

# Delivery Management System

**MSG Transport is an Internet based Delivery Management System using SMS messages as the means of communication with units in the field.**

## Key Benefits

**Low-priced standard equipment:** In order to get started all that needs to be purchased for the basic solution is a Nokia 9210i Communicator! For the complete solution with GPS functionality, a standard GPS modem is added.

**Complete cost control:** No more out-of-control connection fees or expensive satellite bills; MSG Transport uses SMS messages as the means of communication, allowing a precise calculation of the costs of each tour, while still giving up-to-date information.

**Inexpensive entry:** All that is necessary to try out the solution is the purchase of the wanted numbers of Nokia 9210i Communicators and optionally GPS-receivers, and an account with Nokia and MSG Software.

**Easily scalable solution:** Scaling from only a few cars to several thousands is easy and inexpensive, as it requires no other hardware but the necessary Nokia 9210i Communicators and optional GPS-receivers. This allows you to try the solution with only a few cars at first, and then upgrading the solution to your needs later on.

**Focus on business functionality:** The technological issues are handled by MSG Software – users focus on handling productive business tasks, not solving annoying and irrelevant technical problems.

**Solution built with standard tools:** Both server and client are built using standard, off-the-shelf tools that have stood the test of time. The server application is placed on an IBM iSeries server / SQL-server, and the client is developed using Microsoft Visual Studio and AppForge or Java.



**Computer Aided Solution:** The philosophy behind the solution is that each involved party should do what he or she does best. The computer should not try to replace the intelligence of the involved parties – instead everybody is aided the best possible way to do the job better and faster.

**Built-in Security:** Security is guaranteed through encrypted transmission (SSL) and strong digital signatures protects against tampering with user input. The exchange of data with the client through SMS messages is guaranteed using the unique message system implemented by MSG Software.

## Key Features

**Real-time registration of events:** The truck driver registers all important events real-time, allowing the carrier and producer to follow the tour closely and intervene if irregularities arise.

**Real-time Track & Trace:** With the optional GPS package all vehicles are tracked through time and space, allowing for advanced route planning and vehicle management.

**Handling of freight letters:** Freight letters are handled automatically, and different types

of reports can be printed out through the MSG Transport Internet application.

## Delivery, return goods – destroyed:

A complete overview of all goods is provided through the registration of goods by the driver throughout the tour.

**Early warning (delays and other unforeseen events):** The driver can communicate with all parties in the solution through the client application, thereby utilizing the knowledge present in the truck to help work around delays and other unforeseen events.

**Instant invoicing:** As soon as the driver has registered a delivery, the backend system is ready to activate 3rd party invoicing systems.

**Easy exchange of data in XML:** Data can be exchanged with the server application both in XML and comma separated files, depending on the needs of the parties involved.

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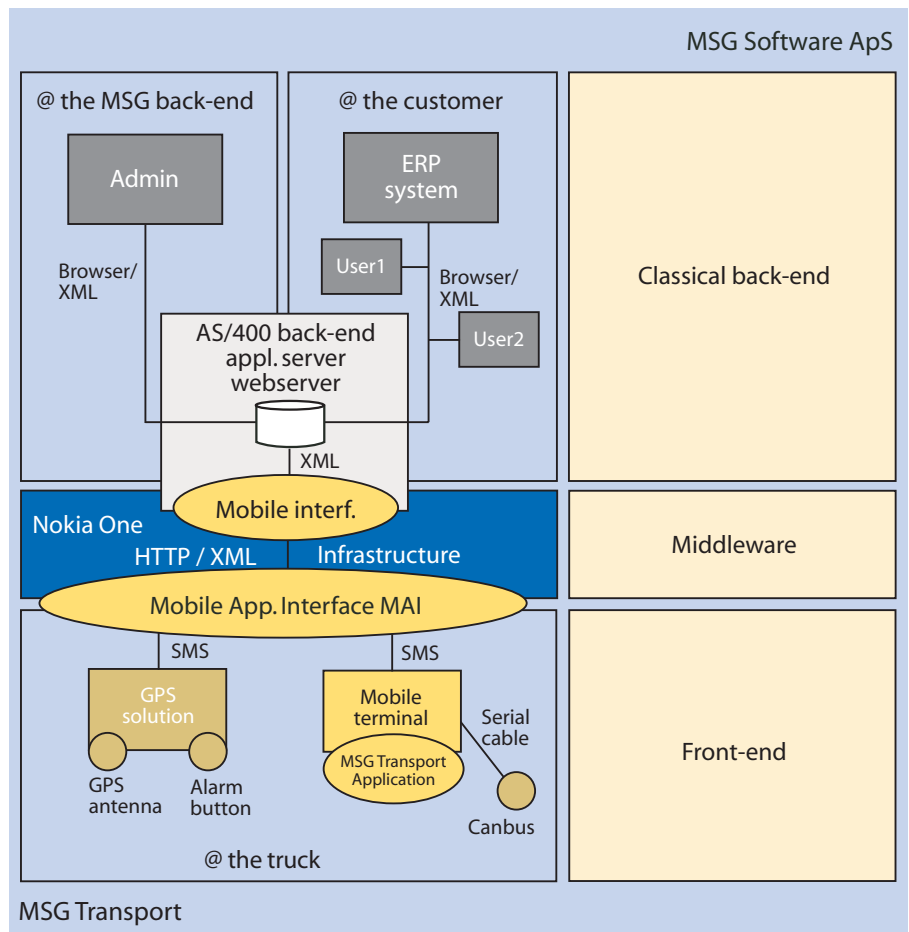
The MSG Delivery Management System (DMS) is built using standard hardware devices, and the solution runs on a standard platform. The backend system is a framework containing an application server and a Web server, providing web access to the solution.

New Nokia Business Solutions can easily be implemented using the DMS framework, as the framework contains database (DB2, SQL) handling, rules administration, setup, security, and flow and session handling – all implemented in a 4G language that guarantees full scalability and flexibility for adaptations to new challenges. The framework can easily be extended to support

#### Sales Force Automation and Service Order Management.

The entire DMS framework provides state-of-the-art security, scalability to any number of users, flexibility and fast adaptation to new demands and challenges, and since 1999 software of high quality has been provided based on this platform.

For more information about MSG Software and the solutions offered, visit the MSG Software home page at <http://www.msgsoftware.biz>



**Written communication between Driver and Office:** All communication between the driver and the involved parties is registered at the server, giving a complete overview of the development of the tour – both during the tour, and after in the case of irregularities.

**Standard terminals and open standard communication:** All the necessary hardware is standard equipment, and the communication takes place through HTTP and SMS messages.

**Alarms (attack, cooling failure):** The optional GPS package also gives the opportunity to raise different types of alarm.

**Check-in / check-out with mileage registration:** All relevant stops are registered by the driver both with check-in time and check-out time, as well as a mileage registration, giving a detailed picture of the tour, as well as a firm foundation for invoicing the costs of the tour.

**Online with real data by SMS from drivers all over Europe:** The SMS system implemented in the client works across all the different wireless telephony networks in Europe, allowing maximum coverage and feedback from the driver. Should the driver for periods of time be in an area with no wireless telephony options at all, the message system in the client holds back the messages until a network connection is established again.

Message ID	Message	Sender	Receiver	Time	Status
1	Message 1	Sender 1	Receiver 1	20-10-2003 12:00:00	Received
2	Message 2	Sender 2	Receiver 2	20-10-2003 12:00:00	Received
3	Message 3	Sender 3	Receiver 3	20-10-2003 12:00:00	Received

**About Nokia Business Terminals**  
The Nokia 9210i Communicator is one in a range of Nokia business terminals that combine the convenience of a mobile phone with the business features of a laptop. As well as essential business applications such as word processor, spreadsheet and fax, the Nokia 9210i Communicator features the necessary tools for accessing email, corporate network and the internet. Nokia business terminals, created with the corporate user in mind, are ideal for keeping your mobile workers informed.

**About Nokia One**  
Nokia One Mobile Connectivity Service allows you to keep in touch with your corporate network at anytime, from virtually anywhere. With Nokia One you can access your email and corporate directory, consult your diary and schedule meetings. The service also allows you to add your own corporate applications to compatible mobile devices. Nokia One helps you conduct smarter business while on the move. To find out more, please visit us on the web, <http://www.nokia.com/nokiaone>

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