Technical Committee 184: Industrial automation systems and integration
Subcommittee 4: Industrial data

TC 184/SC4 N1208

2001-08-28

ISO Committee Draft Ballot for ISO 18876-0002 Integation of industrial data for exchange, access, and sharing Part 2 - Integration and mapping methodology

Enclosed is the ballot for ISO 18876-0002, "Integation of industrial data for exchange, access, and sharing Part 2 - Integration and mapping methodology". The proposed scope of Part 2 - Integration and mapping methodology is as follows. This part defines methods for analysis of information requirements, creation and transformation of data models, and mapping between data models, satisfying the following requirements: creation, extension and updates to the integration model; creation of views on the integration model to support particular application domain requirements for exchange and/or sharing; creation of mappings from external application models to the integration model.
The methodology is language-independent, although consideration will be given to the creation of guidelines (either as informative annexes or as separate standing documents) that describe how the methodology can be implemented using particular languages.
These initial parts are intended to define a baseline for future development. The scope of this New Work Item excludes: development and standardization of languages for integration; development and standardization of integration models. Based on the progress of the first two parts, and development of consensus within the work of WG10, the SC4 Data Architecture PWI expects to develop and submit additional New Work Item Proposals during 2000. The goal of the SC4 Data Architecture PWI is to develop and standardize an integration model covering the full scope of SC4. The architecture overview (proposed here as Part 1) and the integration and mapping methodology (Part 2) are necessary to the development of an SC4 integration model. However, Parts 1 and 2 can also be applied to the development and use of other integration models. Examples discussed by the SC4 Data Architecture PWI include: development of a "STEP integration model" allowing integration of data conforming to multiple ISO 10303 Application Protocols; mapping of external data models to ISO 15926-2 (which already is, in terms of the IIDEAS architecture, a potential integration model). {refer wgn10-293}

P-members are asked to complete a ISO Form 8, Vote on Committee Draft, and provide this form with their comments to ISO TC 184/SC4 Secretariat. http://www.nist.gov/sc4/iideas/parts/part002/cd/forms

The document is available digitally through SOLIS via ftp or www http://www.nist.gov/sc4/iideas/parts/part002/cd

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