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DM23-0690

Script: An Agile Approach to Independent Verification and Validation

SME(s): *Justin Smith*

Interviewer/Facilitator: *Suzanne Miller*

Interview Conducted: *Thursday May 25, 2023 at 1:30 p.m. ET*

<Canned Intro>

Suzanne: Welcome to the SEI Podcast Series. My name is Suzanne Miller, and I am a principal investigator in the SEI's Software Solutions Division.

Today I am joined by Justin Smith, a senior agile transformation leader in the SEI's Software Solutions Division and fellow team member of mine in the Continuous Deployment of Capability Directorate. Today we are here to discuss the nuts and bolts of applying lean and agile concepts to Independent Verification and Validation (IV&V). Welcome.

Thomas: *Thank you.*

1. Suzanne: Justin you are new to the podcast series and the SEI. Please start by telling us about your background, what brought you to the SEI, and the work that you do here.

- 2. Suzanne:** I would like to begin by having you give us an overview of Agile Independent Verification and Validation. What exactly is it and why should this topic be on the minds of our audience right now?
- 3. Suzanne:** Let's talk about independent verification and validation for software? How has it traditionally been practiced, and what made you decide to incorporate Agile into V&V activities?
- 4. Suzanne:** Can you explain the key principles of Agile independent verification and validation?
- 5. Suzanne:** You recently used this approach in working with the Orion Multi-Purpose Crew Vehicle (MPCV), which is NASA's next human-rated space craft. Tell us about how you applied independent verification and validation to this.
- 6.** More and more safety critical, highly regulated programs are having their software developed in an Agile methodology, etc. How do you think Agile V&V can be worked into those kinds of programs? What has to change in the way acquirers view V&V activities?
- 7. Suzanne:** One aspect that we like to emphasize on our podcasts is transition. If I am working in V&V for complex

systems right now, what steps should I be taking to bring an agile mindset to my work? What resources are available to me?

8. Suzanne: What is next for you? What else are you working on that we can bring you back to talk about?

Suzanne: Justin, thank you for talking with us today. We will include links in the transcript to resources mentioned during this podcast.

Finally, a reminder to our audience that our podcasts are available on Soundcloud, Stitcher, Apple Podcasts, and Google Podcasts as well as the SEI's YouTube Channel. If you like what you see and hear today, give us a thumbs up.

Thanks again for joining us.

<Canned Outro>