

Manage Small and Medium projects with JIRA WBS Gantt Chart Plugin

White Area Lectures - June 2019 Maria Alandes – IT/CDA

Outline

- JIRA Introduction
- Planning and Scheduling tips
- WBS Gantt Chart



Some questions

- Who is a MS Project user?
- Who has followed MS Project courses?
- Who has followed Open SE courses?
- Who needs planning and scheduling to do their job?
- Who uses already JIRA?
- Who uses a tool for planning and scheduling different from MS Project/JIRA?
- Which one?



Some words about JIRA



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JIRA Introduction

- What is JIRA?
 - Gojira \rightarrow Japanese word for Godzilla
 - Issue Tracking and Project Management
 - Developed by Atlassian
 - CERN runs JIRA 8.0.2 in https://its.cern.ch
 - Three products
 - JIRA Core
 - JIRA Software
 - JIRA Service Desk
 - CERN has unlimited number of licenses for JIRA Software Licenses that contains JIRA Core



WBS Gantt-Chart plugin

- What is Gantt-Chart plugin?
 - Third Party tool developed by Ricksoft
 - It provides visual project planning through Gantt charts
 - Some interesting functionality
 - Task dependencies with drag-and-drop interface
 - Modify schedules and dependent issues update automatically
 - Smart workload allocation with resource monitoring
 - Critical path
 - Baseline plan
 - CERN has now unlimited number of licenses for this plugin
 - CERN runs now version 9.9



JIRA Basics

- JIRA issues
 - JIRA building blocks
 - They could represent a story, a bug, a task, or another issue type in your project
 - For planning and scheduling
 - We will use them as <u>tasks</u>
 - Issues = Tasks or sub-tasks from now on
 - Tasks and sub-tasks are treated in the same way

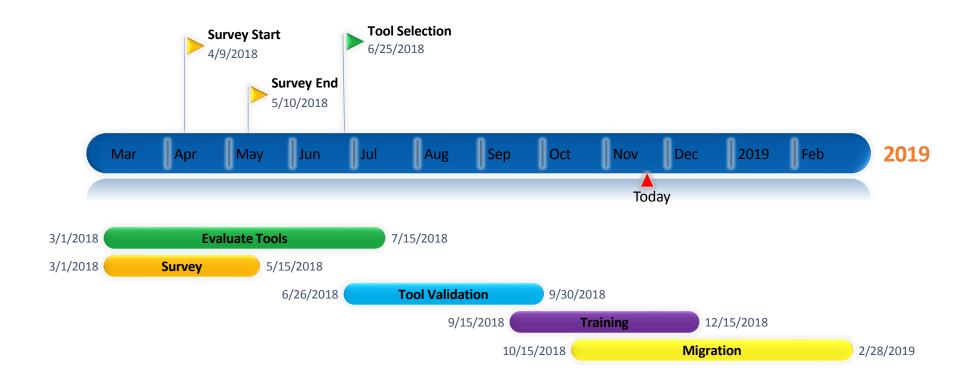


Planning and scheduling tips



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Project Master Schedule





Project Master Schedule

- Starting point before defining the coordination schedule (Gantt Chart)
- The master schedule is a summary
- It should be intuitive
- It should contain the whole project overview
- Starting from the main phases of the master schedule, the remaining tasks can be defined



WBS Gantt-Chart



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Create a JIRA Project

https://cernforge.web.cern.ch/jira

JIRA 🖌 SVN 🖌

Create new project List my projects List all projects

Map/Sync e-group

LINKED REPOSITORIES

Permission Schemes

Notification Schemes

Issue Security Schemes

Show linked repositories

Sync project

Link repository

SUPPORT

Service

Categories

FAQ

ACTIONS

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all the options

JIRA Gantt-Chart Tutorial

Basic

Send Request

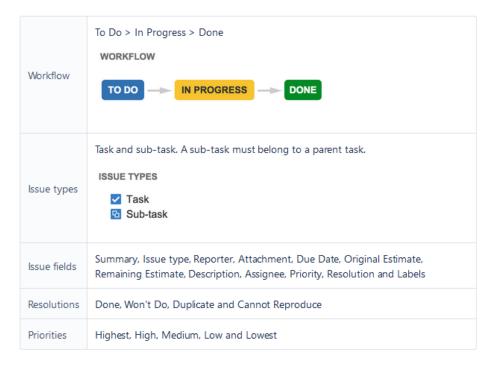
Project Template

- Projects should be created with:
 - <u>Project</u>
 <u>Management</u>
 <u>template</u>
- More information about project templates:

https://cern.servicenow.com/serviceportal/article.do?n=KB0005975

Project management

The project management project offers a slightly more robust workflow, allowing you to work on bigger items by offering a workflow that has an In Progress status. This allows you to start work on a task, and keep working in it until it's complete. Track your work in JIRA Core by using ur built in reporting, your dashboard, and custom filters based on your searches.





Who will be notified in your project

- Projects are created with:
 - Default notification scheme
- You can change this in: <u>https://cernforge.web.cern.ch/jira/myprojects/</u>
- For more details on notification schemes: <u>https://cernforge.web.cern.ch/jira/notificationschemes/</u>



Task workflow

- Projects are created by default with the workflow defined in the Project Template
- However, the workflow can be reconfigured
 - For more information please check: <u>https://cern.service-now.com/service-portal/article.do?n=KB0002999</u>

Learn more also about board workflows

https://cern.service-now.com/service-portal/article.do?n=KB0001729

• You can create your own workflow in the board configuration by adding status and columns



To display Gantt Chart fields

- Projects should be created with:
 - Project management issue type screen scheme
 - This allows to display Gantt Chart fields in the JIRA task
- This screen type is available for all project templates
 - Not only for Project Management template!
- For existing projects
 - Open a SNOW ticket requesting this type of screen to be activated for your project



Who can watch your Gantt

- Projects are created with:
 - Default Permission Scheme
 - This means the project is only visible to project members
 - The same for the Gantt Chart
- You can change this in: <u>https://cernforge.web.cern.ch/jira/myprojects/</u>
- For more details on permission schemes:
 <u>https://cernforge.web.cern.ch/jira/permissionschemes/0/</u>



Create a Gantt Chart

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	Online document		Gantt name	GANTT example	
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			the created Gantt.		
					Create Cancel



Add Tasks Edit the values directly here or in the JIRA classic view Santt: GANTT example Ö, Add 😣 Delete 🔻 🖌 Edit 👻 O View -🗘 Data 👻 « » Month 👻 Today Save 2018 0 Project / Version / Issue Finish date Durati... Perce... Assignee Units Priority Start date 1 ec 2018 Jan 2019 Feb 2019 Mar 2019 Apr 2019 🔻 🥥 Gantt Test 1 1 0% 1-1 Evaluation Phase 0 Maria Al. 0% Maria Alandes Pradillo 100% Minor 17/Dec/18 18/Jan/19 25 days hase Task Name ISSUE Gantt Test 1 / GANTT1-1 \mathbf{O} × Bug **Evaluation Phase** Assignee 4 Epic 🖌 Edit Q Comment Assign More 🗙 To Do In Progress Workflow 🗙 < 🚹 Export 🗸 % of time Details People Improvement Т allocated to Task Type: Assignee: New Feature TO DO (View Workflow) +Status: 💿 Maria Alandes Pradillo the task ➤ Minor Priority: Reporter: Unresolved Resolution: Maria Alandes Pradillo Labels: None Start and Sub-task Votes: 0 Description Finish date or Click to add description Watchers: Version 1 Stop watching this issue Duration Attachments ... Copy Dates Drop files to attach, or browse. Percentage Created: Issue 15 minutes ago completed Issue and all child issues Sub-Tasks + … Updated: 11 minutes ago Activity Agile All Comments Work Log History Activity View on Board Subversion

CERN

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JIRA Gantt-Chart Tutorial

There are no comments yet on this issue.

Gantt Chart Fields

- Note that Gantt Chart fields are visible in the task only if the project was created with the right screen template
- The fields are displayed in the task screen only if they have some value:
 - Edit the task
 - Check the Gantt tab
 - Fill in the fields

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	20/Nov/18			
Start date (WBSGantt)	20/Nov/18			
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Finish date (WBSGantt)	26/Dec/18			
(WDSGantt)	Finish date in WBS Gantt-Chart			
Baseline start date				
(WBSGantt)	Baseline start date in WBS Gantt-Chart			
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(WBSGantt)	Baseline finish date in WBS Gantt-Chart			
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Gantt Chart

related fields



Task depencies

- The easiest is to drag and drop directly in the Gantt chart to create task dependencies
 - Start to End
 - End to Start
 - Start to Start
 - End to End
- In the Edit Menu you can also
 - Indent/Outdent to modify the task hierarchy
 - Move up or down to reorganise the task order



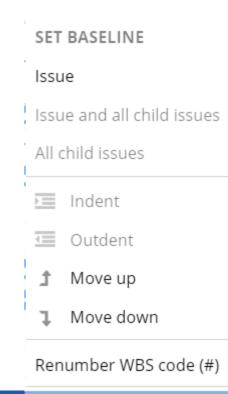
About Task bars

- Colours
 - Parent bars: blue
 - Children bars: green
 - Completed issues: light blue or green
 - Baselines (see later): light grey bar
- Task Names
 - They appear on the left
 - Feature request to allow to drag and drop: WGC-856



Milestones

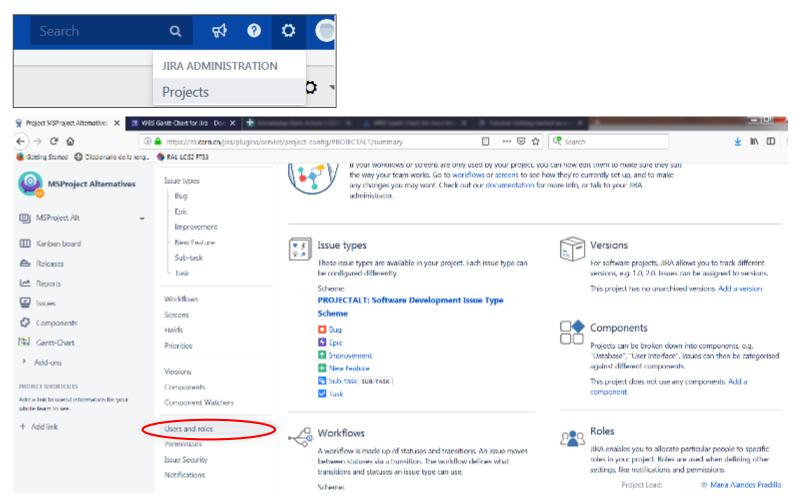
- Create first a Task
- Then convert to Milestone from Edit Menu





Convert to milestone

Add Users





Add Users

Project settings

Summary	Users and roles				Add users to a role Edit defa	aults
Details Issue types	Defaults Project Lead 💿 Maria Alandes Pradi	illo Default Assignee Project Lead		Add users to	a role	
- Bug	Users by role			Users or groups		
- Epic - Improvement	Roles: All 🔻	me or email		Search by name o	or email	
 New Feature Sub-task 	Administrators Showing 1 of 1			Role Administrators	-	
- Task	Name	Username	Email address	Add		
Workflows	Maria Alandes Pradillo	malandes	maria.alandes.			
Screens	Developers Showing 1 of 1					
Fields	Name	Username	Email address		Last session	
Priorities	Maria Alandes Pradillo	malandes	maria.alandes.p	radillo@cern.ch	54 minutes ago	

- Add users to Developers role (permissions to modify issues)
- Note that Users role are users who can create issues. Maybe this is not what you want if using JIRA for project management
- Note that you can change the permissions of each user type anyway
- Be aware that CERN users need to have logged in at least once in JIRA to be able to see them as JIRA users!



Adding users through e-groups

- You can add all the users of an e-group by adding the e-group to a role
 - But please, note that tasks can only be assigned to a single user
- If your e-group is not recognised by JIRA
 - Go to

https://cernforge.web.cern.ch/jira/egroup/sync/

- Add the e-group
- You should now be able to see it in JIRA



Dummy Users

- Dummy users may be needed for your project
 - For short term tasks
 - To calculate needed resources and estimate effort
- In order to create dummy users:
 - Create a service account
 - Log in once in JIRA with the new account
 - You can now assign that account to your project



Resource View

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- Basic resource management and allocation
- Tasks have fixed duration: changing units won't have an impact on the duration of the tasks
- Tip: calculate the duration of the tasks taking into account the availability of the resources and adjust both units and duration if necessary



Baseline

👻 WBS Gantt-Chart(9.9.0.15) - CEF 🗙 🕂

Right-Click on the project task

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Baseline

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The grey bars show the baseline: your original plan Enable/Disable it in the <u>View Menu</u>



Progress

Warnings

- Tasks about to start
- Task not started by the start date
- Task not finished by the end date

Percent done

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-1-2		🕒 Shortlist candidate tools	💿 Maria Al	100%	Minor	7/Jan/19	18/Jan/19	10 days	0%	Shortlis

Current date: see whether you are late or ahead of schedule



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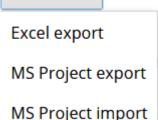
Progress

- Criteria to update progress needs to be defined
 - Frequency
 - Every week?
 - Every project review?
 - Who?
 - Any user?
 - Project leader?
- Accuracy depends on the criticality of this information
 - Find a balance between progress reporting overhead and usefulness for project control and follow-up



Export (I)

- In the Data Menu
 - Export to Excel
 - Export to MS Project (xml)
 - It could be useful for people working with subcontractors who may use MS Project
 - Import from MS Project (see next slides)



1 Data 🕶



Export (II)

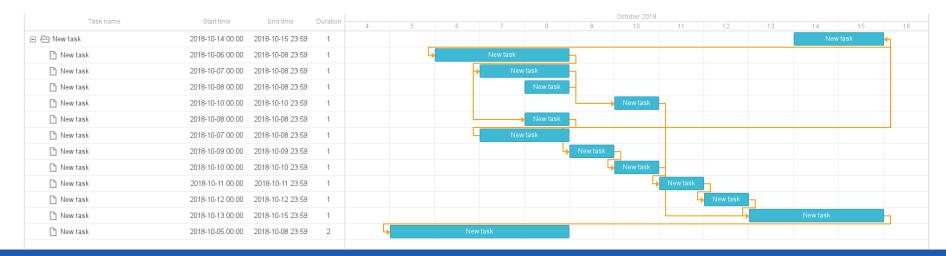
- Print Button suggested by some users
 - To print on paper? on PDF?
 - Feature request for printing: WGC-855
- Several Workarounds:
 - Export to Excel and then print from PDF (From the Data Menu)
 - Feature request to display task names in the Gantt Chart: WGC-859

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								Bas	eline		Plan			1	2018-12-10	2018-12-17	2018-12-24	2018-12-31	2019-01-07	2019-01-14	2019-01-21	2019-
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1		Gantt Test 1		Project									0%									
1-1		Evaluation Phase	GANTT1-1	Task	Maria Ala	Minor	To Do			12/17	1/18	25 d	0%									
1-1-1		Create list of tools	GANTT1-2	Sub-task	Maria Ala	Minor	To Do			12/17	1/4	15 d	0%									
1-1-2		Shortlist candidate tools	GANTT1-3	Sub-task	Maria Ala	Minor	To Do			1/7	1/18	10 d	0%									

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1-1-2	İ	i	Shortlist candidate tools	GANTT1-3	Sub-task	Maria Ala	Minor	To Do			1/7	1/18	10 d	0%														

Export (III)

- DHTMLX viewer tool that will be soon available in CERNbox
 - Export to MS Project (XML)
 - Open on CERNbox
 - Export to PDF, PNG, etc...





Importing MS Project files

- Make sure user importing MS Project file has « Assignable » permission
 - User needs to have a
 Developer role!
- Be patient, the progress bar displays status per task!
- When start or finish dates are not defined
 - WGC-858

Make sure to select Task type!

	MS Project import		×	
	Project import destination:	Gantt Test 4	•	•
1	Issue type:	Bug	-	
	File (.mmp):	Bug	^	
	Start date:	Story		
		New Feature		Ш
	Finish date:	Task		
	Baseline start date:	Improvement		
	Baseline finish date:	CAD		
	Dasenne misir date.	Simulation		
	Percent done:	Support		
	Hierarchy:	PVSS License Request		
	·	CDC C-11	v	
	Start - Start dependency:	Start-to-Start link (WBSGantt)		Ŧ
		Import	Cancel	



Other Useful Functionality

- Holiday calendar
 - <u>https://rssupport.atlassian.net/wiki/spaces/WGCE0909/pages/350</u>
 <u>289943/Configuring+the+holiday+calendar</u>
- Critical Path
 - <u>https://rssupport.atlassian.net/wiki/spaces/WGCE0909/pages/350290112/Infor</u> mation+on+analysis+tools+and+functions#Informationonanalysistoolsandfuncti ons-Viewingthecriticalpath
- Progress line
 - <u>https://rssupport.atlassian.net/wiki/spaces/WGCE0909/pages/350290112/Infor</u> mation+on+analysis+tools+and+functions#Informationonanalysistoolsandfuncti ons-Viewingtheprogress
- Adding more columns
 - <u>https://rssupport.atlassian.net/wiki/spaces/WGCE0909/pages/350289989/Configuring+additional+columns</u>
- Complete documentation
 - <u>https://rssupport.atlassian.net/wiki/spaces/WGCE0909/overview</u>



JIRA Python API

- Python API
 - https://pypi.org/project/jira/
- Gitlab project
 - <u>https://gitlab.cern.ch/it-dep-cda/jira-api-utils</u>
 - Python libraries and functions to interact and manipulate JIRA projects
 - I would like to offer this through SWAN service (work in progress)



JIRA REST API

REST API

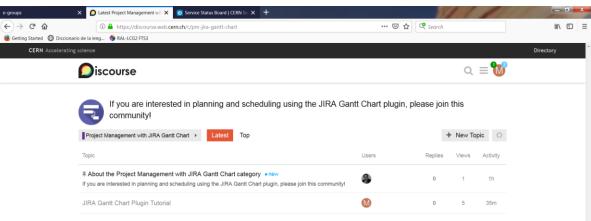
<u>https://cern.service-now.com/service-portal/article.do?n=KB0002188</u>

[PROJECTALT-22] Pre-procure	× 🔅 [PROJECTALT-22] Pre-procure: × 😵 its.cern.ch/jira/rest/api/2/proj∈ × +		- 0
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ave Copy			🕆 Filter JSON
expand:	"description,lead,url,projectKeys"		
self:	"https://its.cern.ch/jira/rest/api/2/project/20511"		
id:	"20511"		
key:	"PROJECTALT"		
description:	**		
lead:			
▼self:	"https://its.cern.ch/jira/rest/api/2/user?username=malandes"		
key:	"malandes"		
name:	"malandes"		
▼avatarUrls:			
▼48x48:	"https://its.cern.ch/jira/secure/useravatar?avatarId=10122"		
₹24x24:	"https://its.cern.ch/jira/secure/useravatar?size=small&avatarId=10122"		
▼16x16:	"https://its.cern.ch/jira/secure/useravatar?size=xsmall&avatarId=10122"		
▼ 32×32:	"https://its.cern.ch/jira/secure/useravatar?size=medium&avatarId=10122"		
displayName:	"Maria Alandes Pradillo"		
active:	true		
components:			
▼0:			
▼self:	"https://its.cern.ch/jira/rest/api/2/component/26823"		
id:	"26823"		
name:	"Documentacion"		
isAssigneeTypeValid:	false		
issueTypes:			
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self:	"https://its.cern.ch/jira/rest/api/2/issuetype/4"		
id:	"4"		
<pre>▼ description:</pre>	"An improvement or enhancement to an existing feature or task."		
▼iconUrl:	"https://its.cern.ch/jira/secure/viewavatar?size=xsmall&avatarId=15410&avatar1	Type=issuetype"	
name:	"Improvement"		
subtask:	false		
avatarId:	15410		
▼1:			
self:	"https://its.cern.ch/jira/rest/api/2/issuetype/3"		
id:	"3"		
description:	"A task that needs to be done."		
▼iconUrl:	"https://its.cern.ch/jira/secure/viewavatar?size=xsmall&avatarId=15418&avatar]	Type=issuetype"	
name:	"Task"		



Keeping up to date

- Egroup jira-gantt-chart-plugin-forum:
- Community forum:
 - <u>https://discourse.web.cern.ch/c/pm-jira-gantt-chart</u>



There are no more Project Management with JIRA Gantt Chart topics. Why not create a topic?.

Mattermost ServiceNow Home



Documentation

Get started with JIRA KB

https://cern.service-now.com/service-portal/article.do?n=KB0005904

WBS Gantt Chart for JIRA Demo

https://www.youtube.com/watch?v=nkUbKEaveXA

