

- Title:** Using agent oriented technology on developing an effective enterprise architecture implementation methodology
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- Abstract:** Enterprise Architecture (EA) is a holistic view of an enterprise, including the business, Information Technology, and infrastructure. EA is managed, developed, and maintained through Enterprise Architecture Implementation Methodology (EAIM). There are complexities in current EAIM's method, practice, and modelling, which cause the ineffectiveness of EA implementation. The objective of this study is to present the current problems of existing EAIMs and highlight the application of Agent Oriented Technology (AOT) on developing an effective EAIM, which can address the ineffectiveness of EA implementation. Several Agent-Oriented Methodologies (AOM) have been proposed in literature for developing an application and they have potentials in their modelling methods, practices, and development phases, which can contribute on developing an effective EAIM. This contribution can effect on improvement of EA implementation by reducing the complexity of EA implementation, increasing the alignment between business and IT, providing appropriate requirement analysis for developing, and reducing impedance mismatches between different development phases. This research opens new topics in AOT and EA domain, which would follow by other researcher and extend the usage of AOT in IT and Information Systems.