

عنوان مقاله:

VE Architect-Driven Service-Oriented Business Network Process Realization

محل انتشار:

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خلاصه مقاله:

Business opportunities are not permanent. Enterprises to instantly meet them collaborate with each other through realizing business network processes (BNP) in which their activities are done with various partners within a network. Recently, these business network processes are enabled with Service-Oriented technologies, that we call them Service-Oriented Business Network Process (SOBNP). In today's dynamic and changing environment Virtual Enterprise (VE) architects require a flexible framework through which they could design and realize SOBNP instantly. In this theme, there exist a number of frameworks that constitute the SOBNP, but they almost neglect two salient issues: a) Covering and incorporating high-level (i.e. business level) and low-level (i.e. technical level) requirement in business process creation; b) Adjusting to the VE architect without deep knowledge of computer science. Thus, the main objective of this paper is to propose a framework and related tools and techniques to constitute SOBNP, as a main building block of Instant Virtual Enterprise (IVE), which address two above-mentioned issues. The framework namely SOBNP Realization consists of three phases including requirements specification, ontology-based partner search and selection, and BPEL (Business Process Execution Language) process synthesis. A prototype system is implemented to demonstrate the concept of VE architect-driven SOBNP realization in IVE.

کلمات کلیدی:

Semi-automatic realization of business network process, Service-oriented Business Network Process, Ontology-based partner selection, Instant virtual enterprise, BPEL process

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