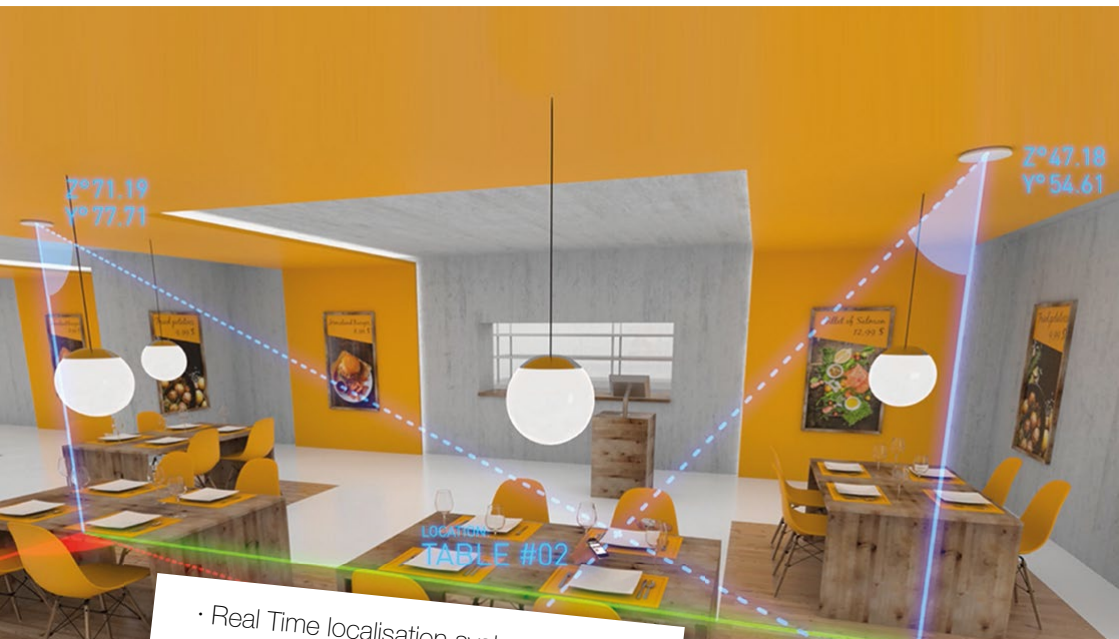
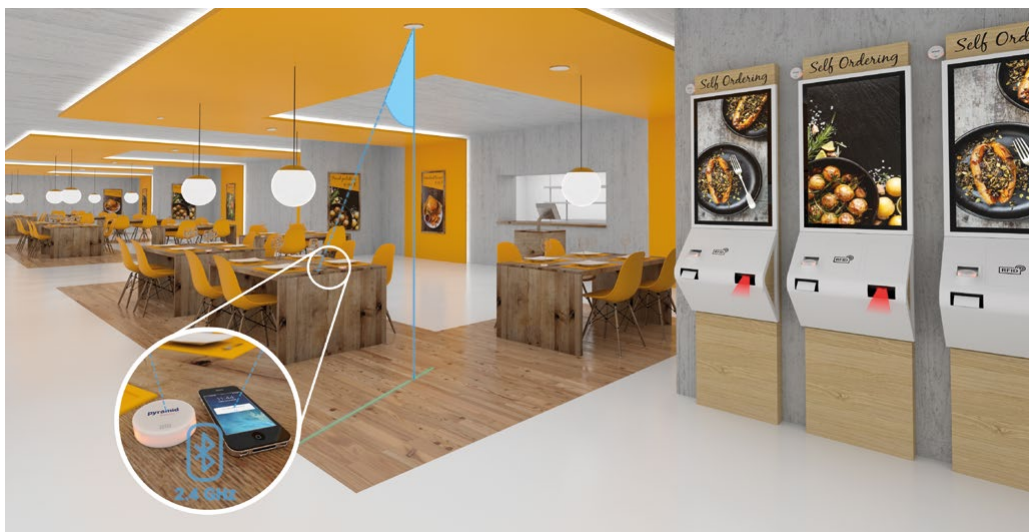


PLS - locate | analyse | interact

Real-Time Location System



- Real Time localisation system
- Angle of Arrival Method
- Accuracy 6 inch
- Smartphone compatible



Customers use smartphones or a puck.

PLS - locate | analyse | interact

The PLS (Pyramid Locating System) is an unparalleled highly accurate real-time location system. It is based on the Angle-of-Arrival (AoA) method and measures the position of Bluetooth® and smart phone devices with an 6 inch accuracy.

Since GPS is unfortunately not available in buildings, PLS is an robust and precise indoor and outdoor localisation solution.

In contrast to other Bluetooth® Low Energy based beaconing solutions PLS works with robust AoA signal processing, update rates up to 50Hz and latency down to 100ms. This enables a predictive stable and complete area coverage for real-time applications.

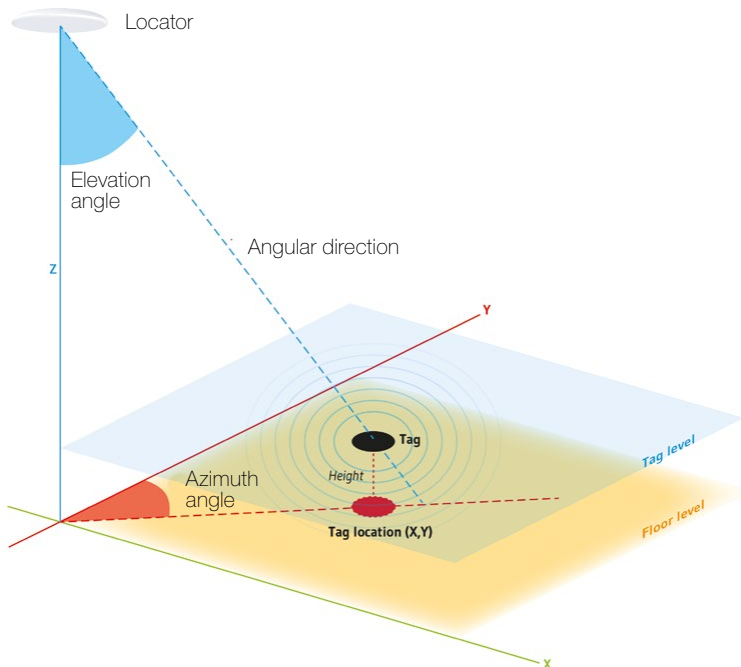
With that enterprise technology the system always allows flexible applications like individual zone definitions, shelf-precise positioning and seat-precise positioning and actions in restaurants.

The deployment is straightforward with the lowest TCO in the market:

Install the planned number of PLS antennas in your area and connect to the PLS

server on standard Ethernet network. Then use the individual Pyramid Puck (Tag) or an smart phone app for your customer. Once installed the PLS is continuously monitoring and notifying your service partner. The system requires no physical maintenance.

AoA Signal Processing – Unrivalled accuracy robustness



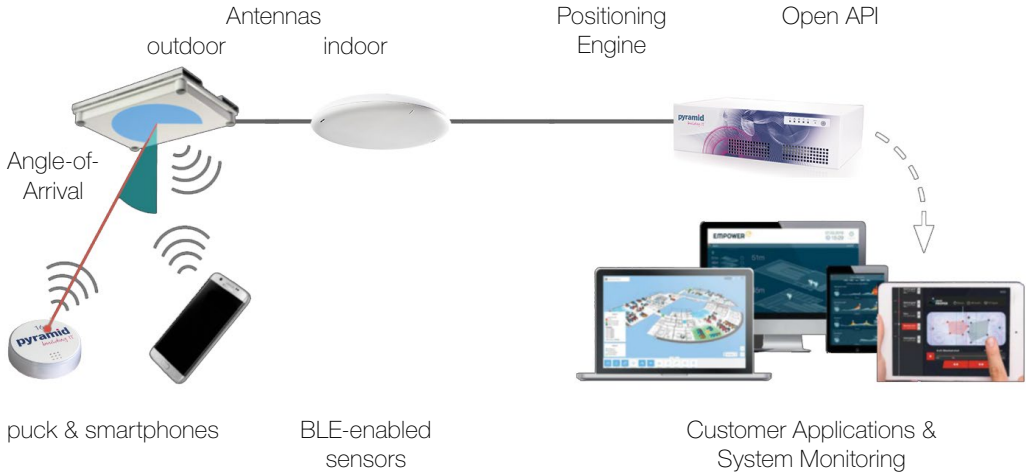
Smart Voice Table Service

PLS provides a skill for Amazon Alexa. This skill can access all real-time information of the PLS system and provide positioning and order information via voice control: „Where is order number 42“ „Add one Coke to table number 5“. Active actions are also possible: „Page order number 42.“



Further information: www.pyramid-computer.com/alexa

Infrastructure & system components powered by Quuppa



Components - One system delivers all

Pyramid supplies you with one package containing all components for your indoor positioning application.



PLS pucks

- Lightweight and Bluetooth low energy consuming tag devices. They can individually be printed in photorealistic colors.



Antenna/Receiver

- PLS Receiver is discreetly and elegantly designed to fit well into any indoor environment.



Server Hub

- PLS server hub coordinates the communication of the entire PLS infrastructure. It receives data from the antennas, runs it through advanced positioning algorithms.



Automatic puck dispensing unit

- The dispensing unit has a capacity of 20 puck devices and is an additional HW-module for polytouch® 32 passport kiosks.

Further information: www.pyramid-computer.com/32-passport

Highest automation – PLS for hospitality

You can increase your throughput and provide extraordinary convenience to your guests with PLS: The customer can easily order and pay at the Pyramid self-order kiosk or at the shelf. The puck is then dispensed by the kiosk or the service and the customer chooses a seat. The system will recognise their location. If the order is ready you can serve the customer accurately at their chosen table. Within seconds!

This is how a futuristic restaurant functions - your guests will be impressed!

Step 1: Order process



Order



Pay



Take the puck

Step 2: Communication



Smartphone/puck sends signals



Receivers locate smartphone/puck

Step 3: Localisation & service



Position is being announced via Voice or POS.



The order is brought to the table

Technical Specs

- Accuracy 6 inches
- Real time locating system within 50Hz
- Low energy consumption (BLE) standard
- Interference free AngleOfArrival signal processing
- Indoor locating area up to 75.000 sq ft each antenna

Your Advantages with Pyramid Locating System PLS

Accuracy

- Position to 6 inches accurate
- Real-time, max update rate 50Hz

Versatility

- Track any Bluetooth Low Energy-Tag
- Smartphone compatible
- Connectivity for IoT sensors
- Photorealistic printing for Puck
- Pinpoint positioning, proximity, or presence detection
- Paging and Positioning in one System
- Software-defined-Zones

Scalability

- Lowest Costs of industry
- Fast deployment (4h / site)
- Active Monitoring
- Long lasting tags

Further information: www.pyramid-computer.com/pls

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