



# JIRA PDF View Plugin

## Expressions Reference Manual

<http://www.midori-global.com/products/jira-pdf-view-plugin/>

This document is a complete reference of the expressions to be used in the PDF templates created for the [JIRA PDF View Plugin](#). You can use this both as a cheatsheet (just copy the references to your template!) and as a live test environment (modify and export this template). Remember to read the [customization tutorial](#), too!

Happy customizing!  
— The Midori team

<b>\$issue</b>		
<b>\$issue.affectedVersions</b>	List of the affected <a href="#">versions</a>	
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$xmlutils.escape(\$affectedVersion.name)</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Names of the affected versions	v1.0 , v1.2
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$xmlutils.escape(\$affectedVersion.description)</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Descriptions of the affected versions	Version 1.0 of Best Browser , Version 1.2 of Best Browser
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$affectedVersion.id</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Numeric identifiers of the affected versions	10100 , 10101
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$affectedVersion.projectObject</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	<a href="#">Projects</a> which the affected versions are created in. See \$project in this document for its properties. Older JIRA versions support a deprecated alternative: \$affectedVersion.project	
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$affectedVersion.releaseDate)</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Release dates of the affected versions	29/Apr/16 , 27/May/16
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$xmlutils.escape(\$affectedVersion.sequence)</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Index (sequence number) for manual ordering of the affected versions in the UI	3 , 4
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$affectedVersion.startDate)</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Start dates of the affected versions	04/May/16 , 04/May/16
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$affectedVersion.isArchived()</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Whether the affected versions are archived (true) or not (false)	false , false
<code>#foreach(\$affectedVersion in \$issue.affectedVersions)   <b>\$affectedVersion.isReleased()</b>   #ife(\$velocityCount &lt; \$issue.affectedVersions.size()), #end #end</code>	Whether the affected versions are released (true) or not (false)	false , false
<b>\$issue.assignee</b>	<a href="#">User</a> to whom the issue is currently assigned	
<code>\$xmlutils.escape(\$issue.assignee.displayName)</code>	Display name (full name) of the assignee	James Scott
<code>\$xmlutils.escape(\$issue.assignee.emailAddress)</code>	Email address of the assignee	james.scott@bossbrowser.org
<code>\$issue.assignee.isActive()</code>	Whether the assignee is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$issue.assignee.key)</code>	Unique identifier of the assignee	fenagy
<code>\$xmlutils.escape(\$issue.assignee.name)</code>	Username (login name) of the assignee	jscott
<b>\$issue.attachments</b>	List of the attached files (including thumbnailable images and all other types)	
<code>#foreach(\$attachment in \$issue.attachments)   <b>\$xmlutils.escape(\$attachment.authorKey)</b>   #ife(\$velocityCount &lt; \$issue.attachments.size()), #end #end</code>	Unique identifiers of the attachment authors	btakacs , btakacs
<code>#foreach(\$attachment in \$issue.attachments)   <b>\$attachment.authorObject</b>   #ife(\$velocityCount &lt; \$issue.attachments.size()), #end #end</code>	<a href="#">Users</a> who attached the files. See \$user in this document for its properties. Older JIRA versions support a deprecated alternative: \$attachment.author	
<code>#foreach(\$attachment in \$issue.attachments)   <b>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$attachment.created)</b>   #ife(\$velocityCount &lt; \$issue.attachments.size()), #end #end</code>	Date and time when the files were attached	24/Apr/16 8:23 PM , 24/Apr/16 8:23 PM
<code>#foreach(\$attachment in \$issue.attachments)   <b>\$xmlutils.escape(\$attachment.filename)</b>   #ife(\$velocityCount &lt; \$issue.attachments.size()), #end #end</code>	File names of the attachments	screenshot_01.jpg , screenshot_02.jpg

<code>#foreach(\$attachment in \$issue.attachments)</code> <b>\$attachment.filesize</b> <code>#if(\$velocityCount &lt; \$issue.attachments.size()), #end</code> <code>#end</code>	File sizes of the attachments (in bytes)	85620 , 86110
<code>#foreach(\$attachment in \$issue.attachments)</code> <b>\$attachment.id</b> <code>#if(\$velocityCount &lt; \$issue.attachments.size()), #end</code> <code>#end</code>	Numeric identifiers of the attachments	10200 , 10201
<code>#foreach(\$attachment in \$issue.attachments)</code> <b>\$attachment.issueId</b> <code>#if(\$velocityCount &lt; \$issue.attachments.size()), #end</code> <code>#end</code>	Numeric identifiers of the issues that the files are attached to	10300 , 10300
<code>#foreach(\$attachment in \$issue.attachments)</code> <b>\$attachment.issueObject</b> <code>#if(\$velocityCount &lt; \$issue.attachments.size()), #end</code> <code>#end</code>	<a href="#">Issues</a> that the files are attached to. See <code>\$issue</code> in this document for its properties. Older JIRA versions support a deprecated alternative: <code>\$attachment.issue</code>	
<code>#foreach(\$attachment in \$issue.attachments)</code> <b>\$attachment.mimetype</b> <code>#if(\$velocityCount &lt; \$issue.attachments.size()), #end</code> <code>#end</code>	MIME types of the attachments (e.g. "image/jpeg")	image/jpeg , image/jpeg
<code>#foreach(\$attachment in \$issue.attachments)</code> <b>\$attachment.isThumbailable()</b> <code>#if(\$velocityCount &lt; \$issue.attachments.size()), #end</code> <code>#end</code>	Whether the attachments can be displayed as thumbnail (true) or not (false)	true , true
<code>\$issue.components</code>	List of the related project <a href="#">components</a> . Older JIRA versions support a deprecated alternative: <code>\$issue.componentObjects</code>	
<code>#foreach(\$component in \$issue.components)</code> <b>\$component.assigneeType</b> <code>#if(\$velocityCount &lt; \$issue.components.size()), #end</code> <code>#end</code>	Assignee types of the components (0 for project default, 1 for component lead, 3 for unassigned)	3 , 2
<code>#foreach(\$component in \$issue.components)</code> <b>\$component.componentLead</b> <code>#if(\$velocityCount &lt; \$issue.components.size()), #end</code> <code>#end</code>	<a href="#">Users</a> who are the leads for the components. See <code>\$user</code> in this document for its properties.	
<code>#foreach(\$component in \$issue.components)</code> <b>\$xmlutils.escape(\$component.description)</b> <code>#if(\$velocityCount &lt; \$issue.components.size()), #end</code> <code>#end</code>	Component descriptions	Download Manager component of Best Browser , User Interface component of Best Browser
<code>#foreach(\$component in \$issue.components)</code> <b>\$component.id</b> <code>#if(\$velocityCount &lt; \$issue.components.size()), #end</code> <code>#end</code>	Numeric identifiers of the components	10102 , 10101
<code>#foreach(\$component in \$issue.components)</code> <b>\$xmlutils.escape(\$component.lead)</b> <code>#if(\$velocityCount &lt; \$issue.components.size()), #end</code> <code>#end</code>	Unique identifiers of the project leads for the components	fenagy , kjuhasz
<code>#foreach(\$component in \$issue.components)</code> <b>\$xmlutils.escape(\$component.name)</b> <code>#if(\$velocityCount &lt; \$issue.components.size()), #end</code> <code>#end</code>	Names of the components	Download Manager , User Interface
<code>#foreach(\$component in \$issue.components)</code> <b>\$component.projectId</b> <code>#if(\$velocityCount &lt; \$issue.components.size()), #end</code> <code>#end</code>	Numeric identifiers of the projects the components belong to	10200 , 10200
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$issue.created)</code>	Creation date	02/Apr/16 3:13 PM
<code>\$issue.creator</code>	<a href="#">User</a> who created the issue	
<code>\$xmlutils.escape(\$issue.creator.displayName)</code>	Display name (full name) of the creator	Gary Lopez
<code>\$xmlutils.escape(\$issue.creator.emailAddress)</code>	Email address of the creator	gary.lopez@bossbrowser.org
<code>\$issue.creator.isActive()</code>	Whether the creator is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$issue.creator.key)</code>	Unique identifier of the creator	btakacs
<code>\$xmlutils.escape(\$issue.creator.name)</code>	Username (login name) of the creator	glopez

<code>\$pdfRenderer.asRendered(\$issue, "description", \$issue.description)</code>	Issue description (in rendered format, for plain-text / wiki / JEditor renderers)	When attempting to download apps from the Best Browser Store, there is a problem where the app is stuck in a "Pending" state, and the download never completes.
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$issue.dueDate)</code>	Date by which the issue is scheduled to be completed	14/Apr/16
<code>\$xmlutils.escape(\$issue.environment)</code>	Environment of the issue (e.g. hardware- and software versions)	Windows 10
<code>\$issueViewUtil.getPrettyDuration(\$issue.estimate)</code>	Remaining estimate	0 minutes
<code>\$issue.fixVersions</code>	List of the fix <a href="#">versions</a>	
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$xmlutils.escape(\$fixVersion.name)   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Names of the fix versions	v1.0 , v1.2 , v1.3
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$xmlutils.escape(\$fixVersion.description)   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Descriptions of the fix versions	Version 1.0 of Best Browser , Version 1.2 of Best Browser , Version 1.3 of Best Browser
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$fixVersion.id   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Numeric identifiers of the fix versions	10100 , 10101 , 10102
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$fixVersion.projectObject   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	<a href="#">Projects</a> which the fix versions are created in.. See \$project in this document for its properties. Older JIRA versions support a deprecated alternative: \$fixVersion.project	
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$fixVersion.releaseDate)   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Release dates of the fix versions	29/Apr/16 , 27/May/16 , 17/Jun/16
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$xmlutils.escape(\$fixVersion.sequence)   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Orders in which the fix versions will appear in the UI	3 , 4 , 5
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$fixVersion.startDate)   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Start dates of the fix versions	04/May/16 , 04/May/16 , 04/May/16
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$fixVersion.isArchived()   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Whether the fix versions are archived (true) or not (false)	false , false , false
<code>#foreach(\$fixVersion in \$issue.fixVersions)   \$fixVersion.isReleased()   #ife(\$velocityCount &lt; \$issue.fixVersions.size()), #end #end</code>	Whether the fix versions are released (true) or not (false)	false , false , false
<code>\$issue.id</code>	Numeric identifier of the issue (e.g. 10003). Consider using the "key" field instead (e.g. "FOO-15").	10300
<code>\$issue.issueType</code>	<a href="#">Issue type</a> . Older JIRA versions support a deprecated alternative: \$issue.issueTypeObject	
<code>\$xmlutils.escape(\$issue.issueType.name)</code>	Issue type name (not localized)	Bug
<code>\$xmlutils.escape(\$issue.issueType.nameTranslation)</code>	Issue type name (localized)	Bug
<code>\$xmlutils.escape(\$issue.key)</code>	Unique identifier for the issue, containing the project key and the issue number (e.g. "FOO-15").	BES-1
<code>\$issue.labels</code>	List of the <a href="#">labels</a> added to the issue	
<code>#foreach(\$label in \$issue.labels)   \$label.issue   #ife(\$velocityCount &lt; \$issue.labels.size()), #end #end</code>	Numeric identifiers of the issues that the labels are added to. See \$issue in this document for its properties.	10300 , 10300
<code>#foreach(\$label in \$issue.labels)   \$label.label   #ife(\$velocityCount &lt; \$issue.labels.size()), #end #end</code>	Names of the labels	download , store

<code>\$issueViewUtil.getPrettyDuration(\$issue.originalEstimate)</code>	Original estimate	5 hours
<code>\$issue.parentObject</code>	Parent <a href="#">issue</a> (if the issue is a subtask). See <code>\$issue</code> in this document for its properties. Older JIRA versions support a deprecated alternative: <code>\$issue.parent</code>	
<code>\$issue.priority</code>	Issue <a href="#">priority</a>	
<code>\$xmlutils.escape(\$issue.priority.name)</code>	Issue priority (not localized)	Medium
<code>\$xmlutils.escape(\$issue.priority.nameTranslation)</code>	Issue priority (localized)	Medium
<code>\$issue.projectObject</code>	<a href="#">Project</a> that the issue belongs to. See <code>\$project</code> in this document for its properties. Older JIRA versions support a deprecated alternative: <code>\$issue.project</code>	
<code>\$issue.reporter</code>	<a href="#">User</a> who reported the issue	
<code>\$xmlutils.escape(\$issue.reporter.displayName)</code>	Display name (full name) of the reporter	Gary Lopez
<code>\$xmlutils.escape(\$issue.reporter.emailAddress)</code>	Email address of the reporter	gary.lopez@bossbrowser.org
<code>\$issue.reporter.isActive()</code>	Whether the reporter is active (true) or inactive (false)	true
<code>\$issue.reporter.key</code>	Unique identifier of the reporter	btakacs
<code>\$xmlutils.escape(\$issue.reporter.name)</code>	Username (login name) of the reporter	glopez
<code>\$issue.resolution</code>	Issue <a href="#">resolution</a> . Older JIRA versions support a deprecated alternative: <code>\$issue.resolutionObject</code>	
<code>\$xmlutils.escape(\$issue.resolution.name)</code>	Issue resolution name (not localized)	Fixed
<code>\$xmlutils.escape(\$issue.resolution.nameTranslation)</code>	Issue resolution name (localized)	Fixed
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$issue.resolutionDate)</code>	Date and time on which the issue was resolved	03/Apr/16 11:48 AM
<code>\$issue.status</code>	Issue <a href="#">status</a> . Older JIRA versions support a deprecated alternative: <code>\$issue.statusObject</code>	
<code>\$xmlutils.escape(\$issue.status.name)</code>	Issue status name (not localized)	Done
<code>\$xmlutils.escape(\$issue.status.nameTranslation)</code>	Issue status name (localized)	Done
<code>\$issue.subTaskObjects</code>	List of the subtasks ( <a href="#">issues</a> ). See <code>\$issue</code> in this document for its properties. Older JIRA versions support a deprecated alternative: <code>\$issue.subTasks</code>	
<code>\$xmlutils.escape(\$issue.summary)</code>	Issue summary	Downloads are pending
<code>\$issueViewUtil.getPrettyDuration(\$issue.timeSpent)</code>	Total time spent on the issue	5 hours
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$issue.updated)</code>	Date and time on which the issue was last edited	04/May/16 4:29 PM
<code>\$issue.votes</code>	Number of votes	1
<code>\$issue.watches</code>	Number of watches (number of users who'll be notified on updates)	3
<code>\$issue.isSubTask()</code>	Whether this is a subtask (true) or a top-level issue (false)	false
<b><code>\$user</code> (applicable to any user type object, like issue assignees, creators, etc.)</b>		
<code>\$xmlutils.escape(\$user.displayName)</code>	Display name (full name) of the user	James Scott
<code>\$xmlutils.escape(\$user.emailAddress)</code>	Email address of the user	james.scott@bossbrowser.org
<code>\$xmlutils.escape(\$user.key)</code>	Unique identifier of the user	fenagy
<code>\$xmlutils.escape(\$user.name)</code>	Username (login name)	jscott
<code>\$user.isActive()</code>	Whether the user is active (true) or inactive (false)	true
<b><code>\$project</code></b>		
<code>\$project.assigneeType</code>	Default assignee of the issues in the project (0 for project default, 2 for project lead, 3 for unassigned)	3
<code>\$xmlutils.escape(\$project.description)</code>	Project description	This project is for Best Browser application.
<code>\$xmlutils.escape(\$project.email)</code>	Project email address from which email notifications are sent (or blank if there is no project-specific email address set)	info2@bestbrowser.org
<code>\$project.id</code>	Numeric identifier of the project	10200
<code>\$project.issueTypes</code>	List of the <a href="#">issue types</a> for the project.	
<code>#foreach(\$issueType in \$project.issueTypes)</code> <b><code>\$xmlutils.escape(\$issueType.name)</code></b> <code>#if(\$velocityCount &lt; \$project.issueTypes.size()), #end</code>	Issue type names (not localized)	Improvement , Task , Sub-task , New Feature , Bug

#end		
#foreach(\$issueType in \$project.issueTypes) <b>\$xmlutils.escape(\$issueType.nameTranslation)</b> #if(\$velocityCount < \$project.issueTypes.size()), #end #end	Issue type names (localized)	Improvement , Task , Sub-task , New Feature , Bug
\$xmlutils.escape(\$project.key)	Unique identifier of the project	BES
\$xmlutils.escape(\$project.leadUserKey)	Unique identifier of the project lead	fenagy
\$xmlutils.escape(\$project.leadUserName)	Username of the project lead	jscott
\$xmlutils.escape(\$project.name)	Project name	BestBrowser
\$xmlutils.escape(\$project.originalKey)	Project key with which the project was originally created	BES
\$project.projectCategoryObject	<a href="#">Project category</a> . Older JIRA versions support a deprecated alternative: \$project.projectCategory	
\$xmlutils.escape(\$project.projectCategoryObject.description)	Description of the project category	Category for applications that have desktop version.
\$project.projectCategoryObject.id	Numeric identifier of the project category	10100
\$xmlutils.escape(\$project.projectCategoryObject.name)	Name of the project category	Desktop
\$project.projectComponents	List of the <a href="#">project components</a> . Older JIRA versions support a deprecated alternative: \$project.components	
#foreach(\$component in \$project.projectComponents) <b>\$component.assigneeType</b> #if(\$velocityCount < \$project.projectComponents.size()), #end #end	Assignee types of the components (0 for project default, 1 for component lead, 3 for unassigned)	2 , 3 , 2
#foreach(\$component in \$project.projectComponents) <b>\$component.componentLead</b> #if(\$velocityCount < \$project.projectComponents.size()), #end #end	<a href="#">Users</a> who are the leads for the components. See \$user in this document for its properties.	
#foreach(\$component in \$project.projectComponents) <b>\$xmlutils.escape(\$component.description)</b> #if(\$velocityCount < \$project.projectComponents.size()), #end #end	Component descriptions	Database component of Best Browser , Download Manager component of Best Browser , User Interface component of Best Browser
#foreach(\$component in \$project.projectComponents) <b>\$component.id</b> #if(\$velocityCount < \$project.projectComponents.size()), #end #end	Numeric identifiers of the components	10100 , 10102 , 10101
#foreach(\$component in \$project.projectComponents) <b>\$xmlutils.escape(\$component.lead)</b> #if(\$velocityCount < \$project.projectComponents.size()), #end #end	Unique identifiers of the project leads for the components	akovacs , fenagy , kjuhasz
#foreach(\$component in \$project.projectComponents) <b>\$xmlutils.escape(\$component.name)</b> #if(\$velocityCount < \$project.projectComponents.size()), #end #end	Names of the components	Database , Download Manager , User Interface
#foreach(\$component in \$project.projectComponents) <b>\$component.projectId</b> #if(\$velocityCount < \$project.projectComponents.size()), #end #end	Numeric identifiers of the projects that the components belong to	10200 , 10200 , 10200
\$project.projectLead	<a href="#">User</a> who is the leader of the project. Older JIRA versions support a deprecated alternative: \$project.lead	
\$xmlutils.escape(\$project.projectLead.displayName)	Display name (full name) of the project lead	James Scott
\$xmlutils.escape(\$project.projectLead.emailAddress)	Email address of the project lead	james.scott@bossbrowser.org
\$project.projectLead.isActive()	Whether the project lead is active (true) or inactive (false)	true
\$xmlutils.escape(\$project.projectLead.key)	Unique identifier of the project lead	fenagy
\$xmlutils.escape(\$project.projectLead.name)	Username (login name) of the project lead	jscott
\$project.projectTypeKey	Unique identifier of the project type ( <a href="#">project type key</a> )	
\$xmlutils.escape(\$project.projectTypeKey.key)	Unique identifier of the project type	software
\$xmlutils.escape(\$project.url)	Project URL	http://www.bestbrowser.org
\$project.versions	List of the <a href="#">versions</a> of the project	
#foreach(\$version in \$project.versions)	Names of the versions	v0.1 , v0.2 , v1.0 , v1.2 , v1.3



<b><code>\$xmlutils.escape(\$version.name)</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end		
#foreach(\$version in \$project.versions) <b><code>\$xmlutils.escape(\$version.description)</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	Descriptions of the versions	Pre-Beta version of Best Browser , Beta version of Best Browser , Version 1.0 of Best Browser , Version 1.2 of Best Browser , Version 1.3 of Best Browser
#foreach(\$version in \$project.versions) <b><code>\$version.id</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	Numeric identifiers of the versions	10104 , 10103 , 10100 , 10101 , 10102
#foreach(\$version in \$project.versions) <b><code>\$version.projectObject</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	<a href="#">Projects</a> that the versions relate to. See <code>\$project</code> in this document for its properties. Older JIRA versions support a deprecated alternative: <code>\$version.project</code>	
#foreach(\$version in \$project.versions) <b><code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$version.releaseDate)</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	Release dates of the versions	29/Jan/16 , 25/Mar/16 , 29/Apr/16 , 27/May/16 , 17/ Jun/16
#foreach(\$version in \$project.versions) <b><code>\$xmlutils.escape(\$version.sequence)</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	Orders in which the versions will appear in the UI	1 , 2 , 3 , 4 , 5
#foreach(\$version in \$project.versions) <b><code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$version.startDate)</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	Start dates of the versions	04/May/16 , 04/May/16 , 04/May/16 , 04/May/16 , 04/ May/16
#foreach(\$version in \$project.versions) <b><code>\$version.isArchived()</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	Whether the versions are archived (true) or not (false)	true , false , false , false , false
#foreach(\$version in \$project.versions) <b><code>\$version.isReleased()</code></b> #if(\$velocityCount < \$project.versions.size()), #end #end	Whether the versions are released (true) or not (false)	false , true , false , false , false
<b><code>\$version</code></b> (applicable to any version type object, like affected- and fix versions)		
<code>\$xmlutils.escape(\$version.description)</code>	Version description	Pre-Beta version of Best Browser
<code>\$version.id</code>	Numeric identifier of the version	10104
<code>\$xmlutils.escape(\$version.name)</code>	Version name	v0.1
<code>\$version.projectObject</code>	<a href="#">Project</a> that the version belongs to. See <code>\$project</code> in this document for its properties. Older JIRA versions support a deprecated alternative: <code>\$version.project</code>	
<code>\$version.projectId</code>	Identifier of the project that the version belongs to	10200
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$version.releaseDate)</code>	Release date of the version	29/Jan/16
<code>\$version.sequence</code>	Order in which the version will appear in the UI	1
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.DATE).format(\$version.startDate)</code>	Start date of the version	04/May/16
<code>\$version.isArchived()</code>	Whether the version is archived (true) or not (false)	true
<code>\$version.isReleased()</code>	Whether the version is released (true) or not (false)	false
<b><code>\$attachment</code></b>		
<code>\$xmlutils.escape(\$attachment.authorKey)</code>	Unique identifier of the attachment author	btakacs
<code>\$attachment.authorObject</code>	<a href="#">User</a> who attached the file. Older JIRA versions support a deprecated alternative: <code>\$attachment.author</code>	
<code>\$xmlutils.escape(\$attachment.authorObject.displayName)</code>	Display name (full name) of the attachment author	Gary Lopez
<code>\$xmlutils.escape(\$attachment.authorObject.emailAddress)</code>	Email address of the attachment author	gary.lopez@bossbrowser.org
<code>\$attachment.authorObject.isActive()</code>	Whether the attachment author is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$attachment.authorObject.key)</code>	Unique identifier of the attachment author	btakacs
<code>\$xmlutils.escape(\$attachment.authorObject.name)</code>	Username (login name) of the attachment author	glopez

<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$attachment.created)</code>	Date and time when the file was attached	24/Apr/16 8:23 PM
<code>\$xmlutils.escape(\$attachment.filename)</code>	File name of the attachment	screenshot_01.jpg
<code>\$attachment.filesize</code>	File size of the attachment (in bytes)	85620
<code>\$attachment.id</code>	Numeric identifier of the attachment	10200
<code>\$attachment.issue</code>	<a href="#">Issue</a> that the file is attached to. See <code>\$issue</code> in this document for its properties. <code>\$attachment.issueObject</code> should be used instead.	
<code>\$attachment.issueId</code>	Numeric identifier of the issue that the file is attached to	10300
<code>\$attachment.issueObject</code>	<a href="#">Issue</a> that the file is attached to. See <code>\$issue</code> in this document for its properties.	
<code>\$xmlutils.escape(\$attachment.mimetype)</code>	MIME type of the attachment (e.g. "image/jpeg")	image/jpeg
<code>\$attachment.isThumbnailable()</code>	Whether the attachment can be displayed as thumbnail (typically image attachments) (true) or not (false)	true
<b>\$worklog</b>		
<code>\$xmlutils.escape(\$worklog.authorKey)</code>	Unique identifier of the worklog author. Older JIRA versions support a deprecated alternative: <code>\$worklog.author</code>	fenagy
<code>\$worklog.authorObject</code>	<a href="#">User</a> who created the worklog	
<code>\$xmlutils.escape(\$worklog.authorObject.displayName)</code>	Display name (full name) of the worklog author. Older JIRA versions support a deprecated alternative: <code>\$worklog.authorFullName</code>	James Scott
<code>\$xmlutils.escape(\$worklog.authorObject.emailAddress)</code>	Email address of the worklog author	james.scott@bossbrowser.org
<code>\$worklog.authorObject.isActive()</code>	Whether the worklog author is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$worklog.authorObject.key)</code>	Unique identifier of the worklog author	fenagy
<code>\$xmlutils.escape(\$worklog.authorObject.name)</code>	Username (login name) of the worklog author	jscott
<code>\$xmlutils.escape(\$worklog.comment)</code>	Worklog comment	Finding root cause of the problem.
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$worklog.created)</code>	Date and time when the worklog was created	03/Apr/16 11:42 AM
<code>\$xmlutils.escape(\$worklog.groupLevel)</code>	Group level visibility of the worklog. Only users in this group can see the worklog (e.g. "jira-developers").	
<code>\$worklog.id</code>	Numeric identifier of the worklog	10100
<code>\$worklog.issue</code>	<a href="#">Issue</a> that the worklog belongs to. See <code>\$issue</code> in this document for its properties.	
<code>\$worklog.roleLevel</code>	<a href="#">Role</a> level visibility of the worklog. Only users with this project role can see the worklog (e.g. "jira-administrators").	
<code>\$xmlutils.escape(\$worklog.roleLevel.description)</code>	Description of the project role	A project role that represents administrators in a project
<code>\$worklog.roleLevel.description</code>	Numeric identifier of the project role	10002
<code>\$xmlutils.escape(\$worklog.roleLevel.name)</code>	Name of the project role	Administrators
<code>\$worklog.roleLevelId</code>	Numeric identifier of the role level visibility of the worklog	10002
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$worklog.startDate)</code>	Date and time when the work to be logged was started	03/Apr/16 11:41 AM
<code>\$issueViewUtil.getPrettyDuration(\$worklog.timeSpent)</code>	Time spent on the work	2 hours
<code>\$xmlutils.escape(\$worklog.updateAuthorKey)</code>	Unique identifier of the user who made the latest update on the worklog. Older JIRA versions support a deprecated alternative: <code>\$worklog.updateAuthor</code>	fenagy
<code>\$worklog.updateAuthorObject</code>	<a href="#">User</a> who made the latest update on the worklog	
<code>\$xmlutils.escape(\$worklog.updateAuthorObject.displayName)</code>	Display name (full name) of the worklog updater. Older JIRA versions support a deprecated alternative: James Scott	James Scott
<code>\$xmlutils.escape(\$worklog.updateAuthorObject.emailAddress)</code>	Email address of the worklog updater	james.scott@bossbrowser.org
<code>\$worklog.updateAuthorObject.isActive()</code>	Whether the worklog updater is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$worklog.updateAuthorObject.key)</code>	Unique identifier of the worklog updater	fenagy
<code>\$xmlutils.escape(\$worklog.updateAuthorObject.name)</code>	Username (login name) of the worklog updater	jscott
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$worklog.updated)</code>	Date and time of latest update	05/Apr/16 6:38 PM
<b>\$comment</b>		
<code>\$comment.authorApplicationUser</code>	<a href="#">User</a> who written the comment	
<code>\$xmlutils.escape(\$comment.authorApplicationUser.displayName)</code>	Display name (full name) of the comment author	Gary Lopez



<code>\$xmlutils.escape(\$comment.authorApplicationUser.emailAddress)</code>	Email address of the comment author	gary.lopez@bossbrowser.org
<code>\$comment.authorApplicationUser.isActive()</code>	Whether the comment author is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$comment.authorApplicationUser.key)</code>	Unique identifier of the comment author	btakacs
<code>\$xmlutils.escape(\$comment.authorApplicationUser.name)</code>	Username (login name) of the comment author	glopez
<code>\$xmlutils.escape(\$comment.authorFullName)</code>	Display name (full name) of the comment author	Gary Lopez
<code>\$xmlutils.escape(\$comment.body)</code>	Comment body text	The problem described above is visible in the attaced screenshot.
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$comment.created)</code>	Creation date	02/Apr/16 6:57 PM
<code>\$xmlutils.escape(\$comment.groupLevel)</code>	Group level visibility of the comment. Only users in this group can see the worklog (e.g. "jira-developers").	
<code>\$comment.id</code>	Numeric identifier of the comment	10100
<code>\$comment.issue</code>	<a href="#">Issue</a> that the comment belongs to See <code>\$issue</code> in this document for its properties	
<code>\$comment.roleLevel</code>	<a href="#">Role</a> level visibility of the comment. Only users with this project role can see the worklog (e.g. "jira-administrators").	
<code>\$xmlutils.escape(\$comment.roleLevel.description)</code>	Description of the project role	A project role that represents developers in a project
<code>\$comment.roleLevel.id</code>	Numeric identifier of the project role	10001
<code>\$xmlutils.escape(\$comment.roleLevel.name)</code>	Name of the project role	Developers
<code>\$comment.roleLevelId</code>	Numeric identifier of the role level visibility of the comment	10001
<code>\$comment.updateAuthorApplicationUser</code>	<a href="#">User</a> who made the latest update	
<code>\$xmlutils.escape(\$comment.updateAuthorApplicationUser.displayName)</code>	Display name (full name) of the comment editor	Gary Lopez
<code>\$xmlutils.escape(\$comment.updateAuthorApplicationUser.emailAddress)</code>	Email address of the comment editor	gary.lopez@bossbrowser.org
<code>\$comment.updateAuthorApplicationUser.isActive()</code>	Whether the comment editor is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$comment.updateAuthorApplicationUser.key)</code>	Unique identifier of the comment editor	btakacs
<code>\$xmlutils.escape(\$comment.updateAuthorApplicationUser.name)</code>	Username (login name) of the comment editor	glopez
<code>\$xmlutils.escape(\$comment.updateAuthorFullName)</code>	Full name of the comment editor	Gary Lopez
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$comment.updated)</code>	Date and time of latest update	02/Apr/16 6:57 PM
<b>\$changeHistory</b>		
<code>\$xmlutils.escape(\$changeHistory.authorDisplayName)</code>	Display name (full name) of the author of the change. Older JIRA versions support a deprecated alternative: <code>\$changeHistory.fullName</code>	James Scott
<code>\$xmlutils.escape(\$changeHistory.authorKey)</code>	Unique identifier of the author of the change. Older JIRA versions support a deprecated alternative: <code>\$changeHistory.author</code>	fenagy
<code>\$changeHistory.authorObject</code>	<a href="#">User</a> who made the changes. Older JIRA versions support a deprecated alternative: <code>\$changeHistory.authorUser</code>	
<code>\$xmlutils.escape(\$changeHistory.authorObject.displayName)</code>	Display name (full name) of the author of the change	James Scott
<code>\$xmlutils.escape(\$changeHistory.authorObject.emailAddress)</code>	Email address of the author of the change	james.scott@bossbrowser.org
<code>\$changeHistory.authorObject.isActive()</code>	Whether the author of the change is active (true) or inactive (false)	true
<code>\$xmlutils.escape(\$changeHistory.authorObject.key)</code>	Unique identifier of the author of the change	fenagy
<code>\$xmlutils.escape(\$changeHistory.authorObject.name)</code>	Username (login name) of the author of the change. Older JIRA versions support a deprecated alternative: <code>\$changeHistory.userName</code>	jscott
<b>\$changeHistory.changeItemBeans</b>		
<code>#foreach(\$changeItemBean in \$changeHistory.changeItemBeans)</code> <b><code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$changeItemBean.created)</code></b> <code>#if(\$velocityCount &lt; \$changeHistory.changeItemBeans.size()), #end</code> <code>#end</code>	Date and time of the change	25/Apr/16 11:17 PM
<code>#foreach(\$changeItemBean in \$changeHistory.changeItemBeans)</code> <b><code>\$xmlutils.escape(\$changeItemBean.field)</code></b> <code>#if(\$velocityCount &lt; \$changeHistory.changeItemBeans.size()), #end</code> <code>#end</code>	Changed field	priority
<code>#foreach(\$changeItemBean in \$changeHistory.changeItemBeans)</code> <b><code>\$xmlutils.escape(\$changeItemBean.fieldType)</code></b> <code>#if(\$velocityCount &lt; \$changeHistory.changeItemBeans.size()), #end</code> <code>#end</code>	Type of the changed field	jira

<code>#foreach(\$changeltemBean in \$changeHistory.changeltemBeans)   \$xmlutils.escape(\$changeltemBean.from)   #if(\$velocityCount &lt; \$changeHistory.changeltemBeans.size()), #end #end</code>	Value before the change. See also <code>\$changeltemBean.fromString</code>	2
<code>#foreach(\$changeltemBean in \$changeHistory.changeltemBeans)   \$xmlutils.escape(\$changeltemBean.fromString)   #if(\$velocityCount &lt; \$changeHistory.changeltemBeans.size()), #end #end</code>	Value before the change. See also <code>\$changeltemBean.from</code>	High
<code>#foreach(\$changeltemBean in \$changeHistory.changeltemBeans)   \$xmlutils.escape(\$changeltemBean.to)   #if(\$velocityCount &lt; \$changeHistory.changeltemBeans.size()), #end #end</code>	Value after the change. See also <code>\$changeltemBean.toString</code>	3
<code>#foreach(\$changeltemBean in \$changeHistory.changeltemBeans)   \$xmlutils.escape(\$changeltemBean.toString)   #if(\$velocityCount &lt; \$changeHistory.changeltemBeans.size()), #end #end</code>	Value after the change. See also <code>\$changeltemBean.to</code>	Medium
<code>\$changeHistory.id</code>	Numeric identifier of the change	11000
<code>\$changeHistory.issue</code>	<a href="#">Issue</a> that the change belongs to. See <code>\$issue</code> in this document for its properties.	
<code>\$changeHistory.issuelid</code>	Numeric identifier of the issue that the change belongs to	10300
<code>\$dateFormatter.forLoggedInUser().withStyle(\$dateTimeStyle.COMPLETE).format(\$changeHistory.timePerformed)</code>	Date and time of the change	25/Apr/16 11:17 PM
<code>\$thumbnail</code>		
<code>\$thumbnail.attachmentId</code>	Numeric identifier of the attachment for which this is a thumbnail of	10200
<code>\$xmlutils.escape(\$thumbnail.filename)</code>	File name of the file this thumbnail represents	_thumb_10200.png
<code>\$thumbnail.height</code>	Thumbnail height (in pixels)	163
<code>\$xmlutils.escape(\$thumbnail.mimeType.toString())</code>	MIME type of the thumbnail (e.g. "image/jpeg")	image/png
<code>\$thumbnail.width</code>	Thumbnail width (in pixels)	200
<code>\$issueLink</code>		
<code>\$issueLink.destinationId</code>	Identifier of the linked-to issue	10301
<code>\$issueLink.destinationObject</code>	Destination <a href="#">issue</a> of the issue link. See <code>\$issue</code> in this document for its properties	
<code>\$issueLink.id</code>	Issue link identifier	10400
<code>\$issueLink.issueLinkType</code>	<a href="#">Issue link type</a>	
<code>\$issueLink.issueLinkType.id</code>	Numeric identifier of the issue link type	10003
<code>\$xmlutils.escape(\$issueLink.issueLinkType.inward)</code>	Inward name of the issue link type (e.g. "duplicates")	relates to
<code>\$xmlutils.escape(\$issueLink.issueLinkType.name)</code>	Name of the issue link type	Relates
<code>\$xmlutils.escape(\$issueLink.issueLinkType.outward)</code>	Outward name of the issue link type (e.g. "is duplicated by")	relates to
<code>\$xmlutils.escape(\$issueLink.issueLinkType.style)</code>	Style name of the issue link type	
<code>\$issueLink.issueLinkType.isSubTaskLinkType()</code>	Whether the issue link type is a subtask link (true) or not (false)	false
<code>\$issueLink.issueLinkType.isSystemLinkType()</code>	Whether the link type is a system link type (true) or a non-system link type (false)	false
<code>\$issueLink.linkTypeId</code>	Numeric identifier of the link type	10003
<code>\$issueLink.sequence</code>	Order in which the issue link will appear in the UI	<code>\$issueLink.sequence</code>
<code>\$issueLink.sourceId</code>	Numeric identifier of the source issue of the issue link	10300
<code>\$issueLink.sourceObject</code>	Source <a href="#">issue</a> of the issue link. See <code>TemplateIssue[issue=DocumentIssueImpl[issueKey=BES-1]]</code> in this document for its properties.	
<code>\$issueLink.isSystemLink()</code>	Whether the link is a system link (true) or a non-system link (false)	false
<code>\$remotelIssueLink</code>		
<code>\$xmlutils.escape(\$remotelIssueLink.applicationName)</code>	Name of the remote application instance that contains the remote object	My Acme Tracker
<code>\$xmlutils.escape(\$remotelIssueLink.applicationType)</code>	Type of remote application that we are linking with	com.acme.tracker
<code>\$xmlutils.escape(\$remotelIssueLink.globalId)</code>	Numeric identifier of the object in the remote application	system=http://www.mycompany.com/support&id=1
<code>\$xmlutils.escape(\$remotelIssueLink.iconTitle)</code>	Tool tip text for the icon	Support Ticket

<code>\$xmlutils.escape(\$remotelIssueLink.iconUrl)</code>	URL for the icon which represents the remote object	<a href="http://www.openwebgraphics.com/resources/data/3321/16x16_voice-support.png">http://www.openwebgraphics.com/resources/data/3321/16x16_voice-support.png</a>
<code>\$remotelIssueLink.id</code>	Numeric identifier of the link	10102
<code>\$remotelIssueLink.issueId</code>	Identifier of the issue we are linking with	10300
<code>\$xmlutils.escape(\$remotelIssueLink.relationship)</code>	Relationship between the issue and the remote object	causes
<code>\$xmlutils.escape(\$remotelIssueLink.statusCategoryColorName)</code>	Category color name for the status of the remote object	
<code>\$xmlutils.escape(\$remotelIssueLink.statusCategoryKey)</code>	Category key for the status of the remote object	
<code>\$xmlutils.escape(\$remotelIssueLink.statusDescription)</code>	Description for the status of the remote object	
<code>\$xmlutils.escape(\$remotelIssueLink.statusIconLink)</code>	Hyperlink for the status icon of the remote object	<a href="http://www.mycompany.com/support?id=1&amp;details=closed">http://www.mycompany.com/support?id=1&amp;details=closed</a>
<code>\$xmlutils.escape(\$remotelIssueLink.statusIconTitle)</code>	Tool tip text for the status icon of the remote object	Case Closed
<code>\$xmlutils.escape(\$remotelIssueLink.statusIconUrl)</code>	URL for an icon representing the status of the remote object	<a href="http://www.openwebgraphics.com/resources/data/47/accept.png">http://www.openwebgraphics.com/resources/data/47/accept.png</a>
<code>\$xmlutils.escape(\$remotelIssueLink.statusName)</code>	Status of the remote object	
<code>\$xmlutils.escape(\$remotelIssueLink.summary)</code>	Summary of the remote object	Crazy customer support issue
<code>\$xmlutils.escape(\$remotelIssueLink.title)</code>	Title of the remote object	TSTSUP-111
<code>\$xmlutils.escape(\$remotelIssueLink.url)</code>	URL to the object in the remote application	<a href="http://www.mycompany.com/support?id=1">http://www.mycompany.com/support?id=1</a>
<code>\$remotelIssueLink.hasStatusCategory()</code>	Whether the remote object has status category (true) or not (false)	false
<code>\$remotelIssueLink.isResolved()</code>	Whether the remote object is resolved (true) or not (false)	true
<b>#cfValue() macro for custom field values</b>		
<code>#cfValue(\$issue.getCustomField("customfield_10301"))</code>	Formatted value of the custom field with the numeric identifier 10000	100
<code>#cfValue(\$customFieldManager.getCustomFieldObjectByName("Business Value"))</code>	Formatted value of the custom field with the name "Business Value" (assumes that the issue is available as \$issue)	100
<code>#set(\$customFields = \$customFieldManager.getCustomFieldObjects(\$issue)) #if(!\$customFields.empty)   #foreach(\$customField in \$customFields)     \$xmlutils.escape(\$customField.name): #cfValue(\$customField)   #end #end</code>	Formatted value of all custom fields associated with the issue	Business Value: 100 Epic Link: Rank: 0 i00007: Sprint: issueFunction: