INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION STANDARDIZATION SECTOR

STUDY PERIOD 2009-2012

STUDY GROUP 2

TD 153 (WP 1/2)-E

English only

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TEMPORARY DOCUMENT

Source: Convener, ad hoc on E.212 MNC assignment criteria

Title: Outputs of the ad hoc on "E.212 MNC assignment criteria"

During the discussion on the consequences for number resources E.164 and E.212 related to new usages of E.212 MNCs, new use cases were identified. These new applications include M2M (that use mobile networks based on E.212) and femtocells.

The following points were identified during the ad hoc as having an impact on the issue of the assigning MNCs to these service providers. The ad hoc used WP1 TD 140 produced at the last meeting, as the basis. A call for contributions upon these items should be made for the next meeting.

As a work plan for future work within Q1, the following points need to be addressed:

1. New application requirements

- The requirements for these applications for using E.212 resources, for example:
  - The options and scenarios that may exist to meet the generic requirement of making it possible for an M2M service provider to switch from one network operator to another.
  - The need to use these resources for roaming or interconnect
  - Potential existing alternatives to using E.212 MNCs and related pros and cons (eg security issues, potential overlaps with other technologies, private subspace etc.)
  - List and describe some use cases for the most relevant requirements and possible identify market trends

2. Overall estimation of the demand for MNCs

- The potential number of applicants for both M2M service providers or femtocell vendors/customers, which would not normally qualify for MNC assignment

3. Overall impact for the E.212 identification plan

- An overall evaluation of available space under assigned MCCs and the risks associated with the fact that E.212 is a limited resource
- Scenarios for ensuring sufficient MNC resources for all potential applicants

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        - And in particular an update on current status of MNC assignments in countries where such applicants are identified
    - The potential impact of roaming agreements if such a massive growth of the number of MNCs was to happen
    - Potential impacts for countries
        - The scenarios available for countries that would “run out” of MNCs considering the E.212 space is limited.
        - the impact of migrating from 2 to 3 digit MNCs and the existing analysis on this topic
    - The need for these MNC assignments to be “reliable” (and how this information is consolidated)

4. Potential impacts for the Recommendations and plans

- impacts on E.212 and its annexes if any, including scenarios for upgrading the capacity of E.212 and creating the possibility to use a limited set of MNCs for shared use .
- Need for creating a “private subspace” in the E.212 identification plan
    - Eg put aside MNC 901 99 or MCC 90x for private use for applications that need not interconnect with public networks
    - Or at a national level dedicate a specific MNC (eg 99) for “private use”
- Guidelines or criteria or for assignments these (limited) resources, including possible link with regulatory regimes
- Need for developing a supplement or an annexes to E.212 to provide these guidelines

5. Liaising with other bodies/forums on potential alternatives and M2M identification for these new usages

- Identify if any available guidelines for Machine Type Communications

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