

Barriers to Electronic Data Exchange in the Supply Chain. Results of Research

Karolina Werner-Lewandowska^{1,a,*}, Adam Koliński^{2,b}, and Paulina Golińska-Dawson^{1,c}

¹ Poznan University of Technology, Faculty of Engineering Management, 5 M. Skłodowska-Curie Square, 60-965 Poznan, Poland

² Poznan School of Logistics, Estkowskiego Str. 6, 61-755 Poznan, Poland

E-mail: ^{a*}karolina.werner@put.poznan.pl, (Corresponding author), ^badam.kolinski@wsl.com.pl,
^cpaulina.golinska@put.poznan.pl

Abstract. The aim of this article is to present the results of a study on barriers to data exchange in supply chains between 3PL and 4PL and their customers in Poland. The study focused on verifying the validity of two research hypotheses concerning the influence of the size and role of logistics service providers on barriers in electrical communication between a logistics provider and its customers, where the size of a logistics operator is measured by the number of employees, so called employment level. To evaluate the reliability of the research hypotheses, Bayesian ordinal regression was used. The data comes from a survey conducted on a sample of 51 logistics service providers operating in Poland. The obtained results indicate that the size and the role of the logistics service provider do not determine the extent of problems in electronic communication between the logistics service provider and its customers.

Keywords: EDI, Logistics provider, Supply chain