

**Название публикации:**

Semantic information management: The approach to semantic assets development lifecycle

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**Аннотация:**

The application of semantic integration methods faces challenges arising at collaboration between IT-specialists and domain experts during the model building stage. These challenges can affect the correctness of domain formalization as well as the whole outcome of the integration in distributed information systems. To overcome the lack of semantic interoperability we suggest the creation of a collaborative platform which provides the (re)use of semantic assets (SA) for further semantic integration. The analysis of the limitations existing in SA management standards leads the authors to propose the collaborative approach, based on an extended lifecycle of semantic assets. The authors consider the implementation of the platform based on the Asset Description Metadata schema extension to be a rational option. © 2018 Yury Akatkin, Elena Yasinovskaya, Mikhail Bich.

**Ключевые слова:**

ADMS, Distributed information systems, Lifecycle of semantic assets, Model driven architecture, Semantic information management, Semantic integration, Semantic interoperability