Executive Summary

The primary objective of EDRC is to establish a common understanding across industry projects of how to use ISO 15926 and how to assess software conformance to specified ISO 15926 data structures and capabilities. Collaboration with MIMOSA on the OGI Pilot is a cornerstone of this project. EDRC will focus on a narrow scope limited to equipment and system data that is common with the OGI Pilot and HEED project, and consistent with the objectives of the ISO 15926 Information Patterns (IIP) project.

Problem Statement

Recent industry pilot projects of ISO 15926, including the MIMOSA and PCA Oil and Gas Interoperability (OGI) pilot project in 2012, have confirmed that the lack of rigorous methods for defining and assessing conformance to ISO 15926 is a major barrier to industry adoption and deployment of this evolving standard.

Business Motivation

With the results from this project incorporated into improved methods and documentation for conformance specification and testing and the software vendors offering conforming implementations, industry will be able to achieve plug and play interoperability and major cost and time savings for capital projects.
Project Approach

The EDRC project will establish a common foundation for representing, exchanging, and sharing equipment data using ISO 15926 and will demonstrate how to assess software implementations compliance. The MIMOSA-PCA OGI pilot project confirmed the lack of rigorous methods for defining and assessing conformance to ISO 15926. EDRC will provide input to JORD and to ISO committee TC184/SC4/WG3 which is responsible for completing the set of documents for ISO 15926.

Project Deliverables

1. Procedures for specifying and assessing conformance of COTS ISO 15926 interfaces
2. Demonstration of successful use of these procedures for priority use cases, and of the validation & conformance assessment tools used
3. Report summarizing obstacles & recommendations for improvements to ISO 15926 documentation, development process & tools to enable effective conformance & interoperability testing

Roadmap Elements and Usage Areas

EDRC lies in the heart of “Information Management” and advancing interoperability. EDRC will contribute to several industry projects including the OGI Pilot, JORD, and IIP. EDRC will focus on equipment and system data moving from design, through procurement and to installation. EDRC will help to provide delivery of handover data for Operations and Maintenance.

Project Team and Contacts

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Participating Members Organizations:
AREVA, Autodesk, Bentley, CH2MHILL, DMS Software Co., Dow, Emerson, EPRI, ExxonMobil, Hatch, MIMOSA, NIST, Siemens, Tecgraf/PUC-Rio, ThomasNet, Vniiaes, Worley Parsons