



Press release issued jointly by the Nokia Corporation, Rhein-Main-Verkehrsverbund GmbH (RMV), traffiQ Lokale Nahverkehrsgesellschaft Frankfurt am Main, T-Systems and Stadtwerke Verkehrsgesellschaft Frankfurt am Main (VGF):

18 July 2007

## RMV ticket just three clicks away by mobile phone

**RMV HandyTicket even more innovative and convenient thanks to NFC technology / Launch in Frankfurt with partners Nokia and T-Systems / Trial participants get latest NFC mobile phone**

**Following the successful year-long pilot of the RMV HandyTicket in Frankfurt with over 5000 users, the Rhein-Main-Verkehrsverbund transport network (RMV) is now ready to trial the next phase linking in with the global futuristic technology of Near Field Communication (NFC). The search is on for 300 customers who will test the new innovative solution in the next few months using the Nokia 6131 NFC mobile telephone.**

The RMV transport network teamed up with Nokia and T-Systems to develop the system which is now being piloted in the city of Frankfurt am Main in collaboration with local public transport companies Verkehrsgesellschaft Frankfurt and traffiQ Frankfurt and with mobile advertising specialist Ströer Deutsche Städte Medien GmbH. Those taking part in the trial need only to touch one of the passive radio chips at any given stop with an NFC-capable mobile phone in order to buy a ticket or to ask about bus and train departure times and their request will be processed in a matter of seconds. Initially 59 selected stops in Frankfurt will be fitted with some 600 passive radio chips or so-called "ConTags". These are installed on the masts and ticket machines at the relevant stops. By touching the "ConTag" with an

NFC-capable mobile telephone it is possible to buy a ticket in just three clicks. In contrast to the original RMV HandyTicket users no longer need to manually open the mobile ticket program installed on their mobile phone beforehand. The simple act of touching the "ConTag" at the stop automatically opens the RMV HandyTicket program for ticket purchase. One particularly convenient feature for passengers is that the start of journey location is entered automatically, leaving only the destination tariff zone to be selected. Another advantage is the ease with which users can download the current timetable for the stop in a matter of seconds, also by touching the "ConTag". If there is no "ConTag", the start and end stop can be entered manually as before. It is also possible, quite independently of the RMV HandyTicket program, for any user with an NFC-capable mobile telephone to call up the stop timetable without registering or downloading. All RMV HandyTicket users in Frankfurt can apply to take part in the pilot at [www.rmv.de](http://www.rmv.de) by 27 July 2007. All those who have already registered will receive information about the trial by newsletter. In the event that over 300 applications are received, the final list of participants will be decided by lot. Participants will be provided, free of charge and free of contractual obligations, with the Nokia 6131 NFC mobile telephone, the first fully-integrated NFC-capable handset in the world, which they will also be able to keep after the pilot. Successful applicants will be sent their mobile phone. They then simply insert their own SIM card in the phone. The software required for the RMV HandyTicket can be downloaded from the Internet.

The system testers will receive extensive support from the RMV transport network and its partners in the next three months. Those taking part in the trial will be required to fill out three questionnaires. At the end of the three-month trial period a decision will be taken as to the future shape and application of NFC technology in the RMV

transport network. If the trial is successful the company will go ahead with plans to install "ConTags" at all stops in Frankfurt. Given that there will be more NFC-capable handsets on the market by then, it also follows that the benefits of NFC technology will be more widespread. The mobile telephones required for the pilot are being provided by Nokia and T-Systems. Both project partners are essential to the workability of this solution, with Nokia bringing its extensive know-how in NFC technology to the table and with T-Systems contributing the HandyTicket system and offering the requisite experience and resources in electronic and mobile ticketing. With support from the VGF, traffiQ and Ströer Deutsche Städte Medien GmbH, the required ConTag infrastructure will be installed at the stops in Frankfurt in the coming days. Not content with upgrading the existing HandyTicket solution to target NFC-capable handsets, the RMV is also working on the network-wide introduction of the RMV HandyTicket. If current plans materialise, passengers will be able to purchase tickets by mobile phone anywhere in the RMV transport network this year, initially without NFC functions.

The future development of the RMV HandyTicket will be subject to the association of German transport companies, the Verband deutscher Verkehrsunternehmen (VDV), with the collaboration based on the VDV core application as the Germany-wide standard for electronic ticketing. As subscriber to the VDV-Kernapplikations GmbH&Co. KG the RMV consults regularly with the relevant transport companies and networks.

**About the technology:**

Near Field Communication technology (NFC) was developed by Philips and Sony. NFC is based on the combination of electronic transmission standards familiar from the chip card industry. The technology allows electronic transmission of data across distances of up to 10 cm. The NFC standard incorporates important security features required for the transmission of sensitive data for identification, ticketing and payment. Data are transmitted at a frequency of 13.56 MHz. NFC is standardised in the following norms: ISO 18092, ISO 21481, ECMA (340, 352 and 356) and ETSI TS 102 190. The technology is compatible with the international chip card standard ISO 14443 A/B.

**About Nokia:**

Nokia is the world leader in mobile communications and a major player in shaping the growth of the converging Internet and communications sector. Nokia boasts a broad range of products which can be put to a wide variety of uses, such as music, navigation, video, TV, games and photography, as well as corporate use. Nokia also supplies various products, solutions and services for communication networks.

For further information please visit [www.nokia.com](http://www.nokia.com)

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**About the Rhein-Main Verkehrsverbund (RMV):**

The RMV is one of the largest public transport companies in Europe, serving over five million inhabitants in the federal state of Hesse. The RMV is responsible for organising and coordinating the regional rail transport network and for integrating the long-distance, regional and local city rail transport to form one overarching transport network linking 156 public transport companies.

For more information on the company please visit [www.rmv.de](http://www.rmv.de)

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**About T-Systems:**

T-Systems combines first-class services for information and communication technology (ICT). Given its extensive knowledge of both worlds, the business customer arm of Deutsche Telekom is favoured by multinationals, by small and medium-sized enterprises and by public authorities. Over 160,000 customers located all over the world and working in all sectors benefit from its ability to provide one-stop integrated ICT solutions. T-Systems is unique in offering a complete in-house ICT portfolio and in combining information and communication technology to formulate new solutions. In 2006 its 56,000-strong workforce in over 20 countries recorded a turnover of € 12.6 billion.

For more information on the company and its services please visit [www.t-systems.com](http://www.t-systems.com)

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**About Stadtwerke Verkehrsgesellschaft Frankfurt am Main (VGF):**

The VGF is one of the largest transport companies in Germany; with over 154 million passengers, it provides seven underground lines, nine tramways and 53 bus routes to cater for the people of Frankfurt and the surrounding towns and villages. The buses and trains run by the VGF serve a total of 888 stations and stops, 26 of which are

underground stations in the city centre. The vehicle fleet has undergone extensive modernisation in recent years, with the last modern "S"-type tramcar being delivered in March 2007 to complete the low-floor transport facilities.

For more information on the company please visit [www.vgf-info.de](http://www.vgf-info.de)

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