Update on RIEDP SISO standards for Environmental Data sharing

ABSTRACT

The Reuse and Interoperation of Environmental Data and Processes (RIEDP) Product Development Group (PDG) is a Simulation Interoperability Standards Organization (SISO) effort. RIEDP PDG's primary goal is to promote reusability of environmental database generation efforts and foster interoperability between simulation systems through a standardized understanding of both their data products and their data generation processes. The focus is on the harmonization of environmental database generation processes, and the means to exchange such generated data, at
various points in the process - after the source data collection stage but before the runtime/proprietary database creation stage.

- The RIEDP PDG effort comprises two products:
  Product 1 is the RIEDP Data Model Foundations, a SISO guidance document. It formalizes the elements that are used in the creation and/or the sharing of environmental databases for M&S applications. It includes the RIEDP Reference Process Model (RPM) and the RIEDP Reference Abstract Data Model (RADM). In turn, the RPM and RADM rely on the detailed
  specification of metadata, spatial referencing, required file formats, profiles, and data organization on media to support the necessary semantics for comprehensive RIEDP-based data sharing between systems.
- Product 2 is the RIEDP Detailed Feature Description, a SISO standard document, complementing the RIEDP Data Model Foundations. It provides the required information for identifying and describing specific instances and/or abstracted types of environmental features, along with their specific attributes, value ranges, and metadata.

This paper will provide an update on the status of both RIEDP products, with the results of the Balloting Phase of Product 1, and a progress report on the development of Product 2.

BIO

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Jean-Louis GOUGEAT holds a Master's degree in Electronics and Communications and an Engineering degree in Telecommunications (1987). He has been a senior project manager at SOGITEC since 2001. He has 25 years of experience with R&D projects for the French MoD, and more specifically 20 years in simulation projects for training of military personnel, including company level training with Live simulation, Flight training with Virtual simulation and Command & Staff training with Constructive simulation.
He is in charge of the development of Distributed Mission Operation (DMO) activities at Sogitec. In this area, he was project manager of the AXED project aiming at developing the DMO in the French Air Force. He has been involved in various international efforts within NATO, from the genesis of the NATO PATHFINDER programme to the ongoing MSG-128 on Mission Training via Distributed Simulation among Alliance Air Forces. He is the Chairman of the Simulation Interoperability Standard Organisation (SISO) Product Development Group (PDG) on the Reuse and Interoperation of Environmental Data and Process (RIEDP).