The Access Control System for Parking Areas ActA^{TM}

The System for Access Control designed for Parking Areas ACTA ^{TM} support users of various sizes and complexity, small to very big corporations. All the ActA hardware and software modules are developed and produced within the SDD ITG.

The System Description

1. On the central server the data base is located. The data base contains the data of:
    a. parking-locations with the appropriate gates
    b. terminals that control the gates of the parking locations
    c. the vehicles divided into the group according to the access rights

2. The data base is updated through the administrative application which:
    a. defines topology of the system (parking-locations, gates)
    b. defines terminals for the system control
    c. enters, removes or edits access right for the single vehicle or the group to the certain parking locations
    d. **enables for all the changes to be right away and automatically valid in whole the system, assuming that all the terminals and the central server are connected to the LAN!**

3. The terminals that controls all the entering and exiting in and from the parking locations also:
    a. have up-to-date information on vehicles access rights
    b. inform the parking clerk whether the vehicle has the access rights or not in the moment of time (hour in the day in a week) on the particular parking location. Based on that info, clerk will allow or withheld the passage of the vehicle by issuing the command for the barrier rising.
    c. work independently in the case of interruption of the connection with the server (valid for "proximity" terminals)

4. The services which work continually on the central server:
    a. gather the information on passages on terminals
    b. program the terminals and update them on access right
    c. control on-line "long range" terminals
    d. signalize incorrectness and/or unavailability of the terminals

5. Reporting from the client-administrative application covers:
    a. vehicle and location previewing
    b. access rights groups previewing
    c. preview of all the successfully granted and refused passages by locations and
vehicles

6. Optional:
    a. terminal can trigger the rising of the barrier (rising of the ramp, opening of the gate, indraughting of the pillars into the ground...)
    b. automatic generation and archiving of the photographs of the vehicle in the moment of passage
    c. integrated video surveillance
    d. on-line information for the clerk about the vehicle currently passing, with all the data and photo from the data base

Barrier controlled by the Proximity terminal with two readers on the stainless steel pillar
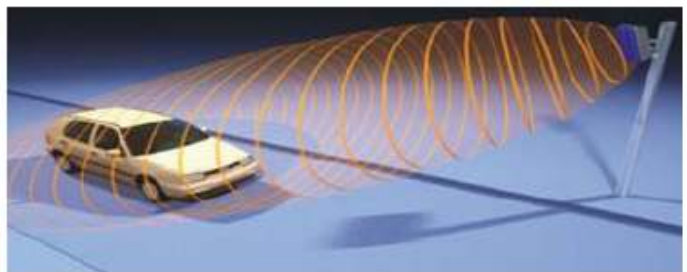
System based on the long range terminal
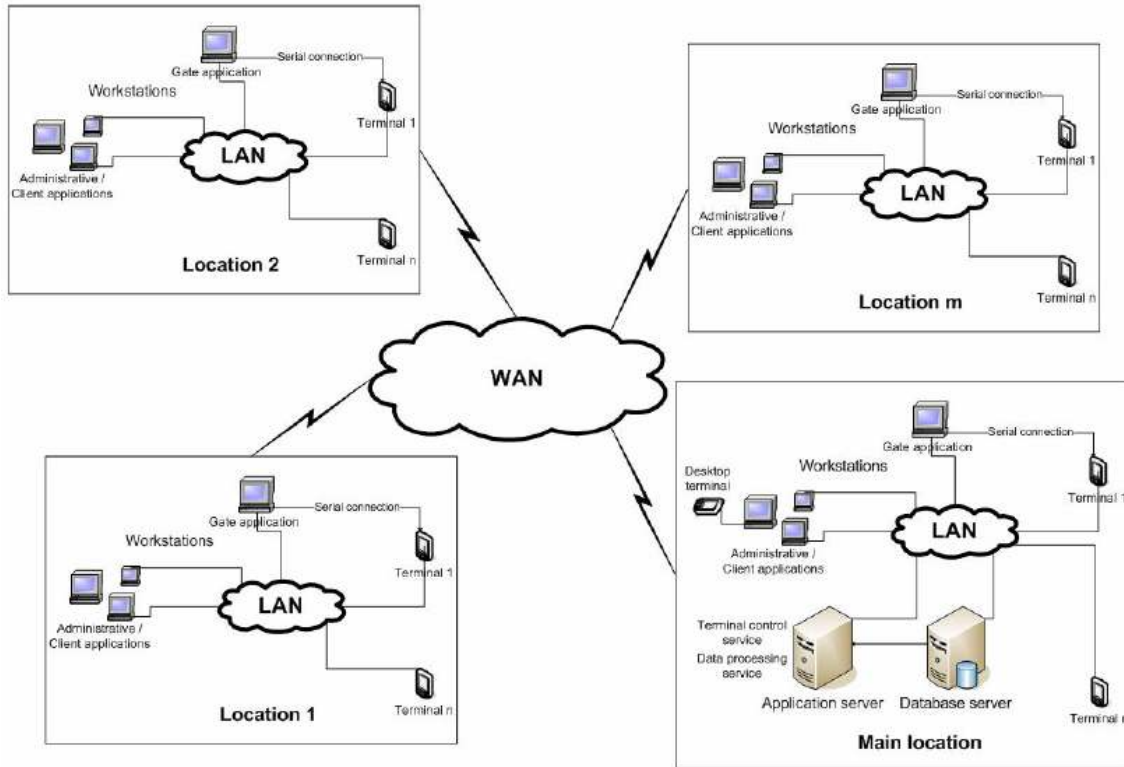
ACTA - system architecture

General system scheme – each location can, but does not have to have work station with client application. Total number of locations and terminals by locations limited only by the TCP/IP flow rate and IP addresses availability)