

Satellite Navigation System of the Customs Service of the Kyrgyz Republic



In the recent decade the number of vehicles engaged in international transport operations is growing steadily and intensively in the Kyrgyz Republic.

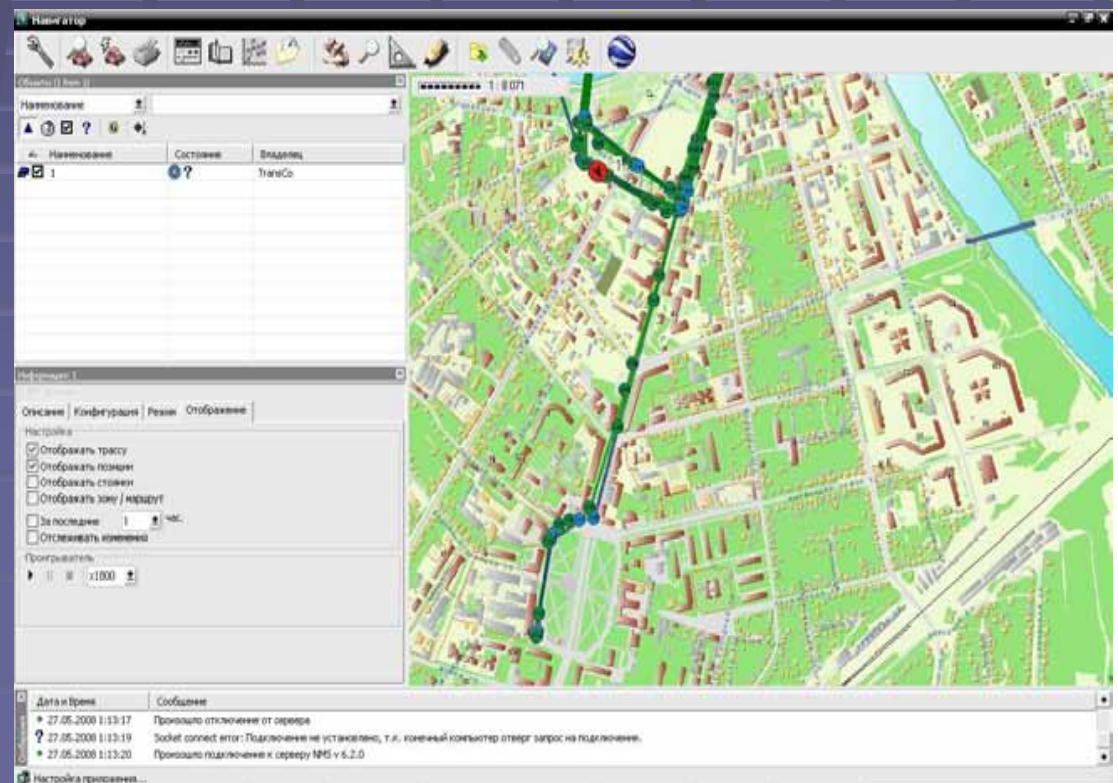
Transport infrastructure in the Kyrgyz Republic is represented almost only by road transport, as the majority of passengers and cargo are transported by road (more than 95% of cargo). The total length of transport corridors is 2,242 km, which include 8 routes. The route **Bishkek – Naryn – Torugart**, which is 539 km long, has a special significance among the transport corridors.



The key objectives to improve customs administration are creation of the maximum conducive environment for revitalization of external economic operations of business entities of the Kyrgyz Republic and a significant inflow of investments into the country's economy.

Measures enabling to improve efficiency and transparency of customs revenues administration are:

- simplification of customs inspection procedures at the customs border;
- automation of customs clearance and control procedures, as well as other procedures related to information collection, analysis and exchange;
- reducing all possible costs and expenses of both the customs and carriers



- One of the radical solutions to all above mentioned problems is active application of information and telecommunication technologies. They application enables not only to generate high profits and other positive results, but to significantly facilitate the work of routine operators by reducing the time needed for specific operations, and improve the efficiency of the work of government agencies, etc.

The State Customs Service of the Kyrgyz Republic jointly with “NAVI Company” successfully implemented a system for establishment an operational monitoring system for the vehicles subject to customs control

This system allows to:

- **receive operational and reliable information** about the location of the vehicle and drivers' actions in a real-time mode;
- **trace unmotivated idle time and deviations** from the specified traffic route;
- **control** the haulage of vehicles and plan an optimal route for movement and cargo transportation.

The above mentioned functions are the most consistent with the devices and methods to ensure the compliance with measures regulating external trade and other economic activities when moving goods and vehicles across the customs territory of the Kyrgyz Republic.



"Navi Technologies" Ltd. was established on April 21, 2006.

On April 20, 2007 года "Navi Technologies" Ltd. was licensed by the National Communications Agency of the Kyrgyz Republic to operate in the area of electrical communications (provision of telematic services).

On May 4, 2007 "Navi Technologies" Ltd. concluded an agreement with the State Cartography and Geodesy Service of the Kyrgyz Republic for production and use of maps of the Kyrgyz Republic.

Национальное агентство связи Кыргызской Республики
(государственный орган)

ЛИЦЕНЗИЯ

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Разрешено заниматься деятельностью **в области электрической связи**
(указывается наименование деятельности в соответствии со Статьей 3 Закона КР «Об лицензировании»)

Срок действия лицензии: **до 20 апреля 2012 года**

Территория действия лицензии: **г. Бишкек и прилегающие районы Чуйской области**

Лицензия является: **неотчуждаемой**
(отчуждаемой, неотчуждаемой)

Лицензионные условия: **Настоящая лицензия действительна только при наличии лицензионного соглашения к ней, являющегося неотъемлемой частью лицензии**

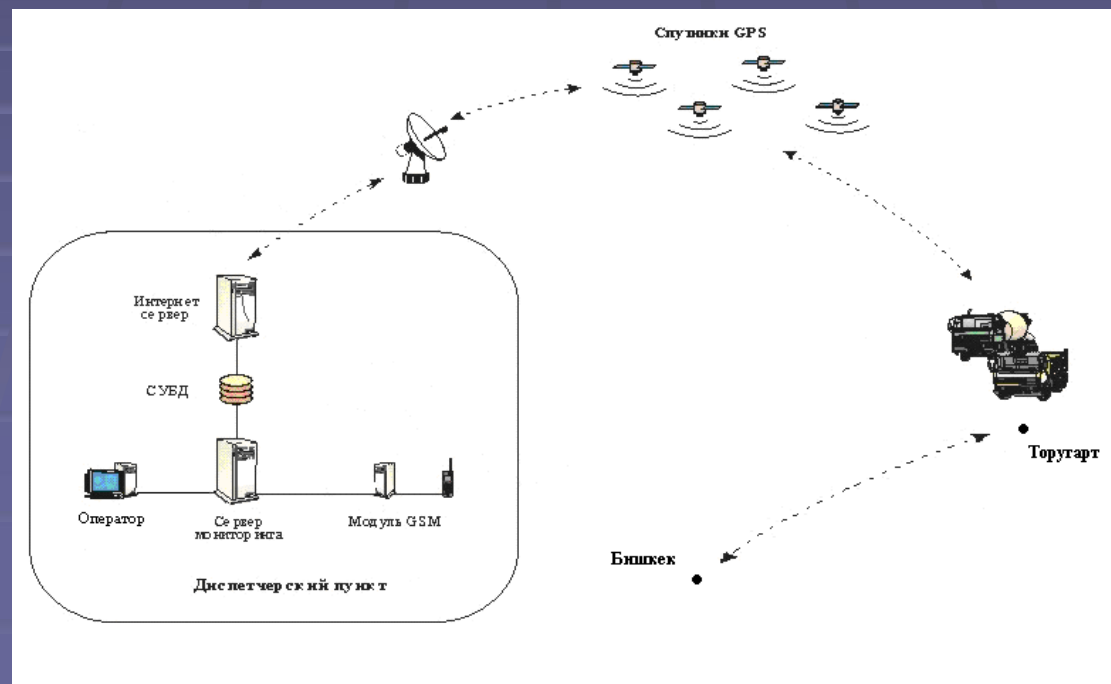
Печать: **К.С. Кыдыралиев**
Директор (подпись) (подпись)

№ **00555** Серия бланка СЛ

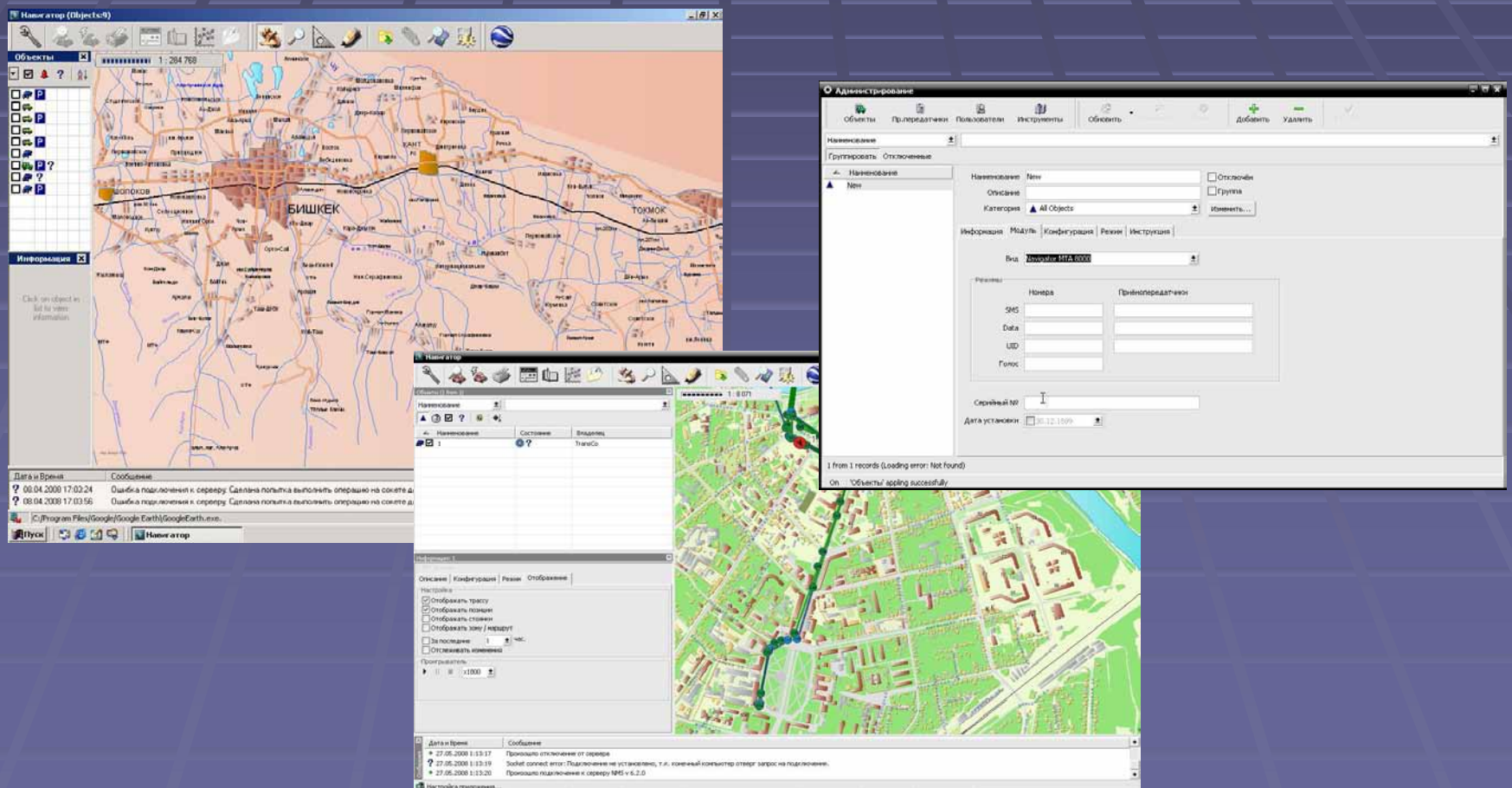
The GPS navigation system is based on global position technologies GPS, mobile communication and software. It consists of two parts – the central one and the mobile one.

The mobile part is an electronic block (the navigation terminal) installed in the vehicle (or any other object), which is operated autonomously.

The central unit is a computer with a software, which provides for monitoring and management of connected vehicles (including even engine blocking, monitoring of door opening and closing and receiving video images). All information is reflected in an electronic card and is recorded in the database.



The software enables to actively work with zones and routes in an automated regime, i.e. the operator will not have to follow-up on all vehicles. It would be sufficient to specify the routes, corridors, zones and the software will automatically respond when the object leaves/enters the zone or makes an unauthorized stop



Navigation terminal (UTP-M-01-8.000) can be installed at all types of vehicles with the vehicles' system voltage of 12-24 V

At any time of the day it enables to locate the vehicle via Internet



All equipment has been certified in the Kyrgyz Republic (the conformity certificate was issued by the National Certification System of the Kyrgyz Republic as of January 22, 2008)

Navigation terminals are installed in the vehicles at the BCP Torugrat and operators monitor the procedure and the duration of the vehicle's trip. In its basic option, i.e. without installing and additional sensors, the system provides for a real-time monitoring of the vehicles' routes, stopping and parking locations, observance of speed restrictions by drivers, etc.

All vehicles together or each individual vehicle can be assigned a route, control zones and passing points. In this case an operator does not have to directly monitor all the objects. The operator can monitor all the objects at a time and any selected number of vehicles. Software settings allow to give a sound signal and a pop-up window "about the offender" when leaving the control zone, deviating from the route or violating the specified timelines.

Data on all vehicles are registered with the database enabling to obtain documented information about any object at any point in time.



Thank you for your attention

