Competitive Paper Abstract: Towards an Electronic Commerce Model for Industrial Procurement

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Abstract

Electronic commerce has gained widespread reputation in the business community for reducing procurement costs. There has been a decline in media interest in the area of electronic commerce (EC), although industrial companies are increasingly using EC-solutions. Electronic commerce over the Internet allows most companies to consider the use of Internet in the interaction with e.g. suppliers. Supply chain management (SCM) has increased the view from individual buyer/seller relationships to instead encompass a sequence of relationships, where the goal is to provide end-customer value in competition with other chains. A prerequisite for efficient SCM is the utilisation of information technology (e.g. electronic commerce) in order to improve and reduce costs in buyer/seller interactions. Although SCM focuses on the total supply chain, many SCM efforts are initiated from a buyer perspective (cf. Rehme 2001). This means that procurement is an important aspect to investigate in order to understand how electronic commerce is used in buyer/seller relationships.

Procurement between industrial companies involves a complex but structured process that involves several steps all the way from the search of suppliers to the resulting delivery and invoicing of goods (see e.g. Persson and Virum, 1998; van Weele, 1998). There are normally a limited number of suppliers available and the procurement process also involves the build up of personal relations between representatives from several departments of the companies (Rehme, 1998). Authors like Kraljic (1983) and Van Weele (1998) have in their work developed purchasing strategies for industrial companies that are based on e.g. the product characteristics. The purchasing strategies employed, the relationship building and the resulting procurement processes may to differing degrees be affected by the use of electronic commerce in the purchasing operations. In order to increase the awareness of how e-commerce is, and can, influence procurement strategies and the associated procurement process it is of importance to examine existing and possible e-commerce/procurement models.

Although companies’ usage of electronic commerce is increasing, the knowledge on elements affecting the different solutions is insufficient, which means that they cannot be utilised to their full potential. There are several elements – product characteristics, technology, business processes, business models and behavioural elements – that, in our opinion, need to be considered when adopting electronic commerce solutions in procurement. Existing procurement practice and knowledge need to be set against the capabilities of electronic commerce to find out more about the potential and the distinctions instead of "buying" the general cost saving statements.

The purpose of this paper is to develop an analysis model for electronic commerce applications in industrial procurement. The intent with the developed model is to increase knowledge in the area and provide practitioners with useful insights into the use of e-commerce in the field of procurement.
References


