CEPT Workshop on
Machine-To-Machine Communications (M2M)

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Workshop on Machine-To-Machine Communications (M2M)

The way to the Workshop

- ECC#39 (March 2015) approved a WI for ECC PT1 to study M2M applications in the range 733-736 MHz / 788-791 MHz.
- In addition, WG FM was tasked to consider the regulatory framework for M2M communications on the basis of available frequency bands.
- WGFM#83 (May 2015) considered a first working document, mainly on spectrum issues, describing the current situation and proposing initial conclusions.

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The way to the Workshop

- ECC#40 (July 2015) discussed and supported the initial WGFM conclusions.
- It was also decided to widen the scope for the ongoing considerations (involvement of WG NaN).
- It was agreed to organise an M2M Workshop to enable a general consultation and an exchange of views (industry, stakeholders, ...).

Current status of discussion

Common key requirements for M2M radio applications:

- Often low power / low duty cycle
- Various radio access components are needed
- Several applications require spectrum below 1 GHz
- Usage of commercial networks
- Requirements on robustness and latency (QoS)
- High density in urban environments
- Costs per device
- Data security

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Current status of discussion

M2M contains (examples):

- ITS (Intelligent Transport Systems)
- RFIDs (Radio Frequency Identification applications), e.g. automatic article identification, asset tracking, alarm systems, access control
- Smart Metering / Smart Grid
- Telematics
- Mobile health and personal monitoring
- IoT (Internet of Things)

Current status of discussion

M2M can be carried over (spectrum designations for):

- SRDs
- RLANs
- Bluetooth
- DECT
- PMR/PAMR
- MFCN
- Fixed links (Point-to-Point, Point-to-Multipoint)
- Satellite based solutions
- (Wired systems)

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Current status of discussion

Frequency bands:

- Individual licences / licence exempt usage
- Minimum level of regulatory intervention
- Sharing possibilities
- M2M applications may cause pressure on existing frequency bands (especially below 1 GHz)
- Bandwidth (M2M data rates vs. general IP traffic)

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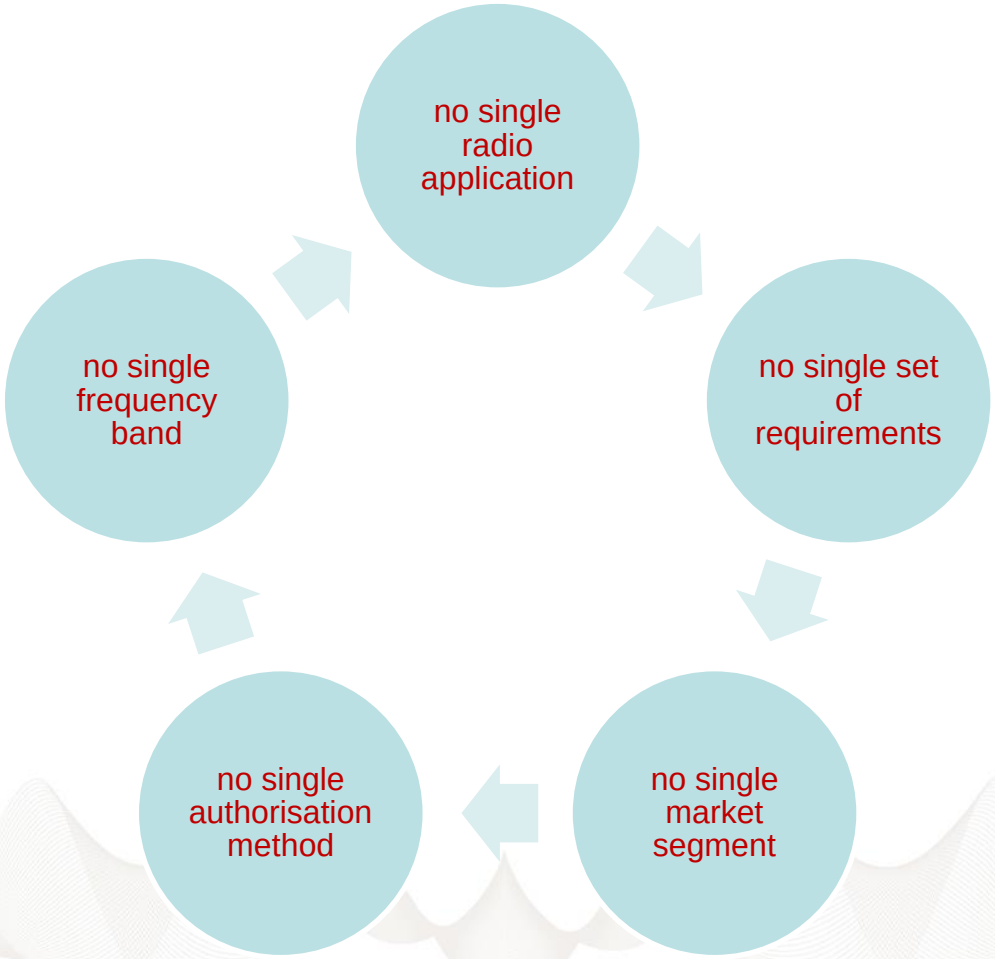

Welcome to the M2M Workshop