



Internet of Things

The Internet of Things (IoT) devices and applications are growing at a tremendous speed, and there is not a lack of IoT ideas in the world of today. Sweden Connectivity has the competence and capability to develop the IoT's and surrounding eco systems. For customers and in FP7 projects we have developed; Door control, Tracking, Medicine cabinet, Office application, Payment terminal, Smart pen and PC/Mobile accessories...

For all small stand-alone IoT devices functional requirements can be harsh but the toughest is by all; the current consumption and battery lifetime. Being always connectable, functional and available is not easy when battery constraints set the limits. By making the best trade-offs, the usability of the IoT can be secured at the right level, and to the right power, size and price.

Mobile Apps and Servers



Developing Apps for all smart phone OS's with servers and IoT devices, requires experience and knowhow. Sweden Connectivity has the competence, the development processes and continuous integrations systems with test-tools (C/I-T), enabling us to develop according to Scrum principles with a close customer relation.

Nowadays, we also have internally developed Linux servers for adaptation to new applications. We are fully capable of working in most server environments making the best implementation for future compatibility requirements. This together with App, IoT development and wireless solutions with the best functionality and radio performance gives our customers a leading edge.



Wireless solutions

Today you have numerous possible wireless technologies available ranging from Cellular, Wi-Fi, Bluetooth/BLE, Sub-giga to NFC and RFID. The choice of solution shall be based on the functional requirements, but as always the three most important items for a commercial product are; price, size and power.

To get a reliable solution and also the benefits of the "three most important items", normally re-using mobile technologies is the right way to go. Sweden Connectivity employees have specified, developed and integrated all wireless technologies entering into the smart phones of today. We have very high competence and also very good relations to the wireless chip/module and low level SW vendors of our choice.



Radio and Antennas



There are always two ends to a rope. For a radio communication link there are four ends, transmit and receive for both communicating devices. The distance and reliability is set by the weakest end of the link. Imagine controlling a lifter with a heavy load, over houses and heads of the workers at a building site, and the radio-link breaks down - this must not happen! How to create reliable and secure radio links is a profession in itself.

The opposite requirement can be to create a Payment terminal. Then no other devices shall be able to intrude or become "the-man-in-the-middle", this requires control of the radio-link and furthermore also protocol support for security. At Sweden Connectivity we have for many years developed and validated radio solutions, using our long experience, competence and test lab securing best in class performance.