



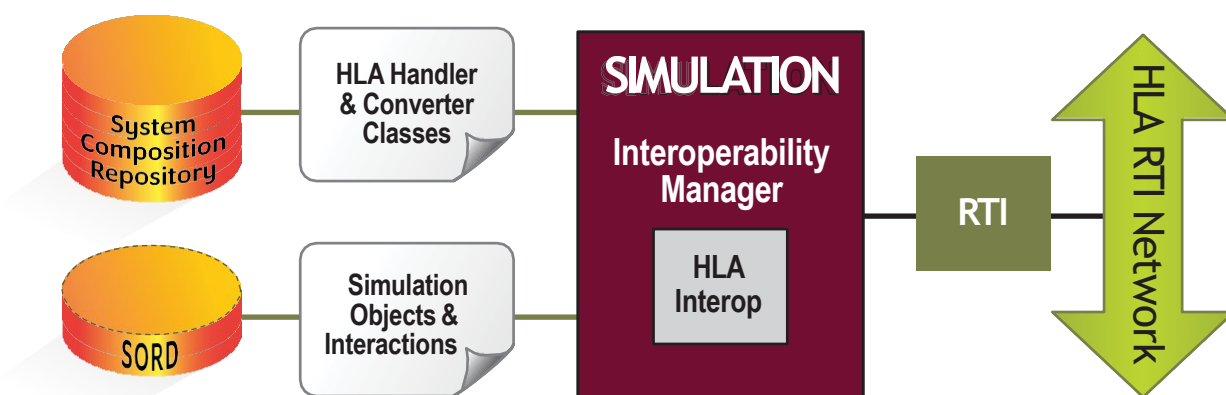
Interoperability

OneSAF interoperates with other systems using established industry standards, including Bifrost, HLA, DIS, CTIA, and JBUS.



High-Level Architecture (HLA) Version 1.3 and IEEE 1516

- ▶ Compatible with any Run-Time Infrastructure (RTI) that complies with HLA 1.3 or IEEE 1516 API standards
- ▶ Built-in support for the most popular Federation Object Models (FOM)
 - Modeling Architecture for Technology, Research, and Experimentation
 - Entity Resolution Federation (ERF) and Multi-Resolution Federation (MRF)
- ▶ Customizable mappings for entities and munitions/supplies
- ▶ Large-scale performance for up to 100,000 entities outbound, 50,000 inbound



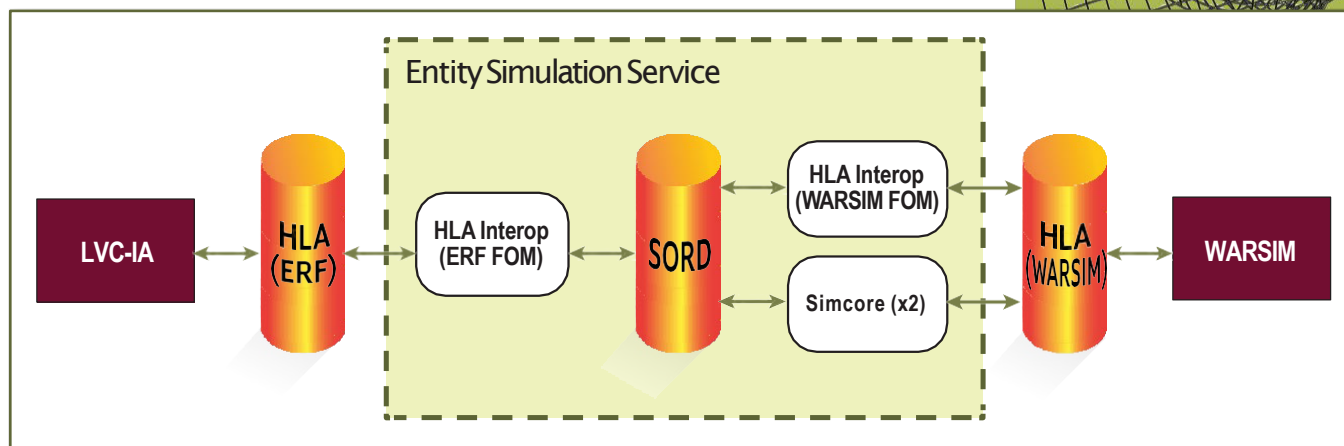
Distributed Interactive Simulation (DIS) and Virtual-DIS (V-DIS)



- ▶ Supports DIS Version 6, IEEE1278.1A-1998
- ▶ Customizable mappings for entities and munitions/supplies, including full support for SECore Master Entity List
- ▶ DISinterop capability is routinely exercised with external systems, including Night Vision Image Generator
- ▶ Supports V-DIS (also known as DIS Version 7) for use within SECore systems (e.g., CCTT and AVCATT)

OneSAF as Interop Bridge

- ▶ OneSAF can act as a “bridge” to translate between two (or more) different interop protocols:
 - Run multiple interop adapters, one for each protocol
- ▶ Example: In Joint Land Component Constructive Training Capability, OneSAF (known as the Entity Simulation Service) bridges between the internal WARSIM FOM and external systems:
 - Live, Virtual, Constructive-Integrating Architecture (LVC-IA) – using ERF 5.6 FOM
 - Combat Training Center-Instrumentation System – using DIS



Other Interop Standards Supported by OneSAF

- ▶ Common Training Instrumentation Architecture
- ▶ Joint Simulation Bus – data translation and communication infrastructure of the LVC-IA program
- ▶ Bifrost – uses modern commercial technology to connect and control multiple simulations while minimizing bandwidth and processor requirement (see the Bifrost fact sheet for further details)



For more information,
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