Evaluating Enterprise Integration Middleware Technologies

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Abstract

Architects are faced with the problem of building enterprise scale information systems, with streamlined, automated internal business processes and web-enabled business functions, all across multiple legacy applications. The underlying architectures such systems are embodied in a range of diverse products known as 'enterprise integration' technologies. In this tutorial, we highlight some of the major problems, approaches and issues in designing enterprise integration architectures and selecting appropriate supporting technology.

An architect's perspective on designing large-scale integrated applications is taken, and we discuss requirements elicitation, architecture patterns, enterprise integration technology features and risk mitigation. Specific technology platforms covered include messaging, message brokers, application servers, business process management and Web Services and Service-oriented architecture technologies.