



The Internet of Things Evolution

Duration – ½ day

Synopsis

The Internet of Things is becoming a more prevalent feature in many industries, and the technologies for transforming business applications are developing quickly, with a key driver being the adoption and deployment of small, inexpensive sensors and smart devices. Yet despite the reduced requirement for high capital investment costs and high-maintenance infrastructure, many organizations have been slow to recognize and act on these new opportunities.

When combined with the explosion of data and meta-data generation, the availability of sensors and the storage options that the cloud provides, all of the ingredients are there for businesses to drive increasing value from focussed data analytics.

Another change driving traction is the availability of technology and analytical methods that can be applied to streaming data from the sensors as they are in motion. This gives the potential to push decision support and performance monitoring to the source of the data, providing increased potential for businesses to monetise the IoT.

This presentation is designed to provide a semi-technical introduction and overview of IoT concepts, principles and methods of working. Case studies and architecture options are used to give insight into the use-cases that are currently defined by various standards bodies, and mechanisms to support these use cases are presented.

Presentation Content

Introduction to IoT

- What, where, when, how!
- Fundamental concepts and principles
- Cellular IoT
- Industry 4.0

The IoT environment

- M2M / MTC
- Machine to Infrastructure
- Soft sensors
- IoT and Cloud working
- The IoT ecosystem

Connectivity

- Wireless / Cellular / Fixed
- Multi-RAT access
- Protocols and procedures
- Architecture independence

Data in the Cellular IoT space

- Real data
- Metadata
- Data analytics
- Managing data