

May 19th, 2016 Agenda

| | | |
|---------------|----------------------------------|-------------------------|
| 07:30 – 08:30 | Continental Breakfast | |
| 08:30 – 08:40 | Welcome | Joe Manas, NDIA |
| 08:40 – 09:00 | Opening Remarks | Dr. Brown, TRMC |
| 09:00 – 09:15 | TECC Charter & Org | Joe Manas, NDIA |
| 09:15 – 10:15 | Industry Summary | Joe Manas, NDIA |
| | -Short Survey Results | |
| 10:15 – 10:30 | Break | |
| 10:30 – 11:30 | TRMC Topic Discussion | Bruce Bailey, TRMC |
| 11:30 – 12:00 | TRMC Test Capabilities | Denise De La Cruz, TRMC |
| | Directory Demonstration | |
| 12:00 – 12:30 | Lunch / Open Discussion | All |
| 12:30 – 14:00 | Potential Joint Projects/Studies | Joe Manas, NDIA |
| 14:00 – 14:10 | Closing Remarks | Joe Manas, NDIA |

Attendees:

Industry

Sandra Gianotas - Boeing
Greg Kastner - Battelle
Joe Manas - Raytheon
Mike Rabens – Northrup Grumman Corporation
Mike Spain for Barbara Reeder – DefTec Corporation
Mike Korent for Brendan Rhatigan – Lockheed Martin
Michael Herderich for Rock Marcone – General Dynamics
Greg Filo for Steve Schneider – Orbital ATK
Bill Phillips – Self, Industry member of Defense Business Board

Government

TRMC

Dr. David Brown
Bruce Bailey
Denise De La Cruz
Ashton Burke
Melody Johnson
Chris Mazur
Bob Carter

DCMO, Defense Business Board

Lt Col Tony Cianciolo

Meeting Minutes

Agenda and schedule was followed as planned. Excellent exchange of information and discussion during the speaker presentations and demonstration.

Test & Evaluation Division – Test Enterprise Coordination Committee – May 19th, 2016

Project / Study Discussion

The following is a summary of notes from the potential project / study discussion.

Cybersecurity Testing

Does the government have the resources (facilities and personnel) to meet the demand of perform cybersecurity testing on weapon systems (new and legacy) in an operationally relevant environment? Are there opportunities for Industry to partner with the government by utilizing Industry resources (connecting cyber ranges)?

1. Awareness exchange of information / capabilities between Industry and TRMC
 - TRMC to offer Cyber T&E and National Cyber Range (NCR) briefing to Industry
 - A webinar will be set up for Pete Christensen to provide an overview of the National Cyber Range and related items.
 - NCR Customer Day – NDIA will coordinate with Pete Christensen for future dates (Q3 & Q4) for a tour of NCR for NDIA
 - Cyber Related T&E S&T BAA. NDIA to send out link when available
2. Request for Industry to participate in TRMC Test Capabilities Directory (TCD) by providing information (and permission) to place Cyber Testing Resources into the TCD.

Test Execution Efficiency

How do we improve the efficiency of test execution? Test efficiency rate can vary from 1.3 - 2.0. (e.g. It takes us 1.75 attempts to conduct 1 event). A test which was conducted but the system failed (did not meet the test objectives) does not factor into this rate; that is a separate issue. The rate we are referring to here is score by whether a planned test is executed. What are the significant contributors for causing retest?: Weather? Contractor prime item not ready?, Range Resource availability (maintenance, resource not available, failure, etc.)? Do we currently have a baseline metric that has been established for us to improve upon?

1. NDIA received Range Reschedule Report from (sub-report from the DIF) on 5/11/16. Recommendation is Industry TECC members review the report and provide comments to the TECC chair. NDIA T&E Chair will distribute the sub-report for review by the committee members.
 - a. Please find attached the sub-report “Range Reschedule from DIF 2014-2015”

People

What is the status of the T&E workforce (both for Industry and Government)? Do we have people with the right skill sets required to perform testing and evaluation? How do we know? Is there an established competency model, has gap analysis been completed recently? Is there training available? How are we growing the future T&E workforce (pipeline) to replace the experienced workforce that will be retiring?

1. Industry to provide briefing to TRMC on Industry outlook for T&E workforce supporting Ranges.
 - NDIA TECC work with industry members for best method to go about collecting and presenting this information.
 - NDIA will contact Tom Simms (DASD DT&E, Competency & Development) for brief of government outlook
2. NDIA T&E Division to work with NDIA SE Division, Education & Training Committee
 - Dr. John Snoderly Defense Acquisition University, Dr. Don Gelosh Worcester Polytechnic Institute, Dr. Ken Nidiffer SEI
 - What programs are out there for Masters in Systems Engineering with major field, Test & Evaluation?

Test & Evaluation Division – Test Enterprise Coordination Committee – May 19th, 2016

- Opportunities for common training? DAU, Conferences (ITEA, etc), Involve Tom Simms (DASD DT&E, Competency & Development) and Dr. Paul Alfieri (DAU) for and Gene Hudgins (ITEA) for help.
3. NDIA to contact Tom Simms (DASD DT&E, Competency & Development) for update on Chief Developmental Tester competency model and KLP qualification criteria.
 4. STEM opportunities
 - Are there opportunities for NDIA T&E Division to participate in STEM engagements with TRMC?
 - D.C. High School Event / engagement in the Fall?
 - TBD
 5. Government & Industry - Early career exchange program for Test & Evaluation
 - Internship at Test Range?

Autonomous Vehicle Testing

What do we need to be thinking about for how to test autonomous ground and air vehicles on our test ranges? What are the range safety considerations? What involvement should test systems engineers have early up front in the design phase to influence the design for testing on our ranges? Is the test community influencing the acquisition community for requirements (SRD, SOW) for testing these systems on our ranges?

1. Foster better collaboration between Industry and Government Subject Matter Experts on the topic of Autonomous Vehicle Testing . What are the proposed methods for conducting Test & Evaluation on autonomous vehicles (Air, Land & Sea)?
 - Opportunity for a Webinar with TRMC and Industry SMEs – Briefing of current TRMC study and current status of findings of commercial best practices.
2. The point was made that once you answer question number 1, then one can determine what unique range resources are required to support that methodology.

Test Range Protocol & Process

Is there an opportunity to improve the process required for planning and conducting test events? What is the process at each range for Test Plan approval, range safety approval, personnel access, etc. It is similar, yet slightly different on every test range and also with each service on the range. Is there a website that I can go as a user to gain knowledge on the who, what, where, when, how and why for conducting a test on a range?

1. TRMC will look into what information is readily available from Test Ranges on protocol and process that could be easily incorporated into the Test Capabilities Directory (TCD). List a point of contact in the TCD for test planning.

Summary

Next TECC will be in Sept. Joe Manas will work with committee members, NDIA HQ and TRMC leadership to schedule the next meeting.

Between now and then, NDIA will coordinate with TRMC to set up webinars and telecons to discuss project/study actions and best path forward.