



# Milestone Certified Solution



parkingspotter



## Parking Spotter

v1.0.5

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## About Parking Spotter

Parking Spotter is a multi-awarded Parking Guidance solution, providing parking spots availability to drivers and Business Intelligence information to parking owners, developed by the Romanian software company VA Solutions Lab.

Parking Spotter is also the first winner of Milestone Community Kickstarter Contest, in 2017, Texas USA.

More information available at [www.parking-spotter.com](http://www.parking-spotter.com) .

## About Milestone Systems

Milestone Systems is a global leader in providing open platform IP video surveillance software. Milestone has provided easy-to-use, powerful video management software in more than 150,000 installations, worldwide.

Milestone XProtect® provides open architecture products that are compatible with more IP cameras, encoders, and digital video recorders than any other manufacturer. Because Milestone provides an open platform, you can integrate today's best business solutions and expand what's possible with future innovations.

Visit [www.milestonesys.com](http://www.milestonesys.com) for more information.

## Executive Summary

Parking Spotter solution is a Machine Learning video analytic solution that uses any new or existing cameras installed inside the parking lots, to identify the availability of the parking spots. By being integrate with Milestone Systems the solution can use streams from any of the 6000+ camera models already integrate in Milestone and can offer to Security integrators, a good upselling opportunity into existing accounts that are in the target market: Airports, Shopping Centers, Business Centers, Fun Parks, Stadiums, Public Parkings.

## Certified Products

- Parking Spotter version 1.0.5
- Parking Spotter Android plugin (an Apple IOS app will be available shortly)
- Milestone XProtect Corporate 2017 R3

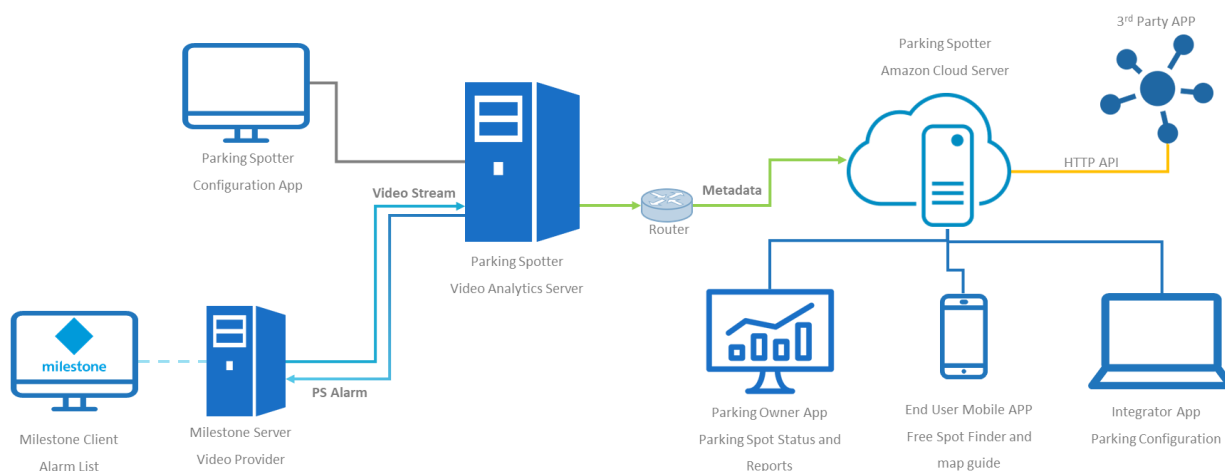
## Parking Spotter features

Parking Spotter is an application that helps end-users find the closest available parking spot. It helps parking owners improve operational flows by analyzing video images from cameras installed inside a parking lot and gathering all parking places inside a city or country in a single app. In other words, it's an excellent example of combining video and other technology to improve people's lives and create more efficient businesses and operations.

The Parking Spotter solution consists of

- A Milestone XProtect system with cameras overlooking a parking area
- A Parking Spotter Analytics server keeping track of available parking spots and communicating with the VMS and the cloud server communicating with the customers
- Smart phone apps (Android and IOS) used by customers to book a parking spot and to report if incidents happened with their car e.g. dents, theft while parked.
- Web App dedicated for parking owners to export a suite of Business Intelligence reports like: Occupancy of the parking, average parking duration, parking heat-map

# Parking Spotter system architecture



The Parking Spotter Video Analytics server pull video feeds from the Milestone XProtect server and analyze the video with the defined parking spots and keep track of used spots and available spots.

Available spots are presented for users of the app, who can book a space, which decrement the number of available spots.

The Parking Spotter Video Analytics server can also report illegal parking in predefined spots/areas e.g. bus parking spot or fire exits to a traffic warden.

# Parking Spotter usage

Parking spots are defined in the camera view and tied to a GPS position by use of Google Earth

## Parking Spotter Config Tool

Home Cameras Parking Configuration Spots Configuration Spots Configuration VA

Select Camera FLEXIDOME IP dynamic 7

Refresh Image

Previous Camera

Next Camera

Name	Configured
S1Sp1	Yes
S1Sp2	Yes
S1Sp3	Yes
S1Sp4	Yes
S1Sp5	Yes
S1Sp6	Yes
S1Sp7	Yes
S1Sp8	Yes
S1Sp9	Yes
S1Sp10	Yes
S1Sp11	Yes
S1Sp12	Yes
S1Sp13	Yes
S1Sp14	Yes
S1Sp15	Yes
S1Sp16	Yes
S1Sp17	Yes
S1Sp18	Yes
S1Sp19	Yes



Reset Spot Image Coordinates Type: Normal Spc Set Time Add GPS Coord Lat: 55.656373465696 Long: 12.375354319810 Show Zone Save

When all parking spots have been defined, you upload the configuration to the Cloud Server, communicating with the customers

Run VA Config

Send Parking Conf

VA Config

Obs.

Good

Good

Processing ...

Done! Your parking configuration has been sent.

OK

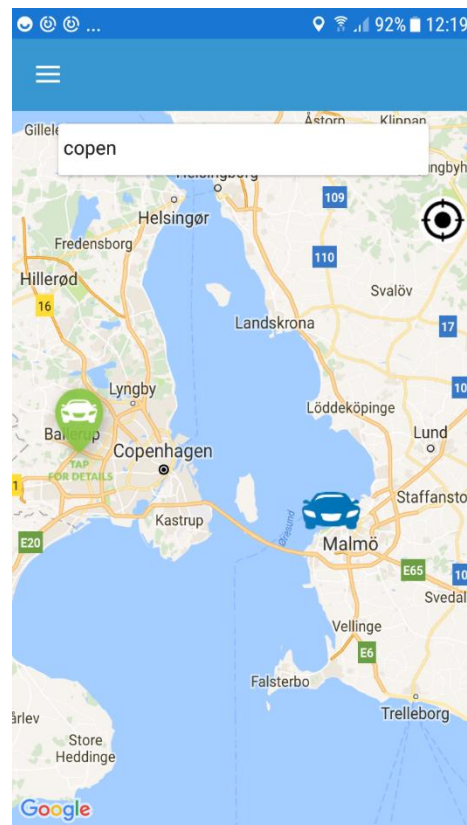
Good

Good

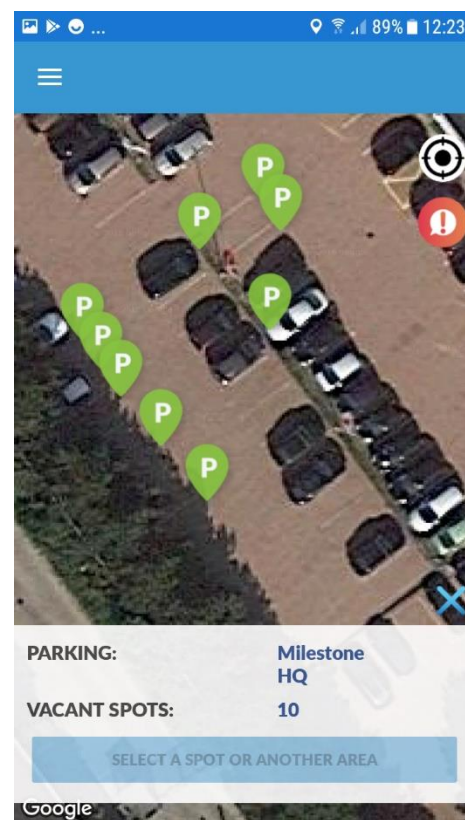
Good

# Smart phone application

The customer opens the Parking Spotter app and search for the area they would like to park

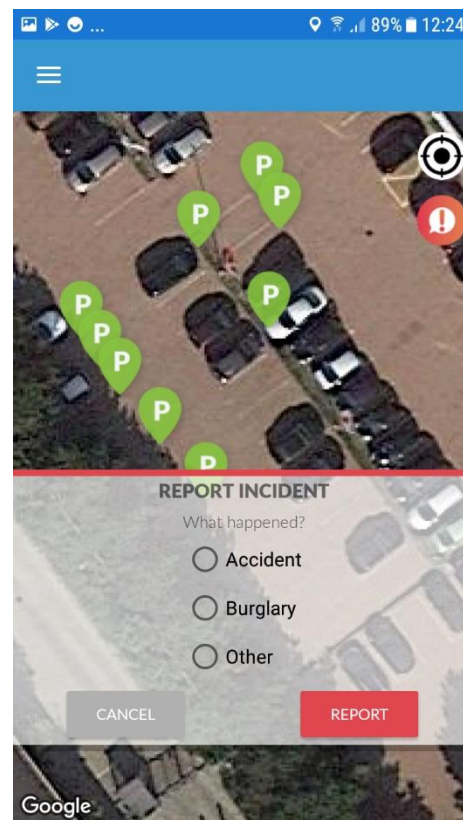


By zooming in on the selected parking area, the individual available spots can be seen





If the customer comes back and find the car damaged or stolen, he can report the issue from the app



## Web application

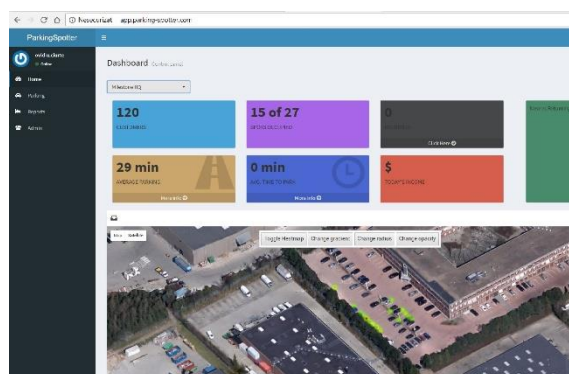
The web app is dedicated for parking owner to extract Business Intelligence reports from the parking he owns.

The app is available at: [app.parking-spotter.com](http://app.parking-spotter.com). The parking owner will be able to see information, only from his parking, divided in a few sections:

### 1. Dashboard

In this section parking owner sees an instant overview about current day in his parking:

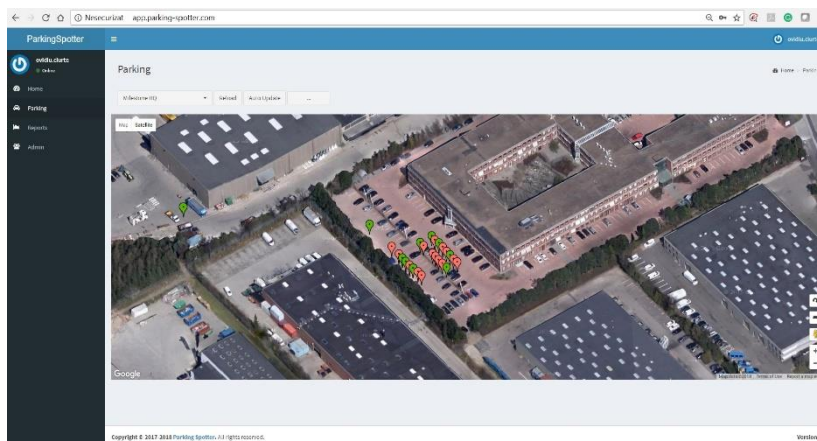
- How many customers he had today
- How many spots are available now
- What is the average parking duration
- A heat-map of the parking with today's occupancy





## 2. Live availability map

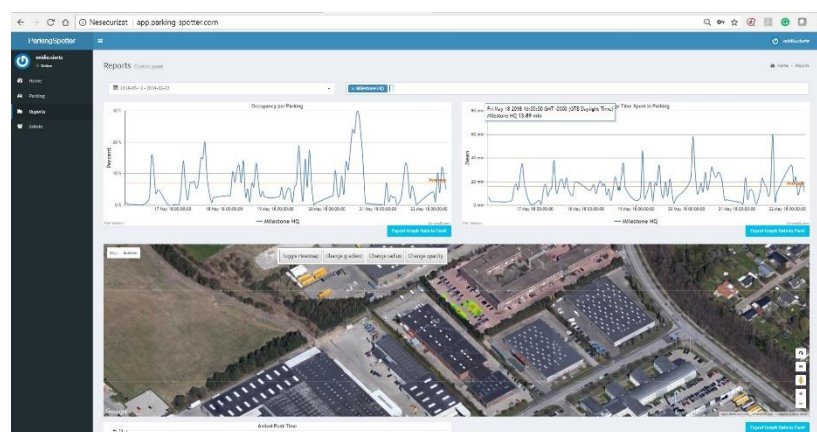
A Google maps-based view of available parking spots.



## 3. Reports

A powerful tool to extract Business Intelligence Information over selected period of time:

- Occupancy
- Average parking duration
- Heat Map
- Arrival Peak time



# Conclusion

The Parking Spotter won the Milestone Community Kickstarter contest 2017. Being selected the winner of the contest clearly show this product is something special.