



 **Atlassian** SUMMIT

#atlassian



# JIRA 7 for Developers

building cool stuff with JIRA platforms



**BARTEK GATZ**  
PRODUCT MANAGER



**FILIP ROGACZEWSKI**  
DEVELOPER



**IAN GRUNERT**  
SENIOR DEVELOPER

**ATLASSIAN**

# What we will talk about



# What we will talk about

history of  
two add-on  
platforms in  
JIRA



Atlassian  
Connect in  
JIRA



what's coming  
in JIRA 7.0



# What we will talk about

JIRA  
Data Center



web resources



keeping in the  
loop



# Where are we?



we are here



# History

JIRA 3.0 - first plugin system



2004

2014



**there are over**

**P2 add-ons for JIRA on Marketplace**



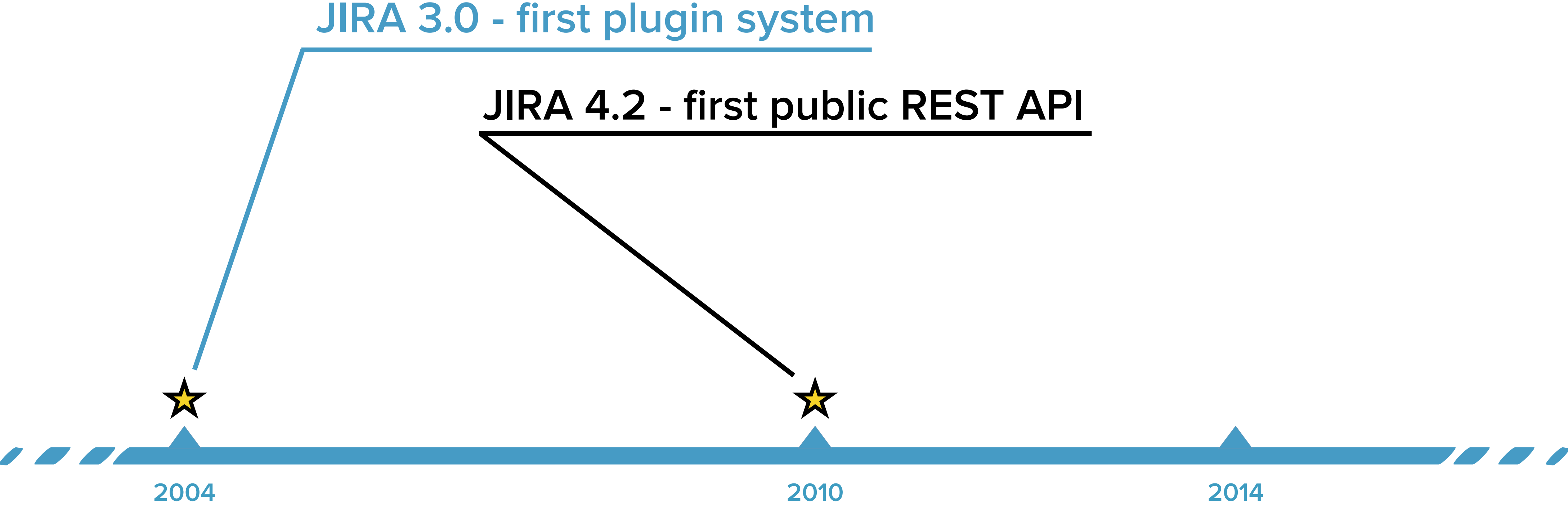
**there are over**

**660**

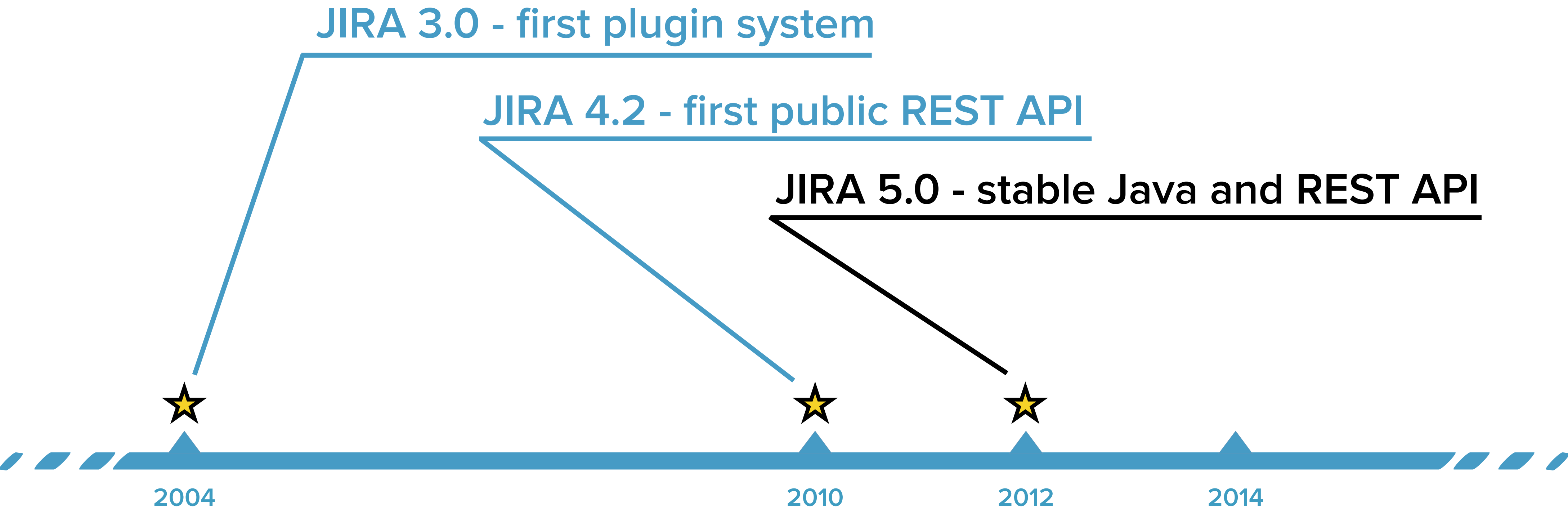
**P2 add-ons for JIRA on Marketplace**



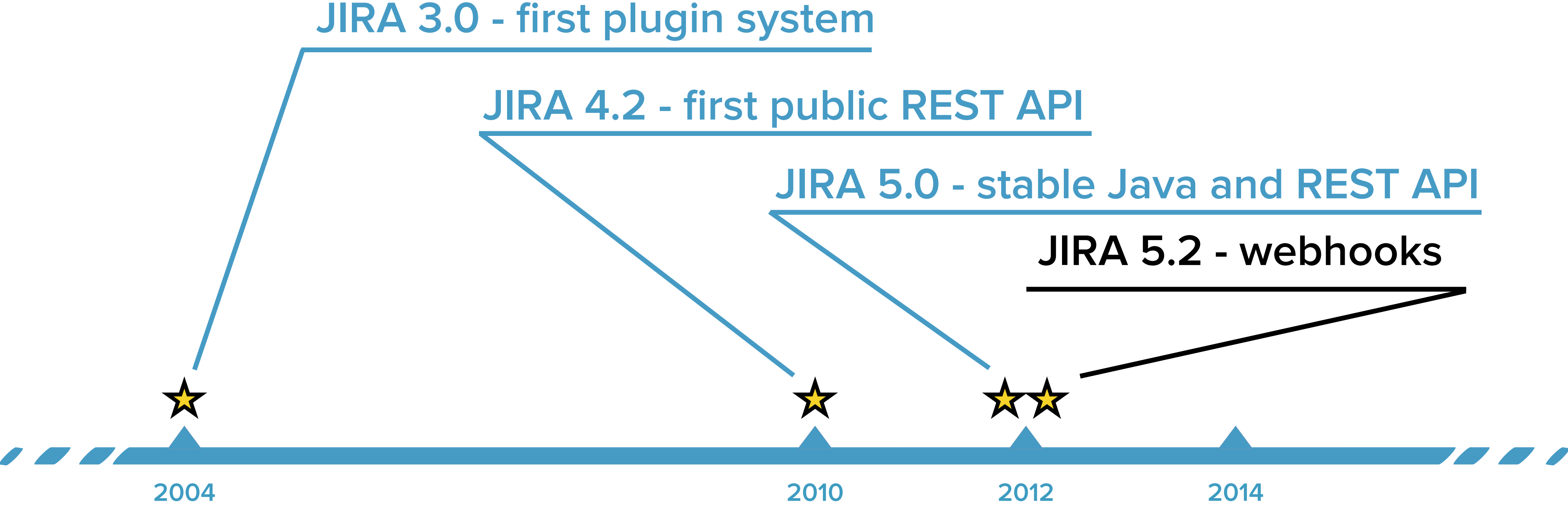
# History



# History



# History



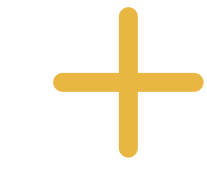
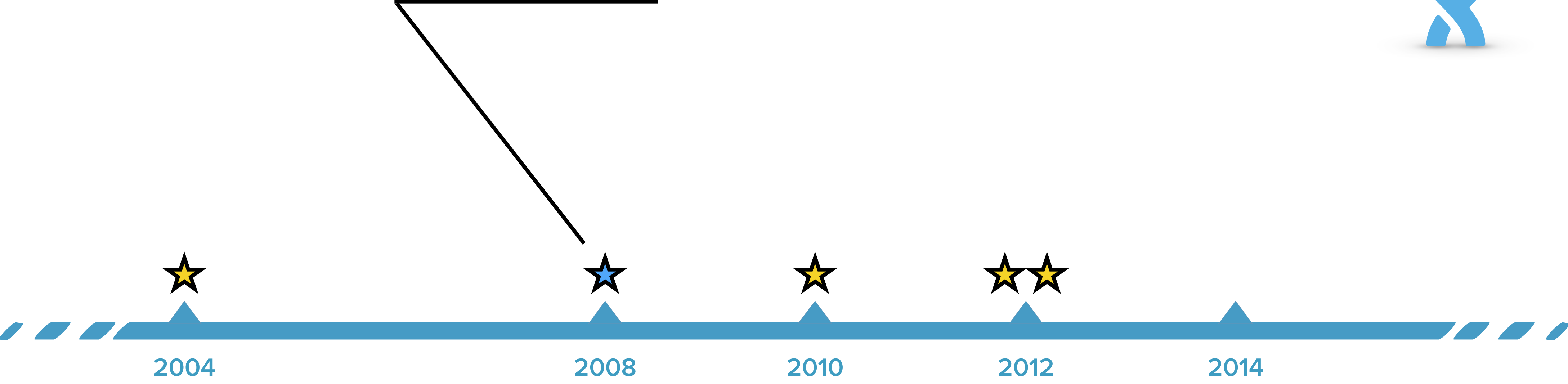
# JIRA in the Cloud



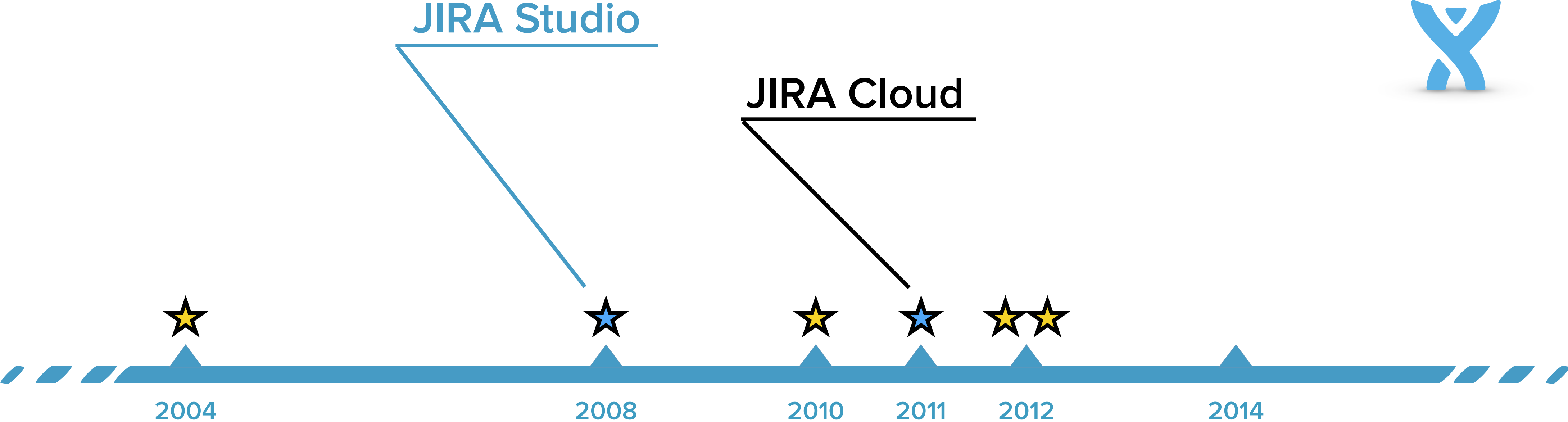
# History



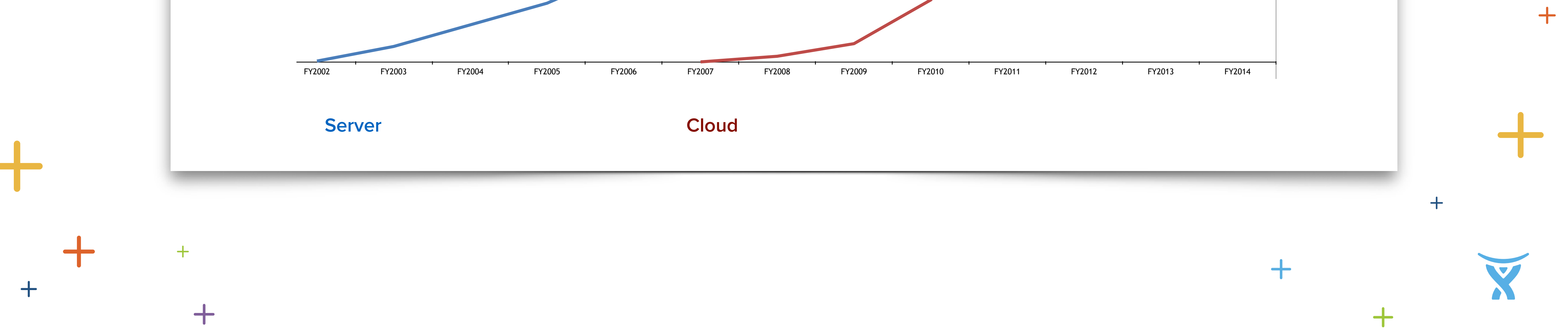
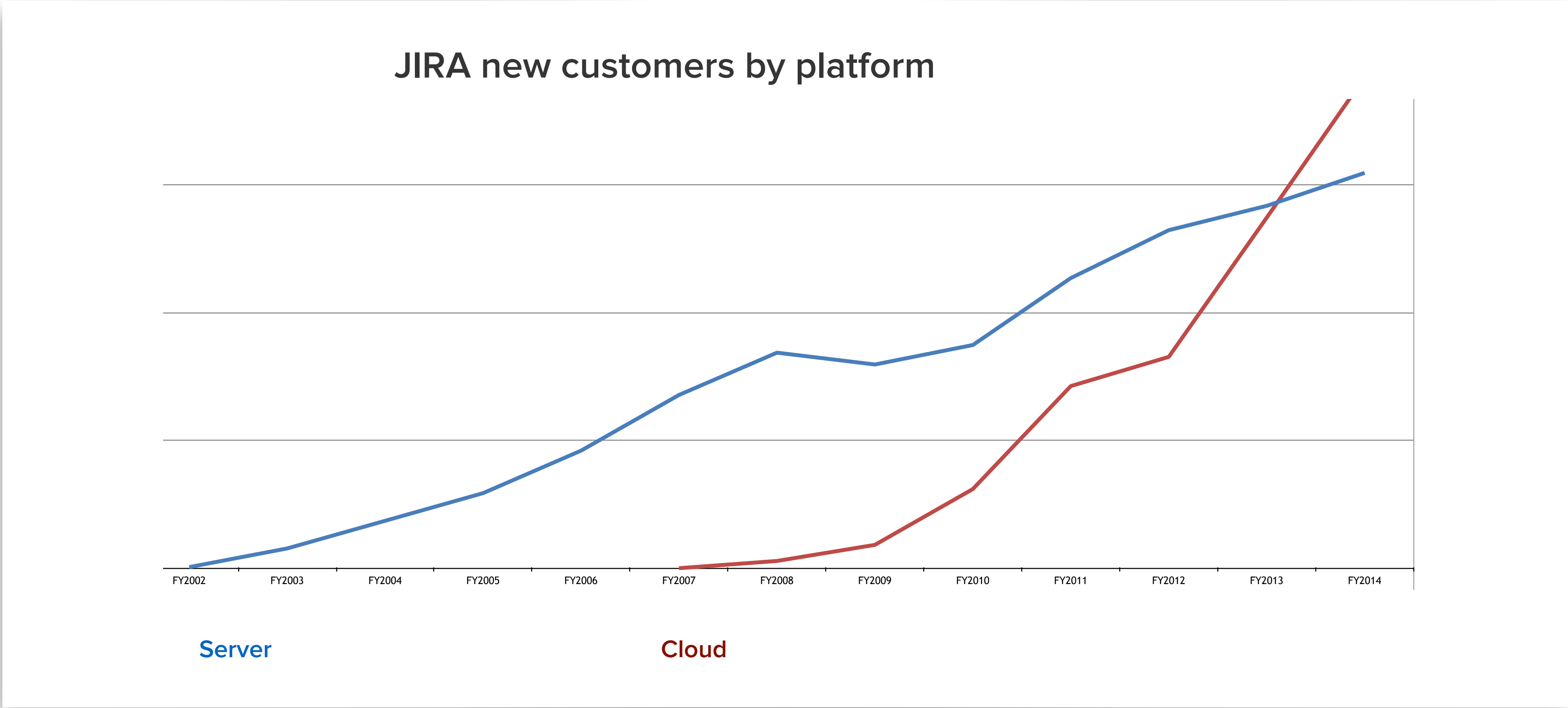
JIRA Studio



# History



# Then we added Cloud



today

of new customers  
are choosing **Cloud**



today

66%

of new customers  
are choosing **Cloud**



# Then we added Cloud

JIRA available for Cloud

- continuously growing popularity



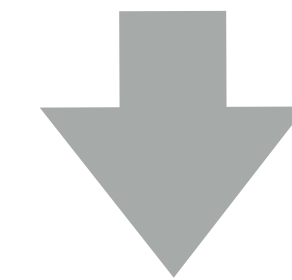
# Then we added Cloud

## JIRA available for Cloud

- continuously growing popularity

## Initially only few add-ons made available for Cloud

- while customers asking for more all the time



### Pricing overview

Server

Cloud

**This add-on is not available for Cloud.**  
You can browse available Cloud add-ons [here](#).



# Why don't we have more P2 add-ons for Cloud

P2 add-on code works in the same JVM as JIRA

- race for resources
- potential deadlocks

Multiple JIRA instances running on the same physical box

- risk of bringing down multiple JIRA servers



# Why don't we have more P2 add-ons for Cloud

P2 add-on code works in the same JVM as JIRA

- race for resources
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Multiple JIRA instances running on the same physical box

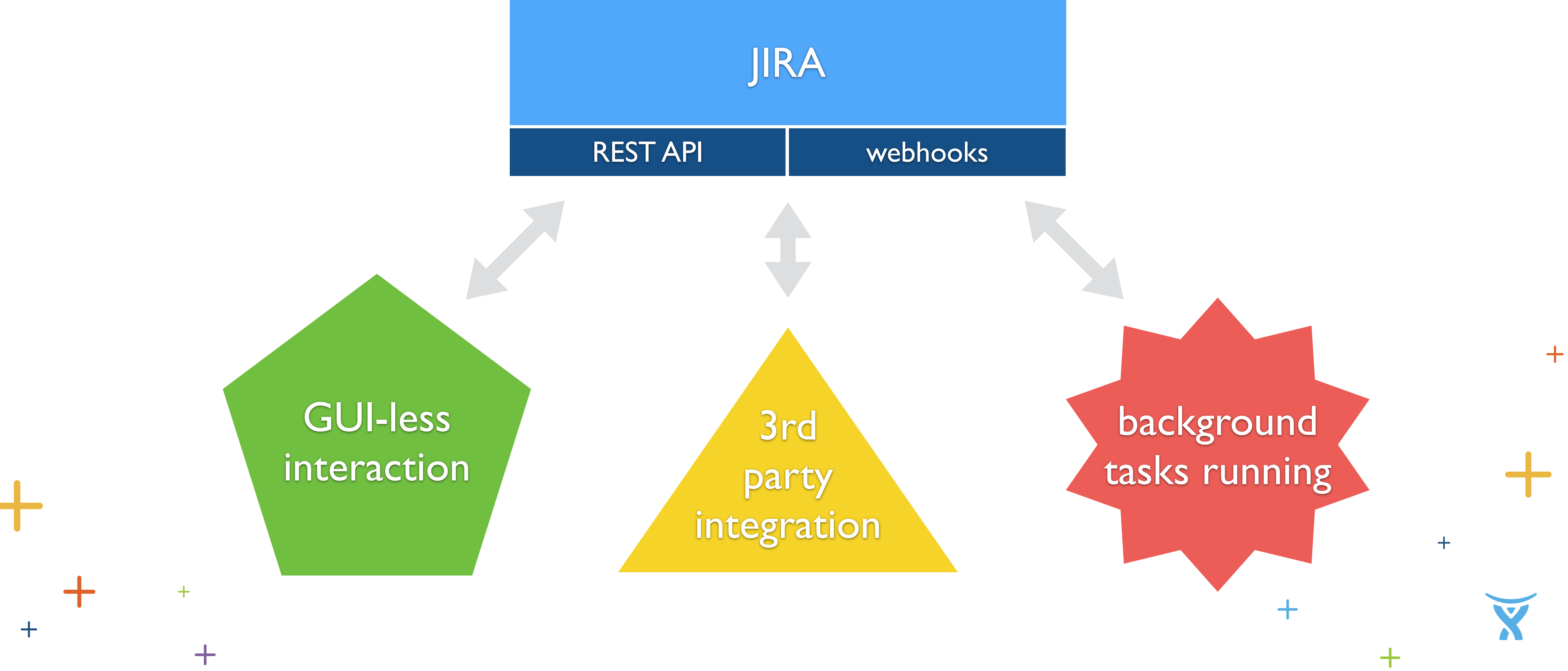
- risk of bringing down multiple JIRA servers



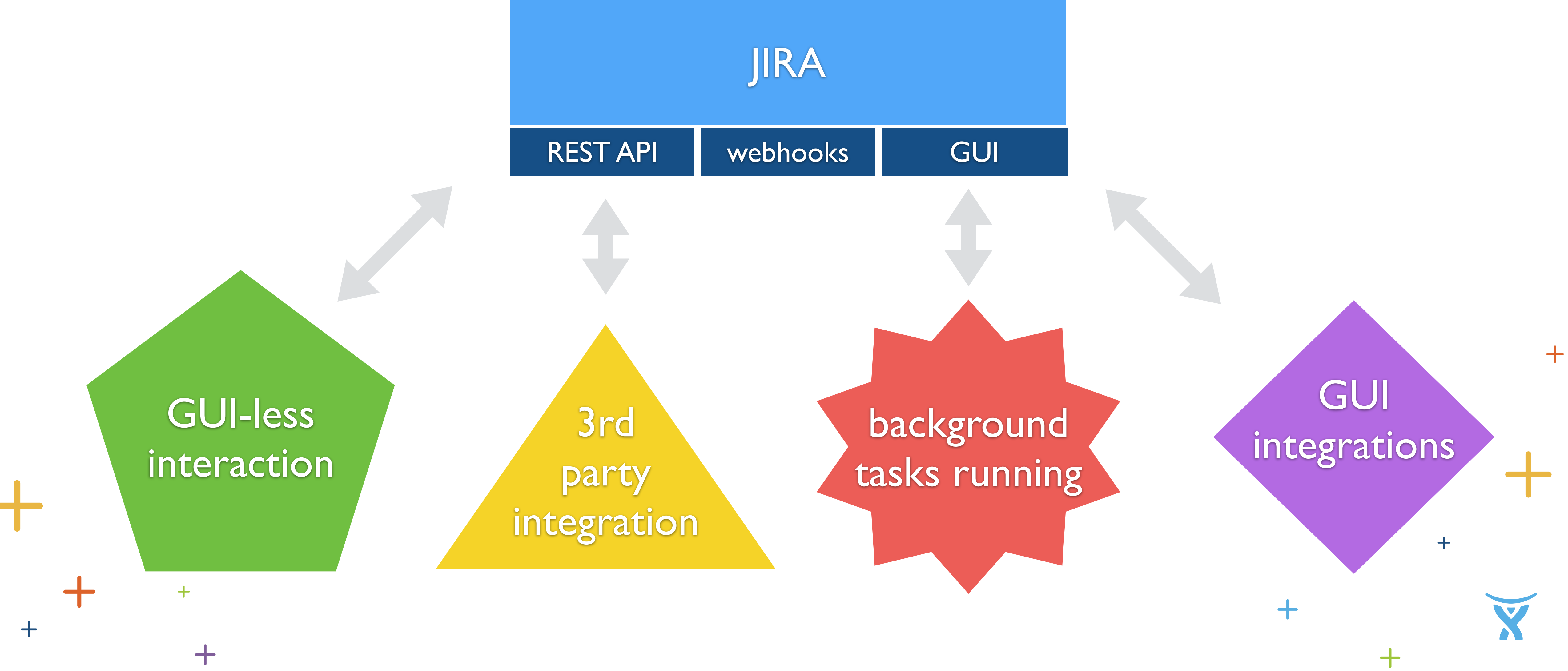
**so what did we do?**



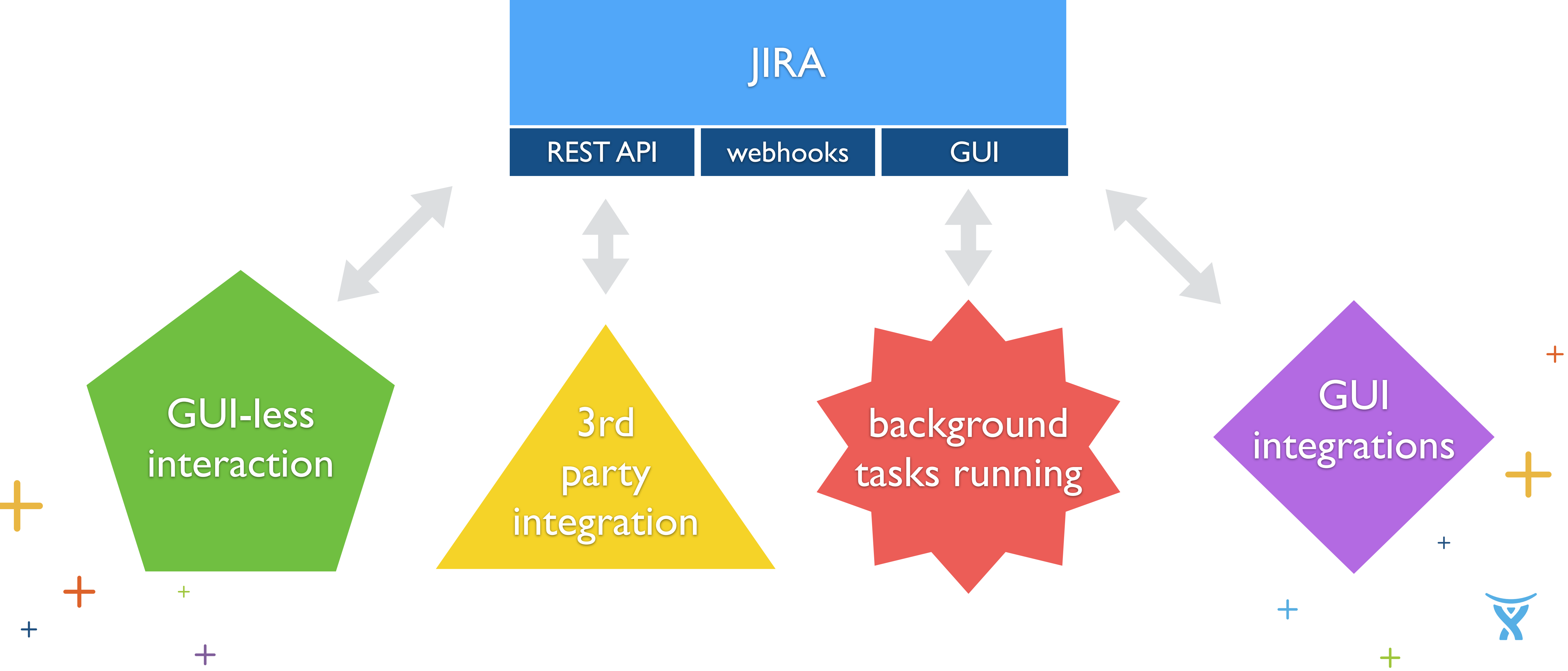
# What is missing here?



# There you go



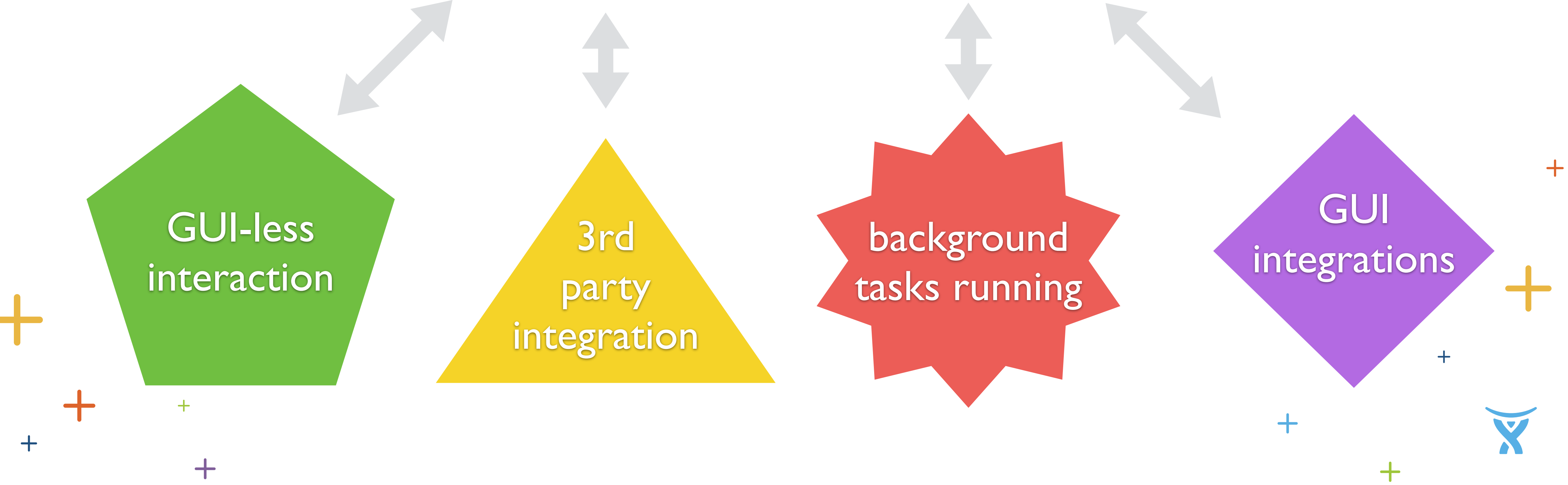
# There you go



# There you go



OPPORTUNITY



# There you go



## Opportunities

- resource independence
- free choice of development stack
- ability to integrate multiple services



**and this is how...**



# Introducing Atlassian Connect 1.0



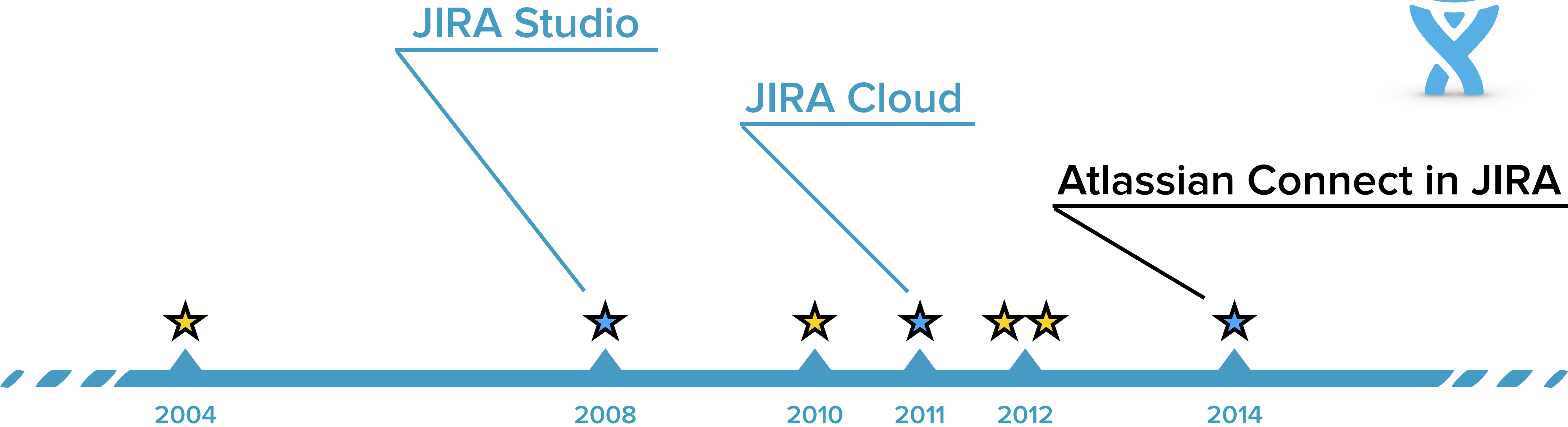
By [Dave Meyer](#), Product Marketing, Atlassian Mar...  
[Developer](#), [News](#)  
On March 4, 2014



## **The future of add-ons for JIRA, Confluence, and beyond.**

Today, we're proud to announce the general availability of [Atlassian Connect](#) – a completely new way to build add-ons in the cloud for JIRA and Confluence OnDemand. It's easy to get started, and you can write in the development language of your choice. And there's already two dozen add-ons from Atlassian and our partners ready to use in JIRA and Confluence OnDemand.

# History



# Atlassian Connect add-ons in JIRA

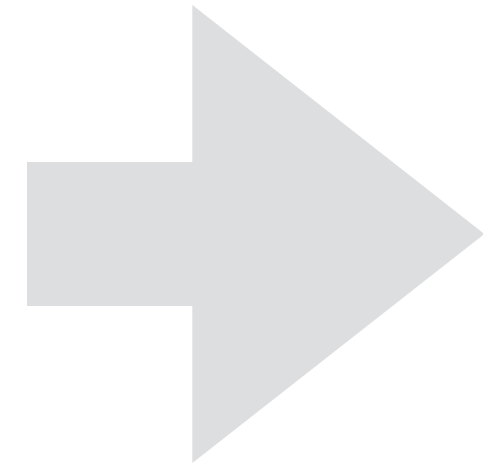


# Atlassian Connect add-ons in JIRA

at AtlasCamp

20

8 commercial  
9 free  
3 from Atlassian



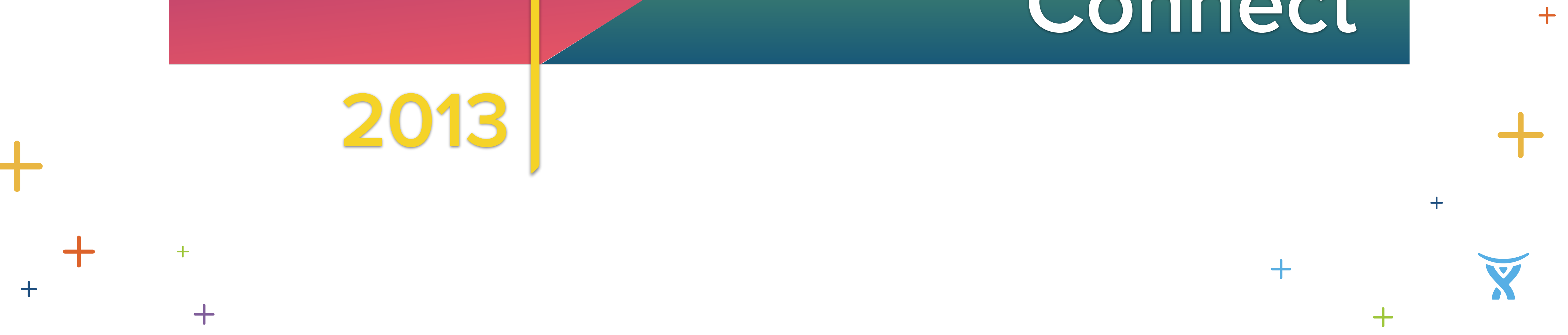
today

35

16 commercial  
16 free  
3 from Atlassian



# Plugin point coverage



# Plugin point coverage



# Plugin point coverage



2015



# Atlassian Connect is the biggest strategic opportunity for JIRA Ecosystem



# History



# History



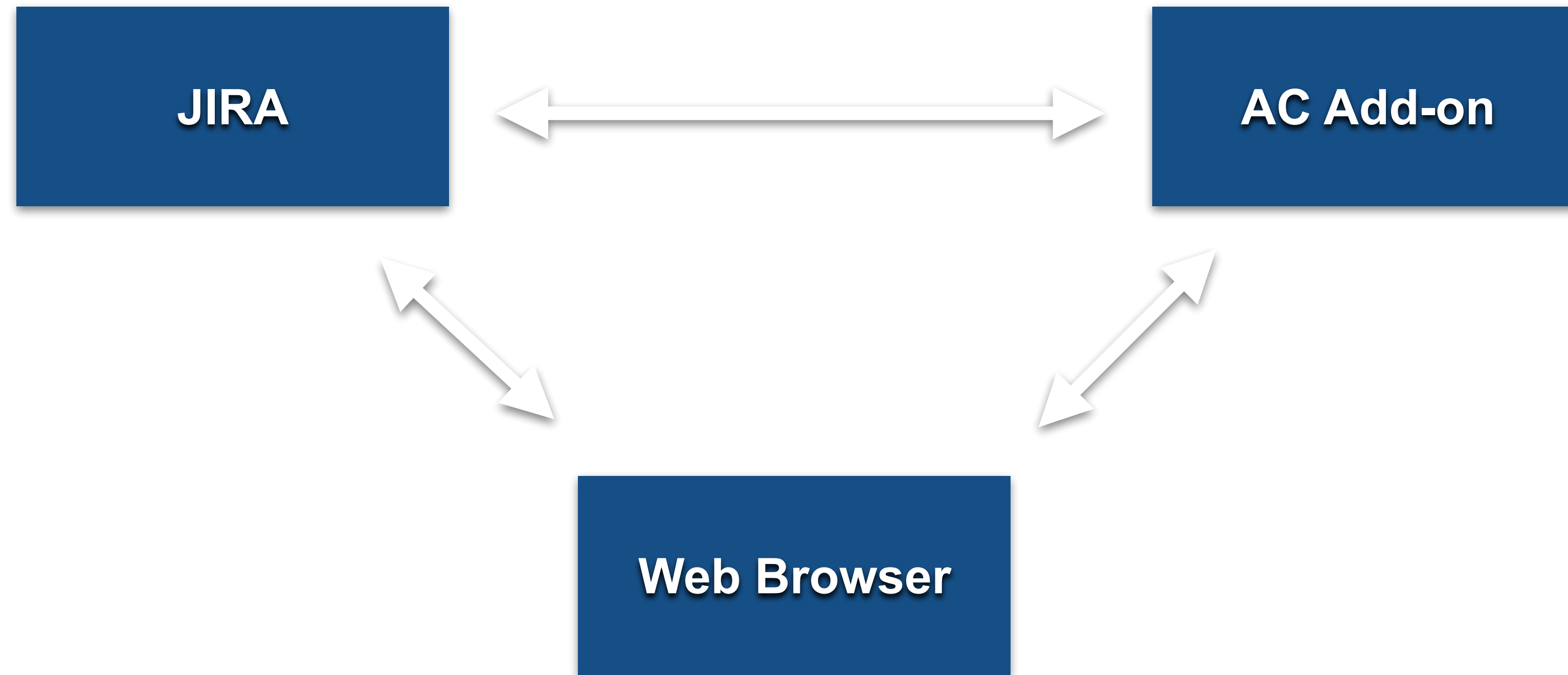
2014



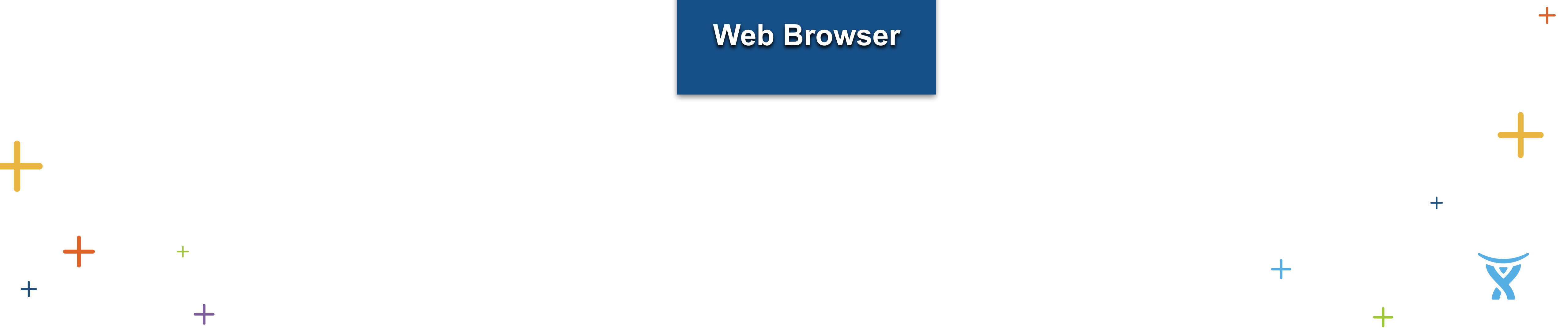
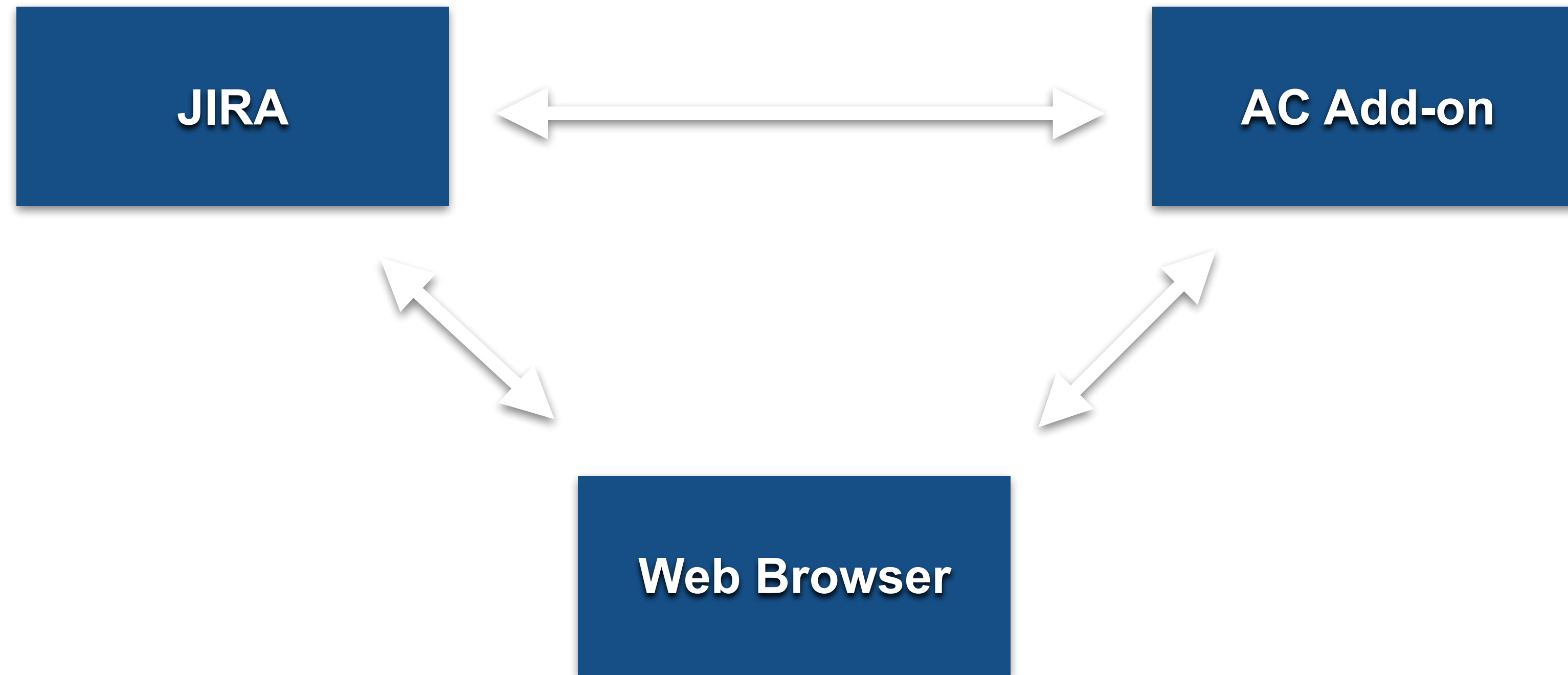
**what do we have in  
JIRA Atlassian Connect  
today?**



# Atlassian Connect in JIRA



# Atlassian Connect in JIRA



# Atlassian Connect in JIRA

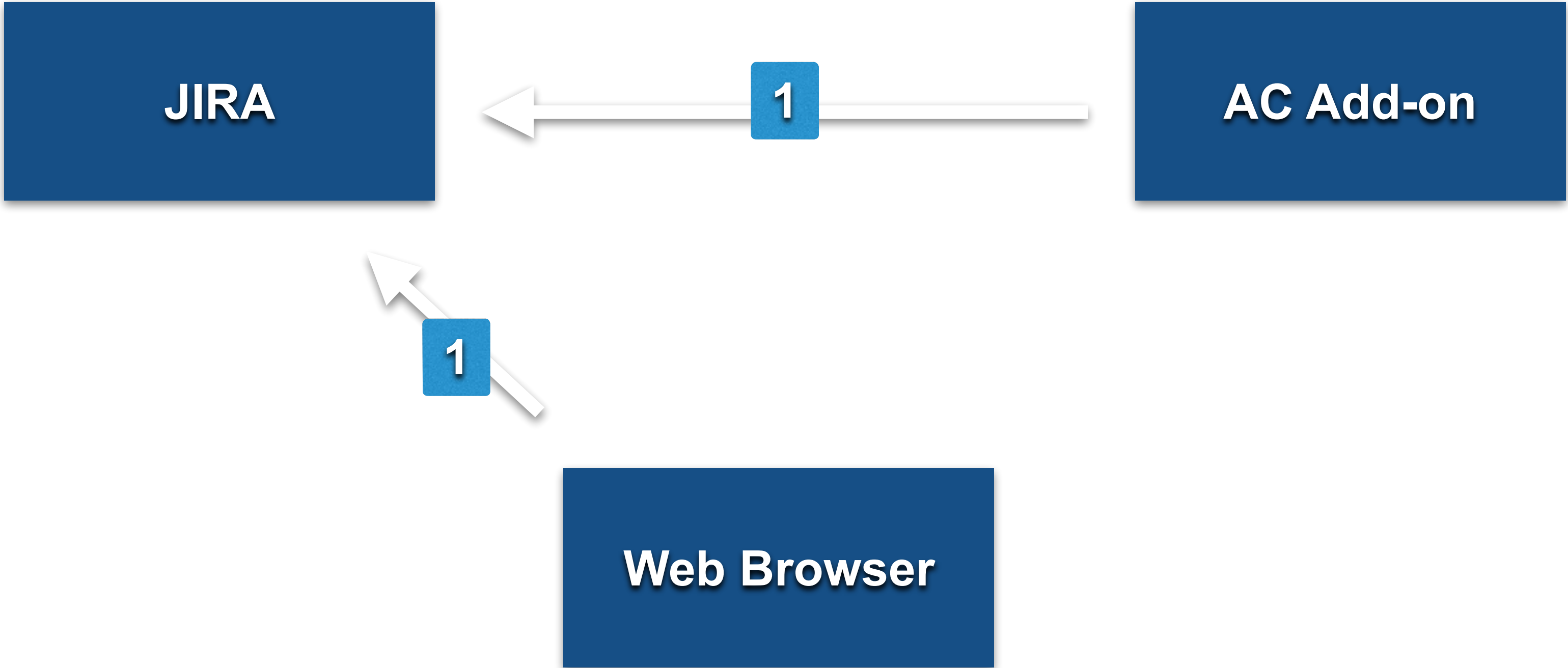
JIRA

AC Add-on

Web Browser



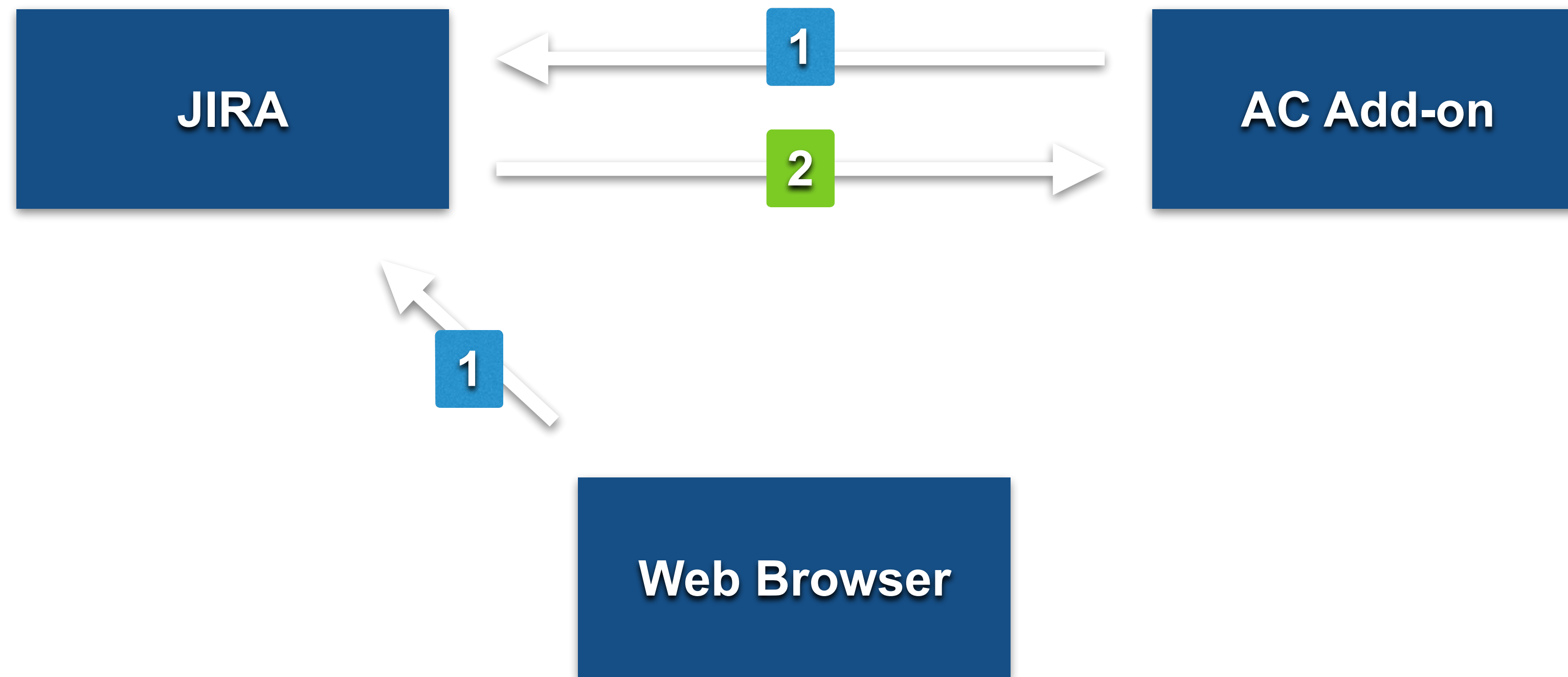
# Atlassian Connect in JIRA



**1** REST API



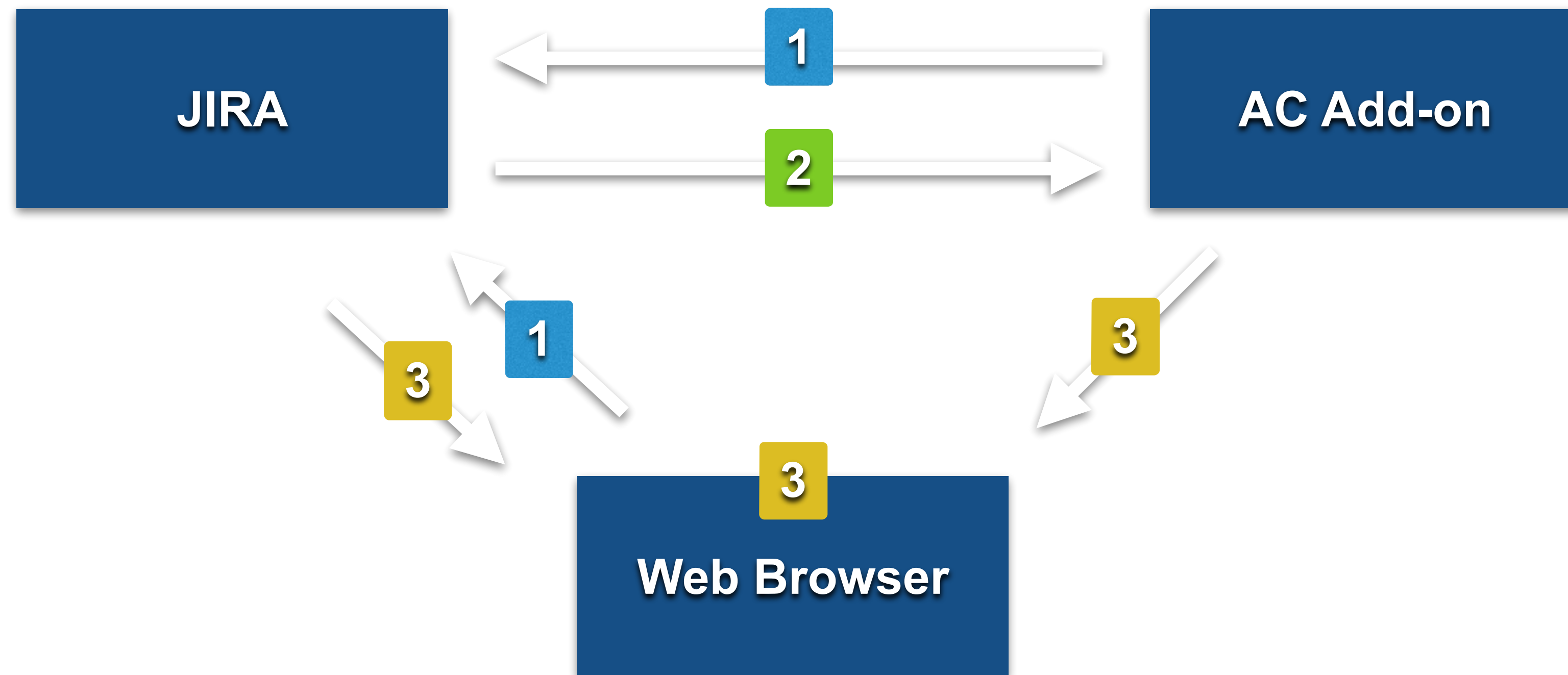
# Atlassian Connect in JIRA



**1** REST API

**2** webhooks

# Atlassian Connect in JIRA



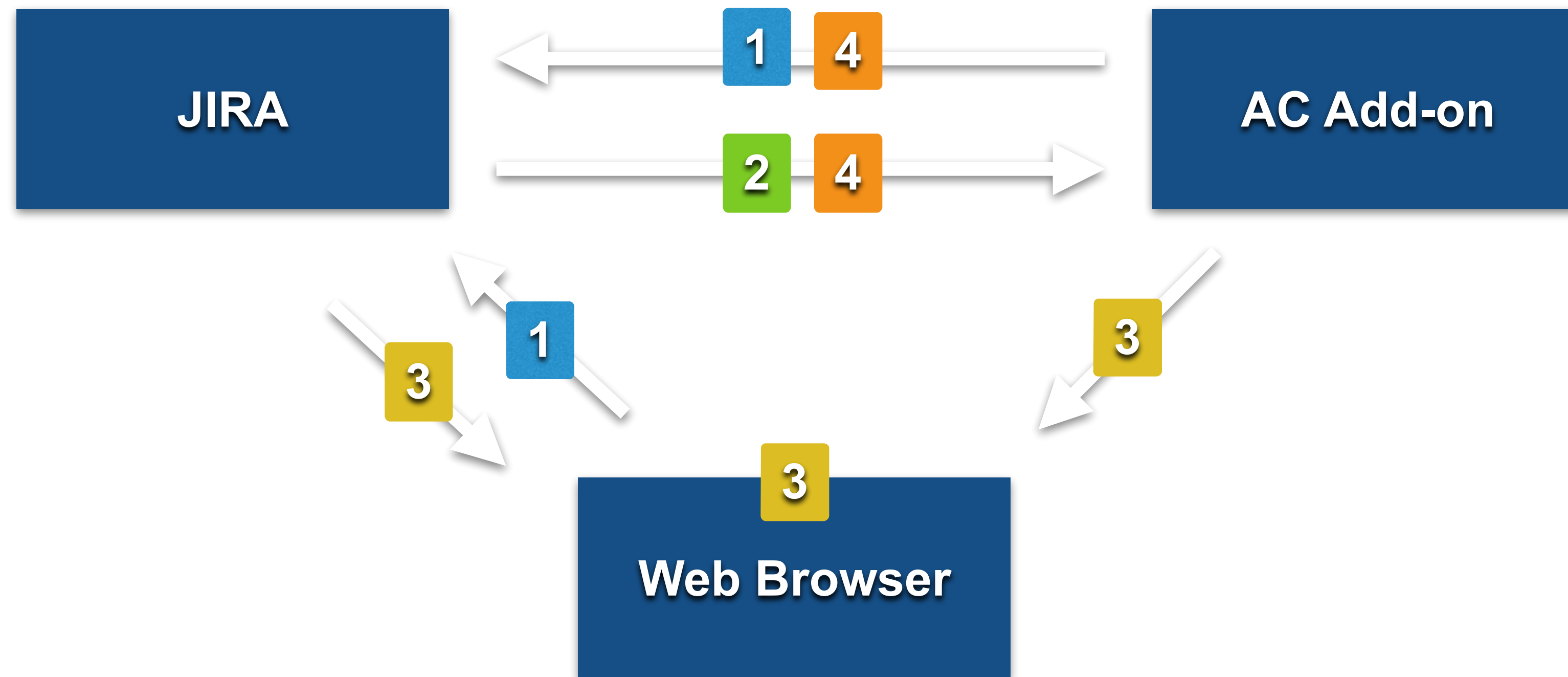
**1** REST API

**3** GUI integration +

**2** webhooks



# Atlassian Connect in JIRA



**1** REST API

**2** webhooks

**3** GUI integration

**4** entity properties

# Atlassian Connect in JIRA

## REST API in JIRA

- over 120 REST API points (and growing)
- most methods accepting multiple commands



# Atlassian Connect in JIRA

## REST API in JIRA

- over 120 REST API points (and growing)
- most methods accepting multiple commands

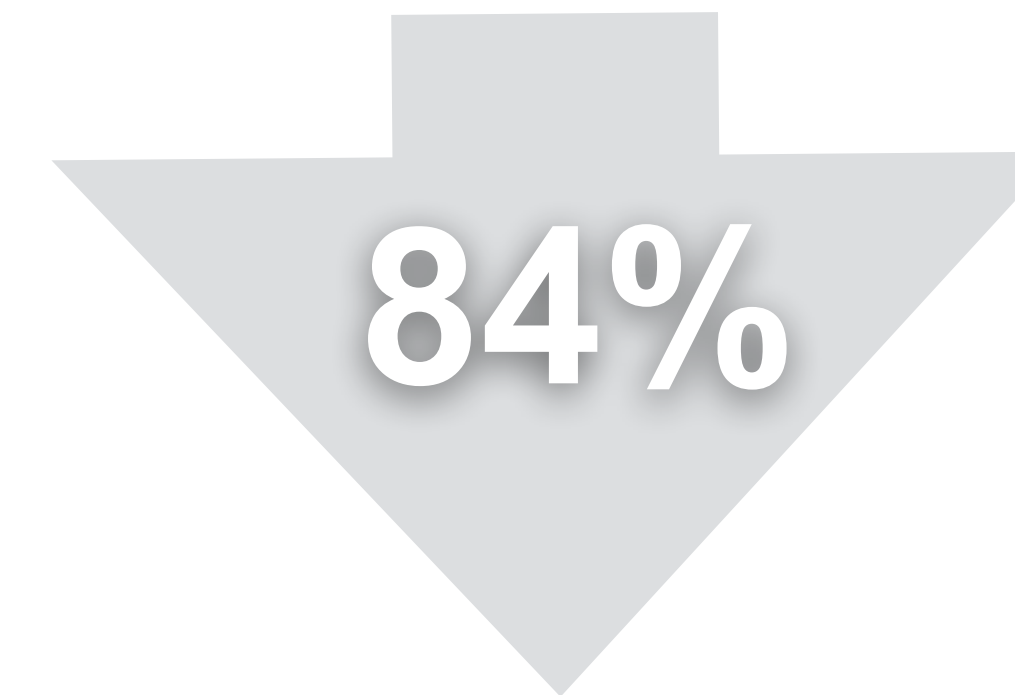
**REST AREA  
NEXT RIGHT**



# Atlassian Connect in JIRA

## SOAP RESTification in JIRA

- 84% of SOAP methods already covered in REST
- took longer than expected
- **we plan to remove SOAP in JIRA 8.0**
- do not wait until the last moment



# Atlassian Connect in JIRA

## webhooks in JIRA

- callback message in JSON format
- register via GUI, REST or descriptor
- coverage:
  - issues,
  - workflow post functions,
  - comments (\*)
  - attachments (\*)
  - projects (\*)
  - versions (\*)
  - worklogs (\*)

(\*) work in progress

**Webhooks** + Create a Webhook

Type to filter

**ACTIVE WEBHOOKS**

- All JRADEV issues updated
- Bamboo Webhooks Build

**DISABLED WEBHOOKS**

- AI Issues Webhook
- Service Desk SLA Expired
- TEAM Calendars JIRA
- Webhooks test

**ADD-ONS WEBHOOKS**

**Calendar**

Issue Status Stalker

Search updater

**Calendar**

ACTIVE

You can't edit webhooks which are provided by add-ons.  
[Learn more](#)

**Webhook 1**

URL	http://ec2-54-242-59-11.compute-1.amazonaws.com/rest/env/customText/i%20am%20a%20long%20text%20that%20people
JQL	labels = "http://ec2-54-242-59-11.compute-1.amazonaws.com/rest/env/customText/i%20am%20a%20long%20text%20that%20people"
Exclude details	No
Events	<b>Issue:</b> assigned
Transitions	No linked transitions

**Webhook 2**

URL	http://ec2-54-242-59-11.compute-1.amazonaws.com/rest/env/customText/i%20am%20a%20long%20text%20that%20people
JQL	labels = "http://ec2-54-242-59-11.compute-1.amazonaws.com/rest/env/customText/i%20am%20a%20long%20text%20that%20people"
Exclude details	No
Events	<b>Issue:</b> assigned
Transitions	No linked transitions

**Webhook 3**

# Atlassian Connect in JIRA

## User interface integration

- seamlessly blended into JIRA GUI
- context aware

(\*) work in progress



# Atlassian Connect in JIRA

## User interface integration

- seamlessly blended into JIRA GUI
- context aware

(\*) work in progress

<b>A</b>	Web Panel
<b>B</b>	Issue Tab Panel
<b>C</b>	Project Tab Panel
<b>D</b>	Report
<b>E</b>	Gadget (*)
<b>F</b>	Web Item
<b>G</b>	General page
<b>H</b>	Search Request View
<b>I</b>	Admin page
<b>J</b>	Config page
<b>K</b>	Dialog
<b>L</b>	Profile page



# Atlassian Connect in JIRA

## Entity Properties

- store and retrieve JSON data in JIRA server
- search for it using JQL
- coverage:
  - issues
  - projects
  - comments
  - add-on (\*)
  - dashboard (\*)

(\*) work in progress

The screenshot shows a JIRA issue page for the project 'AtlasCamp2014 / AT-6'. The issue title is 'Support Connect in on-premise installations'. The issue type is 'New Feature', priority is 'Major', and status is 'TO DO'. The resolution is 'Unresolved'. The assignee and reporter are 'A. D. Ministrator (Sysadmin)'. The issue was created and updated 'Yesterday'. There are no comments yet on this issue. The page includes a navigation bar with 'Dashboards', 'Projects', 'Issues', 'Agile', 'Gantt Chart', and 'Hidden Webfragments'. A 'Create issue' button is visible in the top right. The footer contains the Atlassian logo and version information: 'Atlassian JIRA Project Management Software (v6.3-OD-05-005#6322-sha1:dacccec)'. A disclaimer states 'This JIRA site is for non-production use only.'

# Atlassian Connect in JIRA

## Entity Properties

- store and retrieve JSON data in JIRA server
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- coverage:
  - issues
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STORE,  
INDEX  
&  
RETRIEVE

The screenshot shows a JIRA issue page for 'AtlasCamp2014 / AT-6' with the title 'Support Connect in on-premise installations'. The issue details include Type: New Feature, Priority: Major, Status: TO DO, and Resolution: Unresolved. The assignee and reporter are both A. D. Ministrator (Sysadmin). The description field is empty with a 'Click to add description' link. The activity section shows 'All', 'Comments', 'History', and 'Activity' tabs, with a message 'There are no comments yet on this issue.' and a 'Comment' button. The Any.do integration is highlighted with a green oval, showing a task 'What's next?' with a due date of 'Tomorrow' and a checkmark icon.

**what are we  
working on in  
JIRA?**



The following is intended to outline our general product direction for informational purposes only. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described herein remains at the sole discretion of Atlassian.



# Atlassian Connect in JIRA - work in progress

Support complex add-ons to be migrated to Atlassian Connect

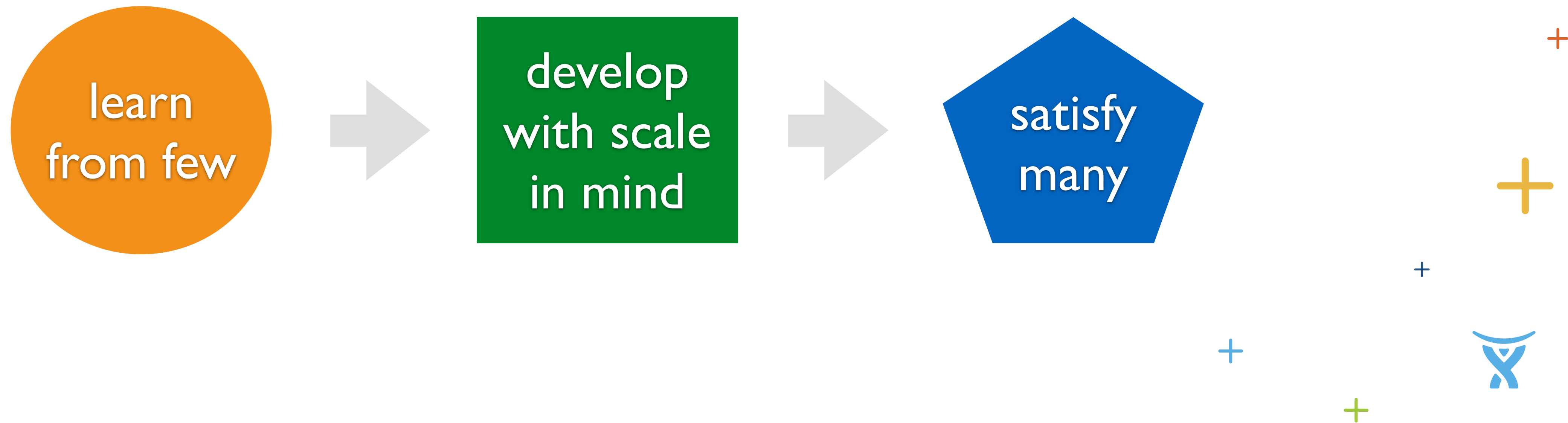
- close cooperation with 10 leading developers
- requirements for real cases gathered and processed
- common patterns found for other developers to benefit from



# Atlassian Connect in JIRA - work in progress

Support complex add-ons to be migrated to Atlassian Connect

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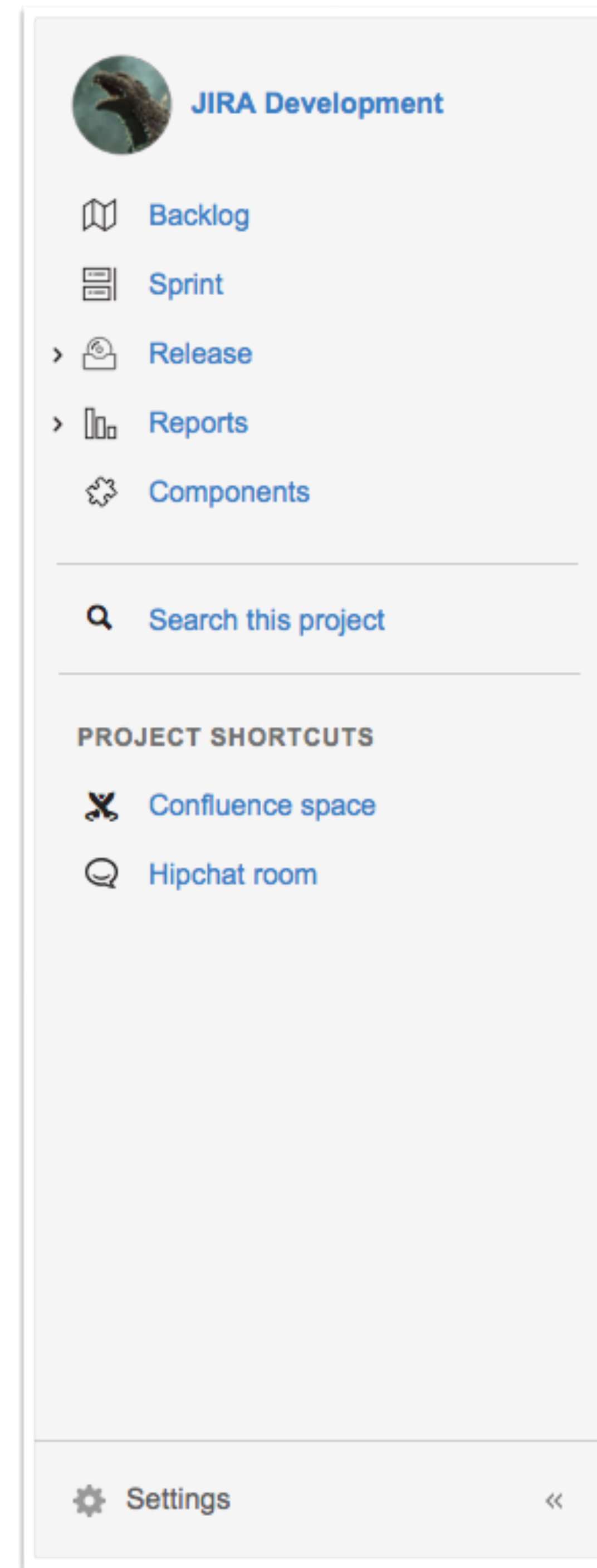


# Project navigation

## Plug-able sidebar (\*)

- each entry is a web panel
- you can add your own
- Project Tab Panel will appear here as well
- icon support **added**

(\*) work in progress

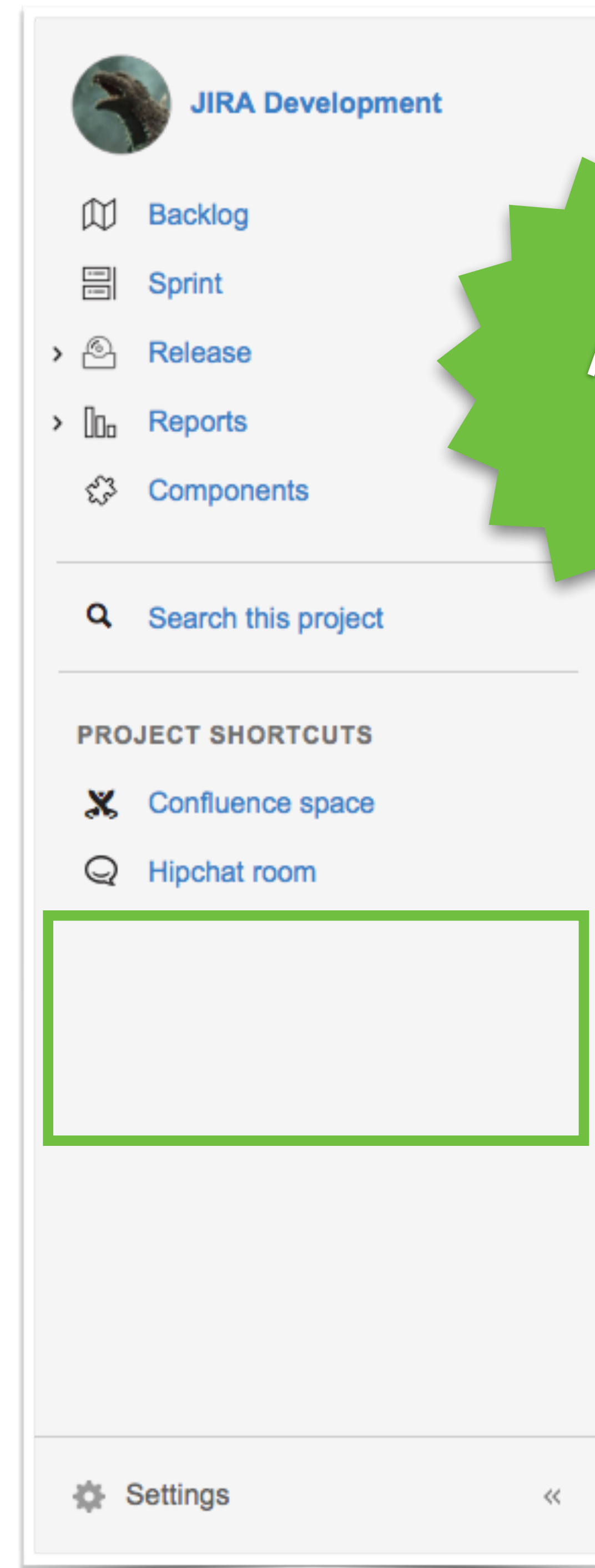


# Project navigation

## Plug-able sidebar (\*)

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(\*) work in progress



# Project navigation

## Plug-able project summary page (\*)

- web panel in the right section
- remote activity streams
- more enhancements planned

(\*) work in progress

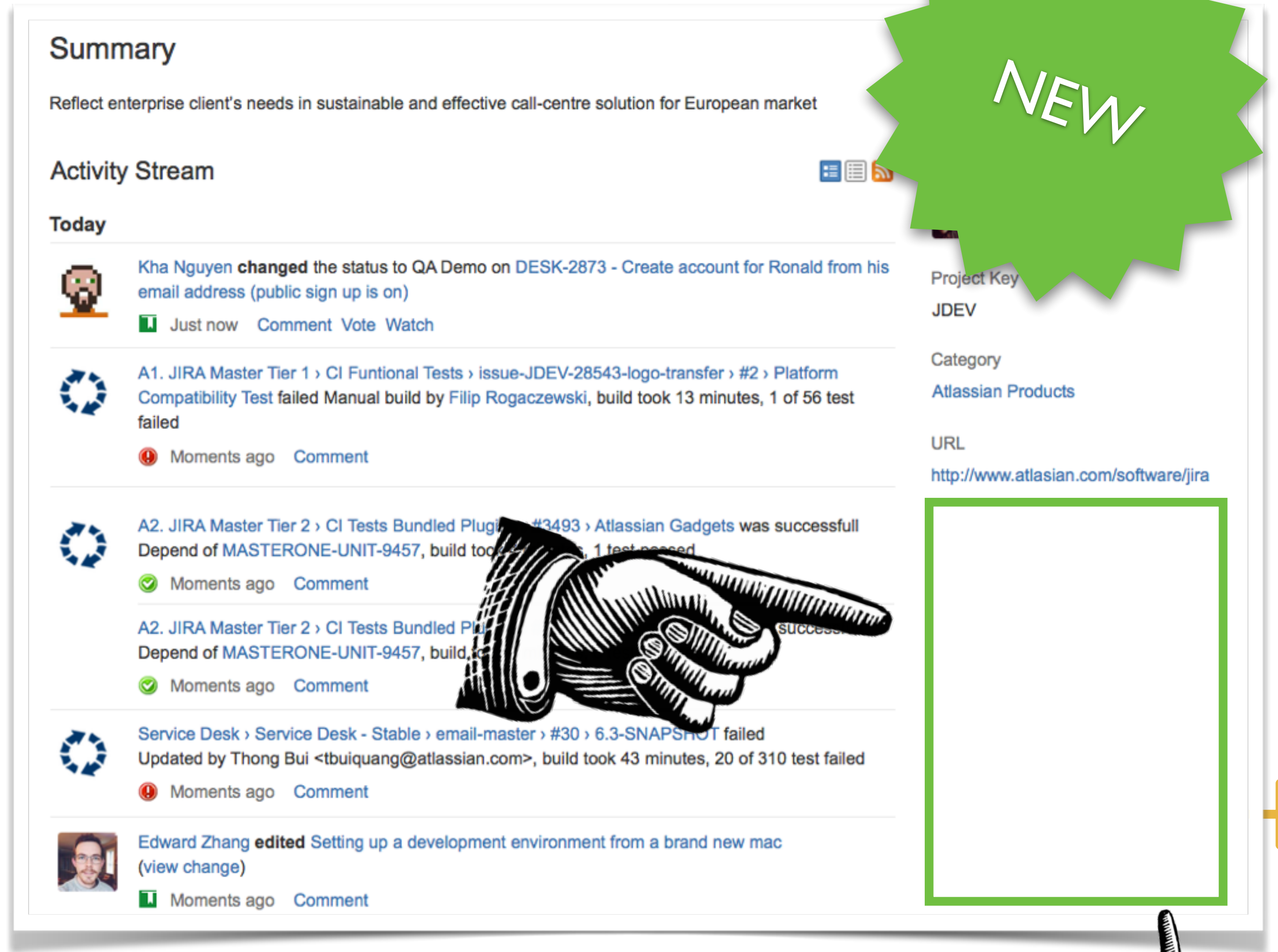
The screenshot displays a Jira project summary page. At the top, the 'Summary' section contains the text: 'Reflect enterprise client's needs in sustainable and effective call-centre solution for European market'. To the right of this text, the 'Project Lead' is identified as 'Alana the Aware'. Below the summary is the 'Activity Stream' section, which is filtered for 'Today'. It lists several activities: 1. A user 'Kha Nguyen' changed the status to 'QA Demo' on issue 'DESK-2873 - Create account for Ronald from his email address (public sign up is on)'. 2. A build failure for 'A1. JIRA Master Tier 1 > CI Funtional Tests > issue-JDEV-28543-logo-transfer > #2 > Platform Compatibility Test' failed. 3. A build success for 'A2. JIRA Master Tier 2 > CI Tests Bundled Plugins > #3493 > Atlassian Gadgets' passed. 4. Another build success for 'A2. JIRA Master Tier 2 > CI Tests Bundled Plugins > #3493 > Atlassian Bot Killer' passed. 5. A build failure for 'Service Desk > Service Desk - Stable > email-master > #30 > 6.3-SNAPSHOT' failed. 6. A user 'Edward Zhang' edited the project description 'Setting up a development environment from a brand new mac'. On the right side of the activity stream, there are sections for 'Last week most active' (showing five user avatars), 'Project Key' (JDEV), 'Category' (Atlassian Products), and 'URL' (http://www.atlassian.com/software/jira).

# Project navigation

## Plug-able project summary page (\*)

- web panel in the right section
- remote activity streams
- more enhancements planned

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The screenshot shows a Jira project summary page. At the top, there is a 'Summary' section with the text 'Reflect enterprise client's needs in sustainable and effective call-centre solution for European market'. Below this is an 'Activity Stream' section with a 'Today' filter. The activity stream contains several entries: 1. A user 'Kha Nguyen' changed the status to 'QA Demo' on issue 'DESK-2873 - Create account for Ronald from his email address (public sign up is on)'. 2. A failed CI test 'A1. JIRA Master Tier 1 > CI Funtional Tests > issue-JDEV-28543-logo-transfer > #2 > Platform Compatibility Test failed Manual build by Filip Rogaczewski, build took 13 minutes, 1 of 56 test failed'. 3. A successful CI test 'A2. JIRA Master Tier 2 > CI Tests Bundled Plug... #3493 > Atlassian Gadgets was successfull Depend of MASTERONE-UNIT-9457, build took... 1 test passed'. 4. Another successful CI test 'A2. JIRA Master Tier 2 > CI Tests Bundled Plug... Depend of MASTERONE-UNIT-9457, build, c...'. 5. A failed test 'Service Desk > Service Desk - Stable > email-master > #30 > 6.3-SNAPSHOT failed Updated by Thong Bui <tbuiquang@atlassian.com>, build took 43 minutes, 20 of 310 test failed'. 6. A user 'Edward Zhang' edited 'Setting up a development environment from a brand new mac (view change)'. On the right side, there is a sidebar with 'Project Key: JDEV', 'Category: Atlassian Products', and 'URL: http://www.atlassian.com/software/jira'. A large green starburst with the word 'NEW' is overlaid on the top right. A hand icon points to a green rectangular box in the bottom right corner of the activity stream area.

# Project navigation

## Components list (\*)

- simplified list
- Component Tab Panel **removed**

(\*) work in progress

Component	Issues	Lead	Description
ActiveObjects	631 issues	 Justus Pendleton	Studio
Admin nav redesign	87 issues	 Robert Smart	20% project to clean up Admin home and improve nav
admin-helper	23 issues		
API	162 issues		
Auditing	3 issues		JIRA embedded auditing
Build	728 issues	 Martin Meinhold	
Clustering	61 issues	 Graham Carrick	
Connect	844 issues	 Filip Rogaczewski	JIRA Connect issues
Create Issue	780 issues		the plugin
Data Generator	165 issues	 Sławek Ginter	Plugin to generate history for performance tests
Data Recovery	230 issues		
Design	453 issues	 Jay Rogers	
Documentation	709 issues		
Embedded Crowd	536 issues	 Michał Orzechowski	
Entity Engine	808 issues	 James Winters	Our fork of the Apache OfBiz EntityEngine ORM library

1-15 of 41

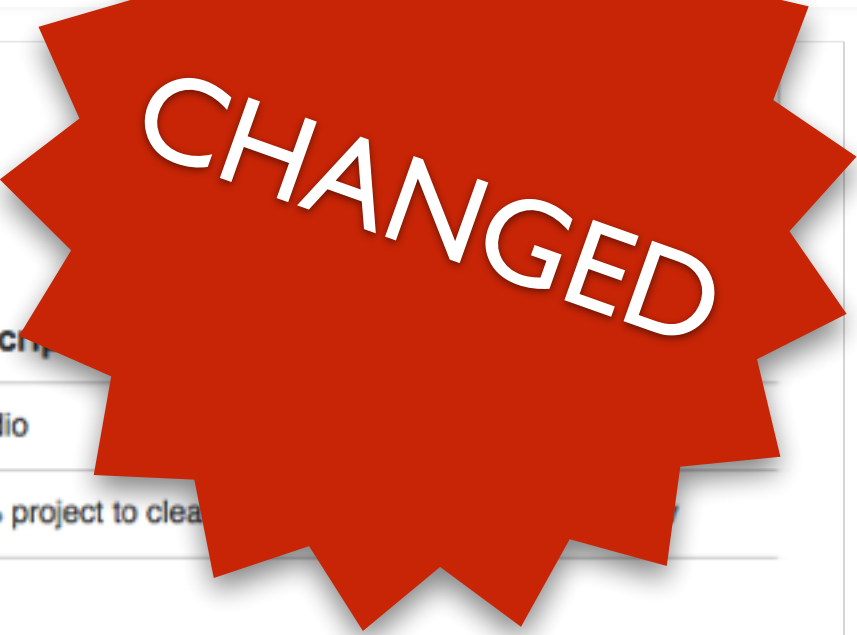
Prev 1 2 3 Next










# Project navigation

## Components list (\*)

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1-15 of 41 Prev 1 2 3 Next

# Project navigation

## Versions list (\*)

- simplified list
- access to new Version screen
- Version Tab Panel **removed**

(\*) work in progress

Release						Manage Versions
Version	Status	Progress	Start date	Release date	Description	
6.3.x	UNRELEASED		23/Jun/14	12/Aug/14	Future bugs	
6.3	UNRELEASED			12/Aug/14	General master	
6.3-RC	UNRELEASED			12/Aug/14		
6.3-win32	UNRELEASED		23/Jun/14			
6.3-ARM	UNRELEASED				Apple platforms	
6.3-i586	UNRELEASED				Linux GNU release	
6.3-x86	UNRELEASED			12/Aug/14		
6.2.x	RELEASED			19/Jun/14	Bugs... catch them all!	
6.2	RELEASED			19/Jun/14		
6.2-RC	RELEASED			19/Jun/14		
6.2-win32	RELEASED		10/Jan/14	19/Jun/14	Make Windows users happy	
6.2-i586	RELEASED			19/Jun/14		
6.2-x86	RELEASED		10/Jan/14	19/Jun/14		
6.1.x	RELEASED		15/Sep/13	1/Feb/14		
6.1	RELEASED		15/Sep/13	1/Feb/14	Milestone in strategy... sort of	
6.1-RC	RELEASED			1/Feb/14		
6.1-win32	RELEASED		15/Sep/13	1/Feb/14	Vincent, are we happy?	
6.1-ARM	RELEASED		15/Sep/13	1/Feb/14		
6.1-i586	RELEASED			1/Feb/14		

Version: 6.3.x  
219 issues in total

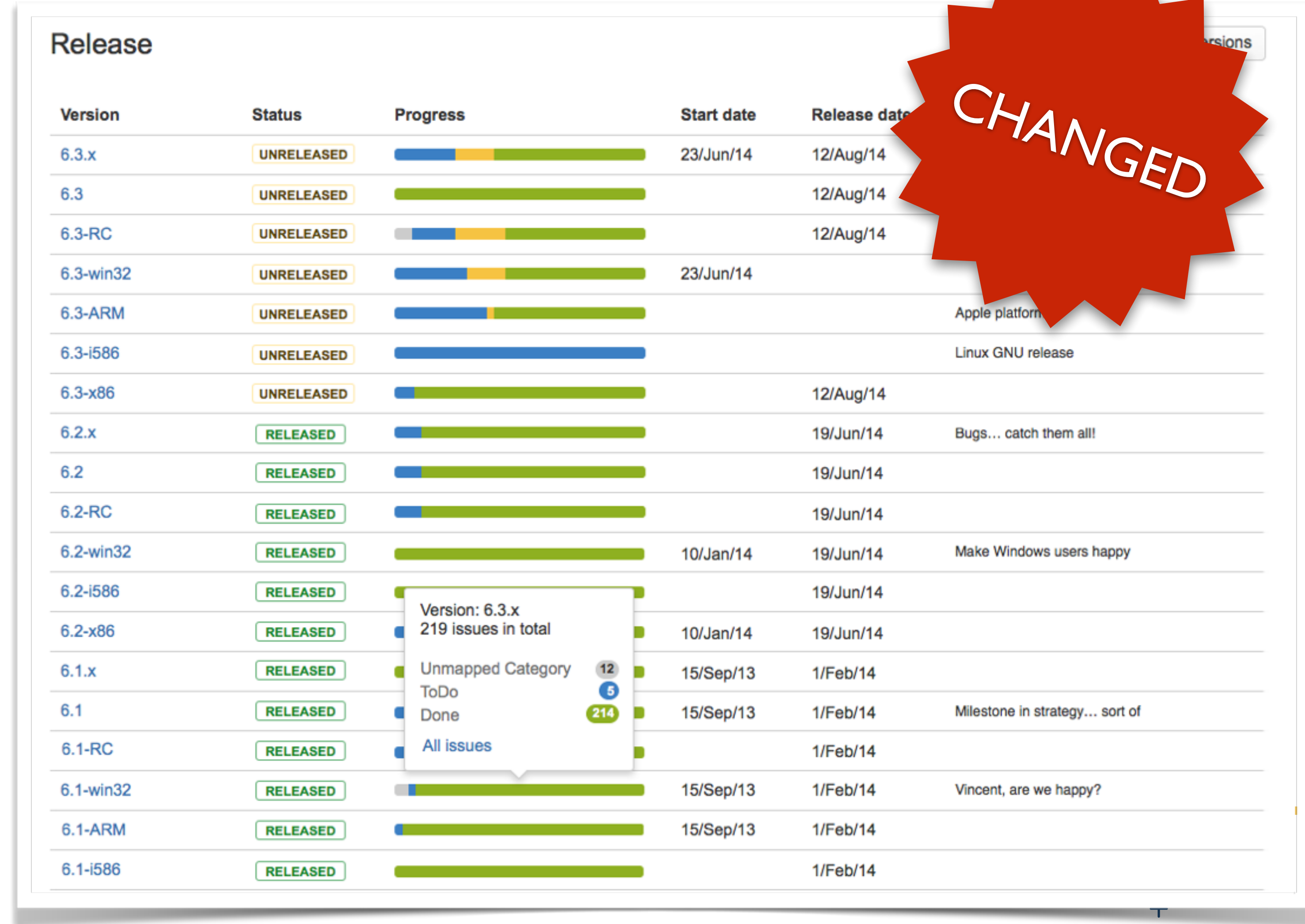
Unmapped Category 12  
ToDo 5  
Done 214  
All issues

# Project navigation

## Versions list (\*)

- simplified list
- access to new Version screen
- Version Tab Panel **removed**

(\*) work in progress



The screenshot shows a 'Release' table with columns for Version, Status, Progress, Start date, Release date, and a description. A red starburst with the word 'CHANGED' is overlaid on the right side of the table. A tooltip is visible over the '6.3.x' row, showing issue counts for different categories.

Version	Status	Progress	Start date	Release date	
6.3.x	UNRELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 10%; background-color: orange;"></div><div style="width: 80%; background-color: green;"></div></div>	23/Jun/14	12/Aug/14	
6.3	UNRELEASED	<div style="width: 100%; background-color: green;"></div>		12/Aug/14	
6.3-RC	UNRELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 10%; background-color: orange;"></div><div style="width: 80%; background-color: green;"></div></div>		12/Aug/14	
6.3-win32	UNRELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 10%; background-color: orange;"></div><div style="width: 80%; background-color: green;"></div></div>	23/Jun/14		
6.3-ARM	UNRELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>			Apple platform
6.3-i586	UNRELEASED	<div style="width: 100%; background-color: blue;"></div>			Linux GNU release
6.3-x86	UNRELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>		12/Aug/14	
6.2.x	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>		19/Jun/14	Bugs... catch them all!
6.2	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>		19/Jun/14	
6.2-RC	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>		19/Jun/14	
6.2-win32	RELEASED	<div style="width: 100%; background-color: green;"></div>	10/Jan/14	19/Jun/14	Make Windows users happy
6.2-i586	RELEASED	<div style="width: 100%; background-color: green;"></div>		19/Jun/14	
6.2-x86	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>	10/Jan/14	19/Jun/14	
6.1.x	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>		15/Sep/13	1/Feb/14
6.1	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>		15/Sep/13	1/Feb/14
6.1-RC	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>		15/Sep/13	1/Feb/14
6.1-win32	RELEASED	<div style="width: 100%;"><div style="width: 10%; background-color: blue;"></div><div style="width: 90%; background-color: green;"></div></div>	15/Sep/13	1/Feb/14	Vincent, are we happy?
6.1-ARM	RELEASED	<div style="width: 100%; background-color: green;"></div>	15/Sep/13	1/Feb/14	
6.1-i586	RELEASED	<div style="width: 100%; background-color: green;"></div>		1/Feb/14	

Version: 6.3.x  
219 issues in total

Unmapped Category 12  
ToDo 5  
Done 214  
All issues

# Project navigation

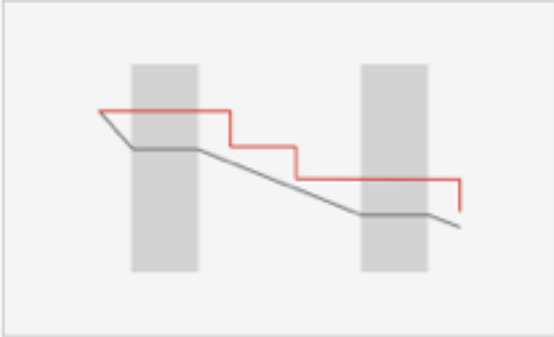


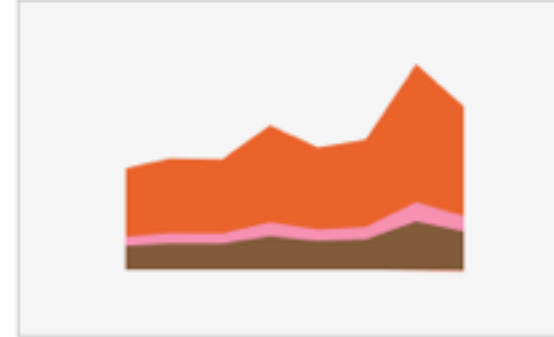
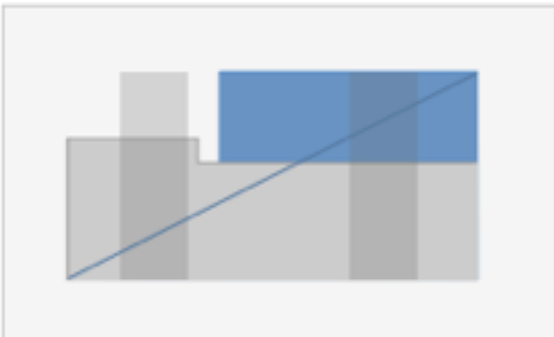
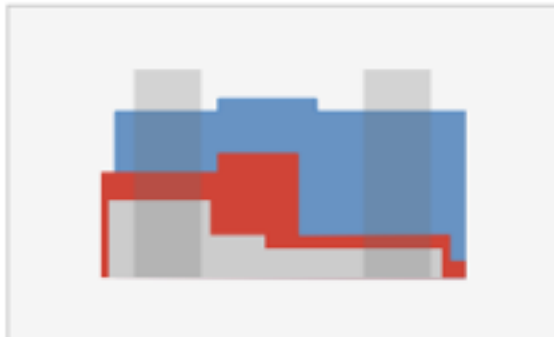
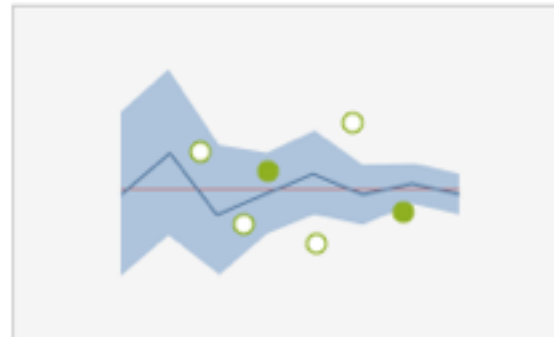
## Report list (\*)

- list with tiles and in categories
- Report plugin point **extended**

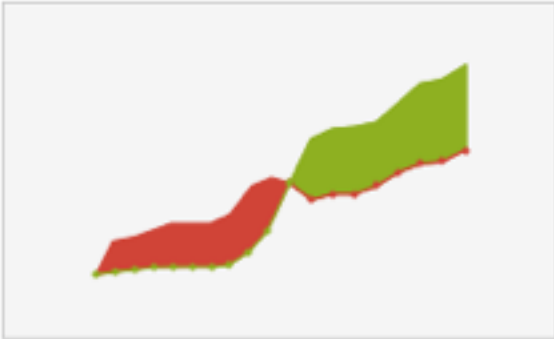
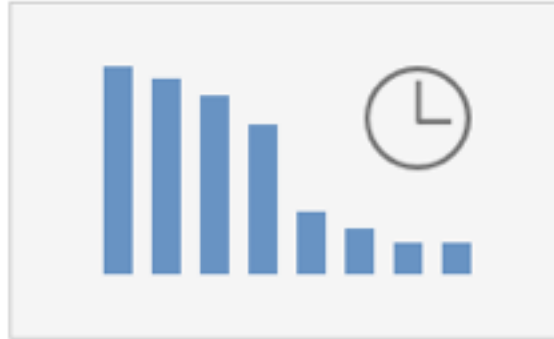

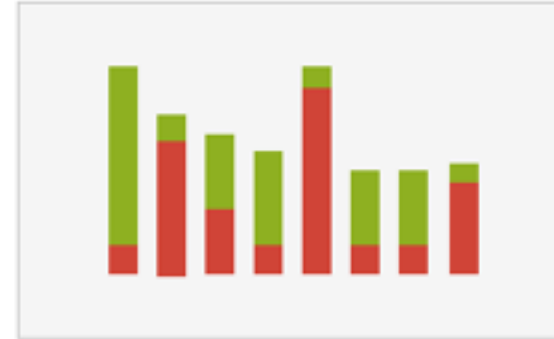
(\*) work in progress

### Report

#### Agile

			
<b>Burndown Chart</b> Track the total work remaining and project the likelihood of achieving the sprint goal.	<b>Sprint Report</b> Understand the work completed or pushed back to the backlog in each sprint.	<b>Velocity Chart</b> Track the amount of work completed from sprint to sprint. This helps to predict future performance.	<b>Cumulative Flow Diagram</b> Use it to identify the number of issues in each status over time.
			
<b>Version Report</b> Understand the progress towards completing a version and the likelihood of releasing it on time.	<b>Epic Report</b> Understand the progress towards completing an epic over time.	<b>Control Chart</b> Identify whether data from the current process can be used to determine future performance.	

#### Issues analysis

			
<b>Created vs. Resolved Issues</b> A report showing issues created vs. issues resolved.	<b>Time Since Issues</b> Report displaying users worked time sheet over specified period.	<b>Resolution Time</b> A report showing the length of time taken to resolve issues for a project or filter.	<b>Recently Created Issues</b> A report showing the number of issues recently created.

# Project navigation

## Report list (\*)

- list with tiles and in categories
- Report plugin point **extended**

(\*) work in progress

**Report**

**Agile**

- Burndown Chart**  
Track the total work remaining and project the likelihood of achieving the sprint goal.
- Sprint Report**  
Understand the work completed or pushed back to the backlog in each sprint.
- Velocity Chart**  
Track the amount of work completed from sprint to sprint. This helps to predict future performance.
- Version Report**  
Understand the progress towards completing a version and the likelihood of releasing it on time.

**Issues analysis**

- Created vs. Resolved Issues**  
A report showing issues created vs. issues resolved.
- Time Since Issues**  
Report displaying users worked time sheet over specified period.
- Resolution Time**  
A report showing the length of time taken to resolve issues for a project or filter.
- Recently Created Issues**  
A report showing the number of issues recently created.

**CHANGED**

**Control Chart**  
Identify whether data from the current process can be used to determine future performance.

# Project navigation

## New Version Screen (\*)

- single source of truth for version
- details of plugability for P2 and AC being discussed

(\*) work in progress

Version: 6.3 M-1 **UNRELEASED** [Release](#)

493 issues [Release burndown](#) [Release notes](#)

77 days left [Release 27 Aug, 2014](#)

122 Todo 34 In Progress 1 187 Done

8 Warnings from other versions

16 Warnings All issues Todo In Progress Done

P	T	Key	Summary	Assignee	Status	Recent development	Builds	Deployed
↓	I	GHS-5773	Create Epic link and Create Version link are...		IN PROGRESS	↑ 1 MERGED 11 Jul 2014	✓	
↑	Q	GHS-915	Labs labelling		CLOSED	φ 3 10 Apr 2014		
↑	S	GHS-43	Create Labs Feature Flag		CLOSED	↑ 1 DECLINED 22 Oct 2013	! 3	
↑	I	GHS-181	Labs can be turned on and off per user		TO DO	☑ 1 CLOSED 10 Apr 2014	✓	
↑	I	GHS-1799	Split View - Create Lab messaging for specia		IN PROGRESS	φ 3 10 Apr 2014		
↑	Q	GHS-506	Remove labs right before go live		IN PROGRESS	↑ 1 MERGED 22 Oct 2013	✓	Production...(2)
↑	S	GHS-199	In labs treatment		CLOSED	↑ 1 MERGED 22 Oct 2013	✓	Production...(3)
↑	I	GHS-62	Labs treatment		IN PROGRESS	↑ 1 DECLINED 22 Oct 2013	! 1	
↑	I	GHS-1412	Updating title of Switch Back to be "Turn off L		CLOSED	φ 3 10 Apr 2014		

# Project navigation

## New Version Screen (\*)

- single source of truth for version
- details of plugability for P2 and AC being discussed

(\*) work in progress



Version: 6.3 M-1 UNRELEASED Release

493 issues [Release burndown](#) [Release notes](#)

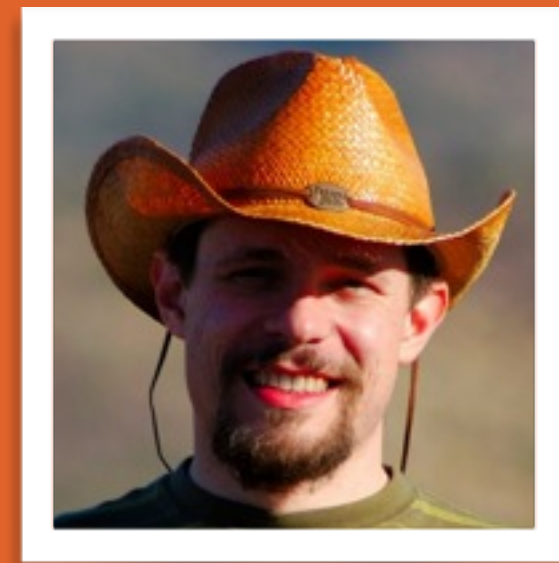
77 days left 122 Todo 34 In Progress 1 187 Done

Release 27 Aug, 2014 8 Warnings from other versions

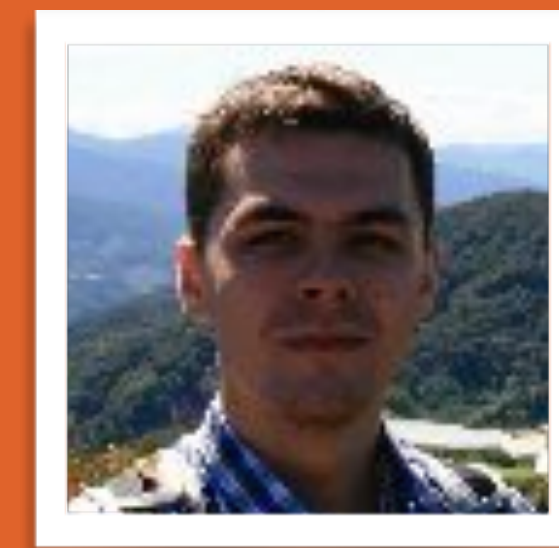
16 Warnings **All issues** [Todo](#) [In Progress](#) [Done](#)

P	T	Key	Summary	Assignee	Status	Recent development	Builds	Deployed
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↑	S	GHS-199	In labs treatment		CLOSED	↑ 1 MERGED 22 Oct 2013	✓	Production...(3)
↑	I	GHS-62	Labs treatment		IN PROGRESS	↑ 1 DECLINED 22 Oct 2013	! 1	
↑	I	GHS-1412	Updating title of Switch Back to be "Turn off L		CLOSED	φ 3 10 Apr 2014		

# talk to us!



**Bartek Gatz**



**Filip Rogaczewski**



# please welcome



Ian Grunert





# JIRA 7 For Developers

Things to know and how to know them



IAN GRUNERT • SENIOR DEVELOPER • ATLASSIAN • @iangrunert

# JIRA 7 For Developers

**Data Center**

**Web Resources**

**Keeping in the loop**



# Data Center



# Plugin Guide to JIRA High Availability and Clustering

In a future release JIRA will have the ability to be clustered.

- [Plugin Responsibilities](#)
  - [jira-home](#)
  - [Scheduled tasks and background processes](#)
    - [Job Runner](#)
    - [Schedule a job](#)
    - [Executors](#)
- [Caches](#)
- [Cluster Locks](#)
- [Cluster Messages](#)
- [Events](#)
- [Web Requests](#)
- [General Guideline](#)

Feedback?

## Thursday

### Connect Security

Peter Brownlow, Senior Java Developer

### 10 Things a Front End Developer Should Know About Connect

Chris Whittington, Javascript Developer

### JIRA State of the Union

Bartek Gatz, JIRA Product Manager

### Building the Right Thing

Sherif Mansour, Principal Product Manager

### Building a Connect Add-on with Your Own Stack

Patrick Streule, Architect

### Writing Confluence Apps with Connect

Matthew Jensen, Developer Relations Engineer

### Preparing Your Plugin for JIRA Data Center

Chris Fuller, Senior Developer

### Stash State of the Union

Jason Hinch, Developer

### HipChat Add-ons for the Atlassian Marketplace

Will DeHaan, Developer

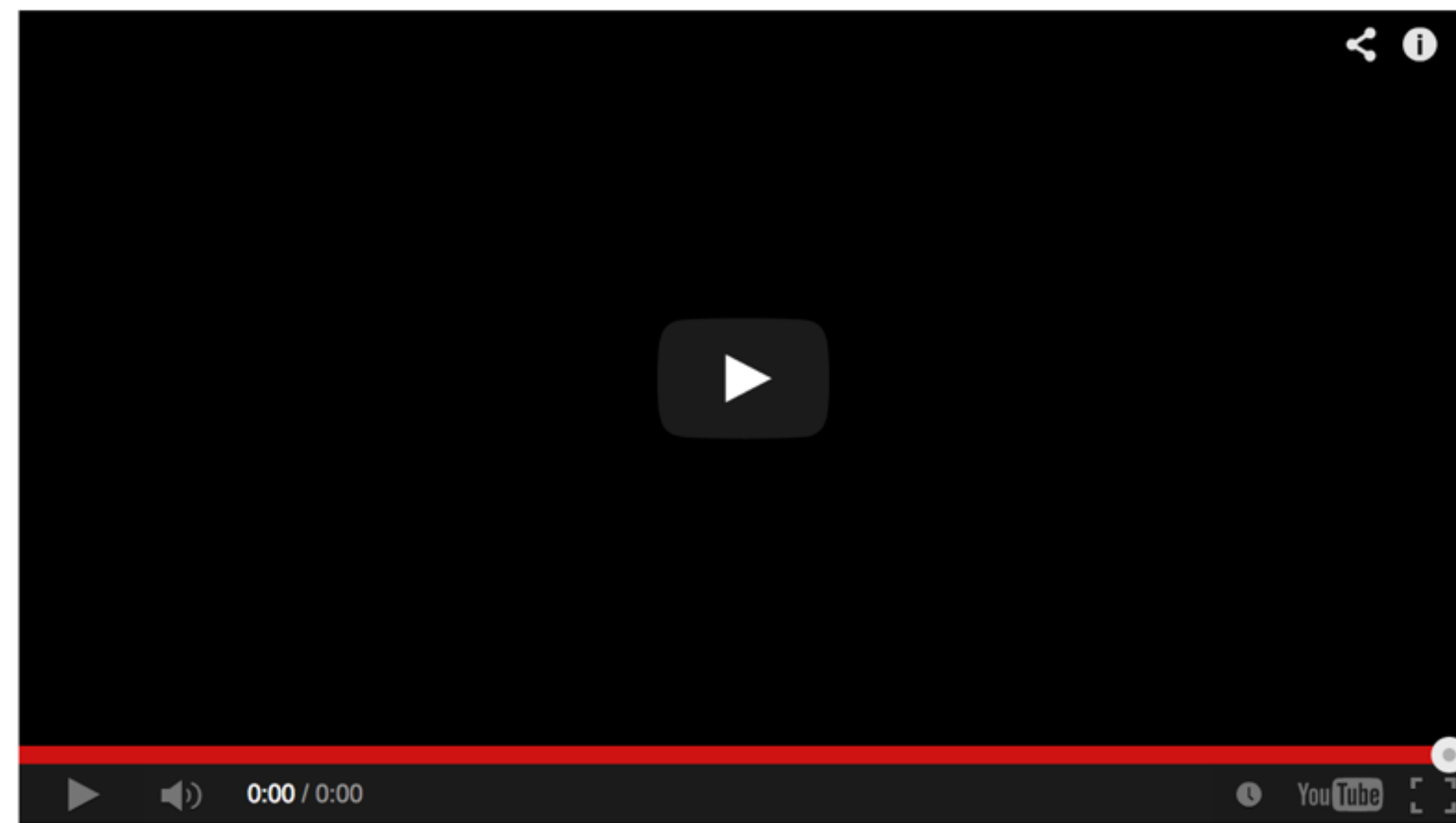
## Preparing Your Plugin for JIRA Data Center

### Chris Fuller, Senior Developer

JIRA and Confluence are introducing new product editions with support for high availability and clustering. Depending on your add-on, supporting enterprise-grade deployments of JIRA and Confluence could require updates to your plugin. Get a sneak preview of the application architecture for HA and clustering, and learn how you can ensure your plugin is ready to run in these mission critical installations.

### Presentation Video

f Like 0 g+1 0



### Presentation Slides

# Cache sparingly and cache smarter



**Cluster locks are a  
code smell**



# Background tasks? Atlassian Scheduler





Manage add-on • Dashboard • Short link

JIRA Agile  
for JIRA Server - 6.3.4 and JIRA Cloud

Try it free →

Buy it now

★★★★★ 241  
34,033

Support Data Center

JIRA Agile unlocks the power of agile - building a backlog, delivering stories, and reporting team velocity has never been so easy

QUICK FILTERS: Product UI Server Only My Issues Recently Upd

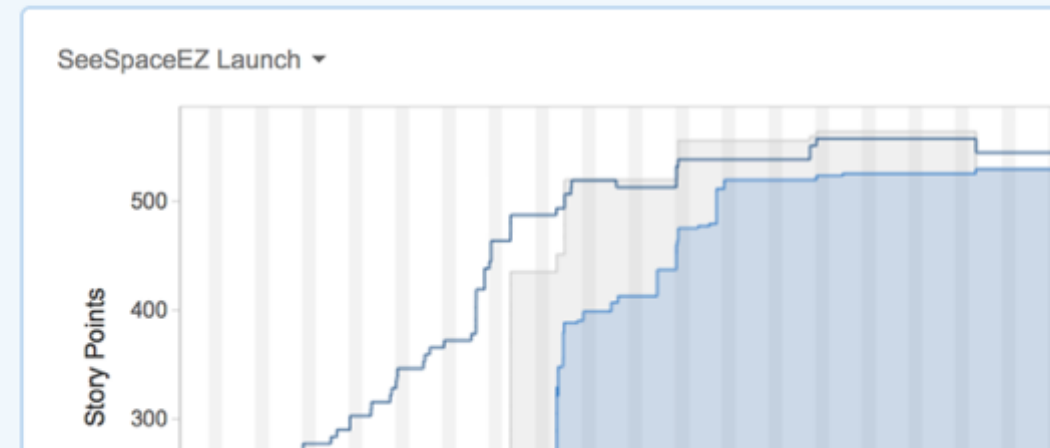
VERSIONS	EPICS
All issues	All issues
2.0	SeeSpaceEZ Plus
2.1	Space Travel Partners
2.2	Summer Saturn Sale

▼ Sprint 1 11  
31/Jul/13 5:45 PM • 30/Sep/13 5:45 PM

- TIS-9 After 100,000 requests the SeeSp 2.0 SeeSpace
- TIS-8 Requesting available flights is nov 2.0 SeeSpace
- TIS-7 500 Free when requesting a see

▼ Space Travel 4 issues

TIS-23  
↑ API support for booking SunSpot Tours



# JIRA 7 For Developers

Data Center

Web Resources

Keeping in the loop



# Web Resources



**CDN is coming**



**Watch your batch  
size**



**Make static  
resources more  
static!**



# Stateless web-resource transforms and conditions

**Available:** Atlassian Plugin Framework 3.0 and later.

JIRA and Confluence are moving to a 'stateless' delivery of JavaScript and CSS resources. Beginning with JIRA 7 and Confluence 6, **transforms and conditions should not assume that they have access to the cookie or current user** when serving CSS or JavaScript resources.

To achieve this, we have created new APIs for web-resource transforms and conditions. This page describes how to update your transforms and conditions to these new APIs.

## On this page:

- [The core problem](#)
- [How do I fix offending transforms?](#)
- [How do I fix offending conditions?](#)
- [Dual compatibility](#)

Feedback?

# JIRA 7 For Developers

Data Center

Web Resources

Keeping in the loop



# Plugin Framework Upgrade



# Deprecated method removal



# Keeping in the loop



# Preparing for JIRA 6.3

## Overview

This page is intended to be read by JIRA plugin developers to inform them of changes in JIRA 6.3 that could affect their plugins. JIRA users should consult the documentation [here](#).

It is our goal to notify you, our plugin developers, **as far in advance as possible** of everything we know about that can possibly affect your plugins. Where possible, we will attach release targets.

We will update this page as the release progresses. Please **watch this page or check back regularly** to keep on top of the changes.

## About the Early Access Program

The JIRA development team release an EAP milestone every two weeks for customers and plugin developers to keep abreast of upcoming changes. These EAP releases are available on the [JIRA Early Access Program Downloads](#) page.

### On this page:

- [Overview](#)
- [Summary of Changes](#)
- [Detailed Explanations of Changes](#)

Feedback?

- JIRA Documentation
  - JIRA 101
  - JIRA User's Guide
  - JIRA Administrator's Guide
  - JIRA Installation and Upgrade Guide
  - JIRA Releases
    - JIRA Release Summary
    - Production Releases
    - EAP Releases**
    - Security Advisories
  - JIRA Resources
  - JIRA Administrators FAQ
    - JIRA Agile Guide
  - Streamlining your development with JIRA
- Index
- Downloads (PDF, HTML & XML formats)
- JIRA Knowledge Base

# EAP Releases

An **Early Access Program (EAP) release** is a public development release leading up to the official release of a JIRA version. Development releases are a snapshot of our work in progress, primarily focused on allowing JIRA users to see the new features in advance and provide us with some useful feedback. It also gives plugin developers an opportunity to test and fix their plugins in advance of an official release.

EAP releases, which include more mature Beta and Release Candidate (RC) builds are available for [download](#) and their release notes are listed below. Your help with testing them is very much appreciated! Please log the bugs you find on <https://jira.atlassian.com> in the "JIRA" project.


**About JIRA Labs** — The **JIRA EAP** is for customers who download and install JIRA Server. The **JIRA Labs** program extends feature previews to JIRA Cloud and JIRA plugin customers as well. For information about JIRA Labs, please see [Labs Features in JIRA](#).

## EAP Release Notes


(Click the appropriate release notes version to expand the list...)

- > [JIRA 6.3 EAP Release Notes ...](#)
- > [JIRA 6.2 EAP Release Notes ...](#)
- > [JIRA 6.1 EAP Release Notes ...](#)


**Product Announcements**  
Updates, upgrades and changes to the products and services you're using. (Sent ad-hoc based on the products you own)




**Newsletter**  
A 'best of our blogs' email which delivers company and product news to your inbox (sent monthly)



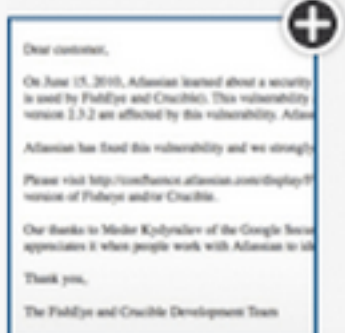
**Events**  
Invitations to Atlassian events like Summit, AtlasCamp and local user groups. For relevant updates, you must have an [Atlassian ID](#) and keep your geographical location up-to-date.



**Special Offers**  
Promotions, special offers, and suggested plugins and add-ons. (Sent ad-hoc)



**Technical Alerts**  
Security advisories and other important technical notices. (You can read our security policy [here](#).) Please select the products you're interested in. If you are the technical contact for a product, **opt-out is not recommended.**



<input type="checkbox"/> JIRA	<input type="checkbox"/> Bamboo
<input type="checkbox"/> JIRA Agile	<input type="checkbox"/> FishEye
<input type="checkbox"/> JIRA Capture	<input type="checkbox"/> Crucible
<input type="checkbox"/> Confluence	<input type="checkbox"/> Clover
<input type="checkbox"/> Crowd	<input type="checkbox"/> Stash

**Developer Updates**  
Atlassian plugin developers can get early announcements for Atlassian product releases, new tutorial announcements, SDK improvements, Plugin Exchange updates, and anything else related to our developer ecosystem. Highly recommended if you are building or have built a plugin.

HTML is fine    I prefer text email

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[Update my email preferences »](#)

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Help us test out the new Atlassian Answers, powered by Confluence Questions - Read More (last updated August 12th) →.

## Questions tagged with [jira-development]

Filter: Question Answer Sort: Recent ↓ Popular Bounties

- ✓ Can filters be used with the REST api?  
gaffe · 5 answers · 4.0k views · Nov 23 '11 at 04:03 AM [jira-development]
- Run either a JQL or Filter in groovy script  
Anand Unadkat · 1 answer · 16 views · 3 hours ago [jira] [jira-development] [jira-administration] [groovy-script-runner]
- How to create a report in eazybi wherein we can get all issues that passed in a certain transition in a particular date?  
Christian Michael Arizala · 1 answer · 51 views · Aug 08 at 07:18 AM [jira] [jira-development] [jira-administration] [addon-com.eazybi.jira.plugins.eazybi-jira]
- How to send a mail to particular group based on other custom select list value?  
Kite · 3 answers · 35 views · Aug 08 at 05:14 AM [jira] [jira-development]
- jira.issueviews:searchrequest-excel-current-fields returns the same result for different filters  
Alexander Gerner · 1 answer · 11 views · 11 hours ago [jira-development]
- Pulling active objects from a web item condition  
tzk · 2 answers · 609 views · Aug 23 '13 at 11:40 PM [jira] [jira-development]

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This Week	This Month	All Time
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2. Nic Brough		+785 karma



**The jira source code is available to eligible license holders only. Please [contact us](#) if you have any questions about accessing the source code.**

### Source Downloads

Your license entitles you to the source for the period of your license. **Do not distribute source files.**

Source may not be provided for beta releases, developer releases or release candidates, as these are not considered a stable base on which to build extensions or customisations. If you have some special requirement for the source-code of some version not listed on this page, please [contact us](#) directly.

If you have any questions about the source or its architecture, please visit [Atlassian Answers](#). If you have any questions about licensing, please [ask us](#). We're only too happy to help you out.

Version	Size	Added	Format
There are currently no source downloads available for your license. Please <a href="#">contact us</a> for further details.			

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**Want less  
maintenance?**





# Thank you!



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