Developing Enterprise Business Architecture for SMEs: A Strategic Tool for Resource Orchestration and Managing Dynamisms

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Abstract

Competing in a dynamic ecosystem, SMEs need a strategic tool for managing co-evolution with the dynamic market in order to create sustained value. Drawing from the specific SME characteristics operating in a collaborative network ecosystem of firms, this paper elicits the specific strategic management requirements that need to be satisfied by an Enterprise Business Architecture. Extensive exploratory literature review and semi-structured interviews are used to explicate the underlying drivers of SME requirements for business oriented architecture that need to be addressed by the requisite EBA framework. The paper finds that, the EBA framework must possess the capabilities to guide and assist the SMEs to adapt with the dynamic collaborative ecosystem of firms and sense, leverage and orchestrate the network of resources and ICT capabilities to create sustained value. This paper concludes with some guidelines for developing the business architecture-enabled journey toward creating sustained value within the said dynamic ecosystem.

Keywords: Enterprise Business Architecture, Small and Medium Enterprises

Introduction

Small and Medium Enterprises (SMEs) are a key driver of a nation's economic growth (Ayyagari et al., 2007). Competing in a dynamic collaborative global ecosystem, SMEs need a strategic management tool to help develop the requisite capabilities, structure, and integrate and leverage the underlying resources in line with the dynamic market and ecosystem conditions. More importantly the emphasis has been on investment, management and promotion of ICT and its related resources and capabilities through adaptation of a variety of IT management solutions which in many cases have not realized the value originally expected (Karvonen, 2011).

In this context Enterprise Business Architecture (EBA) may seem to be ideal solution as a strategic management tool to help manage and structure business, IT systems, information and knowledge and to facilitate the IT decision making process, alignment to the business goal and manage dynamic environments (Mingxin and Lily, 2009). So far a few research has defined applicable architecture frameworks for SMEs which, however, is mostly focused on IT (but not business) architecture (Jacobs et al., 2011). However, to our best knowledge, currently there has been no EBA framework defined for SMEs yet. Simultaneously the implementation and use of current enterprise architecture frameworks is a daunting task and requires a substantial investment in organizational resources in terms of time, people, and financial (Harishankar and Daley, 2011).

The main goal for this paper is to explore what are the major SMEs requirements that the EBA framework should address. Accelerating technological changes, rapidly changing market demands and growing globalized collaborative networked organizations (Zeng et al., 2010), coupled with the SME's inherent limitations and resource constraints (Antlova, 2010), underscore the need for applying business oriented architecture as strategic management tool for SMEs to create sustained value. Likewise in this paper we focus on how EBA enables SMEs first to manage and orchestrate their limited resources and capabilities, and second to create sustained value within dynamic collaborative ecosystems. Thus based on extant literature review and interviews conducted with SMEs managers and industry experts we aim answer following questions:

- RQ1: What are the EBA framework attributes that which make it applicable to SMEs?
- RQ2: How does EBA enable SMEs to deal with their resource limitations and constraints?
- RQ3: How does EBA enable SMEs to create sustained value in a dynamic collaborative ecosystem?

Thus this paper is structured as follows. First, we review the organizational and environmental characteristics of SMEs that encourage them to use EBA as a strategic management tool. Second, the strategic organizational purposes of EBA are explained to set the context for exploring the SME requirements for EBA. Third we describe our research approach and present the finding of our study in three parts to answer the above research questions. Finally, we conclude the paper with a summary of the guidelines and insights for SMEs to develop an EBA framework.

SMEs and Strategic Requirements for an EBA

SMEs have a vital role in nation's economic growth, innovation and employment. Due their significance, studies of their business advancement and development which lead to possible economic and social development, have gained increased attention for most scholars and practitioners (Commission, 2010). More specifically the focus has been given to ICT usage and utilizations as an essential ingredient of business resources and capabilities in order to create better value within dynamic environments (Antlova, 2010). The key factors that encourage SMEs to develop and use a strategic management tool such as EBA can be categorized in internal organizational and external environmental factors.

Although the advantage of ICT adaption within SMEs is clearly illustrated (Wang and Shi, 2011), one should be aware of the importance of strategic management, resource orchestration and associated ICT investment decision making process in order to create sustained value from such resources and capabilities (Levy et al., 2001). Although enterprise systems and processes have been structured in SME's value chain using ERP, CRM and BPM (Bajwa et al., 2009, Feldbacher et al., 2011, Ignatiadis et al., 2010), a wide range of extant SME research has shown substantial problems for SMEs to define and govern the implementation of IT strategy to realize technology change in alignment with their business (Vos, 2005). Indeed the need for an EBA has been called for in order to articulate the structure of business processes, governance, information systems strategies and to align IT solution to business strategies and requirements (Burton, 2008). Developing strategies and clear roadmap around ICTs capabilities for SMEs, more likely enable them to identify new technologies, improve performance of new systems along with utilizing and better leveraging current capabilities (Riemenschneider and Mykytyn, 2000).

SMEs as a main participant of collaborative networks (Camarinha-Matos, 2009) are engaged in information exchange, resource acquisition and technology transformation which help them to overcome the lack of resources and challenges that they are facing in the dynamic ecosystems (Nieto and Santamaría, 2010). The openness of such dynamic ecosystems drives SMEs to develop the capabilities and capacities in order to; (a) be susceptible to sense and acquire opportunities from external innovations, (b) adapt to the new network structure whether it is technology, systems or business structure. SMEs have developed ICTs solutions and structures to meet dynamic market demands and adapt to different ecosystems (Ignatiadis et al., 2010). However not only will the internal organization interoperability, infrastructure, technology, information, strategy and business structure determine the operation and formation of collaboration networks, but also appropriate architecture principle, ICT strategies and technology alignment are required to enhance network goal [49].

The Role of Enterprise Business Architecture

Enterprise Business Architecture (EBA) is a multidisciplinary concept which represents the real world aspect of the business and integrates the fundamental disparate concepts of an organization to

guide its transformation to the target or new organizations (al, 2009). Using EBA concept enables organizations describe current and future states, the relationship between its internal and environmental elements, define the strategies and the associated roadmap to articulate these strategies in measurable and actionable ways (Burton, 2008). Using this capability enable ICTs to create more value for organization internally as well as within collaborative ecosystems (Bradley et al., 2011). EBA is an ongoing process to manage internal and external changes and to re-engineer organizational structure in terms of business processes, knowledge, strategy and business capabilities to adapt to the new environment (Hoogervorst, 2004).

EBA frameworks have been applied to large enterprises and the use of this approach has become a top priority for many of their manager (Bradley et al., 2011). Various EBA approaches have been presented, differing in purpose, level of details and scops. They have been categorised as either "business-centric" or "IT-centric, focusing respectively on business or ICT aspect within the organisation (Glissmann and Sanz, 2010). The requirements which the EBA framework needs to fulfill depend upon the enterprise characteristics and objectives in their business transformation. The value of EBA is likewise expected to be significant for small and medium enterprises. But due to the resource-constraints and nature of SMEs with their idiosyncratic characteristics and requirements, further investigations are required to explicate the specific EBA attributes applicable to SMEs.

Research Methodology

In order to address our research questions, we conducted semi-structured interviews with three SMEs and three industry experts from multinational IT consulting companies as well as extensive exploratory literature review. The respondents included SMEs managers/owner which represented public sector as well as Business Architecture specialists (from consulting firms). The selected SMEs are of interest and relevance, since they are facing challenges in managing ICT resources and adapting to the dynamics of networked organizations.

The interview results are supported by the literature review and presented in three categories to answer the research questions. First, the general EBA framework attributes are derived from the SMEs strategic management requirements and their related specific structure. Resource constraints and the importance of resources and capabilities within their organization drive the second category. Since collaborative organization network evolves, the new requirements have called for distinct capabilities in terms of structure, process and knowledge and ICT. In line with SME requirements within a collaborative ecosystem, the third category covers the challenges that the requisite EBA needs to address.

General EBA Framework Attributes Applicable to SMEs

Developing architectures in different levels of an enterprise can be a daunting task for any business, but more challenging for small and medium sized enterprises (Bidan et al., 2012). The challenges faced by SMEs are related to their specific characteristics, constraints and resource shortages. The limited number of trained and experienced people within their organization causes the small team of managers to be responsible for many tasks and perform a central role in their decision making process. In essence, resource shortages drive SMEs to seek for a simple, quick-action strategic management framework for managing the entire strategic ICTs planning and implementation lifecycle that can be readily and easily applied by small group of people (mainly SME managers and owners) (Gagalis et al., 2010, Sternad et al., 2010). Both SMEs manager and consultant interviewees have acknowledged this. An Enterprise Architect stated it this way: "...I would suggest a framework that is easy to initialize in a relatively green-field situation. Being a more intuitive and understandable framework for small business owners and managers, encourage the use of developed roadmap in the decision making process." A small government agency's manager indicated their needs in this way: "... we need a roadmap that is not relying on complicated techniques and elaborate framework." A small university agency required "A solutions that can be trained to the group of our manager and be managed in their later stages". Therefore the "simplicity" and "easy to learn" as properties or features of the EBA become a valid concern for both SMEs and industry experts. The simplicity of EBA framework was addressed by an Enterprise Architect in this statement; "Based on a business context and the elements pertinent to that context would constitute "simplified" EBA that is meaningful to the SMEs executives" As each SME may be at a very different start point on their business architecture journey and facing different challenges, "...the framework's attributes may need to be tailored and adjusted for each of them", a Business Architect suggested. This would contribute the adaptability of the framework.

Resource/Capability Management and Orchestration

Due to SMEs' specific business characteristics in terms of working capital constraints and lack of resources, they have a pressing need to strategically structure and manage their ICTs capabilities and resources in line with the changing external environments. Besides that, SMEs are facing pressure in making decisions around three types of issues. First, selecting the fit-for-purpose ICT capabilities in line with the resource constraints requirements (Blackwell et al., 2006). Second, as a consequence of the first, making strategic decisions as to where to make the appropriate ICT investment (Levy et al., 1999). The third is how to utilize and integrate the new system or technology into the business in order to enhance the business (growth) performance and/or reduce the total operational costs (Jacobs et al., 2011). These underscore the importance of EBA as a strategic tool that facilitates the decision making process and enables SMEs to orchestrate, integrate, manage and structure their business resources and ICT capabilities

This is aptly demonstrated by the strategic challenge faced by the owner of a college (SME) who was concerned with integrating the current system with potential new systems; "We have developed three systems independently and now we facing challenges in linking them together" was his introductory remarks. "Our main problem is now we need to develop more systems to be able to run our courses online across the country". A second problem is "we need to use current systems and their capabilities as we have spent resources on them and cannot get rid of them, Our systems and IT capabilities should have been developed to embrace the new requirements", he indicated. A third problem is "we are surrounded by different solutions and cannot make decision which one is the best suitable system to fulfil future needs and comply with current systems" he added. However the group of enterprises agreed that the integration, orchestration and management of their ICTs resources and competencies are an important issue. Thus according to the college owner's perspective of their current- and future-state strategic requirements, the new EBA framework should guide the evolution, integration and orchestration of business competencies specifically ICT resources to address new (future-state) business requirements. Furthermore the proposed EBA framework should support sensing the unseen opportunities and guide SME's business investments to where they can create the most sustained value.

Adapting to the Dynamic Collaborative Environments and Managing Dynamism

The main SME's need for EBA as strategic tool has been driven by dynamic environment challenges. Collaborating with the network of organizations and adapting to the ecosystems, the dynamic market demands and technological changes are the key factors that need to be addressed by the requisite EBA. In a dynamic collaborative ecosystem, SMEs need to think strategically in all aspects of their business and structure, bundle and leverage network and firm resources and capabilities with the purpose of creating value (Nieto and Santamaría, 2010). Participating in a collaborative network, facilitated by globalized ICTs, SMEs are increasingly confronted with three issues. The first issue is defining aligned business and ICTs strategies that are contingent with the market, network and technological changes. The second issue is concerned with managing network adaptability through inter-firm interoperability from both technological and business level perspectives (Westphal et al., 2010). The third issue is concerned with achieving market penetration and creating value through meta-capabilities that can synchronize and integrate inter-firm networked competencies and resources to co-create value. These considerations underscore the development of the requisite EBA framework

(or capabilities) that enables SMEs to manage a variety of networked organizations and simultaneously to create sustained value by leveraging the environmental opportunities (Allred et al., 2011). The new EBA framework requirement is reflected in this statement by an Enterprise Architect and consultant, "In the new way of business where SMEs must dynamically evolve in a continuously changing environment, the EBA framework should extend its focus beyond organizational boundaries to the business network ecosystem".

For the majority of SMEs we interviewed, participating within networked organisations is a critical requirement in order to fully utilize and leverage their networked resources to continuously co-create new product and services. A small sized government agency requires collaborating with different industry bodies and state and territory governments. "We require ongoing investments in intangible assets, such as ability to collaborate and integrate with our stakeholders", the agency's CEO indicates. "Our systems and business structures are defined by experiences and based on new projects as well as the government policies. The resources that each company within the network has assembled are often shared with other companies. We are independent member and it is each company's responsibility to build and maintain its capability to develop its resources and leverage the shared resources and capabilities", he added. An owner of a small sized college which is collaborating with the group of universities requires a clear roadmap to "integrate within the network" and at the same time "leverage assembled systems and other capabilities available for the members". Furthermore business and technological integration and alignment of the collaboration network, sense-making of the external market and new technological opportunities and threats, and leveraging these opportunities are all important requirements for the SME to survive and thrive as a main participant in the global collaboration network. These requirements must be addressed effectively by the EBA framework.

Conclusions and Some Guidelines for Defining applicable Enterprise Business Architecture for Small and Medium Enterprises

Our literature review and empirical findings from the interviews with SME owners/managers and industry experts revealed that EBA conceptually is highly desirable by SMEs as a strategic management tool for dealing with resources constraints and for managing co-evolution with the dynamic market and technological environments to create sustained value. The interviews showed that the organizational capabilities for internal and external ICTs resources orchestration, integration and management in a collaborative network of firms are fundamental requirements that must be satisfied by the requisite EBA framework. To that end the EBA framework should strategically position SMEs within the collaborative network and enable them to leverage, manage and orchestrate internal and external resources and capabilities to create sustained value. Our research has yielded the insights on the requisite EBA, which are showed in table 1.

Area of research **Guiding statement Insights** SME's EBA framework ...the suitable framework should Avoid the complex and attribute be trained to the group of top technical based framework manager and be managed in Framework needs to be their later stages internally. adjustable based on business more intuitive and context understandable framework for Framework should be small business owners performed quickly and trained to managers. governed SME's and by owner/manager ...facing challenges in linking Managing and **EBA** should Requisite orchestrating resources new and current resource. facilitate ICT decision making and capabilities ... Which one is the best suitable process by defining contingent system to fulfil future needs and strategies with dynamic market and technology comply with current systems? Mapping and integrating resources and capabilities ability to collaborate and Managing dynamic EBA framework should integrate with our stakeholder. ecosystems result in business and ICT strategies ... leverage assembled systems that well suited with the dynamic and other capabilities available collaboration environments. for the member. EBA framework for SMEs should drive the business value or value proposition in the market. Build the capabilities to sense and integrate ecosystem capabilities contingent strategic planning in the strategy

Table 1: Insights for Defining EBA for SMEs

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ISBN: 978-0-9860419-1-4

Creating Global Competitive Economies: 2020 Vision Planning & Implementation

Proceedings of The 22nd International Business Information Management Association Conference

November 13-14, 2013 Rome, Italy

Editor

Khalid S. Soliman

International Business Information Management Association (IBIMA)

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