

*Prof. Dr Gradimir Ivanović, B.Sc. Srdjan Čurčić, University of Belgrade, Faculty of Mechanical Engineering, Motor Vehicle Department, 27 Marta 80, 11000 Belgrade
Dragisa Ivković, B.Sc., General Manager The Company "LITAS", Djure Đakovića, 12000 Pozarevac
Branislav Opačić B.Sc., Institute "Mihajlo Pupin", Volgina 15, Belgrade*

THE INTERVENTION SUBSYSTEM OF BUS MAINTENANCE INFORMATION SYSTEM

UDC: 681.518.3 : 629.1 - 453

The information system has been developed and implemented for the purpose of directing of the bus maintenance system, i.e. the system of maintaining of city and tourist buses (ISMB). The ISMB, through its application software, initiates, follows up, closes and analyzes the processes of: Preventive and corrective maintenance of buses in the halls/workshops, "Intervention" maintenance of buses on the roads, during transport of passengers/tourists, and Servicing and repair of spare parts in workshops.

The common and individual data bases have been developed for these processes (regarding workers, locations, failures, vehicles, maintenance operations, spare parts), as well as the reports on maintenance, for the purpose of providing valid information required for directing of the maintenance system.

Due to the extensive scope of the software solutions, this paper depicts only the basic common solution and the individual bus-maintenance software solution for the "Intervention" processes. For this individual "Intervention" process, the mode of operation and the results of its application in on-the-road maintenance are shown in this paper, as implemented in a company dealing with transport of passengers in city, sub-urban, inter-city and international tourist transport modes.

Key words: *bus maintenance information system, corrective maintenance, software*

INFORMACIONI SISTEM INTERVENTNOG ODRŽAVANJA AUTOUSA

Za potrebe održavanja gradskih i međugradskih autobusa razvijen je i implementiran informacioni sistem (ISMB) koji upravlja ovom funkcijom. Putem svog aplikacionog softvera, ISMB inicira, prati i analizira sledeće procese: preventivno i korektivno održavanje autobusa u radionicama, interventno održavanje autobusa na putevima tokom transporta putnika-turista i servisiranje i popravka rezervnih delova u radionicama.

Zajedničke kao i pojedinačne baze podataka razvijene su za ove procese (uzimajući u obzir osoblje, lokacije, kvarove, vozila, operacije održavanja, rezervne delove), kao i izveštaji o održavanju, koji pružaju uvid u validne informacije neophodne za upravljanje sistemom za održavanje.

Zbog širokog spektra softverskih rešenja, ovaj rad opisuje samo osnovno zajedničko rešenje kao i posebno softversko rešenje za održavanje autobusa u interventnim situacijama. U ovom radu prikazani su način rada i rezultati ove aplikacije pri interventnom održavanju autobusa na putu, primjenjeni od strane preduzeća koje vrši prevoz putnika u gradskom, prigradskom, međugradskom i internacionalnom saobraćaju.

Ključne reči: *informacioni sistem za održavanje autobusa, korektivno održavanje, softver*