

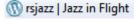


Introduction to Agile Planning with IBM Rational Team Concert

Ralph Schoon

Jazz Jumpstart Team, IBM

ralph.schoon@de.ibm.com



https://rsjazz.wordpress.com/

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Agile: The Manifesto

Individuals and interactions over processes and tools Working software over comprehensive documentation Customer collaboration over contract negotiation Responding to change over following a plan

(see http://agilemanifesto.org/)





Planning Onion

Strategy – defines the vision associated with a business need or direction.

• **Portfolio** – defines the overall product offering that consists of applications and tools and

how they integrate.

 Product – defines a product vision and outlines the road-map for the product.

- Release represents a prioritized backlog of product features that are committed to be delivered in a given time period.
- **Iteration** defines short, fixed-length subsets of releases, typically 1-4 week time frame.

Strategy **Portfolio Product** Release Iteration Day

• **Day** – represents the actions taken in a day to achieve the iteration goals.





Planning Onion Layers: Development Project

In a Development Project the four innermost levels of the planning onion are the most

important.



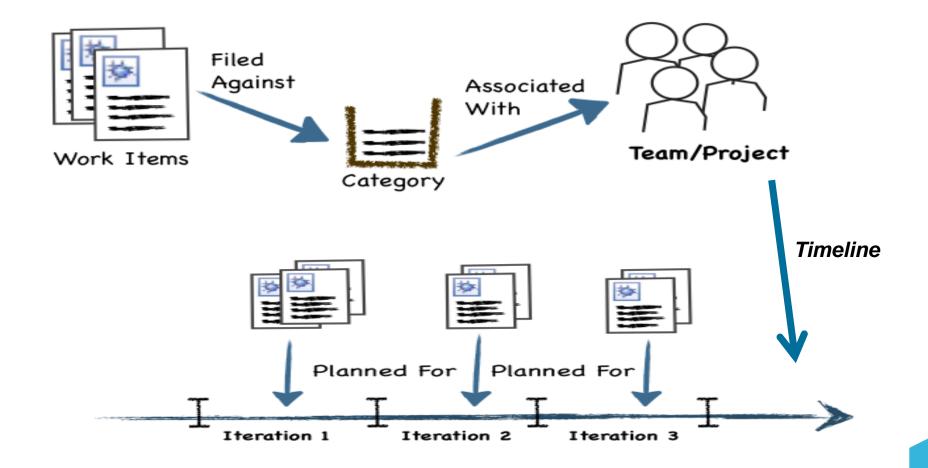
Scrum:

- used for product development, especially software development.
- progress is through a series of iterations called sprints.
- each sprint is typically 1-4 weeks long.





Rational Team Concert (RTC) Plan Related Artifacts

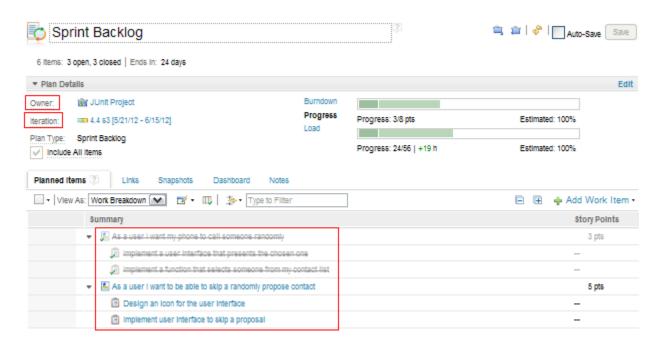






Rational Team Concert (RTC) Plan Definition

- Unified view of Information
 - What Work Items
 - Who Project Area / Team Area
 - When Iteration
- Plans are owned by a team or project and are associated with an iteration
- Plan content is derived from All work items which have a Filed Against value set to a category owned by the Plan's team or project and are planned for plan's iteration.
- Plans have a plan type, which defines the layer in the planning "onion".







Rational Team Concert (RTC) Planning Support

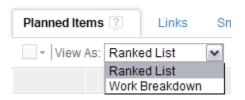
- Process neutral
 - Out of box templates (works with Scrum, OpenUp, Formal Project Management)
 - Customized templates
- No separation between planning/implementing of features and bug fixing
 - Both planning and defect management share a common data model
 - They are supported in the same tool and are highly integrated
 - Plans are in fact a query for work items
- Supports:
 - Top down planning (project manager, product owner, team leads, ...) **AND**
 - Bottom Up (team members) AND
 - Plan consolidation (Sprint planning meetings, stand-ups, ...)





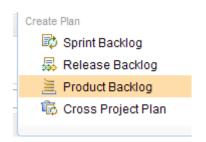
Planning Onion Layer: Product Backlog

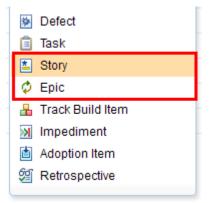
- Prioritized feature list
- Plan Views
 - Ranked List
 - Work Breakdown

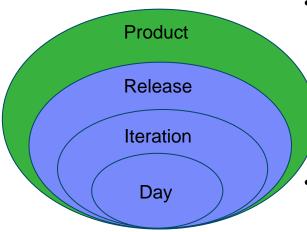


WorkItem Types

 Plan items: Work items that are relevant for planning. Ex: Epics, Stories, etc.







Reports

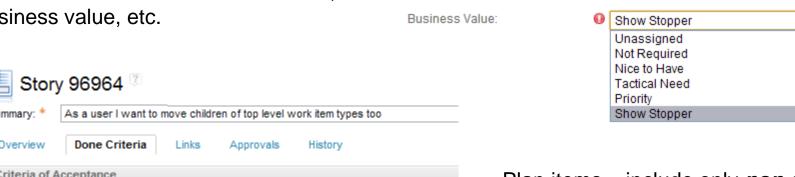
- How your product backlog is evolving?
- How many items are there on the product backlog?
- Can we find out how long it would take to complete the product backlog?
- Top down Planning





Managing a Product Backlog

- High-level plan that contains stories not planned for any release or iteration yet
- Targeted for the iteration marked as Backlog Iteration
- Prioritized feature list based on risk, business value, etc.



Business Commitment

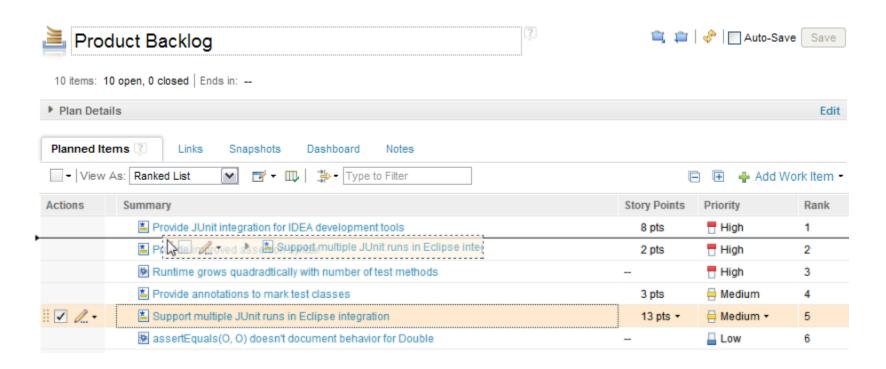
- Overview Criteria of Acceptance Acceptance Criteria: This story is tested iff the user can assign both a plan item as well as its children to an iteration by using the work item drop down button (located to the left of each plan item) keeping the Alt key pressed (notice the UI change) and choosing an iteration from the Plan All For sub-menu.
- Plan items include only non execution items such as Epics and Stories
 - Customize with themes. business value, etc
 - Define the **Done** Criteria





Managing a Product Backlog

- Sizing in Story points rough estimates based on complexity and development effort
- Ranking ensure that the most valuable functionality is delivered first

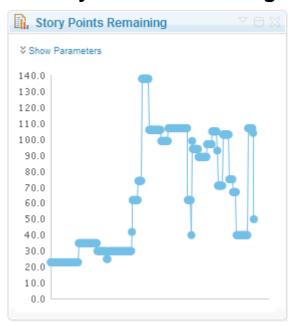




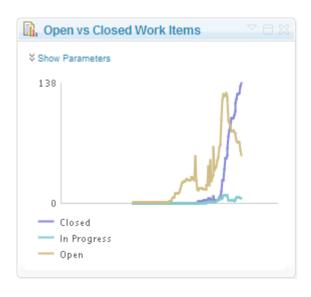


Managing a Product Backlog ...

- Progress on Product Backlog
 - Story Points Remaining



Open Vs Closed Work items







Planning Onion Layer: Release Backlog

Planned/Committed features for the release of the product

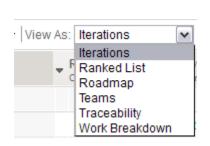
- Plan Views
 - Iterations
 - Ranked List
 - Roadmap
 - Teams
 - Traceability (optional)
 - Work Breakdown

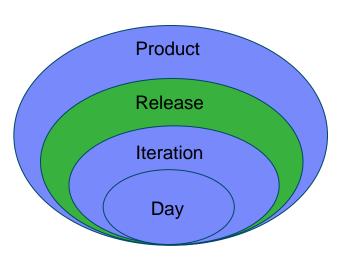
WorkItem Types

 Plan items: Work items that are relevant for the planning. Ex: Themes, Epics and Stories

Reports

- Team Velocity
 - All the story points that were 'achieved' grouped by the iteration they were targeted for.
- Release Burndown Amount of outstanding work for the release, broken down by iteration.
- Top down Planning





Create Plan

Sprint Backlog Release Backlog

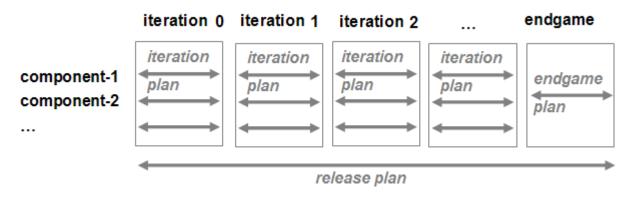
Product Backlog Cross Project Plan





Managing a Release Backlog

- Connects the business value and the execution items.
- **Iterations** view: holistic view of which stories are planned for which iteration.
- Drag and drop: assign the stories from a backlog to specific iterations.
- **Progress** bars: avoid overloading an iteration considering the team's velocity and to track overall progress.
- Load bars avoid overloading an iteration.
- Coarse grained: Estimation in size; estimated in relative values such as Story Points, lines of code, function points, etc.

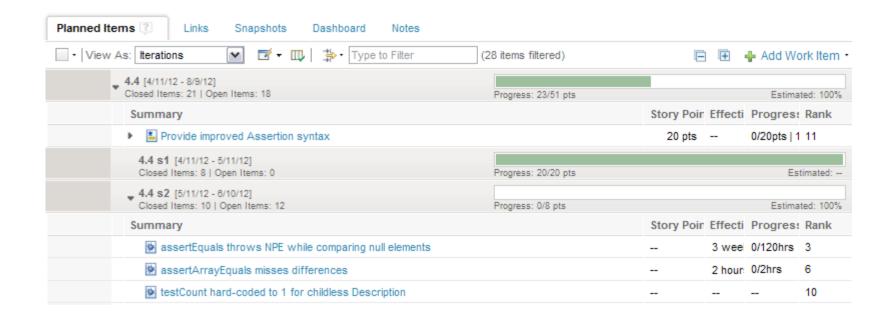






Managing a Release Backlog ...

Tracking multiple sprints

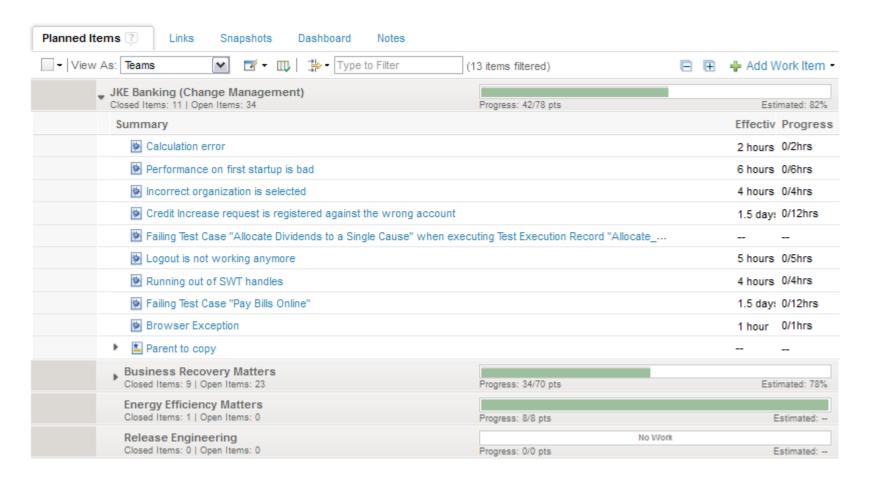






Managing Release Backlog ...

Overview for multiple teams

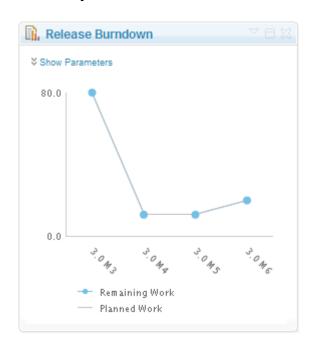




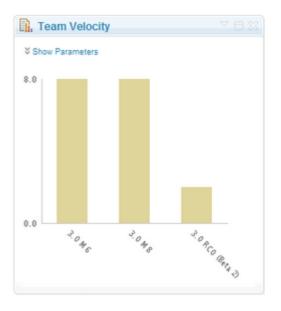


Track progress

• Release Burndown: shows the amount of outstanding work for the release, broken down by iteration.



• Team velocity: measures a team rate of progress

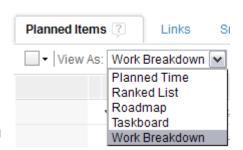


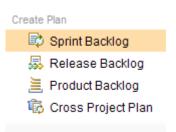




Planning Onion Layer: Sprint Backlog

- Tasks planned for the iteration
- Plan Views
 - Planned Time
 - RankedList
 - Roadmap
 - Taskboard / Kanban
 - Workbreakdown





WorkItem Types

• Execution items: Work items which have work assigned.

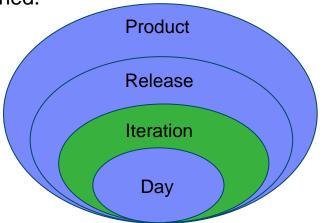
Defect

Task

Ex: Task and Defect.

Reports

 Sprint Burndown Estimated hours required to complete remaining







Planning a Sprint

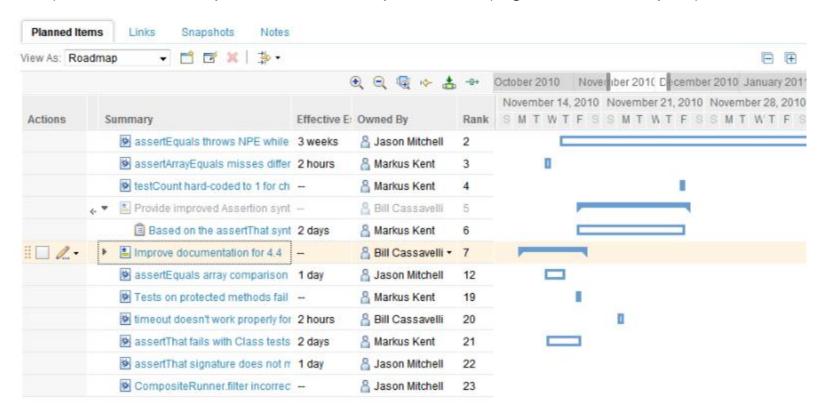
- Focus on Execution: large stories broken down into smaller sub-stories and execution items
- Fine grained: Estimation of effort: typically estimated in Ideal Hours/Days
- Custom view: Can the execution task relate to the business value expressed on the product backlog?

▼ View As: Work Breakdown ▼ □ □ ▼ □ □ ▼ Type to Filter	🖹 🕕 💠 Add Work Ite		
Summary	Effective Estimate	Business Value	Rank
← ▼ J. As a user I want my phone to call someone randomly	_	① Priority	1
lmplement a function that selects someone from my contact list	2 days		2
implement a user interface that presents the chosen one	1 day	-	3
← ▼ S As a user I want to be able to skip a randomly propose contact	_	Tactical Need	4
Implement user interface to skip a proposal	2 days		5
Design an icon for the user interface	2 days	-	6





 Roadmap view: illustrates the schedule of the execution items (e.g. defects and tasks) and the rolled-up schedule of the plan items (e.g. stories and epics).

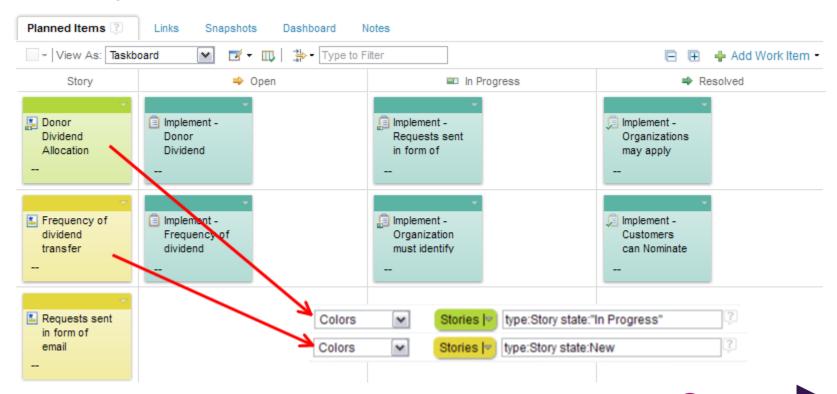






Taskboard view:

- shows plan items in the left column and execution items in the state group columns.
- visualize the progress of the stories and their children.
- ability to adjust the state quickly with drag and drop from this view.
- color tags can be used to show the state of the plan items.

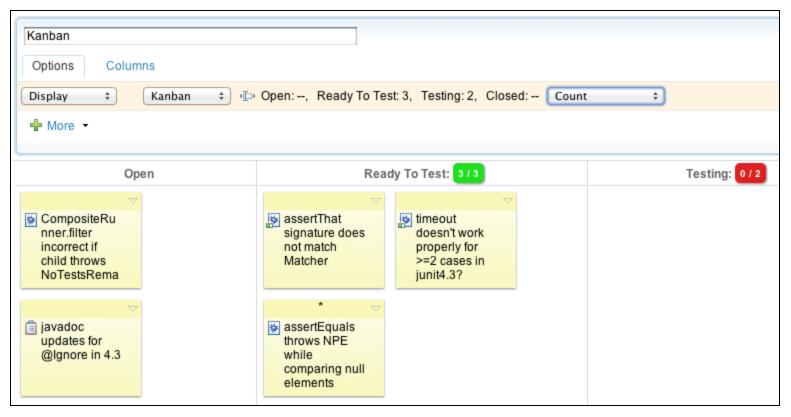






Kanban

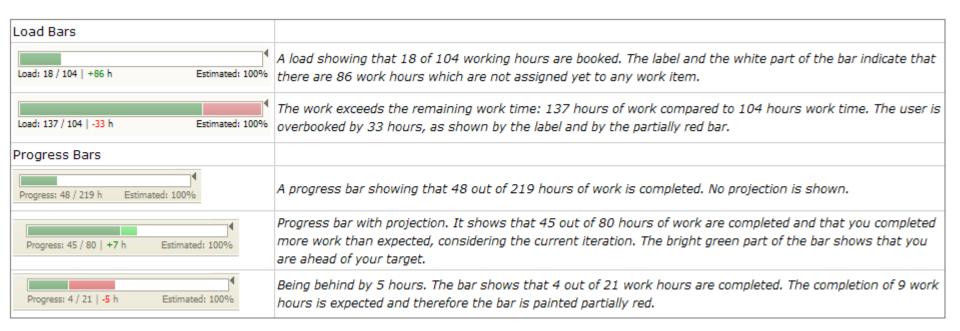
- Define limits (counts or complexity or estimates).
- Deviations from the ideal are shown as a small box in the column header. The further you are from your ideal, the more red the box gets.
- · Shows where capacity is available as well as when capacity limits might be exceeded







- Load Bars: capacity planning
 - Do I have enough time to finish all my work in this iteration?
- Progress Bars: track progress
 - Considering all my work for this iteration. Where am I now?



Aids in assessment of the health of the Plan





Quality of Planning:

- The more work items you estimate the more precise the work can be computed.
- The quality is excellent if all work items are estimated, it is good if the majority is estimated, ...
- Visually, the percentage of estimated work items is represented as a fill-level.
- The height of load and progress bars shows how many work items have an estimate.
- If no work item is estimated, the bar is not visible, if all work items are estimated, the bar is fully visible.

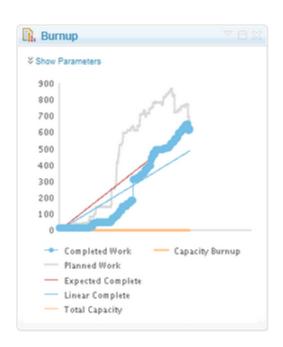
Load: 58 / 104 +47 h		A good percentage of work items is estimated. The bar is filled up almost to the top; the label shows the exact number (83%).
Load: 80 / 104 +24 h	Estimated 2006	20% of the work items are estimated. This makes the statement of the bar likely to be wrong and, hence, it is filled up a little only. It is very likely that when the remaining 80% of the work items are estimated that the user will be overbooked.
Progress: 88 / 209 -3 h	Estimated: 50%	A progress bar where 50% work items are estimated. Again, the bar is not filled up to the top.



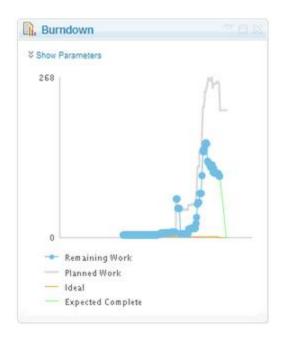


Track progress

• Burnup: shows the number of hours of completed work over daily intervals.



 Burndown: shows the trend of planned, completed & remaining work over a specific time period

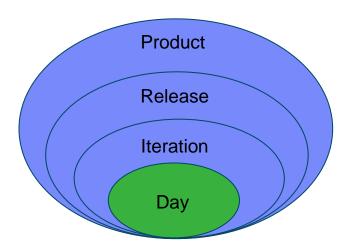






Planning Onion Layer in Rational Team Concert: Day

- My Work View: Developers plan their assigned work and adjust estimates
 - Managing new work
 - Managing current work
 - Managing future work
 - Work Load
 - Find, filter, and colorize planned work items



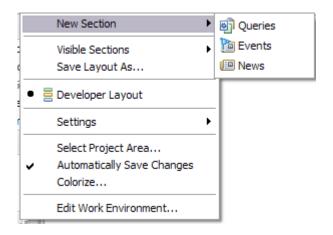
- Daily Stand ups: Developer Taskboard view to see what people are working on.
- Planned Time: Developers sort the work items in the order in which they intends to work on them
- Bottom Up Planning



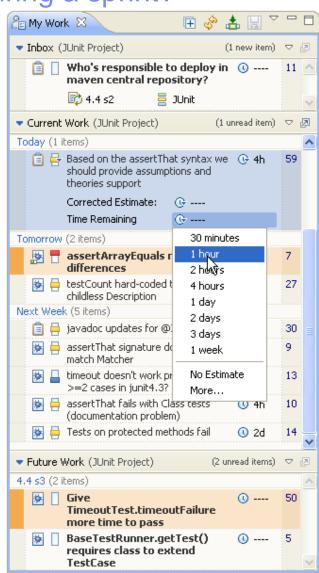


How does an individual developer work during a sprint?

My work view: in place estimation, feeds, ...



- Planned time view: Developers sort the work items in the order in which they intend to work on them in my work view.
- Warnings/errors are shown if the work is lagging behind the schedule
- My work view approximation in the web: Customized Planned Time View show a specific owner.

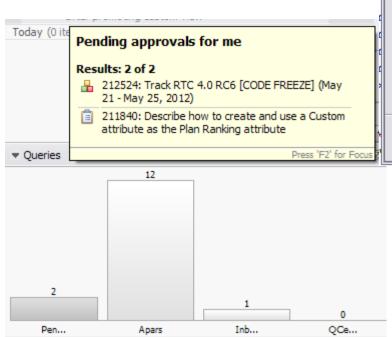


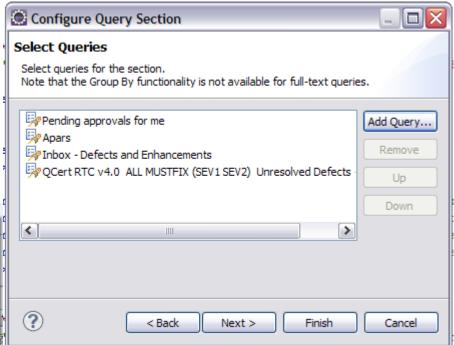




How does an individual developer work during a sprint? ...

 One place to view queries that impact my work









How stable is my release/sprint?

 Capture the state of a plan



 Compare the plan state

Planned Items Links	Snapshots (7) Resources Dashboard N	otes		
Back to Snapshots				
Comparison - May 19, 2012 10:35:54 PM		Committed Plan - May 19, 2012 7:29:38 PM	Initial Plan - May 19, 2012 6:43:47 PM	
- Overview				
Iteration Start Date	2 days	May 21, 2012	May 19, 2012	
Iteration End Date	0	Jun 18, 2012	Jun 18, 2012	
Scheduled Start Date	0	May 21, 2012	May 21, 2012	
Scheduled End Date	2 weeks 5 days	Jun 18, 2012	May 30, 2012	
VVork Items Total	0	5	5	
New	0	5	5	
In Progress	0	0	0	
Closed	0	0	0	
Not Accessible	-	-	_	
VVork Done	0	0	0	
VVork Left	0	4 weeks 4 days	4 weeks 4 days	
Progress	-	0/192 h 100%	0/192 h 100	
▼ VVork Items				
	Modifed items	Added items	Removed items	
	implement compare snapshot feature	-	-	
	Create design document for Snapshot feature	-	-	
	implement snapshot client	-	_	
	implement Snapshot service	-	_	





How stable is my release/sprint?

• Planned Time Variance: indicates the difference in days between the current start date and the Planned start date for a given work item.



Summary	Planned Time Variance
√ Variance > 0.9d Create iteration plan	1
[a] (Variance > 0.9d) Create design document for Snapshot feature	3
(Variance > 0.9d) Implement Snapshot service	3
(Variance > 0.9d) Implement compare snapshot feature	3
(Variance > 0.9d) Implement snapshot client	3







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