FY21 Agile Collaboration Group May Meeting

May 20, 2021

Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213

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DM21-0485

Agenda

Logistics/Administrivia

Roll Call

Announcements

Practitioner Panel Discussion: Agile Metrics

Metrics with JIRA and multiple levels of traceability/reporting
Sare Ehmann, SEI

Agile Metrics examples
Robin Pulverenti, ADEPT Force Group

Using a Sprint Defect Containment Matrix (DCM)
Joe Smith, Armament SEC

EVM and Agile Measurement
Pat Place, SEI

MEETING LOGISTICS

1:00 – 2:30 PM Eastern

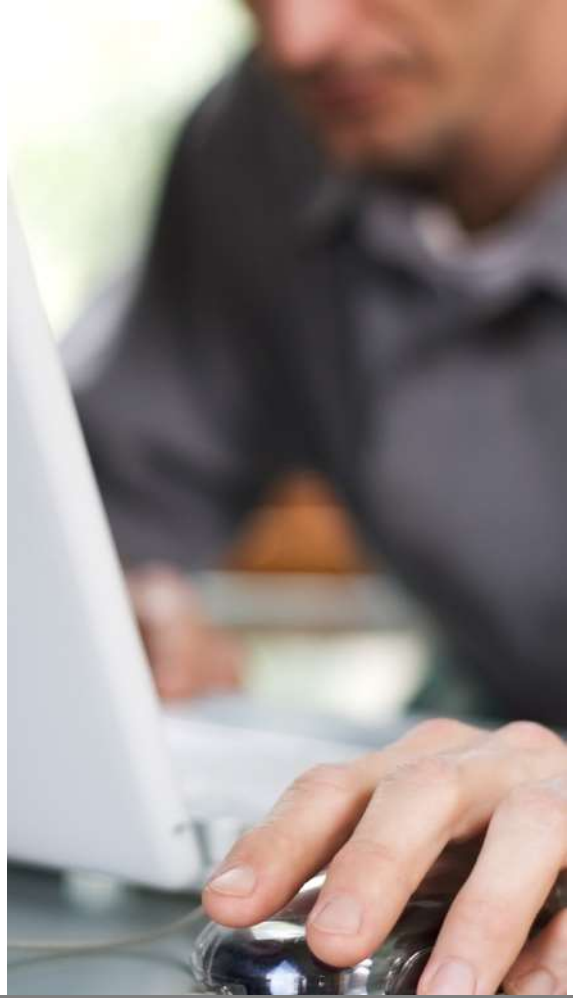
Join Zoom Meeting here:
https://sei.zoomgov.com/j/1601984017?pwd=eTUya01tc3BMQlczMFRoaWgydFFRUT09&from=addon

Meeting ID: 160 198 4017
Passcode: 007344

Dial by your location
+1 669 254 5252 US (San Jose)
+1 646 828 7666 US (New York)
+1 669 216 1590 US (San Jose)
+1 551 285 1373 US
Meeting ID: 160 198 4017
Passcode: 007344

Find your local number: https://sei.zoomgov.com/u/abSd7Oh3Z2

Please do NOT forward the calendar invite. We need to make sure all participants have acknowledged the terms of participation in the ACG. Please refer all potential new participants to Will Hayes: wh@sei.cmu.edu



Administrivia

New members – Welcome!

Reminder of SEI internal and other rules

- Protection of members info
- No recordings
- All participants must acknowledge terms of participation
- If you move to a new employer and wish to remain active in the ACG, we need to verify they have an NDA in place or execute a new one.

Roll Call

Zoom App participants:

- If your full name doesn’t appear in the Participants Panel, please post your name to Zoom chat.

Phone-only participants:

- Please unmute and provide your name to confirm your attendance.

CrossTalk Journal of Defense Software Engineering

Announcing the re-launch of CrossTalk – now back in a digital format.

1: All Partners Access Network (APAN): (not a DoD site/does not require CAC) https://lnkd.in/g-8iC77 Once your account is established, CrossTalk is at https://lnkd.in/gWVE_mX

2. Defense Technical Information Center (DTIC): https://lnkd.in/gNSPQDD
Select, DoDTechipedia. Search: CrossTalk 2020

New SEI Podcasts

Moving from DevOps to DevSecOps
https://resources.sei.cmu.edu/library/asset-view.cfm?assetid=734098

Mission-Based Prioritization: A New Method for Prioritizing Agile Backlogs
https://resources.sei.cmu.edu/library/results.cfm#stq=%20&stp=2

Digital Engineering and DevSecOps
https://resources.sei.cmu.edu/library/asset-view.cfm?assetid=652173

For more information and submission form, please contact:

JointITSWCostForum@hq.dhs.gov

Today's Discussion

Agile Metrics

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Defect Containment Modeling

		Detection Point									
		1	2	3	4	5	6 IP	Release-Level Test	Injected In Sprint	Found Before PI-Level Test	
Injection Point	1	35	13	8	5	3	1	1	66	65	98%
	2		35	9	7	5	3	3	62	59	95%
	3			35	12	8	2	5	62	57	92%
	4				35	18	4	8	65	57	88%
	5					35	5	12	52	40	77%
	6 IP						1	5	6	1	17%
Total found in Sprint		35	35	35	35	35	1	34	313	279	89%
Total Leaked from Sprint		31	27	27	30	17	5				
Sprint Containment %		53%	56%	56%	54%	67%	17%	56%			

Sprint Containment Effectiveness

Release Containment Effectiveness

EVM and Agile Measurement

Want to talk about:

- Estimation and Reporting
- Rolling Wave Planning
- Incremental Reviews
- Rework

Estimation and Reporting

At issue: What units of effort do we use for estimation?

- At start, it seems reasonable to estimate labor in some unit of time
- When we do the initial breakdown into Epics and Capabilities what unit should we use for planning purposes?
- For sprint planning, we use a proxy for labor effort: e.g., story points or T-shirt sizes. Thus we have estimates in time, and then a proxy for time – what's the right point to switch?

How should we report?

- I can assert percent complete of a feature by looking at its completed stories, but how do I know if there's a cost variance on the feature?
- If require reporting both hours and completed stories, are we making the developers do double duty in reporting?

Rolling Wave Planning

If I'm doing cadence-based planning for my agile processes it seems that I should convert planning packages to work packages on the same cadence.

- If not at the same time as the cadence-based planning, when should planning packages be turned into work packages?
- Should the initial plan consist of only planning packages? If so, how should they be defined?
  - One per cadence-based planning period?
  - One per capability?
- How much of a plan can be assessed from the EVM perspective if everything is in planning packages?

Incremental Reviews

If we're using rolling wave planning it seems reasonable we should have an incremental review strategy:

- What should be the frequency of the reviews?
- How much detail do we need to put into planning packages to be assured the plan is feasible?
  - At the outset?
  - In the incremental reviews?
- What information should we want to see at the initial review and at subsequent reviews?

Rework

At least some EVM specialists expect to see work packages intended to cover rework!

- How does this fit with our agile model?
- Should we use history to allocate a fixed amount of rework?
- If we define the work packages as part of cadence-based planning, is this a good time to define rework as part of a work package, based on the plans?
- Do we hold work packages open, even though all their features are complete to wait for rework?

Thank you! See you next month!