

BEREC MACHINE-TO-MACHINE WORKSHOP

19 November 2013
Hotel Silken Berlaymont,
Boulevard Charlemagne 11, 1000 Brussels, Belgium

Registration		09.00-09.30
<u>Opening of the workshop</u>	<p><u>Welcome and Introductory Remarks</u></p> <p>Antonello De Tommaso, Chairman, BEREC Framework Implementation EWG</p> <p>Ritva Suurnäkki, Head of Programme Management, BEREC Office</p>	09.30-10.00
<u>Session A</u>	<p><i>Why do we think there is a significant (potential) demand for M2M/IoT and Smart cities?</i></p> <p><u>Speakers:</u></p> <p>Ian Pannell, Chief Architect, GSMA</p> <p>Oliver Bossert, Senior Knowledge Expert, McKinsey</p> <p>Paul Egan, VP Business Development, Neul</p> <p>José Antonio Galache, researcher on the “Smart Santander” team, University of Cantabria</p> <p><u>Moderator:</u></p> <p>Aldo Milan, AGCOM</p> <p>Some forecasts predict that, by 2020, several billion devices will be connected worldwide. Although the above forecasts are yet to be verified, it is widely anticipated that the development of M2M and of the neighbouring services collectively designated as the Internet of Things (IoT), should enable the emergence of many groundbreaking applications, including smart grids, smart meters, connected cars, eHealth or real time telemetry etc. The evolution towards M2M/IoT holds the promise of making significant progress in addressing global and societal challenges. It could also help Europe become a smart, sustainable and inclusive economy and thereby ‘enable Europe’s citizens and businesses to get the most out of digital technologies’. By interconnecting and enhancing functionalities of physical objects, Machine to Machine communications has the potential to affect every operational and product delivery process across the full range of economic activity.</p> <p>A detailed understanding of actual and potential usage is necessary to assess the validity of the M2M/IoT forecasts and substantiate the urgency of the regulatory intervention. This session will provide a chance to discuss opportunities offered by the new technologies, the forecasts, market trends, and usage typologies.</p>	10.00-10.45
	Q&A	10.45-11.00
Coffee Break		11.00-11.20
<u>Session B</u>	<p><i>Trends – Should we believe the forecasts?</i></p> <p><u>Speakers:</u></p> <p>Rudolf Van der Berg, Policy Analyst, OECD</p> <p>Mischa Dohler, Chair Professor in Wireless Communications, King's College London</p> <p>Alessandro Bassi, Technical Co-ordinator, IoT-A</p> <p><u>Moderator:</u></p> <p>Vassilis Andronikidis, EETT</p>	11.20-12.05

	<p>Over the past few years, predictions about the prospects of M2M technologies have sometimes been so bullish that they might look tainted by wishful thinking or overemphatic marketing intents. To the sceptic, studies depicting billions or even trillions of connected objects by 2020 or 2040 will tend to invoke past images of flying cars. Has the discourse around M2M and IoT turned into a futurist litany, a science fiction fairy tale dressed up as promising? This session will discuss whether there is an established demand launched by real customer needs or whether the optimistic forecasts rather aim to persuade investors of an upcoming gold rush.</p> <p>The panellists are experts in the analysis of emerging trends on telecommunications markets, who will present their views about the market potential of the different the M2M technologies and applications, their expectations and some pragmatic targets for the development the M2M market in Europe. The session will be an opportunity to confront educated views from different corners of the M2M community, and to get original insights on the sector's dynamics.</p>	
	Q&A	12.05-12.20
Lunch Break		12.20-13.20
<u>Session C</u>	<p><i>What are the obstacles to adoption and what are we doing to address them?</i></p> <p><u>Speakers:</u></p> <p>Gwendal Le Grand, Head of IT experts department, Commission Nationale de l'Informatique et des Libertés</p> <p>Andrea Bodova (tbc), DG CNECT, European Commission</p> <p>Giovanni Miragliotta, Co-Director of the Observatory "Internet of Things", Politecnico di Milano - School of Management</p> <p>Gilles GUIRAL, Business Development Manager, M2M and "On Demand Connectivity", Gemalto</p> <p><u>Moderator:</u></p> <p>Louis-Philippe Carrier, OFCOM</p>	13.20-14.05
	<p>As M2M technologies and applications get closer to maturity, policy makers are confronted with the dilemma of intervention. Europe does not want to miss the opportunity to be at the forefront of an expected M2M revolution, and therefore places high hopes on a rapid adoption by European businesses and consumers. A debate is emerging between those who believe that market forces will spontaneously deliver this and those who think that adoption is being delayed by some fundamental obstacles, including market failures.</p> <p>This session will be an opportunity to discuss what would constitute a favourable environment for the development of M2M, what could improve the current environment and whether it implies public intervention. In particular, the session will cover some key determinants of the demand for M2M services, such as the preoccupations around security and privacy. The M2M markets' dynamics will also be analysed, to identify potential issues around the achievement of a critical mass of M2M solutions, and related issues in relation to concentration and competition. This will also clarify respective roles of various institutions in the public and private sectors.</p>	
	Q&A	14.05-14.20
<u>Session D</u>	<p><i>Are the building blocks available? Spectrum, IP addresses, phone numbers, standards.</i></p> <p><u>Speakers:</u></p> <p>Thierry Lestable, Technology & Innovation Manager, SagemCom and adjunct faculty, Supélec</p> <p>Raymond Forbes, Manager Utilities – Smart Grids, ETSI</p> <p>Oscar Carvalho, CEPT, senior member of the WG NaN</p> <p>Jonathan Cave, Senior Research Fellow and Helen Rebecca Schindler, Senior Analyst, RAND Europe</p> <p><u>Moderator:</u></p> <p>María Boloqui, CNMC</p>	14.20-15.05

	<p>It is often assumed that the expansion of M2M will lead to a significant increase in the consumption of certain scarce public resources. As technical constraints limit the availability for M2M communications of telephone numbers, of radio spectrum, of IPv4 addresses, the industry may find itself hindered by capacity bottlenecks, pushing its costs up. In addition, questions around interoperability and other service guarantees may inhibit the demand for M2M services and devices, until consensual standards emerge to bring more visibility to the industry.</p> <p>The purpose of this session is partly to assess whether the building blocks are ready for a rapid expansion of M2M in Europe. It will help clarify which of the public resources might generate the most difficult challenges and what those challenges might be. The panellists will comment the findings of a recent report on the Internet of Things by RAND Europe for the European Commission, as well as the current state of M2M standardisation, at the European and global levels. This will also nurture reflections on the relative importance of the resource issue, on the existing tools to ensure that the right resources are provided, and on the policies already in place in Europe and beyond.</p>	
	Q&A	15.05-15.20
Coffee Break		15.20-15.40
<u>Session E</u>	<p><i>What sort of public intervention and by whom? How can a BEREC intervention create value for the M2M/IoT businesses and consumers?</i></p> <p><u>Speakers:</u></p> <p>Thibault Kleiner, Advisor to Vice President Kroes, European Commission</p> <p>Francesco Sacco, Managing Director of EntER at Università commerciale Luigi Bocconi, Researcher at Università dell'Insubria, Italian "Digital Agenda" steering committee</p> <p>Omar Elloumi, OneM2M chairman of the architectural group</p> <p><u>Moderator:</u></p> <p>Aldo Milan, AGCOM</p>	15.40-16.25
	<p>It is difficult to assess the evolution and potential regulatory impact of M2M services in Europe or the existing differences between countries: whereas some pursue a proactive policy in areas such as spectrum, numbering or registry, others are still pondering the appropriateness of characterising M2M as an electronic communication service per se.</p> <p>In this context it would be relevant to see whether any regulatory approach to M2M/IoT is required, in the face of possible systemic failures. Such approach might consider regulation, standardisation, self-regulation, etc. as well as the need for monitoring and co-ordination with relevant competent bodies involved in M2M/IoT development.</p> <p>This session will provide an opportunity to simulate the debate on policy instruments, including regulatory and standardisation issues. The topics for discussion should include a range of non-legislative activities such as: procurement, participation in standardisation and governance bodies, international negotiations, financial support (e.g. for infrastructure, research & innovation and economic development), monitoring and data analysis, dissemination or support for self- and co-regulatory initiatives including e.g. certification.</p>	
	Q&A	16.25-16.40
<u>Closing remarks</u>	Follow up. M2M topics in BEREC's Work Programme for 2014.	16.40-17.00