

# Services and Assembly

Submitted by [Katie Dey](#) on Tue, 08/18/2015 - 3:43pm

Breakout Lead: Priya Narasimhan

Some questions that this breakout group has been charged to address in the context of services and assembly include:

- What are the fundamental limitations and knowledge barriers of today's high-confidence software platforms for cyber-physical systems?
- What are the most important research challenges and who are the key stakeholders who are affected by these challenges?
- What are promising innovations and abstractions in the Services and Assembly domain for building future high-confidence software platforms for cyber-physical systems? What is the degree of maturity of these abstractions, i.e., how much more innovation and evolution is necessary before they will be suitable for use in production systems?
- What are possible milestones for the next 5 to 10 years? In particular, what should the roadmap be for Federal technology R&D investments in cyber-physical systems?
- If the entire real-time and cyber-physical technology base were being redone, what new technologies would be needed? What technologies should be thrown out?
- What new and novel architectures are needed for future high-confidence software platforms for cyber-physical systems?
- What is the role of Services and Assembly in high-confidence software platforms for cyber-physical systems?

Participants:

1. Sherif Abdelwahed
  2. Carolyn Boettcher
  3. Andy Gokhale
  4. Murat Demirbas
  5. Naga Kandasamy
  6. Infolf Kreuger
  7. Pete Maniolios
  8. Peng Ning
  9. Donald O'Neill
  10. Kishore Ramachandran
  11. Byrav Ramamurthy
  12. Binoy Ravindran
  13. Janos Sztipanovits
  14. Gene Tsudik
  15. Wayne Wolf
-