

Monitor parking space availability in real time on mobile devices, dashboards and graphic maps

**Areashell Parking Services** 

### **Parking Availability Services**

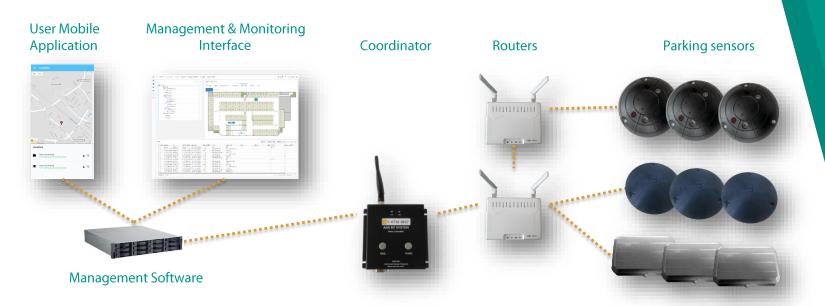
- Collect data about parking space availability from parking sensors
- Calculate and record parking lot and zone parking availability
- Provide administrators and users with the information about parking availability by zone in real time
- Generate reports based on the recorded data



### **Internet of Things Ecosystem**

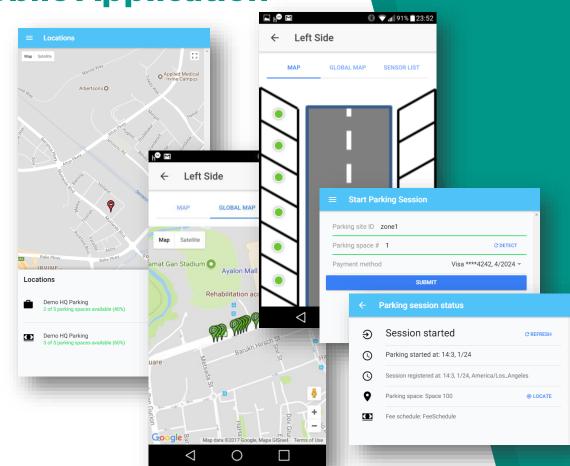


- Based on ASN Inc. IoT controllers and sensors
- Battery-based parking sensors (working 5 years without changing the battery)
- Wireless communication between coordinators, routers and sensors
  - Parking sensors send availability information to the nearest router
  - The network of routers transfers data from the parking sensors to the coordinator
  - The coordinator transfers data to the Areashell software



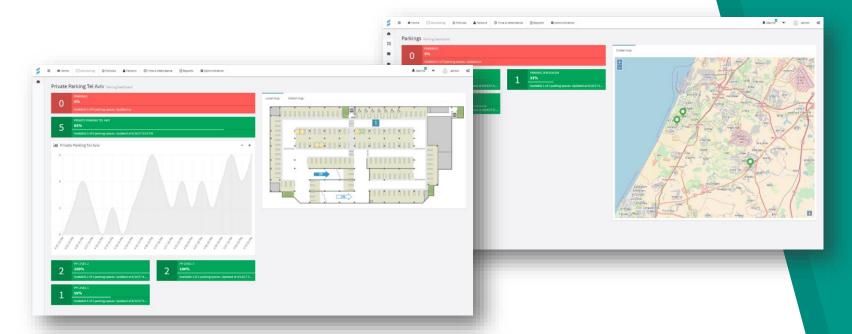
**End User Parking Mobile Application** 

- Quickly locate an available parking lot and space
  - Shows information about parking areas both in corporate and public parking structures
- Navigate to the selected parking lot and space
- Pay for parking by credit or debit cards
- Quickly locate parked car in the parking lot



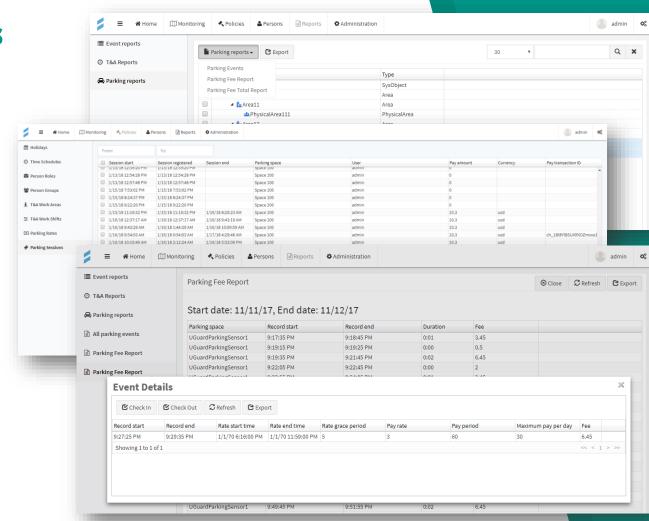
#### **Real-time Parking Availability Dashboard**

- Monitoring parking availability by area of indoor and outdoor parking locations on local and global graphic maps
- Diagrams of changing parking availability by time



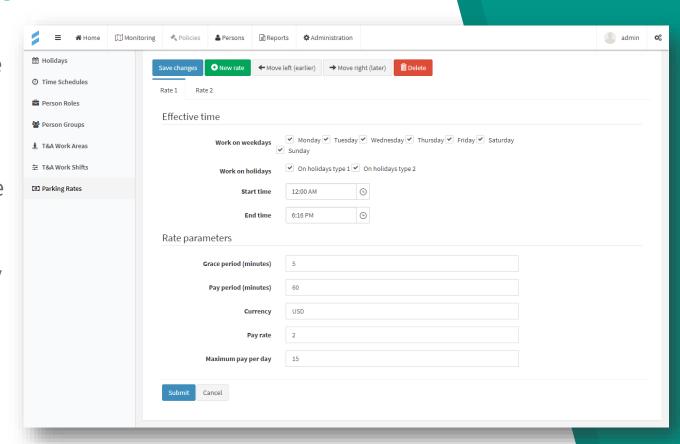
#### **Parking Reports**

- Parking session report
- Special report for parking events by parking area / subarea
- Parking fee report by parking space by parking event
- Total parking fee report by parking space for a period of time
- Export reports to external files



#### Flexible Parking Fee Rates / Schedules

- Parking fee reports are using configurable parking fee schedules
- Parking fee schedule can contain several fee rates different for different days of week, holidays, period of day

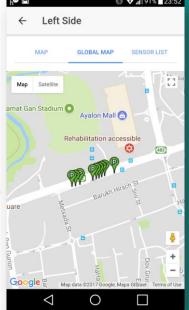


# **Integration with Areashell Cloud Parking Services**

- Any Areashell instance can be integrated with the Areashell Parking Services (running in the Areashell cloud)
- Areashell instances regularly send information about availability of the parking spaces to Areashell Cloud Parking Services
- Areashell Cloud Parking Services provides parking availability, location and other information to Areashell Parking mobile applications



# Areashell Parking mobile application

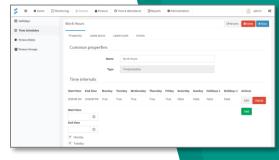


## **Fully Web-based**

#### **Management & Monitoring Interface**



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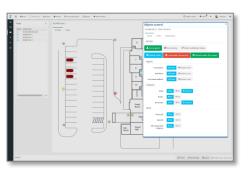
System configuration management

Hardware management

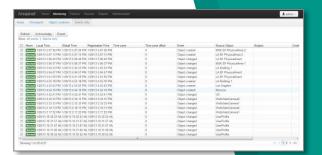
Policy management



User management



Real-time monitoring & control



Reporting

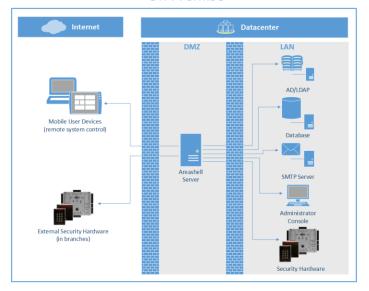
#### **Advanced Scalable Architecture**

- Ready for Public and Private Clouds
  - Web-based interface
  - Standard Java™ EE Application
  - IP-based communications with hardware controllers
  - Multi-tenant configuration options
    - One instance of Areashell software can serve several independent isolated systems
    - Administrators of one of the tenants cannot manage or see the configurations or events of any other tenant
- Multi-platform
  - Works on different hardware, operating systems, virtual platforms, web-servers, application servers, on premise and in cloud
  - Supports free open source and commercial operating systems, application servers and database management servers

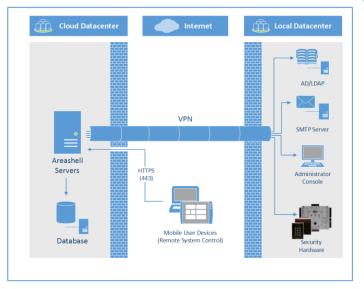
#### **Flexible Deployment**

- Areashell provides great flexibility of deployment. With Areashell you have a choice how to deploy your access control system: in cloud or on premise.
- In both variants you can securely control the system from any workplace, including mobile devices, and integrate your system with locally installed security hardware and other information systems.

#### On Premise



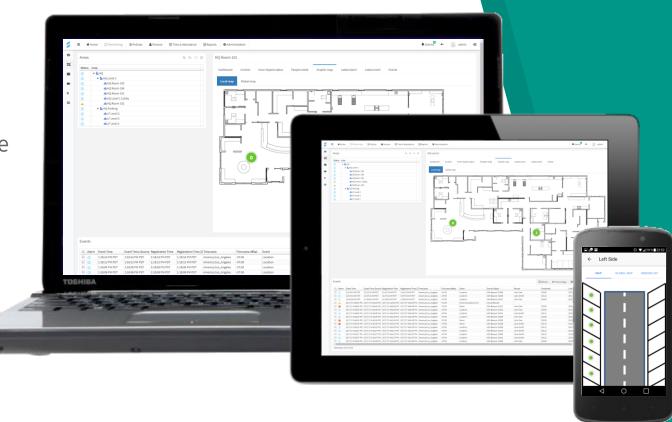
#### In Cloud



### **Mobile Friendly**

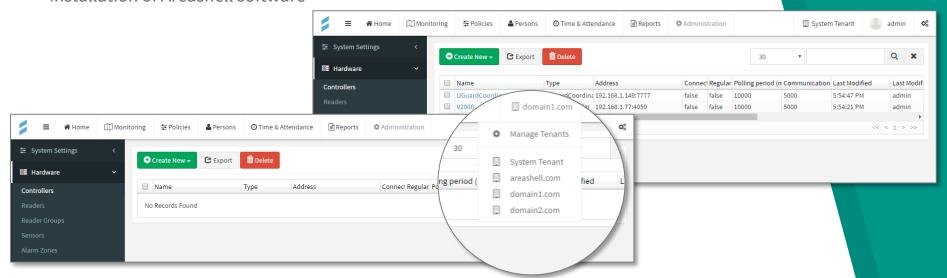
 Web-based interface allows manage the system from any device from any place

Special mobile application for users



#### **Multitenancy**

- Areashell supports multi-tenant configuration:
  - One instance of Areashell software can serve several independent isolated systems tenants
  - Administrators of one of the tenants cannot see or manage the configurations or events of any other tenant
- This feature makes possible to support several independent system by just one installation of Areashell software





Please contact us!

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