



ENAIKOON M2M-commserver Version 4.1

Communication Server for M2M Applications

The ENAIKOON M2M-commserver is the core component of the ENAIKOON infrastructure. This application is responsible for the data exchange between various telematics applications and ENAIKOON telematics hardware.

Most of the ENAIKOON customers use the ENAIKOON M2M-commserver operated by ENAIKOON. This datasheet applies for you only if you intend to operate ENAIKOON telematics hardware in conjunction with an own server.

The ENAIKOON M2M-commserver allows data exchange with telematics hardware thru GPRS as well as thru SMS, e-mail or INMARSAT.

With GPRS the monthly costs for the data transmission are typically lower than 5 € per month including the monthly fees for the SIM card (national) even if the GPS position and other vehicle related data is transmitted every few kilometers to the ENAIKOON M2M-commserver.

The ENAIKOON M2M-commserver provides the previously saved data to various ENAIKOON applications like ENAIKOON fleet-control-web, ENAIKOON can-66, ENAIKOON MP-route, ENAIKOON OSM-route, ENAIKOON buddy-tracker, ENAIKOON v-locator-mobile and many more.

The data exchange with these applications is handled thru direct database access: the ENAIKOON M2M-commserver runs on top of a MySQL database.

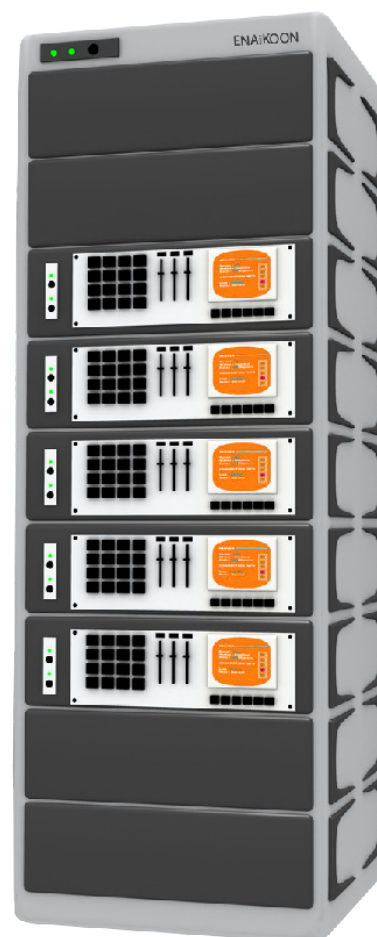
For the data exchange with 3rd party software the ENAIKOON data forwarder is used. Details can be found in the data sheet of this product.

The ENAIKOON M2M-commserver stores all transmitted data for a pre-defined period (minimum 12 months; a longer period can be agreed on at an extra fee).

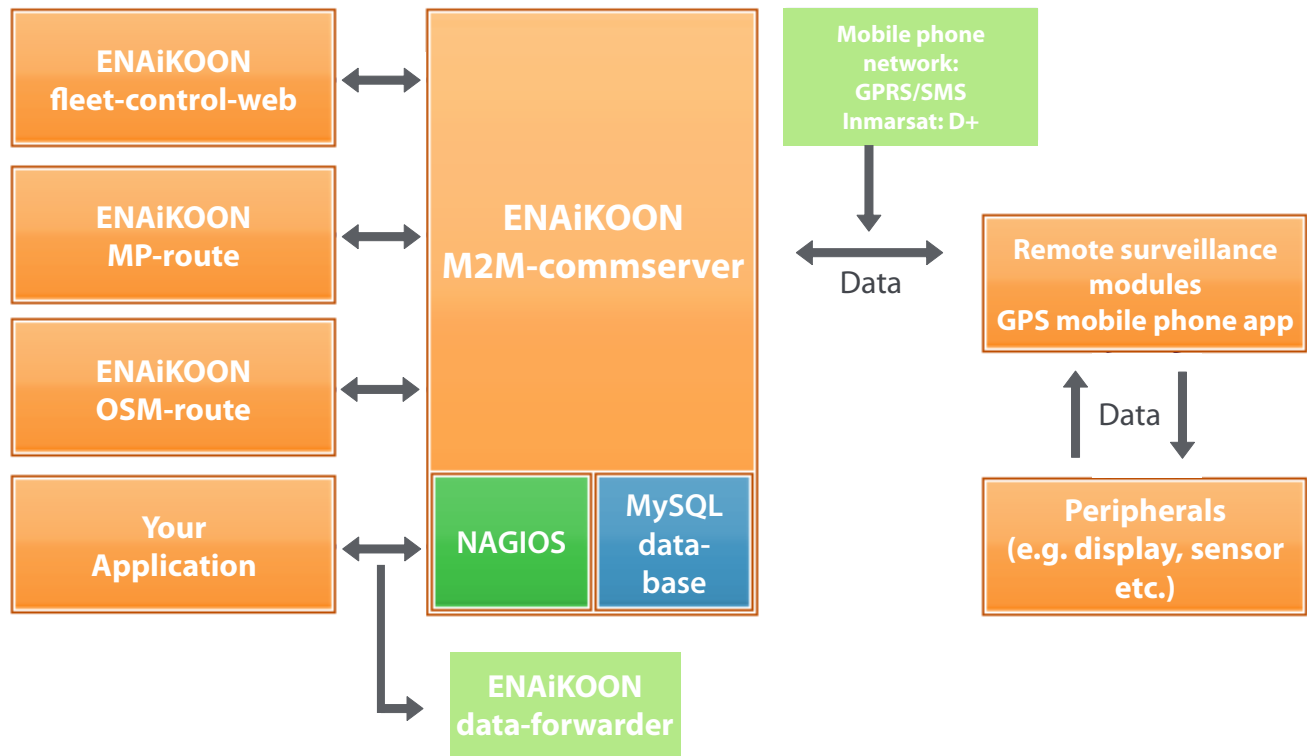
In addition the application normalizes all incoming data before it is saved. This means that the developers of applications do not need to know from which type of hardware the data comes from and the developers of telematics hardware do not need to know which applications will use the data.

For the user this means that the time to market for new hardware and new applications is very short and the products are very stable right from the beginning.

The ENAIKOON M2M-commserver has been implemented in JAVA.



Functional diagram



Feature List

- Transmission of data from a Linux server in the internet to any GSM- or ENAIKOON telematics hardware thru GSM or INMARSAT
- Transmission of data from ENAIKOON telematics hardware to a Linux server in the internet thru GSM or INMARSAT
- Transmission of data from a Linux server in the internet to a GPS mobile phone with ENAIKOON software thru GPRS
- Transmission of data from a GPS mobile phone with ENAIKOON software to a Linux server in the internet thru GPRS
- High cost saving due to GPRS support
- Substantial cost savings due to high compression of the data to be transmitted between the web server and the ENAIKOON telematics hardware
- The data transmission between the ENAIKOON M2M-commserver and ENAIKOON telematics hardware or GPS mobile phones with ENAIKOON software is encrypted as well as the data transmission between the ENAIKOON M2M-commserver and applications
- On the server side ENAIKOON remote control units can be used for SMS communication as well as an SMS-C gateway
- The software as well as the parameters in the remote control units can be updated separately or in groups via GPRS
- All data is stored permanently in a MySQL database – minimum 12 months and even longer on request
- Powerful MySQL database: Version 5 is used of MySQL. This is an extremely reliable and powerful version of MySQL
- NAGIOS server surveillance: All servers check each other for full functionality every 30 seconds. If a server fails, multiple system administrators get a warning immediately thru e-mail
- Load balancing capability: The entire software is fully load balancing capable. This means, that each single process of the application can be handled by multiple servers at the same time. This allows taking over jobs of a defective server instantly and fully automatically without any disadvantage of the users
- Replication: If you operate servers in different places, then you can replicate the latest data to all servers nearly in real time
- Queue: Each process of the system provides waiting queues for tasks. This allows handling even huge amount of data for ex. after the crash of a GSM network.
- OpenStreetMap support: Thru the integration of OpenStreetMap the ENAIKOON customers can enjoy access to the mapping data of the world's largest mapping project

Products und Prices

Product	Part No.	Product Description	Price
ENAIKOON M2M-commserver unlimited license	MMC-03-04	Unlimited software license for the ENAIKOON M2M-commserver; no time restriction; This license includes the support of 10 mobile objects (M2M-03-48)	27,000 €
ENAIKOON M2M-commserver installation	MMC-03-05	Installation of the software on a Linux or Windows server with a fixed IP address and remote access supplied by the customer (Pre-condition for ENAIKOON to service the system)	2,980 €
ENAIKOON M2M-commserver mirror installation	MMC-03-09	Installation of the software on a Linux or Windows server with a fixed IP address and remote access supplied by the customer Configuration of the server as a mirror of the main server Requires MMC-03-05 (Pre-condition for ENAIKOON to service the system)	5,980 €
ENAIKOON M2M-commserver support	MMC-03-07	24h remote service for the server including all software updates The administration of the system is not included in the price and is normally carried out by the user	29 € per vehicle per month
ENAIKOON M2M-commserver web service	M2M-03-24	Monthly user fee ENAIKOON M2M-commserver; contract duration 24 months	1-24 pcs 24,90 € 25-99 pcs 22,90 € 100-249 pcs 19,90 € 250+ pcs 17,90 €
ENAIKOON M2M-commserver web service	M2M-03-48	Monthly user fee ENAIKOON M2M-commserver; contract duration 48 months	1-24 pcs 19,90 € 25-99 pcs 17,90 € 100-249 pcs 14,90 € 250+ pcs 12,90 €