

# Intelligent taxi service

People need taxi services from time to time, but the demand for taking a taxi is often different from one to another. For instance, female customers may prefer to take a taxi that is driven by female, or facilitated with wireless TV, or that could provide service of taking more than four passengers. Clearly, it would be of great value for the customers if the taxi service could be fulfilled in corresponding to each individual need.

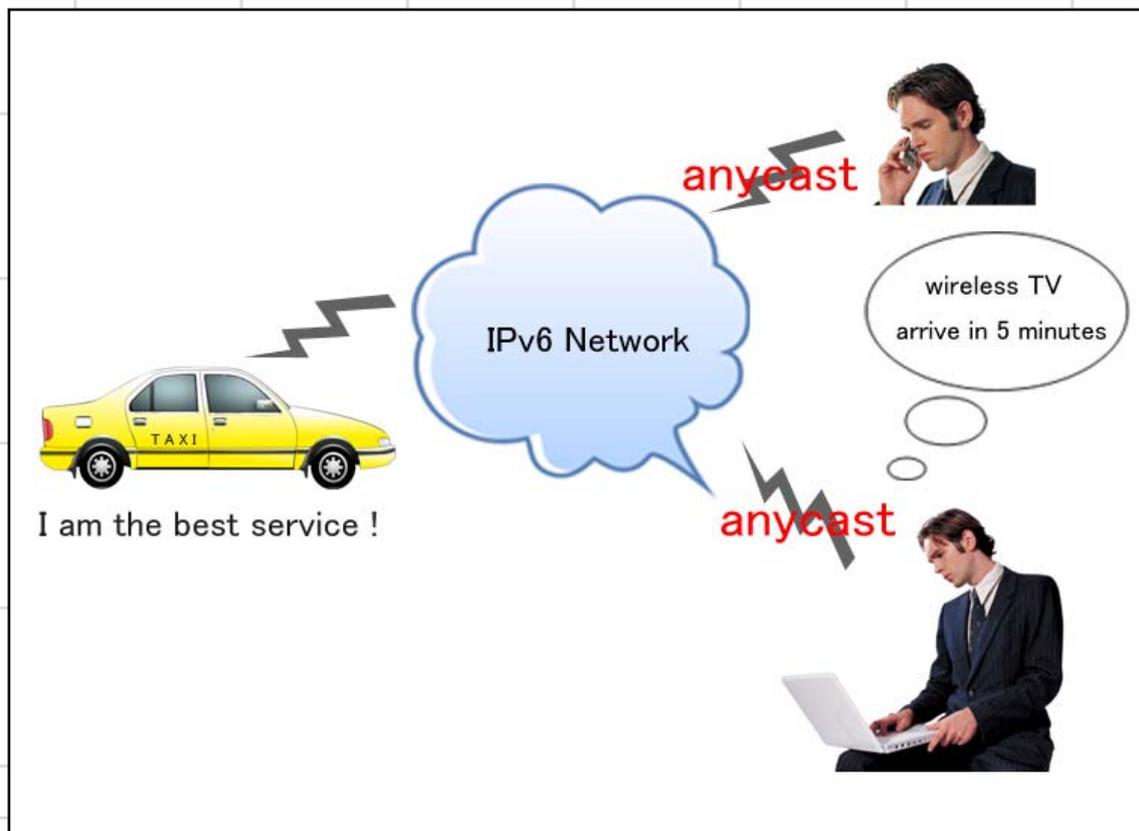
However, it is very often difficult to find a taxi that could arrive in needs, yet in time. Therefore, the idea of this work is to explore the possibility of using ‘*Anycast*’, a new feature of IPv6, to solve the problems effectively.

Four steps of applications are analyzed as follows.

- First, a unique IPv6 address is provided for each individual taxi.
- Second, each taxi driver identifies him /

herself in corresponding to the requirements defined by *Anycast*, including: the age of the car, the sex of the driver, the min. or max. numbers of the passengers, the service areas, ...etc.

- Third, the physical location of each '*Anycast*' taxi in movement can be tracked down by imposing the mechanism of mobility IPv6.



- Finally, based upon the requests for *Anycast* service types identified by the customer, the '*right*' taxi can be arriving in needs and in time.