Abstract

Service-oriented architectures (SOA) is an emerging approach that addresses the requirements of loosely coupled, standards-based, and protocol independent distributed computing. To build an SOA a highly distributable communications and integration backbone is required. This functionality is provided by the Enterprise Service Bus (ESB) that is an integration platform that utilizes Web services standards to support a wide variety of communications patterns over multiple transport protocols and deliver value-added capabilities for SOA applications. This paper posits a technology and approaches that unify the principles of SOA, mathematical definitions for individual services and how the functions are designed to offer a manageable, standards-based SOA backbone that extends middleware functionality throughout
by connecting heterogeneous components and systems and offers integration of services for a e-learning and research resources.

Reference

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