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Semantic information management: the approach to semantic assets development lifecycle

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The application of semantic integration methods meets challenges, which arise during collaboration between IT-specialists and domain experts at the model building stage. These challenges can affect correct formalization of the domain as well as the outcome of the integration in distributed information systems as a whole. The creation of a collaborative platform for semantic integration which provides the (re)use of semantic assets (SA) is suggested to overcome the lack of semantic interoperability. The analysis of the limitations existing in standard SA management 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 valid option.

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