

S&T Campaign: Human Sciences Human Capability Enhancement Training

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Research Objective

- Provide a Soldier focused service-oriented distributed modeling and simulation architecture that supports the development and evaluation of large scale distributed System of Systems (SoS) applications
- Identify factors that affect Soldier effectiveness, to identify gaps in modeling those factors in current Soldier representations and to offer a service oriented, distributed modeling and simulation (M&S) environment able to fill these gaps
- Represent human aspects that affect Soldier performance for greater fidelity



ARL Facilities and Capabilities Available to Support Collaborative Research

- Experimental laboratory facility in STTC
- Specialized modeling/simulation tools
- Server cluster for the Service Oriented M&S Architecture
- Available expertise in distributed simulation and the OneSAF environment



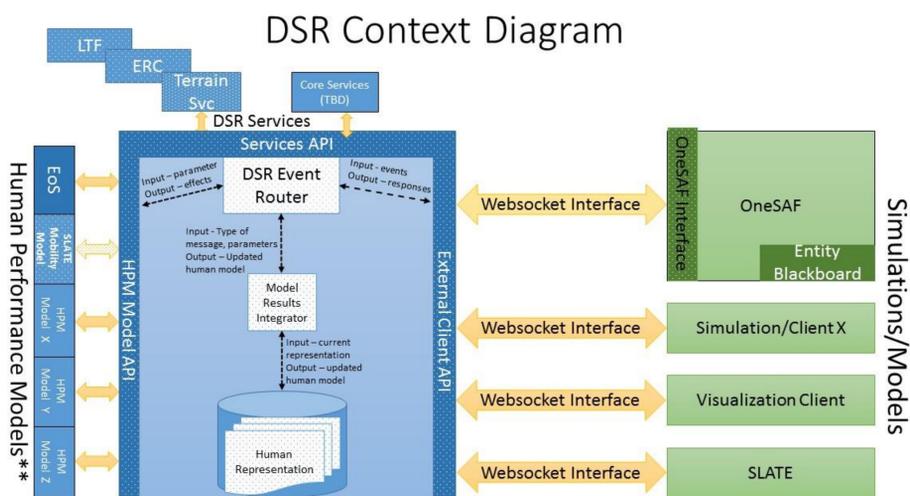
DSR 11 Areas of Interest

Challenges

- Finding computational models for the 11 areas of interests
- Validating the DSR behavioral responses in a M&S environment
- Scaling services in a distributed simulation environment

Complementary Expertise / Facilities / Capabilities Sought in Collaboration

- Advanced Research of Human Behavior Models (Computational)
- Expertise in Validating computational behavioral models
- Expertise in a Distributed Service Oriented M&S Architecture
- Expertise in OneSAF, VBS3, IWARS, Combat XXI



*Denotes that more than one can be executed simultaneously
**Human Performance Models will represent some aspects of the DSR identified Areas of Interest (AoI) with respects to a Soldier
Dotted areas denote areas where modifications are being made

DSR Server M&S Architecture

