BETaaS: A platform for development and execution of M2M applications in the future Internet of Things

Abstract:
The integration of everyday objects into the Internet represents the foundation of the future Internet of Things (IoT). Such “smart” objects will be the building blocks for the next generation of applications that will exploit the interaction between machines without humans in the loop to provide enhanced services. A crucial factor to enable Machine-to-Machine (M2M) applications is a horizontal service infrastructure that seamlessly integrates existing IoT heterogeneous systems. This presentation will introduce BETaaS, a framework that enables horizontal M2M deployments. BETaaS is based on a distributed service infrastructure built on top of an overlay network of gateways that allows seamless integration of existing IoT systems. The platform enables easy deployment of applications exposing to developers a service oriented interface to access things (the Things as a Service model) regardless of the technology and the physical infrastructure they belong to.

Curriculum Vitae:
Bayu Anggorojati is a research associate at Center for TeleInFrastruktur (CTIF), Aalborg University (AAU) Denmark. He obtained his Bachelor in Electrical Engineering from Institut Teknologi Bandung (ITB), Indonesia, in 2005. He completed the MSc. in Mobile Communication from AAU in 2007 and then PhD also from AAU in February 2015. He was also working as a research assistant at the same institute after finishing his MSc. His main research interest is in the security, access control, identity management, IoT, M2M, and Cloud system. During the period of his PhD work, he has been involved in several projects, especially the European Commission (EC) funded projects, such as ASPIRE, ISISEMD, LIFE2.0, and BETaaS.