

Enterprise Application Integration through a Clustered Framework with  
Intelligent Agents  
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### Abstract

Many businesses face the growing problem of data chaos due to the accumulation of disparate data through the years. This leads to the problem of data inconsistency. Enterprise Application Integration (EAI) is a new business solution by combining the existing applications and the new code, so that information can be shared. Data integration is often the entry point of enterprise integration. This research proposes a clustered framework that integrates the enterprise data of various sources through a message brokering mechanism. The major components for brokering messages among different applications are intelligent agents. Unlike traditional messaging systems, message brokers increase the scalability and provide a better mechanism for dealing with failures. With the proposed agent-based framework, the enterprise information can be integrated in a timely and efficient way.

Keyword : Enterprise Application Integration, Data Consistency, Intelligent Agent, Data Integration, Message Brokering Mechanism