Poseidon

Dynamic Information-centric Systems-of-Systems

Embedded Systems
INSTITUTE
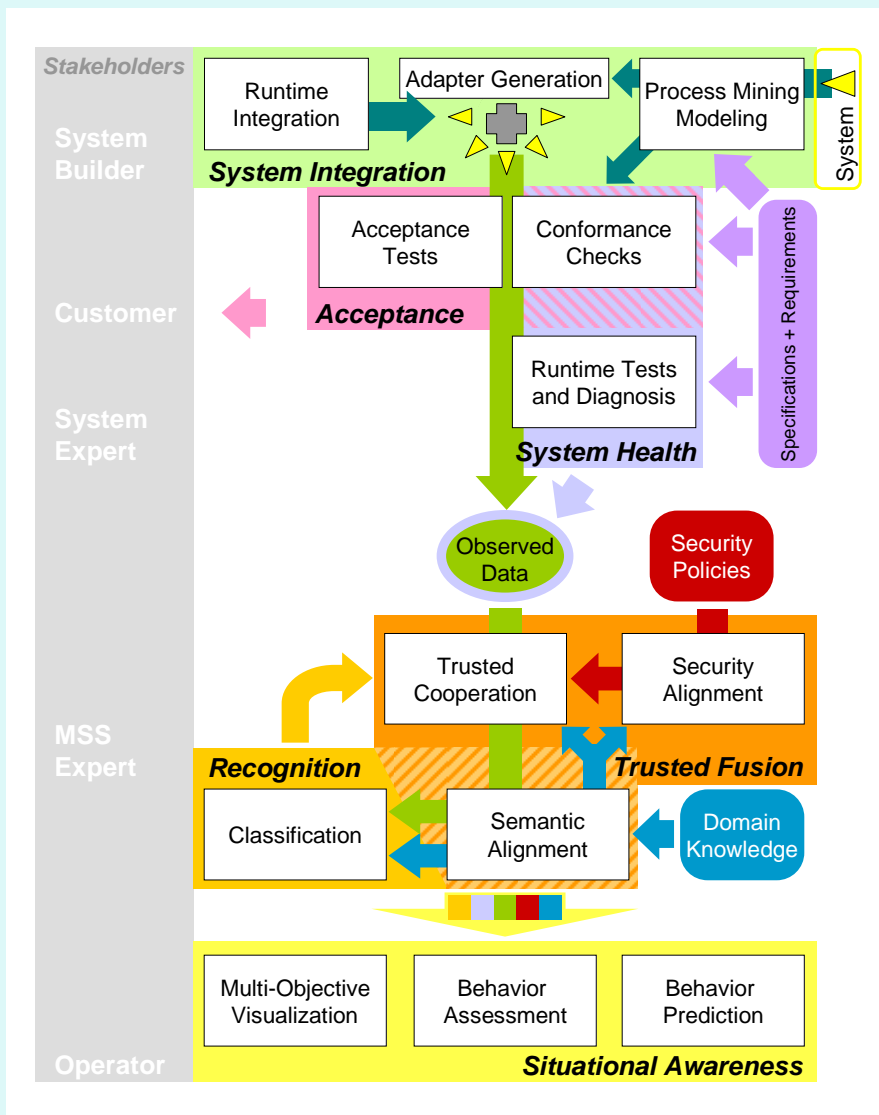
Introducing Poseidon

Fast setup of dynamic and information-centric systems-of-systems for situation-awareness and an integrated response for Maritime Safety and Security by Thales.

THALES
Carrying Industrial Partner

Embedded Systems
INSTITUTE

vrije Universiteit amsterdam

TUDelft
Delft University of Technology

TILBURG UNIVERSITY

Universiteit van Amsterdam

Period: June 2007 – May 2011
Capacity: 22fte / year

TU/e technische universiteit eindhoven

Noldus Information Technology

Core Elements

Run-time techniques for diagnosis, integration, and acceptance of dynamic systems-of-systems

Key benefits:
- Significant reduction of lead times
- Ease of multi-vendor integration
- Black box integration feasible
- Fast, less disruptive maintenance
- Quality-of-Service information available to situational awareness

Reliable architectures beneficial to adaptability and evolvability needed for dynamically changing systems-of-systems

Trustworthy fusion, analysis, and visualization of information from varieties of sources

Key benefits:
- Trustworthy alignment and integration of information from sources of various qualities
- Reduction of misconceptions between partners
- Impact of security policy and role
- Advanced decision support for operators in the MSS domain

Timeline
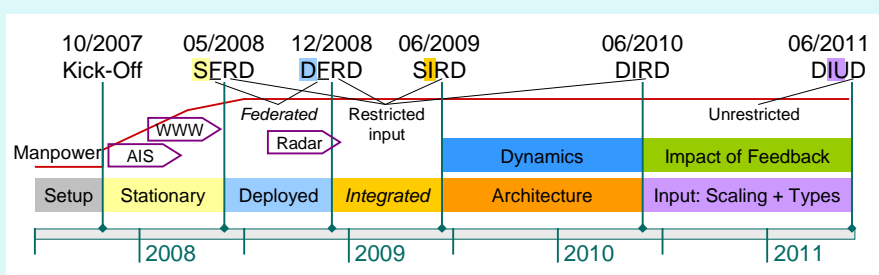
Main Scenarios:
- Stationary Coastal Safety and Security - permanent control of a governed coastal area
- Deployed Maritime Safety and Security - provision of services by temporarily dedicated forces

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