

Product Brief – GEPPS™ positioning and cashless payment system for Amusement parks and other large facilities for in/out door environment

INTRODUCTION

GEPPS™ (Griffin Enterprise Positioning and Payment System) is a unique positioning and cashless payment system for Amusement parks, Hotel Resorts, Adventure bath, Sports arenas etc. The system works equally well indoor and outdoor. GEPPS™ helps visitors to keep track of their children and friends and the facility can collect valuable business information how visitors acts. Customers gets wristbands that they can use to manage payments by a simple one touch at a cash machine. Furthermore, the system will determine the actual position of each wristband and the location will be displayed on the visitors Smartphones. GEPPS™ includes:

- Smart phone APP from APP Store or Google Play. Visitor creates an account in the Griffin™ cloud service through Facebook or email.
- Follow your kids or friends in the Play Center or Resort with the Smartphone APP or on Displays.
- Use the wristband to pay your bills at the restaurant, shop, bar or at any other activity with a simple touch.
- Paying with wristbands simplifies the business process and gives shorter queues that will increase sales for the facility.
- Pay with the wristband and decrease the transaction cost by using "open bill". Avoids multiple transactions!
- Valuable business data can be monitored through GEPPS™ Visualizer. A system that show visitors walking patterns, visitors spending, number of visitors etc.
- Payment with Apple Pay and Google Pay



GEPPS™ Visualizer visualize your business.

Experience an excellent overview of the operation and draw important business conclusions how to improve the park.

Learn who are visiting the hotel, resort, park etc and what do they like to do. Direct marketing inside or outside the facility.

Reduce the cost of handling money by GEPPS™ cashless payments as part of the Wristband and services.



GEPPS™
*simple
payments
with one
touch!*



H&D Wireless - A Global IoT Solution Company

H&D Wireless AB, a Global Swedish award winning IoT Solution Company based in Stockholm.

H&D Wireless offer a full turn-key IoT platform, Griffin TM. H&D Wireless AB products have been installed and shipped into more than 1,000,000 products worldwide.

Tier 1 customer references within Amusement parks, Smart Home, Enterprise and Multi-media markets.

www.hd-wireless.com
www.hd-rtls.com

Headquarters
 H&D Wireless AB
 Kista Science Tower
 Färögatan 33
 164 51 Kista, Sweden
 Tel: +46-8-55118460
 Fax: +46-8-7509977
 E-mail:
 sales@hd-wireless.se
 info@hd-wireless.se

International
 North America
 H&D Wireless AB
 E-mail: sales@hd-wireless.se

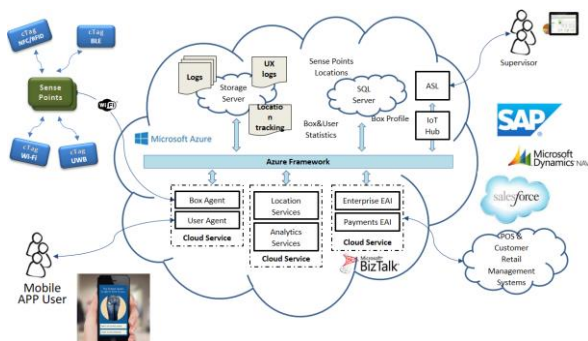
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Technical Support
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 The reference designs provided are turnkey solutions that will work first time

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GEPPS™ System Architecture



How does it work?

H&D Wireless GEPPS™ offer a one of its kind positioning and payment solution for large parks and resorts.

The Griffin™ Server

- Calculates the position of each wristband
- Communicates with payment system
- Handles accounts and APP notifications
- Handles visitor groups
- Holds enterprise data in a secure manner

The APP

- Show friends and children, restaurants, attractions, services on facility map
- Show your payments and balance
- Presents the facility
- Register wristbands
- Account handling through Facebook and email

Sense points

- Collect Radio frequency signal strength from all wristbands
- Reports the wristband data to the Griffin™ cloud through Wi-Fi network

Deployment

- Tools to easily mount the Sense points on the right locations
- RFID reader at check in and check out
- Pre-configured wristbands

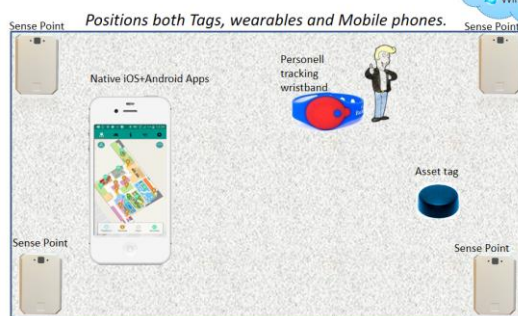
Market recognition, awards:



GEPPS™

Communication technology	Wrist band: UWB, BLE, Wi-Fi, RF-ID/NFC Sense points: UWB, BLE, Wi-Fi Smart Phone: Wi-Fi, Cellular
Mechanical interfaces	Switch to record and send audio to Smart Phone and "I am lost" key. Switch to play audio from Smart Phone
Wristband	Comfortable with secure looking
Battery Life time	8 months
Audio Interfaces	✓ 8 Ω, 0.5 W speaker ✓ Mems microphone
Smartphone APP	✓ See position of "friends" ✓ Check payments ✓ Map and activities at facility ✓ Manage bookings and reservations
Wireless Security	✓ WEP-64 ✓ WEP-128 ✓ WPA-PSK ✓ WPA2-PSK
Smart phone to server security	✓ HTTPS
APP	✓
Approvals	✓
Languages	✓ Swedish ✓ English ✓ German

Griffin Enterprise Payments & Positioning, GEPPS™ - a real time localization service, RTLS



The GEPPS™ system consists of an infrastructure that collects information from the positioning tag. How far tag is located from a certain Sense point is measured and send to the cloud server. The server calculates each tags position to APP or Monitor

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