

Practical Software and Systems Measurement

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A foundation for objective project management



***“Practical Measurement
in the Rational Unified
Process (RUP)”***

***Doug Ishigaki, Rational Software
John Riedener, US Army TACOM-ARDEC***

Objectives of the Workshop

- ***Discuss RUP roles related to measurement***
- ***Discuss how to revise RUP activities, tasks, and steps to map to PSM***
- ***Identify recommended enhancements to the RUP process to facilitate measurement opportunities, including screens to be updated***
- ***Identify candidate measures available in RUP***
- ***Discuss the measurement plan***
- ***Identify candidate field trial sites for validating the RUP measurement enhancements***

Workshop Format

- ***Agenda***
 - ***Brief Overview of RUP***
 - ***Problem Statement***
 - ***Break up into groups and analyze RUP Structures - where does the PSM process fit in?***
 - ***Status Update***
 - ***Small Presentations of finding by groups***
 - ***Wrap-up/Next steps***

Workshop Background

- ***The Rational Unified Process (RUP) software engineering process provides a disciplined approach to assigning tasks and responsibilities within a development organization through a process framework consisting of:***
 - ***Guidelines***
 - ***Workflows***
 - ***Templates***
 - ***Examples***
 - ***Tool mentors***
- ***This workshop will discuss opportunities for measurement in the Rational Unified Process, including available data and relevant tasks***

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Intended Output

- ***At end of Workshop***
 - ***Recommended enhancements to the RUP process to facilitate measurement opportunities***
 - ***Revisions to RUP Roles***
 - ***RUP Screens to be updated using captured analysis on overhead slides***
 - ***Candidate Measures***
 - ***Possible 'next steps'***
- ***Post Workshop***
 - ***White paper describing nature of the problem, candidate measures and adoption approaches***
 - ***Continue implementation of the PSM process into the RUP***



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Workshop Wrap-Up and Summary

Restatement of Objectives

- ***Discuss RUP roles related to measurement***
- ***Discuss how to revise RUP activities, tasks, and steps to map to PSM***
- ***Identify recommended enhancements to the RUP process to facilitate measurement opportunities, including screens to be updated***
- ***Identify candidate measures available in RUP***
- ***Discuss the measurement plan***
- ***Identify candidate field trial sites for validating the RUP measurement enhancements***

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Attendees

- ***Roger W. Day - General Dynamics - dayr2@gdls.com***
- ***Wendell Mullison - GDLS - mullison@gdls.com***
- ***Antonio Moya-Catena - Ericsson Espanan Sa
- Antonio.moya-catena@ece.ericsson.se***
- ***Harpal Dhama - Mitre, Bedford, MA - dhama@mitre.org***
- ***Doug Ishigaki - IBM Rational Software - dishigaki@us.ibm.com***
- ***Kim Myers - Distributive Software - kmyers@distributive.com***
- ***Paul Janusz - TACOM-ARDEC - janusz@pica.army.mil***
- ***Cheryl Jones - TACOM-ARDEC - cljones@pica.army.mil***
- ***John Riedener - TACOM ARDEC - riedener@pica.army.mil***

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Summary

- ***Working group was able to complete the entire “Roles” section of the RUP that pertain to measurement.***
- ***Work was continued on the newly formed role of Measurement Analyst. This work was comprised of the 3 Activities defined for this new Measurement Analyst Role***
- ***Work done on PM activities also***

Conclusions, Recommendations

- *The project seems very do-able.*
- *Group has agreed to continue via e-mail*
- *The use of WebX via Doug's account could be used for meeting.*
- *Goal is to finish by May*
- *Discipline and Work Flow slides should be the next to be worked on in order to finalize the structure and start the model early.*

Candidate Next Steps/Action Items

- Notes/minutes from Roger Day will be circulated v/e-mail by April 3***
- Work completed during PSM TWG will be distributed by April 9 in MS Word***
- The RUP Working material and this Workshop presentation will be sent out v/e-mail Immediately***
- Request for further input will be made to group immediately, deadline will 2 weeks later***