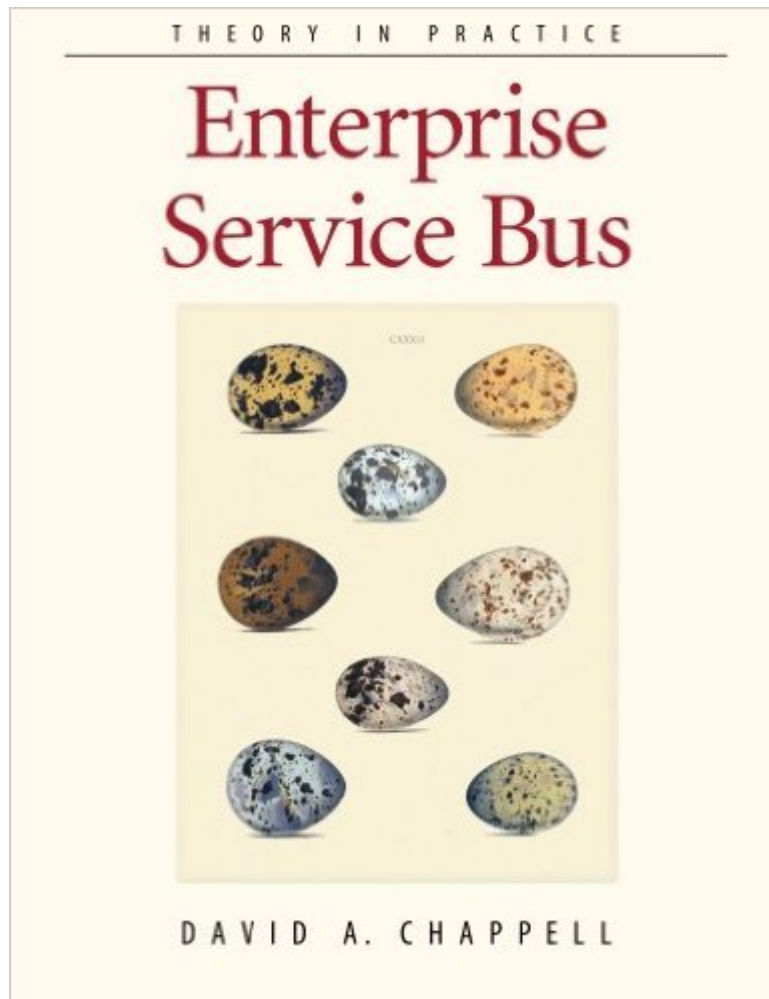


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Enterprise Service Bus: Theory In Practice



Synopsis

Large IT organizations increasingly face the challenge of integrating various web services, applications, and other technologies into a single network. The solution to finding a meaningful large-scale architecture that is capable of spanning a global enterprise appears to have been met in ESB, or Enterprise Service Bus. Rather than conform to the hub-and-spoke architecture of traditional enterprise application integration products, ESB provides a highly distributed approach to integration, with unique capabilities that allow individual departments or business units to build out their integration projects in incremental, digestible chunks, maintaining their own local control and autonomy, while still being able to connect together each integration project into a larger, more global integration fabric, or grid. Enterprise Service Bus offers a thorough introduction and overview for systems architects, system integrators, technical project leads, and CTO/CIO level managers who need to understand, assess, and evaluate this new approach. Written by Dave Chappell, one of the best known and authoritative voices in the field of enterprise middleware and standards-based integration, the book drills down into the technical details of the major components of ESB, showing how it can utilize an event-driven SOA to bring a variety of enterprise applications and services built on J2EE, .NET, C/C++, and other legacy environments into the reach of the everyday IT professional. With Enterprise Service Bus, readers become well versed in the problems faced by IT organizations today, gaining an understanding of how current technology deficiencies impact business issues. Through the study of real-world use cases and integration patterns drawn from several industries using ESB--including Telcos, financial services, retail, B2B exchanges, energy, manufacturing, and more--the book clearly and coherently outlines the benefits of moving toward this integration strategy. The book also compares ESB to other integration architectures, contrasting their inherent strengths and limitations. If you are charged with understanding, assessing, or implementing an integration architecture, Enterprise Service Bus will provide the straightforward information you need to draw your conclusions about this important disruptive technology.

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Customer Reviews

This book should be required reading for anyone involved with EAI, especially integration architects. For those of you who may not have heard about ESB, it is a rather new approach to structuring a SOA (service-oriented architecture), using a distributed MOM infrastructure, XML messages, intelligent message routing, automatic transformation of messages, and centralized administration. The SOA approach to EAI solutions is compelling, but it is still too early in the game to tell if ESB will take the world by storm. It has a lot of promise, and many EAI vendors are jumping onto the bandwagon that Sonic, including Dave Chappell, helped to build. The book offers the first comprehensive definition of an ESB that I have seen, almost entirely stripped bare of vendor-specific information and sales info. I say almost, for some issues (such as app-servers vs. ESB service containers) are presented in a less vendor neutral fashion than I would like. Overall, the book stays high on useful content, and low on vendor product positioning. The book combines nicely described technical descriptions of ESB features with some high-level case studies culled from Dave's experiences in industry, or based on interviews with IT leaders that he conducted while researching the book. The technical descriptions avoid becoming too detailed, but are sufficient to capture the essential issues encountered in integration. The book's diagrams, resembling Gregor-grams, are very useful, although I was a bit mystified to find a reference card for the glyphs used, tucked away in the back of the book. The diagrams are self-explanatory, IMHO. The case studies are similarly abstract, avoiding introducing a level of detail that would cause the forest to be lost amongst the trees.

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