ETSI World Class Standards

About ETSI

M2M is part of *ETSI* – one of the world's leading standards development organizations for Information and Communication Technologies (ICT). Founded initially to serve European needs, *ETSI* has grown rapidly to become highly-respected as a producer of technical standards for worldwide use.

ETSI membership is composed of manufacturers and network operators – all the "big names" and many smaller companies too – plus national administrations, ministries, regulators, universities, research groups, consultancies and user organizations. A powerful and dynamic mix of skills, resources and ambitions, all working together to bring the very best ICT solutions to the global marketplace. Geographically, our membership of over 700 companies and organizations is drawn from more than 60 countries on 5 continents.

ETSI is independent of all other organizations and structures, a key feature for ensuring neutrality and trustworthiness. That brings benefits not only in the acceptance of our standards and other publications, but also in our growing range of ancillary services, such as interoperability testing. And because standardization inevitably draws upon the bright ideas of our members, we have an Intellectual Property Rights (IPR) policy in place that has become the model for many other organizations.

ETSI's standardization activities are open to all interested companies and organizations. Your company can be part of this dynamic organization. For more information about how *you* can be involved, please visit

http://www.etsi.org/membership

For details about *ETSI*'s current M2M activities, please visit

http://portal.etsi.org/m2m

ETSI
650 Route des Lucioles
F-06921 Sophia Antipolis Cedex, France
info@etsi.org
www.etsi.org

ETSI World Class Standards

Machine to Machine Communications

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World Class Standards

Machine to Machine Communications

What do applications such as Personal Health Monitoring, intelligent tracking and tracing in the supply chain, smart utility metering, remote control of vending machines, industrial wireless automation and ambient assisted living all have in common?

They are but a few of the many applications made possible thanks to Machine to Machine Communications.

This fast-growing sector has the potential to connect up to 50 billion machines today, and even more in the near future. The cellular M2M segment in particular is forecast to produce record growth.

While many M2M deployments will make use of short-range or proprietary radio links, mobile cellular-based M2M solutions will be preferred where mobility is required, or where high data volumes or data transfer rates are involved. Cellular -based M2M can also provide easier installation and provisioning, especially for short-term deployments.

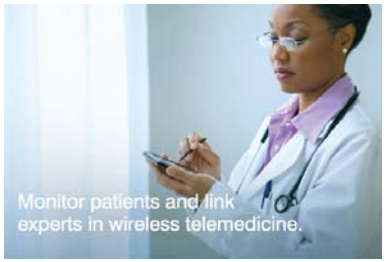
Telecoms networks will need to be optimised to cater for these new 'subscribers', who may have very different behaviour from current customers. Standardization is required in order to deliver cost-effective M2M solutions, and allow this market to take off.

Many component-level standards already exist, addressing various radio interfaces, different meshed or routed networking choices, or offering a choice of identity schemes. Each is optimised for a particular application scenario and there is therefore a degree of fragmentation. Until now, little effort has been made to bring all these pieces together, and identify the standardization gaps which exist. This is a challenge that *ETSI* is now confronting!

M2M in ETSI

ETSI has created a dedicated Technical Committee with the mission to develop standards for Machine to Machine Communications. The group will provide an end-to-end view of Machine to Machine standardization, and will co-operate closely with *ETSI*'s ongoing activities on Next Generation Networks, Radio communications, Fibre optics and Powerline as well as close collaboration with 3GPP standards group on mobile communication technologies.

ETSI's broad representation from the global telecoms and ICT industry enables us to take a 'big picture' view. This committee includes European, American and Asian experts from telecoms network operators, equipment vendors, administrations, research bodies, and of course M2M specialist companies.



ETSI's spirit of collaboration and its extensive network of partnerships facilitates co-operation with other standards bodies and industry fora, re-using their existing work rather than re-creating it. Our extensive experience of interoperability and testing enables us to provide not only the architecture-level standards required, but also the test specifications essential to demonstrate end-to-end interoperability.