PCC.I/RES. 202 (XX-12) [1]

CREATION OF TECHNICAL NOTEBOOK "NUMBERING AND ADDRESSING IN MACHINE-TO MACHINE (M2M) COMMUNICATION"

The XX Meeting of the Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

CONSIDERING:

a)   That Machine-to-Machine (M2M) generally refers to technologies that allow both wireless and wired systems to communicate with other devices without any direct human intervention;

b)   That there is a significant increase in the development of new services that make use of Machine-to-Machine (M2M) communication;

c)   That there is a clear tendency to use mobile networks to provide M2M services;

d)   That almost all of M2M service providers are deploying business models based on mobile communications numbering resources (ITU-T E.164);

e)   That M2M applications probably will have an impact on numbering plans, as machines need to be addressed to enable them to communicate with each other;

f)   That the Working Plan of the Working Group on Deployment of Technologies and Services for the period 2010-2014, on the Rapporteurship on Telecommunications Numbering and Addressing establishes:

- To identify and evaluate technical issues related to Numbering Plans for the network evolution and new services;
- To develop studies on the impact of new services on convergent networks;
- To study topics related to services, numbering systems and addressing;
- To elaborate best practices guidelines of Numbering Plans.

TAKING INTO ACCOUNT:

a)   That our region needs to study issues related to M2M Numbering Plan;

b)   That this theme is included on the Working Plan of the Rapporteurship on Telecommunications Numbering and Addressing,

RESOLVES:

1.   To approve the creation of the Technical Notebook "Numbering and Addressing in Machine-to Machine (M2M) Communication".

2.   To request the Member States and associate members to collaborate with the Rapporteurship on Telecommunications Numbering and Addressing to work on this Technical Notebook.

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[1] CCP.I-TIC/doc. 2522/12 rev.1

3.   To designate Mr. Tiago Sousa Prado (tiago.prado@anatel.gov.br) as the Technical Notebook Coordinator.

ANNEX TO RESOLUTION PCC.I/RES. 202 (XX-12)

TECHNICAL NOTEBOOK

NUMBERING AND ADDRESSING IN MACHINE-TO-MACHINE (M2M) COMMUNICATION

1. INTRODUCTION

1.1   Definition

Machine-to-Machine (M2M) generally refers to technologies that allow both wireless and wired systems to communicate with other devices without any direct human intervention. This type of communication is useful for medical applications, navigation systems, food stocking management, mobile payment and many other applications.

1.2   Motivation

There is a clear tendency to use mobile networks to provide M2M services. Besides, almost all of M2M service providers are deploying business models based on mobile communications numbering resources (ITU-T E.164).

Thus, as M2M communications are increasing quickly, is really important to study issues related to numbering and addressing in M2M Communication, since it will help CITEL members developing efficient numbering solutions and also avoiding possible numbering exhaustions.

Also, this initiative is totally aligned with the WGDTS (Working Group on Deployment of Technologies and Services) working plan to the period from 2010-2014. This working plan establishes, for instance, actions like:

- To identify and evaluate technical issues related to Numbering Plans for the network evolution and new services;
- To develop studies on the impact of new services on convergent networks;
- To study topics related to services, numbering systems and addressing;
- To elaborate best practices guidelines of Numbering Plans.

2. ISSUES TO BE ADDRESSED

3. WORLD EXPERIENCES AND PRACTICAL CASES

4. POSSIBLE NUMBERING SOLUTIONS TO M2M COMMUNICATION

5. CONCLUSIONS AND RECOMMENDATIONS

6. DOCUMENTS AND REFERENCES