

Cyber-Physical Systems Testbed Workshop

February 24-25, 2015

National Institute of Standards and Technology

Gaithersburg, MD

<http://www.nist.gov/cps/cyber-physical-systems-testbed-workshop.cfm>

Agenda

Day 1:

- 9:00 am** **Opening remarks: Testbeds for progress in cyber-physical systems**
Chris Greer, NIST
- 9:20am** **Presentation: Insights from smart grid testbeds**
Paul Boynton, NIST
- 9:40am** **Presentation: CPS Testbeds and Homeland Security**
Scott Tousley, DHS
- 10:00am** **Break**
- 10:15am** **Lighting Round – Lab Success Stories/Key Concerns**
Each attendee will introduce themselves and share a brief highlight of a key success they have had in implementing their facility or a key concern for testbed design or operation.
- 12:00pm** **Break for lunch (on your own in the cafeteria)**
- 1:00pm** **Working Session: Developing High Level CPS Testbed Architectures and Identifying Key Attributes**
Participants will break into sub-groups to develop alternative strawmen architectures and list of desired attributes for functions and components
- 1:00pm** **Getting the Strawman Right**
Starting with the provided strawman architecture, the group will either validate it or change it to better reflect their needs and experience.
- 2:00pm** **Identifying Desired Attributes**
The sub-groups will identify the key attributes of the components and functions in their strawman architecture. (Breaks as needed)
- 4:15pm** **Outbrief and Cross-Pollination**
The sub-groups will report on their preliminary results.
- 5:00pm** **Adjourn for day**

Day 2:

9:00am

Day 2 introduction and plan

Provide attendees a summary of day 1 outcomes, a refresher on the goals for day 2, and announce some administrative details

9:30am

Working Session: Identification of Design Principles

The sub-groups will develop a set of design principles that would support the development of a testbed which manifests all the desired attributes.

12:00pm

Break for lunch (on your own in the cafeteria)

1:00pm

Working Session – Final Preparations for Report Out

Each group will put together the final touches on what they want to present to the workshop body as a whole

2:00pm

Break

2:15pm

Report Out from the Groups

Each group will present the results of the two working sessions and facilitate discussion

- Each group presents testbed architecture and key attributes
- Discuss key design principles
- Discuss cross-domain applicability

4:15pm **Concluding Remarks: NIST Next Steps**

Paul Boynton, NIST