

Software Driven Transportation and Supply Chain Evolution with DNA

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DNA, a leading provider of vehicle routing optimization and automatic resource scheduling software components, today announced the release of JOpt.SDK Transportation Optimization Development Kit 2.2.0 that allows for easy integration of automatic scheduling and optimization features into nearly any logistics software suite.

DNA's JOpt optimization engine enhances transportation software application with optimization capability and thus completes transportation software functionality. Software designers who are developing software for transportation companies use the JOpt optimization component if their own software application lacks a route optimization function.

JOpt.SDK offers resource, route and transport optimisation with respect to various constraints such as time windows, load capacities, skills, compliance, working times, load balance and prescribed itinerary. In version 2.2.0 this engine now includes a module to estimate dioxide emissions exhausted during the transportation task. The optimization algorithm allows to minimize emissions and is therefore suitable to assist coping with today's environmental requirements. The technology used for optimization is based on genetic algorithms and allows for very flexible and easy adaption to daily problems in transportation, deliveries, and sales force.

"Road transport generates about one fifth of the EU's CO2 emissions, with passenger cars responsible for around 12%. Although there have been significant improvements over recent years in vehicle technology - particularly in fuel efficiency, which translates into lower CO2 emissions - these have not been enough to neutralise the effect of increases in traffic and car size. While the EU-25 reduced overall emissions of greenhouse gases by almost 5% between 1990 and 2004, CO2 emissions from road transport rose by 26%", European Commission (IP/07/155, Date: 07/02/2007).

"Reading the figures, DNA sees the importance of reducing emissions for road transportation. Therefore we are proud to deliver a core technology that easily enables assessment of CO2 emission and energy efficiency and delivers a reasonable foundation for setting up emission reduction strategies alongside transportation networks and supply chains. With JOpt 2.2.0 (codename GREEN) fleet operators can make their contribute to a better climate while additionally saving cost and time throughout an optimum vehicle schedule that is automatically calculated by JOpt within minutes", says Vincent Mayer, DNA.

Worldwide, DNA partners rely on DNA's scheduling and rapid decisioning technology to bring their customers outstanding solutions for strategic and operational taskforce planning within one single piece of software by utilizing DNA's software components. The very easy way to adapt the optimization core to a variety of different problems and the short time developers need to get familiar with JOpt.SDK are key factors why it is widely used in the transportation and telematics sector.

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About DNA: DNA develops and sells flexible and ready-to-use applications, .NET, Java & J2EE components as well as web services for planning and optimization jobs to help customers to find the best solutions for their business. DNA's software tools enable customers to cope with complex problems and rapid decisioning. Software vendors or IT service providers use DNA's software modules to complement and enhance products or projects with innovative and special expertise features such as automatic resource planning and route optimization, GIS functions and enterprise integration components.

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