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Distribution Network Design for E-Retailing Application: A Model Suggestion for Local Retailer in Izmir

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ARTICLE INFO	ABSTRACT
Keywords:	Purpose – The rapid development of technology, acceleration of internet with this development and
E-retailing	increase of number of electronic devices that connecting to internet brings important changes in all
Distribution, supply chain	business applications. The retailing sector, connecting businesses and end consumers, has also changed from classical approach, and consumers started to prefer e-retailing channels versus
Distribution network	traditional stores. Therefore, businesses, which have to deliver products to those consumers, are also
Ccoss-docking	forced to make critical changes in supply chains. On the other hand, businesses that aim to completely change distribution networks in supply chains adopt a strategy called cross-docking to take the lead over competitors and gain cost advantages. Therefore, in this study, aim is to reveal
Received 21 April 2020	whether a conventional retailer that does not apply e-retailing can gain by using e-retailing
Revised 30 July 2020	application in coordination with cross-docking strategy.
Accepted 18 August 2020 Article Classification:	Design/methodology/approach – In application part, it is emphasized that business, which continues retail activities in conventional way, also uses its stores as cross-docking terminals for eretailing. For this purpose, a mixed integer programming model has been created and it is aimed to have optimal solution for minimizing number of stores and total cost.
Research Article	Findings – In numerical example, it was decided that company which has currently seventeen stores in eleven different regions in Izmir should use nine of these stores as cross docking terminals.
	Discussion – In numerical example, it was decided that company which has currently seventeen stores in eleven different regions in Izmir should use nine of these stores as cross docking terminals.

Suggested Citation