, IE 8 1024 x 768
1 hour ago Comment Vote Watch

[Eli Bishop](#) summarized and closed review CR-STRM-1133 - STRM-1872: add hyperlinks to entities & users in activity title/content; generate target urls at query...
1 hour ago

[Eli Bishop](#) resolved [STRM-1939](#) - make StreamsEntry.Html into a regular (non-inner) class as 'Fixed'

Inline actions with similar baseurls are using oauth credentials of the wrong applink provider

[Edit](#) [Assign](#) [Comment](#) [More Actions ▾](#)

[Reopen Technical Review](#)

[Reopen Quality Review](#)

[Workflow ▾](#)

[Details](#)

[Description](#)

[Issue Links](#)

[Activity](#)

All [Comments](#) [Work Log](#) [History](#)

[Activity](#)

[Transitions](#)

[GitHub](#)

[Bitbucket](#)

[Source](#)

[Reviews](#)

[Builds](#)



Today



[Ben Woskow](#) resolved [STRM-1899](#) - Inline actions with similar baseurls are using oauth credentials of the wrong applink provider as 'Fixed'

8 hours ago

[Ben Woskow](#) summarized and closed review [CR-STRM-1134](#) - STRM-1899 inline actions should use the proper applinks connection for oauth tokens

8 hours ago

Friday



[Stacey Shkuratoff](#) completed review [CR-STRM-1134](#) - STRM-1899 inline actions should use the proper applinks connection for oauth tokens

Friday at 11:10 AM



[Ell Bishop](#) commented on review [CR-STRM-1134](#) - STRM-1899 inline actions should use the proper applinks connection for oauth tokens

I did use a natural ordering - I just totally forgot to do the reversing step.

Friday at 10:16 AM

[People](#)

Assignee:

Reporter:

Vote (0)

[Dates](#)

Created:

Updated:

Resolved:

Yesterday



Bryan Rollins commented on [How to add activities to the Third Party feed \(REST API\)](#)

“The examples of the URLs confused testers during the blitz test:

<http://localhost:3990/streams/rest/activities/1.0/> [http://localhost:3990/streams
/rest/activities/1.0/](http://localhost:3990/streams/rest/activities/1.0/).

Everyone thinks they have to add "streams" in the URL. Might be... [Read more »](#)



Geoff Crain created review [CR-STRM-1147](#)

Friday



Jonathan Nolen resolved [STRM-1960 - Activity Stream should not highlight comments using blue background color as 'Won't Fix'](#)



Ben's Demo Activity Stream

Activity Stream



19 September



[Ben "Panada" Woskow](#) commented on [Congrats to Ms. Incredible](#)

Congrats, Jessie! Well deserved - even if we don't find ourselves with coordinating costumes again this year.

19 September at 11:13 [Reply](#)

14 September



[Ben "Panada" Woskow](#) edited [JIRA 5.0 REST API FAQs and early Impressions](#)

updating the Streams REST link to point to the new developer.atlassian.com

14 September at 09:22

13 September



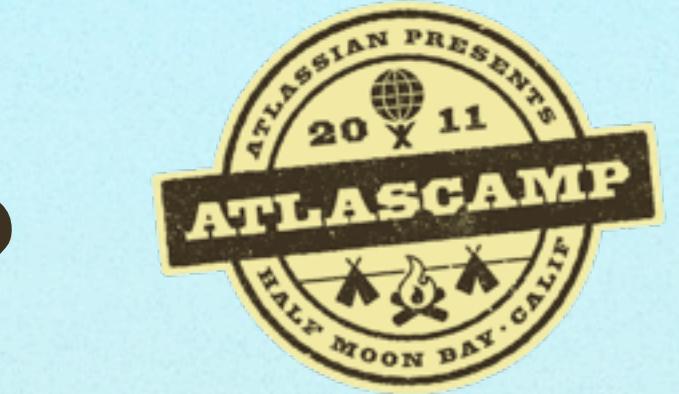
[Ben "Panada" Woskow](#) updated their status

Updating my EAC status through @Rich Manalang's Chrome extension

13 September at 15:32

Awesome! Where can I find it?

- JIRA 4.4
- Confluence 4.0
- JIRA Studio
- Atlassian Plugin Development Platform (soon)





Consuming an Activity Stream

Consuming an Activity Stream



- Allows for viewing an Activity Stream as an Atom feed
- Use cases:
 - Subscribe to Activity Stream feed in Google Reader
 - Monitor issue status or project progress
 - View activity without being in Atlassian products

dev

Acc

adm

1.gi

vi

o this simple little Chrome extension that allows you to view the

EAC Updates

What are you working on?

Last update: Almost done with my first Confluence Chrome plugin...

[Update](#)

 Christina Bang edited What's New Dialog - JIRA 5.0
2 minutes ago
[\(view change\)](#)

 Luzia Mendes edited Support Weekly Status Report - Week beginning 20110912 6 minutes ago
[\(view change\)](#)

 Joshua Wold added Enterprise Feedback - Daniel Franz
6 minutes ago

Date	9 Sept 2011
Who	Joshua Wold and Daniel Franz

Notes

- Really likes the idea of an enterprise brand as he could use it there to help people find relevant plugins
 - He was skeptical of having a separate 'enterprise' section for PAC but if we have a brand

[Read more](#)

 Mark Halvorson edited AtlasCamp 2011 Staff Space



Consuming an Activity Stream



>

Consuming an Activity Stream



```
> curl https://studio.atlassian.com/activity
```

```
<feed xmlns="http://www.w3.org/2005/Atom">
  <id>https://studio.atlassian.com/activity</id>
  <title type="text">Atlassian Projects - Activity Stream</title>
  <link href="https://studio.atlassian.com/activity" rel="self"/>
  <updated>2011-08-24T17:39:30.397Z</updated>
  <entry xmlns:atlassian="http://streams.atlassian.com/syndication/general/1.0"
        xmlns:activity="http://activitystrea.ms/spec/1.0/">
    <id>urn:uuid:608993cf-962d-35ec-895f-c9250287b731</id>
    <title type="html">&lt;a href="https://studio.atlassian.com/secure/ViewProfile.jspa?name=bwoskow"
          class="activity-item-user activity-item-author">Ben Woskow&lt;/a> resolved &lt;a
          href="https://studio.atlassian.com/browse/STRM-1924" class="issue-link">&lt;span class='resolved-link'>STRM-1924&lt;/span>
          - Appropriate error messages are not appearing for inline actions&lt;/a>
          as 'Fixed'
    </title>
    <author xmlns:usr="http://streams.atlassian.com/syndication/username/1.0">
        <name>Ben Woskow</name>
        <email>bwoskow@atlassian.com</email>
        <uri>https://studio.atlassian.com/secure/ViewProfile.jspa?name=bwoskow</uri>
        <link xmlns:media="http://purl.org/syndication/atommedia" rel="photo" ...>
        <link xmlns:media="http://purl.org/syndication/atommedia" rel="photo" ...>
        <usr:username>bwoskow</usr:username>
        <activity:object-type>http://activitystrea.ms/schema/1.0/person</activity:object-type>
    </author>
    <published>2011-08-24T17:39:30.397Z</published>
    <updated>2011-08-24T17:39:30.397Z</updated>
    <category term="resolved"/>
    <link href="https://studio.atlassian.com/browse/STRM-1924" rel="alternate"/>
    <link href="https://studio.atlassian.com/images/icons/bug.gif" rel="http://streams.atlassian.com/syndication/icon"/>
    <link href="https://studio.atlassian.com/s/en_USnhe2v7/650/174/1.0/_download/resources/jira.webresources:global-static/wiki-renderer.css"
          rel="http://streams.atlassian.com/syndication/css"/>
    <link href="https://studio.atlassian.com/plugins/servlet/streamscomments/issues/STRM-1924"
          rel="http://streams.atlassian.com/syndication/reply-to"/>
    <link href="https://studio.atlassian.com/rest/jira-activity-stream/1.0/actions/issue-watch/STRM-1924"
          rel="http://streams.atlassian.com/syndication/watch"/>
    <generator uri="https://studio.atlassian.com"/>
    <atlassian:application>com.atlassian.jira</atlassian:application>
    <activity:verb>http://activitystrea.ms/schema/1.0/update</activity:verb>
    <activity:verb>http://streams.atlassian.com/syndication/verbs/jira/transition</activity:verb>
    <activity:verb>http://streams.atlassian.com/syndication/verbs/jira/resolve</activity:verb>
    <activity:object>
        <id>urn:uuid:d72f33a5-d6f8-3732-9d55-0d9a948714a1</id>
        <title type="text">STRM-1924</title>
        <summary type="text">Appropriate error messages are not appearing for inline actions</summary>
        <link rel="alternate" href="https://studio.atlassian.com/browse/STRM-1924"/>
        <activity:object-type>http://streams.atlassian.com/syndication/types/issue</activity:object-type>
    </activity:object>
  </entry>
</feed>
```



Consuming an Activity Stream

```
> curl https://studio.atlassian.com/activity  
  
> curl -u username:password  
http://studio.atlassian.com/activity?os_authType=basic
```



Consuming an Activity Stream

```
> curl https://studio.atlassian.com/activity  
  
> curl -u username:password  
http://studio.atlassian.com/activity?os_authType=basic  
  
> curl http://studio.atlassian.com/activity?streams=user+IS+jnolen
```

More Information

- Tutorial & Documentation:
<http://developer.atlassian.com/x/OwAN>
- Sample Code:
<https://bitbucket.org/rmanalan/chrome-confluence-activity-stream>





Adding Content to an Activity Stream

Activity Stream Sources



Activity Stream Sources



JIRA Studio



JIRA



Confluence



Bamboo



FishEye



Crucible



Third Party
(You!)





Adding to your Stream

	Activity REST API	Activity Java API	Provider Plugin API
Post new activities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Simple filtering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Entity association	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advanced filtering	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pluggable in-stream actions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Activity REST and Java APIs

Activity REST and Java APIs



- Use cases:
 - Add Streams entries for tracking time with Tempo
 - Associate Streams entries about Balsamiq mockups with a JIRA issue or Confluence space

chrome://poster – Poster

Request

URL:

User Auth:

Timeout (s): 30

Actions

GET **POST** **PUT** **DELETE**

Content to Send **Headers** **Parameters**

File:

Content Type:

Content Options: **Base64 Encode** **Body from Parameters**

Activity Stream

Activity Stream

January, 2009

 admin commented on ONE-1 - Issue One
This is a comment.
[Comment](#) [Watch](#)

 Friday, January 23, 2009 Comment Watch

 admin created TWO-1 - Issue Two
222 222 222
[Comment](#) [Watch](#)

 Friday, January 23, 2009 Comment Watch

 admin created ONE-1 - Issue One
1 1 1 1 1
[Comment](#) [Watch](#)

 Friday, January 23, 2009 Comment Watch



chrome://poster – Poster

Request

URL:

User Auth:

Timeout (s):

Actions

GET **POST** **PUT** **DELETE**

Content to Send **Headers** **Parameters**

File:

Content Type:

Content Options: **Base64 Encode** **Body from Parameters**

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Comment Watch

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222 222 222
Comment Watch

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 admin created ONE-1 - Issue One
1 1 1 1 1
Comment Watch

 Friday, January 23, 2009 Comment Watch



chrome://poster – Poster

Request

URL:

User Auth:

Timeout (s):

Actions

GET **POST** **PUT** **DELETE**

Content to Send Headers Parameters

File:

Content Type:

Content Options:

ATLASSIAN PRESENTS
20 X 11
ATLASCAMP
HALF MOON BAY, CALIF

Activity Stream

Activity Stream

January, 2009

 admin commented on ONE-1 - Issue One
This is a comment.
Friday, January 23, 2009 Comment Watch

 admin created TWO-1 - Issue Two
222 222 222
Friday, January 23, 2009 Comment Watch

 admin created ONE-1 - Issue One
1 1 1 1 1
Friday, January 23, 2009 Comment Watch

chrome://poster – Poster

Request

URL:

User Auth:

Timeout (s):

Actions

GET **POST** **PUT** **DELETE**  

Content to Send	Headers	Parameters
File: <input type="text"/> Browse...		
Content Type: <input type="text" value="application/vnd.atl.streams.thirdparty+json"/>		
Content Options: Base64 Encode Body from Parameters		

```
{
  "actor": {
    "id": "bwoskow"
  },
  "generator": {
    "id": "http://www.exampleplugin.com",
    "displayName": "Example Plugin"
  },
  "id": "http://exampleplugin.com/bwoskow",
  "title": "Ben Woskow used the Example Plugin",
  "content": "<blockquote>Ben Woskow used the Example Plugin during his AtlasCamp presentation.</blockquote>"
}
```

Activity Stream

Activity Stream

January, 2009

 admin commented on ONE-1 - Issue One
This is a comment.
[Comment](#) [Watch](#)
Friday, January 23, 2009

 admin created TWO-1 - Issue Two
222 2 2 2 2 2
[Comment](#) [Watch](#)
Friday, January 23, 2009

 admin created ONE-1 - Issue One
1 1 1 1 1
[Comment](#) [Watch](#)
Friday, January 23, 2009



chrome://poster - Poster

Request Response

URL POST on http://localhost:3990/jira/rest/activities/1.0/

Status: 201 Created

User {"actor":{"displayName":"Anonymous User","id":"bwoskow","image":{"url":"http://localhost:3990/jira/secure/useravatar?avatarId=10063"}}, "content": "<blockquote>Ben Woskow used the Example Plugin during his AtlasCamp presentation.</blockquote>","generator": {"displayName": "Example Plugin", "id": "http://www.exampleplugin.com"}, "id": "http://exampleplugin.com/bwoskow", "published": "2011-08-30T04:22:52.305+0000", "title": "Ben Woskow used the Example Plugin", "links": {"self": "/jira/rest/activities/1.0/1", "activities": "/jira/rest/activities/1.0/1"}, "updated": "2011-08-30T04:22:52.305+0000"}

Headers:

Server	Apache-Coyote/1.1
X-REQUESTID	1282x153x1
X-SESSIONID	1l88n3x
X-Seraph-LoginReason	OK
X-AUSERNAME	admin
Location	http://localhost:3990/jira/rest/activities/1.0/1
Content-Type	application/vnd.atl.streams.thirdparty+json; charset=UTF-8
Transfer-Encoding	chunked
Date	Tue, 30 Aug 2011 04:22:52 GMT

Close

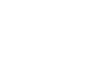
Activity Stream

Activity Stream

January, 2009

 admin commented on ONE-1 - Issue One
This is a comment.
Friday, January 23, 2009 Comment Watch

 admin created TWO-1 - Issue Two
2222222222
Friday, January 23, 2009 Comment Watch

 admin created ONE-1 - Issue One
11111
Friday, January 23, 2009 Comment Watch



Activity Stream



Today



Ben Woskow used the Example Plugin

Ben Woskow used the Example Plugin during his AtlasCamp presentation.

5 minutes ago



January, 2009



admin commented on ONE-1 - Issue One

This is a comment.

Friday, January 23, 2009 Comment Watch

admin created TWO-1 - Issue Two

222 2 2 2 2 2

Friday, January 23, 2009 Comment Watch

admin created ONE-1 - Issue One

1 1 1 1 1

Activity Stream

Today



Ben Woskow used the Example Plugin

Ben Woskow used the Example Plugin during his AtlasCamp presentation.

5 minutes ago

January, 2009



admin commented on ONE-1 - Issue One

This is a comment.

 Friday, January 23, 2009 [Comment](#) [Watch](#)

admin created TWO-1 - Issue Two

222 2 2 2 2 2

 Friday, January 23, 2009 [Comment](#) [Watch](#)

admin created ONE-1 - Issue One

1 1 1 1 1

 Friday, January 23, 2009 [Comment](#) [Watch](#)



Activity Stream

Global Filters

Global filters can be used to customise activity for all enabled streams. Add a global filter.

Available Streams

Each stream can be toggled and customised individually.

JIRA (add filter)

Example Plugin

Display Options

Limit to items

Automatically refresh this activity stream

Activity REST API



```
{  
  "published": "2011-09-28T15:04:55.000Z",  
  "actor": {  
    "id": "joeshmo"  
  },  
  "icon": {  
    "url": "http://students.waketech.edu/athletics/baseball\_mens/files/2011/05/baseball\_2.jpg",  
    "width": "16",  
    "height": "16"  
  },  
  "generator": {  
    "id": "http://www.exampleplugin.com",  
    "displayName": "Example Plugin"  
  },  
  "id": "http://exampleplugin.com/bwoskow",  
  "title": "Joe Shmo used the Example Plugin with JRA-9",  
  "content": "<blockquote>Joe Shmo used the Example Plugin with JRA-9 during his AtlasCamp presentation.</blockquote>",  
  "target": {  
    "url": "JRA-9"  
  }  
}
```



Joe Shmo used the Example Plugin with JRA-9

Joe Shmo used the Example Plugin with JRA-9 during his AtlasCamp presentation.



Wednesday, September 28, 2011 at 8:04 AM

```
{  
  "published": "2011-09-28T15:04:55.000Z",  
  "actor": {  
    "id": "joeshmo"  
  },  
  "icon" : {  
    "url": "http://students.waketech.edu/athletics/baseball\_mens/files/2011/05/baseball\_2.jpg",  
    "width" : "16",  
    "height" : "16"  
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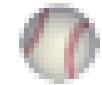
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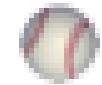
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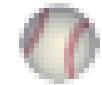
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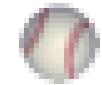
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JIRA Development / JRA-9

User Preference: User Time Zones



Edit



Assign

Comment

More Actions ▾

Start Progress

Resolve Issue

Workflow ▾



Details

Activity

All

Comments

History

Activity

Builds



Wednesday, September 28, 2011 at 8:04 AM



Joe Shmo used the Example Plugin with JRA-9

Joe Shmo used the Example Plugin with JRA-9 during his AtlasCamp presentation.



Wednesday, September 28, 2011 at 8:04 AM

Today



admin created JRA-9 - User Preference: User Time Zones

9 minutes ago

People

Assignee:

admin

Reporter:

admin

Vote (0)

Watch (0)

Dates

Created:

Today 12:23 PM

Updated:

Today 12:23 PM



JIRA Development

[Summary](#)[Issues](#)[Popular Issues](#)[Labels](#)

Summary

Description

Lead: admin

Key: JRA

Issues: Due

[JRA-1](#)

Add cool new feature #1

[JRA-2](#)

Add cool new feature #2

[JRA-3](#)

Write some documentation

Issues: 30 Day Summary

9
8[Administer Project](#)[Reports](#)[Filters](#)

Activity Stream

Wednesday, September 28, 2011 at 8:04 AM



Joe Shmo used the Example Plugin with JRA-9

Joe Shmo used the Example Plugin with JRA-9 during his AtlasCamp presentation.



Wednesday, September 28, 2011 at 8:04 AM

Today



admin created JRA-9 - User Preference: User Time Zones



2 minutes ago Comment Watch

admin created JRA-8 - Create release plan



2 minutes ago Comment Watch

admin created JRA-7 - Minor security hole



Profile: Joe Shmo

Summary



Details

Avatar:



Username:

joeshmo

Administration:

[Administer User](#)

Full Name:

Joe Shmo

Email:

joeshmo@example.com

Groups:

jira-users

Project Roles:

[View Project Roles](#)

Activity Stream



Wednesday, September 28, 2011 at 8:04 AM



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AtlasCamp presentation.



Wednesday, September 28, 2011 at 8:04 AM

Activity REST API



- URL: <baseurl>/rest/activities/1.0/
- Content Type: application/vnd.atl.streams.thirdparty+json
- Tutorial & Documentation:
<http://developer.atlassian.com/x/OINW>

Activity Java API - ActivityService



```
/**
 * Programmatic interface to persistent storage for third-party activity items.
 * Activities can also be queried or modified via REST.
 */
public interface ActivityService
{
    /**
     * Adds a new activity item.
     * @param activity an {@link Activity}
     * @return an updated {@link Activity}, identical to the input but with an
     * automatically generated primary key {@code activityId})
     */
    Activity postActivity(Activity activity);

    /**
     * Queries an activity item by primary key
     * @param activityId the primary key
     * @return an {@link Option} containing an {@link Activity}, or {@link Option#none()} if not found
     */
    Option<Activity> getActivity(long activityId);

    /**
     * Queries multiple activity items.
     * @param query a {@link ActivityQuery} with optional query criteria;
     * use {@link ActivityQuery#all()} to get all existing items
     * @return an Iterable containing all {@link Activity} objects that match the query
     */
    Iterable<Activity> activities(ActivityQuery query);

    /**
     * Attempts to delete an activity item.
     * @param activityId the primary key of the activity to delete
     * @return {@code true} if the activity was deleted; {@code false} if it could not be deleted
     * (i.e. invalid primary key)
     */
    boolean delete(long activityId);

    /**
     * Returns all the unique application objects
     * @return an Iterable containing all unique {@link Application}s
     */
    Iterable<Application> applications();
}
```

```
/**  
 * Programmatic interface to persistent storage for third-party activity items.  
 * Activities can also be queried or modified via REST.  
 */  
public interface ActivityService  
{  
    /**  
     * Adds a new activity item.  
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     * @return an updated {@link Activity}, identical to the input but with an  
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     */  
    Activity postActivity(Activity activity);  
  
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     * @param activityId the primary key  
     * @return an {@link Option} containing an {@link Activity}, or {@link Option#none()} if not found  
     */  
    Option<Activity> getActivity(long activityId);  
  
    /**  
     * Queries multiple activity items.  
     * @param query a {@link ActivityQuery} with optional query criteria;  
     * use {@link ActivityQuery#all()} to get all existing items  
     * @return an Iterable containing all {@link Activity} objects that match the query  
     */  
    Iterable<Activity> activities(ActivityQuery query);  
  
    /**  
     * Attempts to delete an activity item.  
     * @param activityId the primary key of the activity to delete  
     */
```

More Information

- Tutorial & Documentation:
<http://developer.atlassian.com/x/O4NW>
- Sample Code:
[https://bitbucket.org/jkodumal/
streams-jira-delete-issue-plugin/](https://bitbucket.org/jkodumal/streams-jira-delete-issue-plugin/)



Activity REST and Java APIs - Limitations

- Does not support advanced (provider-specific) filtering
- Not designed for pluggable in-stream actions
- JIRA 5.0, Confluence 4.1





Adding to your Stream

	Activity REST API	Activity Java API	Provider Plugin API
Post new activities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Simple filtering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Entity association	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advanced filtering	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pluggable in-stream actions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Provider Plugin API

Provider Plugin API



- A separate plugin containing your very own Streams provider implementation
- Additional capabilities
 - Advanced filtering
 - Pluggable in-stream actions

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- A separate plugin containing your very own Streams provider implementation
- Additional capabilities
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AtlasCamp Activity Stream

Global Filters

Global filters can be used to customise activity for all enabled streams. [Add a global filter](#).

Available Streams

Each stream can be toggled and customised individually.

JIRA [\(add filter\)](#)

Bamboo

Confluence

Crucible

FishEye

Display Options

Limit to items

Automatically refresh this activity stream

[Save](#) [Cancel](#)

Provider Plugin API



- Use cases:
 - Add Streams entries for tracking time with Tempo
 - Associate Streams entries about Balsamiq mockups with a JIRA issue or Confluence space
 - Add ability to filter various kinds of Gliffy Streams entries (e.g. UML vs flowcharts vs others)
 - Add “Check” and “Uncheck” actions to Tasklist entries

Provider Plugin API - atlassian-plugin.xml



```
<activity-streams-provider key="issues" name="JIRA" i18n-name-key="streams.jira.provider.name"
    class="com.atlassian.streams.jira.JiraStreamsActivityProvider">
    <filter-provider class="com.atlassian.streams.jira.JiraFilterOptionProvider" />
</activity-streams-provider>
```

Provider Plugin API - StreamsActivityProvider



```
/**  
 * A provider of streams activity  
 */  
public interface StreamsActivityProvider  
{  
    /**  
     * Get a callable that can create the activity feed for the given request.  
     * <p>  
     * The task will be cancelled if we no longer care about the result of the query, so it  
     * would also be okay to return an empty or incomplete StreamsFeed in this case; the unchecked  
     * exception mechanism is provided for convenience. The important thing is that the task  
     * must not continue executing indefinitely after cancellation.  
     *  
     * @param activityRequest The request  
     * @return a callable that creates the activity feed  
     */  
    CancellableTask<StreamsFeed> getActivityFeed(ActivityRequest activityRequest) throws StreamsException;  
}
```

Provider Plugin API - StreamsFilterOptionProvider



```
/**
 * Provides filter options in an Activity Stream. These will depend on the implementing application. For
 * example in JIRA this will be project keys, in Confluence space keys and in Fisheye repositories.
 *
 * @since v4.0
 */
public interface StreamsFilterOptionProvider
{
    /**
     * The list of filter options available for the specific application
     *
     * @return The list of filter options available for the specific application
     */
    Iterable<StreamsFilterOption> getFilterOptions();

    /**
     * The list of activities that the application provider supports.
     *
     * @return The list of activities that the application provider supports
     */
    Iterable<ActivityOption> getActivities();
}
```



Activity Stream

AtlasCamp Activity Stream

Today

 Ben Woskow resolved STRM-1925 - Use long type for AO entities auto-incremented IDs as 'Fixed'
1 hour ago Comment Watch

 Ben Woskow resolved STRM-1899 - Inline actions with similar baseurls are using oauth credentials of the wrong applink provider as 'Fixed'
1 hour ago Comment

 Ben Woskow resolved STRM-1945 - Unknown users are not showing user icons when specified in JSON as 'Fixed'
1 hour ago Comment

 Eli Bishop resolved STRM-1739 - don't use proxy resource for local inline actions as 'Fixed'
1 hour ago Comment

 Eli Bishop resolved STRM-1947 - Third party activity with target URL STRM not associated with repository as 'Fixed'
1 hour ago Comment Watch

Show more...



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JIRA [\(add filter\)](#)

Bamboo

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Crucible

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Limit to items

Automatically refresh this activity stream

[Save](#) [Cancel](#)



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Activity is Attachment added
Comment added
Issue closed
Issue created

Bamboo
 Confluence
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JIRA (add filter)

Activity is Attachment added
Comment added
Issue closed
Issue created

Issue Type is Sub-task
Story
Bug
Documentation

Bamboo
 Confluence
 Crucible
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[Save](#) [Cancel](#)

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1 hour ago Comment

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1 hour ago Comment Watch

Show more...

Activity Stream

AtlasCamp Activity Stream

Thursday

 Zachary Davis created STRM-1953 - If you ONLY update the title, it's not reflected in the feed upon save
If you only update the title, it's not reflected in the feed upon save (this is because we don't issue duplicate requests, so the feed isn't requested and the feed url is never updated) file
Thursday at 4:23 PM Comment Vote Watch

 Ell Bishop created STRM-1949 - FeCru third party provider name with spaces breaks "something"
on FeCru (but not on JIRAI), if there's a 3rd-party provider whose name contains spaces in it, choosing that provider in the filter seems to break something - nothing appears, even from other providers that are selected (name was "Fee Croo") file
Thursday at 4:16 PM Comment Vote Watch

 Andrew Ray created STRM-1947 - Third party activity with target URL STRM not associated with repository posted a 3rd-party activity to FeCru with target URL = "STRM"; did not get associated with STRM repo (also tried "NERDS")
Thursday at 4:14 PM Comment Watch

Show more...

More Information



- Tutorial & Documentation:
<http://developer.atlassian.com/x/OAAN>
- Sample Code:
<https://bitbucket.org/cjerozal/external-provider-sample/>



Pluggable In-Stream Actions

Pluggable In-Stream Actions



- Allows user to execute activity-specific actions
 - Add a comment
 - Create a review from a changeset
 - Check & uncheck entries in a tasklist
- Entirely JavaScript
- Can exist as a standalone plugin

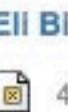


Activity Stream

AtlasCamp Activity Stream

Today

 **Eli Bishop** resolved STRM-1872 - Automatically hyperlink mentioned entities in title and content for third party activities as 'Fixed'
44 minutes ago Comment Watch

 **Eli Bishop** resolved STRM-1939 - make StreamsEntry.Html into a regular (non-inner) class as 'Fixed'
48 minutes ago Comment Watch

 **Ben Woskow** commented on STRM-1961 - Bamboo 'run' inline action is not visible
If we end up releasing another 4.0.x then it would probably be worth it to fix this - should take a whole two seconds to do. But IMO only if we're already planning on releasing another 4.0.x for some other (more important) reason.
1 hour ago Reply Watch

Ben Woskow created STRM-1961 - Bamboo 'run' inline action is not visible
Found on StAC (STRM 4.0.x) - build-trigger.js binds the inline action to activity object type job, however in 4.0.x it is still called build. It isn't called job until a later Bamboo/STRM version.
2 hours ago Comment Watch

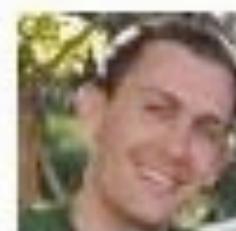
 **Zachary Davis** added the Fix Version '5.0' to STRM-1897 - Chosen sometimes reorders selections to be in alpha sorted order
2 hours ago Comment Vote Watch

Show more...

Elli Bishop resolved [STRM-1939](#) - make StreamsEntry.Html into a regular (non-inner) class as 'Fixed'



48 minutes ago [Comment](#) [Watch](#)



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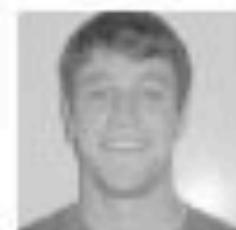
1 hour ago [Reply](#) [Watch](#)

Ben Woskow created [STRM-1961](#) - Bamboo 'run' inline action is not visible

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2 hours ago [Comment](#) [Watch](#)



Zachary Davis added the Fix Version '5.0' to [STRM-1897](#) - Chosen sometimes reorders selections to be in alpha sorted order



2 hours ago [Comment](#) [Vote](#) [Watch](#)



Successfully added as a watcher.

Pluggable In-Stream Actions - JavaScript registration



`ActivityStream.registerAction(type, element, sortBy)`

- **type:** the type of streams entries to attach to
 - e.g. “issue”, “page”, “review”, “comment”
- **element:** function that will produce a hyperlink or HTML
- **sortBy:** a weight used to sort the action

Pluggable In-Stream Actions - JavaScript implementation



```
/**  
 * Registers a "Create Review" action against any feed items with a "changeset" type.  
 *  
 * Creates a link which creates a review from a changeset.  
 */  
(function() {  
  
    /**  
     * Builds a link to trigger the action.  
     *  
     * @method buildLink  
     * @param {Object} feedItem Object representing the activity item  
     * @return {HTMLElement}  
     */  
    function buildLink(feedItem) {  
        var url = feedItem.links['http://streams.atlassian.com/syndication/changeset-review'];  
  
        //if no changeset-review link exists in the feed item, do not bind the entry to a trigger handler  
        if (!url) {  
            return;  
        }  
  
        return AJS.$('<a class="activity-item-changeset-review-link"></a>')  
            .attr('href', url)  
            .text(ActivityStreams.i18n.get('streams.fecru.action.changeset.review.title'));  
    }  
  
    // Registers the action for any changesets in the feed  
    ActivityStreams.registerAction('changeset', buildLink, 5);  
})();
```

registers a "Create Review" action against any feed items with a "changeset" type.

Creates a link which creates a review from a changeset.

```
action() {  
  
    /**  
     * Builds a link to trigger the action.  
     *  
     * @method buildLink  
     * @param {Object} feedItem Object representing the activity item  
     * @return {HTMLElement}  
     */  
    function buildLink(feedItem) {  
        var url = feedItem.links['http://streams.atlassian.com/syndication/changeset-review'];  
  
        //if no changeset-review link exists in the feed item, do not bind the entry to a trigger  
        if (!url) {  
            return;  
        }  
  
        return AJS.$('<a class="activity-item-changeset-review-link"></a>')  
            .attr('href', url)  
            .text(ActivityStreams.i18n.get('streams.fecru.action.changeset.review.title'));  
    }  
  
    // Registers the action for any changesets in the feed  
    ActivityStreams.registerAction('changeset', buildLink, 5);  
};
```

Pluggable In-Stream Actions - atlassian-plugin.xml



```
<atlassian-plugin key="com.atlassian.streams.fecru.inlineactions"
                   name="Fisheye/Crucible Streams Inline Actions Plugin" pluginsVersion="2">
  <plugin-info>
    <description>Fisheye/Crucible Streams Inline Actions Plugin</description>
    <version>${project.version}</version>
    <vendor name="Atlassian Software Systems Pty Ltd" url="http://www.atlassian.com/" />
  </plugin-info>

  <streams-action-handlers key="actionHandlers">
    <resource type="download" name="changeset-review.js"
              location="/js/inline-actions/changeset-review.js"/>
  </streams-action-handlers>

</atlassian-plugin>
```



Pluggable In-Stream Actions

- Internationalization (i18n)
- Success & failure feedback
- Asynchronous task feedback



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More Information

- Tutorial & Documentation:
<http://developer.atlassian.com/x/aQAN>
- Sample Code:
<https://bitbucket.org/bwoskow/inline-action-sample-plugin>



Recap

- Introduction
- Consuming an Activity Stream
- Adding content to an Activity Stream
 - Activity REST and Java APIs
 - Provider Plugin API
- Pluggable In-Stream Actions



TAKE-AWAYS

“I can’t wait to start seeing my plugin data in my Activity Streams! #atlascamp”



#atlascamp





Thank you!

