Integrated Smart Parking Solution
A multifunctional lever in effective city management
Facilitate parking – Parking shortages arise as a result of competing user groups.

Direct mayhem – Large numbers of commuters enter the city by car every day.

Keep it moving – Average speed when cruising for parking is 9 km/h.

Improve the overall commute experience in your city – Drivers searching for parking account on average for one third of traffic concerns.

Meet the standards – European Guidelines for NOx and PM10 reduction are frequently exceeded.

Tackle the lack of transparency – Real-time info on park-and-ride options encourages public transport usage.

Deal with disturbances – Public transport and tramway blockage leads on average to about an hour of waiting time for public transport passengers.

Make your city “smart” – Street clutter, cash handling and inefficient city equipment are a dying breed.

The bottom line – The Siemens Integrated Smart Parking Solution is a revolutionary approach at traffic management. Together, we can:

- Actively guide drivers: Routing apps, on-board or infrastructure-based navigation systems reduce their search time and ease the traffic. Personal preferences or requirements such as the vehicle size can be incorporated.

- Enhance trip planning: From point of origin to final destination. Inform your commuters using statistical data on current and previous parking availability. By including the time needed to secure a parking space and walking distance to the desired location, this data can then be used to form intelligent comparisons of travel modes, encouraging use of public transport as needed.

- Collect intelligence: Make informed decisions on parking price and regulations and detect parking violations time and cost-effectively by making real-time info on violations accessible to enforcement personnel.

- Ensure adequate use of resources: Reroute vehicles as necessary to make best use of all available spots across the city – based on statistical and real-time information on parking vacancies. By ensuring that electric vehicle parking space is not blocked with combustion cars, the investment in city charging infrastructure becomes more profitable.

- Upgrade your city to “future-proof”: Use smart parking infrastructure and data for multiple applications in traffic management and beyond. With an overhead sensor and communication infrastructure installed, adaptive lighting, monitoring of city equipment or emission data management are just a small step away.
The Siemens Integrated Smart Parking Solution is a traffic management tool that will change the way your city ticks. A perfect match to the existing Siemens traffic management portfolio, it simplifies driver decision-making with valuable information on parking availability, ultimately freeing up your roads. Drivers are guided to their final parking destination along the shortest possible route via in-car navigation or with the help of programmable dynamic message signs (giving commuters the current occupancy levels of the surrounding parking zones).

This modular, infrastructure-based sensor system goes beyond the possibilities of ground sensors. It includes both overhead and ground sensors for use on a stand-alone basis or as an invisible "smart" accessory for surrounding street lights. Additionally, RFID technology is used for recognition: drawing on real-time parking-related licenses or identification data. The end-result: a clear picture of who’s parking where which feeds effortlessly into a data warehouse. This detailed parking and violation information can then be tapped by routing and enforcement applications or city dashboards.

**Your Benefits:**
- Traffic Made Transparent
- **Improved traffic flow/reduced congestion**
- **Statistical and real-time information on parking vacancies**
- **Intelligent usage of infrastructure**
- **Simplified parking data collection at a reduced cost**
- **Possibility of convenient cashless parking via automated to-the-minute billing**
- **Safer traffic with efficient enforcement of illegal parking activities**
- **Usage of smart parking infrastructure and data for multiple applications in and beyond traffic management**
- **Additional scope: encourage usage of public transportation at times of congestions**
The information in this document contains general descriptions of the technical options available. The required features should therefore be specified in each individual case at the time of closing the contract. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action and integrate each component into a holistic, state-of-the-art security concept. Third-party products that may be in use should also be considered.