

Chapter 6 – DEFINITIONS

Acceptability Criteria: The criteria that the federation needs to meet to be acceptable for its intended use.

Acceptance: The decision to use the results produced by a federation for an intended use.

Accreditation: The official certification that a model or simulation is acceptable for use for a specific purpose.

Activity: A set of tasks that consumes time and resources and whose performance is necessary for the execution of the federation development and execution process.

Federate: An application that may be or is currently coupled with other software applications under a Federation Object Model Document Data/Federation Execution Data and a runtime infrastructure (e.g., federation managers, data collectors, real world (live) systems (e.g., Command, Control, Communications, Computers, and Intelligence (C4I) systems, instrumented ranges, sensors), simulations, passive viewers, and other utilities).

Federation: A named set of federate applications and a common Federation Object Model (FOM) that are used as a whole to achieve some specific objective.

Federation Conceptual Model: An abstraction of the real world that serves as a frame of reference for federation development by documenting simulation-neutral views of important entities and their key actions and interactions.

Federation Object Model: A specification defining the information exchanged at runtime to achieve a given set of federation objectives.

Federation Objectives: The statement of the problem that is to be addressed by the establishment and execution of a federation.

Federation Requirements: A statement that identifies a federation characteristic, constraint, process, or product that is unambiguous and testable and that is necessary for a federation to be acceptable for its intended use.

Federation Scenario: a set of initial conditions and time line of significant events used within a federation execution to achieve federation objectives.

Referent: A codified body of knowledge about a thing being simulated.

Validation: The process of evaluating a federation throughout the development and execution process to determine how well it satisfies the acceptability criteria within the context of the referent.

Verification: The process of evaluating a federation and its intermediate products to determine whether the products from a given development phase satisfy the conditions imposed at the start of that phase and, ultimately, determining that an implementation of a federation correctly and completely represents the developer's conceptual description and specifications.

DEFINITIONS

