

## Research on Inheritance of Extend Case Transfer Interorganization Workflow Management

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**Abstract:** The paper mentions Extend Case Transfer Architecture (ECTA) interorganization workflow management is a fit one to Collaboration Commerce. ECTA modeling has three steps. During the third step, modifying private workflow might cause some vital wrongs, such as dead lock, live lock and dead task. These problems could change the overall workflow's soundness and efficiency. An approach, which based on Petri net, is present to protect the inheritance of public workflow in private domain, and an instance of C-commerce workflow modeling is shown.

**Keywords:** C-commerce, interorganization workflows, ECTA, Petri net, WF-net

### 1. INTRODUCTION

With the explosive growth of the Internet in the last couple of years, electronic commerce is now able to offer solutions for a much broader range of business processes than EDI (Electronic Data Interchange) previously addressed. Business-to-business E-commerce has seen tremendous growth due to the globalization of the worldwide economy. Many corporations are extending their markets by mergers and strategic alliances with other companies throughout the world. The C-commerce (Collaboration Commerce) is presented, which the business processes are key factor to implementing business collaboration<sup>[1]</sup>. Business processes of each business partner now become coupled in some way, creating interorganizational workflow processes<sup>[2]</sup>.

The Workflow Management Coalition (WfMC) defines some workflow management system as follows<sup>[3][4]</sup>: Capacity Sharing Architecture (CSA), Chained Execution Architecture (CEA), Subcontracting Architecture (SCA), Case Transfer Architecture (CTA), Extend Case Transfer Architecture (ECTA), and Loosely Couple Architecture (LCA), in which ECTA is considered more fit to C-commerce. For this form, each business partners has a copy of the workflow process description, and it is possible to allow local variations and extensions. ECTA provide the flexibility and promptness to business chance which based on market



















