

Full Support for your Production Network

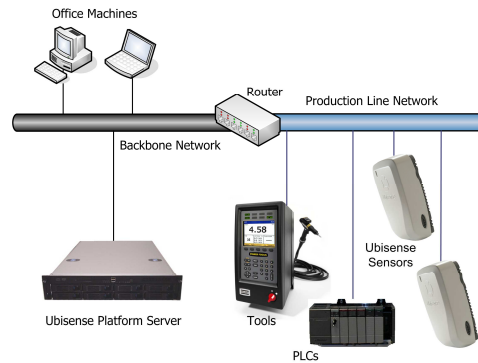
Key product features and benefits

The Ubisense Advanced Networking Package is a package of specialised features to fully support sensor operation in even the most production critical networks.

To guarantee robustness, production networks often have restrictive policies and provide a reduced set of network services. Production systems also require fast start up times to reduce the severity of power outages.

The Advanced Networking Package permits operation of sensors using only universally accepted protocols, and with no reliance on any external network services. The package also includes support for system start-up in around 90 seconds even for large networks with several hundred sensors.

The Advanced Networking Package has been designed for maximum reliability, performance and network compatibility. It is used in production critical installations throughout the world.



Product Features in Detail

Minimal networking protocol requirements

Standard Ubisense sensors get their configuration from Ubisense services that use multicast protocols for maximum efficiency when supporting many simultaneous units. The Advanced Networking Package makes it possible to set up Ubisense sensor configuration services so that the only network protocol they use is UDP unicast, which is acceptable for operation even under the strictest production network policies.

This ensures compatibility – you can operate the sensors on any production network, no matter how restrictive the networking policy.

Sensor static IP address assignment

Standard Ubisense sensors receive networking parameters from DHCP and DNS servers to make the system as flexible as possible. The Advanced Networking Package makes it possible to store static IP address parameters in a sensor's persistent storage. This means that it is possible to boot the sensor up with a guaranteed constant IP address and without any dependency on external network services like DHCP and DNS, which are difficult to operate in a highly-reliable mode.

This provides maximum robustness and reliability – a sensor's networking properties will never change and it can boot without any dependency on external network services.

Sensor ROM programming

Usually sensors will download code from a boot server to make the system as flexible as possible. The Advanced Networking Package makes it possible to set up sensors so that they store their code in their persistent storage. This means that a sensor can boot up without depending on a boot server. In very large systems the boot server can be a bottleneck, and this means that if a very large system is power-cycled it might take some time for all the sensors to boot up; by removing this bottleneck it is possible to guarantee that even a very large system will start up in a constant time of around 90 seconds.

This enables a fast restart after power outage: even a very large system (many hundreds or thousands of sensors) will come up in record time.

About Ubisense

Ubisense is the world leader in Precise Real Time Location Systems, tracking unlimited numbers of people and objects in any space of any size. With unmatched 15cm 3D tracking accuracy and high reliability, its acclaimed open standards technology platform gives enterprises the power to bring visibility and control to previously intractable business processes. Together Ubisense consulting and its partners, such as IBM, Atlas Copco, Lockheed Martin and Raytheon deliver geospatial and RTLS systems, pioneering innovation whilst reducing costs, gaining competitive advantage and improving safety for companies across all vertical markets. With over 400 customers worldwide including BMW, Caterpillar, DHL, Duke Energy, Deutsche Telekom, US Army; Ubisense is revolutionising industries today. Visit www.ubisense.net

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