



## ESNC 2008

### WINNER OF THE SPECIAL TOPIC PRIZE :: T-SYSTEMS / DHL

The Winners:

**Dr. Jürgen Anke**  
**Dr. Mario Neugebauer**

The Idea:

 **ubigrate – Real-Time Load-Volume Tracking for Delivery Trucks**

#### DESCRIPTION

Availability of on-time information on available load volume and its location is a key enabler for improved dispatching and higher returns on assets in logistics. While determining location is relatively easy, measuring available load volume is much more difficult. The ubigrate load-volume tracking system relies on ultrasonic devices to measure available capacity. This system is robust, inexpensive, and can be adapted to the required level of accuracy. Acquired volume data is combined with the current location and transmitted instantly to transport management systems or other logistics software.

#### INNOVATION

Currently available solutions for load-volume optimisation require the packer to follow certain predetermined packing plans. In practice, however, variations in packing occur, causing the capacity calculated to differ from that which is actually available. ubigrate's real-time load-volume tracking system does not calculate available capacity – it measures it. The system does not require volume information on the freight up-front, works with any packing of freight, and provides an up-to-date view of free capacity and its distribution in the freight area at any time.

#### TARGET MARKET

The ubigrate solution targets logistics companies of all sizes that, require up-to-date information on available load volume for their fleets, such as for dispatching or billing. This includes small and

midsize businesses like courier services and haulage companies, as well as world-wide logistics providers like DHL.

#### CUSTOMER BENEFIT

The new system provides a real-time view of free load volume and its location. With this information, new transportation requests can be assigned immediately to the closest delivery truck with enough available capacity. Faster pickup of a parcel reduces the overall time required to deliver it to its destination. Furthermore, the higher utilisation of loading capacity increases return on assets and preserves the environment. It also enables new business models such as usage-based transport billing.



ubigrate smart device integration

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#### 2nd Place:

“Efficient Available Truck Volume Measurement - The Right Capacity at the Right Location”

**Andras Kovacs, BroadBit // Hungary**

#### 3rd Place:

“DHL-LoadEye - Transport Asset Tracking and Load Volume Optimisation System”

**Victor Behrends & Dr. Ernst Pechtl, Eureka Navigation Solutions AG & smartWise Technologies AG // Germany**