

Progress Report on implementation of the MoU regarding Harmonisation of a Charging Capability for Mobile Phones

TCAM33, June 22, Brussels

 on behalf of MoU Signatories

MoU Basics

- MoU Published June 29, 2009
- http://ec.europa.eu/enterprise/sectors/rtte/chargers/index_en.htm
- Mobile Manufacturers Signatories:
 - Apple, TCT Mobile (Alcatel), Huawei Technologies, LGE, Motorola Mobility (Motorola), NEC, Nokia, RIM, Samsung, Sony Ericsson, Emblaze Mobile (Else Mobile),
- Technology Provider Signatories:
 - Atmel, Qualcomm, Texas Instruments

MoU Introduction Schedule

- 5. Introduction Schedule
 - 5.1 Definition of the set of technical specifications covering charging interoperability with a Micro-USB interface to be met 6 month after signing this MoU.
 - 5.2 The Signatories will work with appropriate SDOs as may be mandated by the European Commission to work on regulatory standards aspects from the date of that mandate.
 - 5.3 The Signatories will progressively introduce the new standards in new Mobile Phones & Micro-USB EPSs appearing on the market after 01/01/2010 dependent on the related standards being available in time to permit any required design and testing changes.
 - 5.4 All new Mobile Phone models and new EPS models on the market produced by the Signatories shall offer this common charging capability one year after the related standards have become available

MoU Time Line

Negotiation
& Signing

SDO
Mandate

Tech.
Annex

EMC: EN 301 489-34

ETSI Standard

IOT: EN/IEC 62 684

CENELEC
Standard

Initial products launched

100% Data Enabled Devices

2009

2010

2011

2012



MoU Standards

- Standards mandate M/455 Oct 1, 2009
 - Acceptance by SDOs in Nov 2009
 - Technical Annex completed Jan 12, 2010
- ETSI EMC Standard: EN301489-34 V1.1.1
 - OJEU publication as R&TTED harmonised standard Dec 29, 2010
 - OJEU publication as EMCD harmonised standard Feb 24, 2011
 - ETSI V1.2.1 in draft to align with latest version of EN301489-1
- CENELEC Interoperability Standard: EN62684:2010
 - Date of Availability Dec 12, 2010
 - Adopted by IEC as IEC62684:2011 with publication date Jan 27, 2011
 - ITU-T L1000 update refers to IEC62684

EMC Compliance Assessment

- Prior to the MoU and new standards:
 - External Power Supply (used as Charger/Power Adaptor for mobile phones)
 - R&TTED using EN301489-1 and a combination of -7, -17, -24 (and/or other applicable standards in this series)
 - EMCD using EN55022 & EN55024
 - Mobile Phone
 - R&TTED using EN301489-1 and a combination of -7, -17, -24
- What will the MoU and new standards change
 - Product which do not comply with the MoU
 - As prior to the MoU
 - External Power Supply intended to comply with the MoU
 - R&TTED or EMCD using EN301489-1 and -34
 - Note: EN301489-34 refers to EN62684
 - Mobile Phone intended to comply with the MoU
 - R&TTED using EN301489-1 and a combination of -7, -17, -24 (and/or other applicable standards in this series)... same as for non-MoU phone
 - (Note: an MoU compliant phone must be interoperable with an EPS meeting EN62684)
- Note: Meeting the MoU requirements is a voluntary commitment

Implementation Status

- MoU Signatories, charger manufacturers & testing facilities has identified issues with Common Mode Noise performance of the external power supply during development and testing
 - CMN is not simple to test
 - Interpretation of CMN test limits
- No issues reported on the mobile phone side
 - Majority of 2011 products are compliant
 - No interoperability issues reported
- Confusion amongst notified bodies on MoU standards
 - Application of EN301489-34 to external power supplies not intended to meet the MoU

Next Steps

- MoU Signatories are working with charger manufacturers & testing facilities to resolve the CMN issues
 - Outcome to be made available as on the onechargerforall.eu website
 - Expects to meet the one year transition
- Application of standards needs to be clarified
 - MoU Signatories would like to work with the DG ENTR, R&TTE CA and ETSI until V1.2.1 becomes harmonised
 - ETSI standard issued prior to CENELEC standard
 - Both standards could be clearer on scope
 - Guidance document on onechargerforall.eu
- 2nd Progress report for TCAM34

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