



Ten Degrees Indoor Micro-Location Technology adopted by Panasonic Corporation for Global Customers

- *Complements high-directivity beacons for Panasonic's HD Beacon™ positioning solution*
- *Implements high-accuracy pedestrian dead reckoning through sensor fusion*
- *Enables high-precision map-aided positioning*

CEDAR RAPIDS, IA – MAY 17, 2017 – [Ten Degrees, Inc.](#), provider of the world's most accurate SaaS-based indoor micro-location (blue dot) engine and human motion data analytics, today announced that Ten Degrees' indoor positioning engine has been adopted by Panasonic Corporation for its global customers and partners. Panasonic provides the indoor and outdoor positioning information using the Ten Degrees' location and navigation engine integrated as core technologies into their HD Beacon high-accuracy positioning information solution. Panasonic promotes these solutions to manufacturing, transportation, health care, and education customers to provide navigation, analytics, and detection services.

Ten Degrees has developed a core positioning and navigation engine based on a patented dead reckoning, sensor fusion engine that utilizes the inertial sensors and radios available in modern smartphones and IoT wearables. The results from the sensor fusion engine are enhanced with signals of opportunity, such as Bluetooth signals, and map information to produce a best-in-class human indoor location. These results are used to provide GPS-like location and wayfinding experience in indoor and GPS-impaired environments. In addition to the real-time individual user experience, Ten Degrees also provides a rich suite of aggregated human motion analytics that can be used to increase efficiency, worker safety, security, and compliance.

Ten Degrees has been closely working together with Innovation Center of Connected Solutions Company formerly known as AVC Networks Company in Panasonic Corporation to commercialize indoor positioning solutions since November 2013. The companies have continuously demonstrated experiments to verify the performance of Ten Degrees' indoor navigation engine. Panasonic Corporation is now providing an indoor positioning solution, using their own high-directivity BLE beacons with Ten Degrees' navigation engine, to their corporate customers. These

location services are a critical element of Panasonic's HD Beacon solution for smart buildings and smart manufacturing facilities, in analyzing how employees move and work.

"We are excited to have Panasonic as a lead system integrator for our software-based location solution for factories and smart buildings around the world," said Jobe Price, CEO, Ten Degrees. "Panasonic's global presence and HD Beacon technology combined with Ten Degrees micro-location software will provide a truly differentiated location solution for businesses".

The Ten Degrees Solution

- Indoor Positioning: Meter-accurate human location services
- Context Aware: Directional, velocity, pace, and intent information
- Navigation: Visual routing and wayfinding services to points of interest
- Statistical Analysis: Cloud and enterprise heat maps, area and route usage, and timeline analytics
- Web Console: Collectively manage all set-ups such as a facility map, location-relevant content, and beacon configurations

Supporting Resources:

- [Ten Degrees Home Page \(English\)](#)
- [Panasonic HD Beacon Home Page \(English\)](#)

About Ten Degrees

Ten Degrees provides SaaS human motion data analytics by using the sensors and radio receivers in modern smart phones and IoT wearable devices. These services are critical for the implementation of Smart Manufacturing (Industry 4.0) and for worker safety location awareness. They are key enablers for the next generation of retail, manufacturing, travel, and health care facilities. For more information, visit www.tendegrees.net. Follow Ten Degrees [@10DLocation](#).

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