In this study, we attempted to demonstrate the benefit of information sharing on supply chain performance in a three echelon supply chain that consists of one distribution center and two store retailers. To perform the analysis, the discrete event simulation model for inventory replenishment process was developed based on the actual data obtained from the retailer. Various replenishment information sharing mechanisms were analyzed for promotional and non-promotional merchandises in each store. In addition, we also analyzed the benefit of inter-store information sharing and inter-store transshipment on supply chain performance. The impacts of information sharing mechanisms on retail supply chain performance were investigated to find the mechanisms that led to the long-run average total cost minimization. © 2010 IEEE.

Author Keywords
Information sharing; Retail supply chain; Risk sharing; Supply chain coordination

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