**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **SG ULP meeting minutes July-2012** | |
| Date Submitted | 18 July 2012 | |
| Source | [Kiran Bynam] [Samsung.] | E-mail:[kiran.bynam@samsung.com] |
| Re: | Ultra Low Power amendment to IEEE 802.15.4 | |
| Abstract | SG ULP Meeting minutes | |
| Purpose | Meeting minutes | |
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# Study Group ULP Meeting July 17 2012

**PM1 session**

Chair called meeting to order at 1:30 pm

Shahriar presented the draft PAR document to the group

Chair asked the group to approve meeting minutes of atlanta meeting held in May 2012

Steve (Semtech) moved the group to approve the motion

Allan (Samsung) seconded it.

Motion passed anonymously

Kiran Bynam (Samsung) presented the contribution for “Technical requirements of ULP sensor network applications” with DCN number: “**15-12-0381-00-004q**”

Eldad : why we cannot go to minimum data rate such as 10 kbps.

Kiran Bynam : we cannot go due to minimum bandwidth requirements

Aunj: Whats the Power level you are looking at

Kiran Bynam : 5 mW of receiver power and transmitter

Peter Baldwin : Data rate quoted for medical applications looks too high.

steve : smart gas appplications are yesterday applications, and can be removed from overall application requirements of ULP SG

Dr.Kyung Li presented contribution on “Techncial considerations of the ultra low Power wireless networks” with DCN Number: **15-12-0389-00-004q**

steve appreciated first 3 slides of presentation

Kiran Bynam : applications for ranging typically requir more power. What do you think about that ?

Kiran Bynam: which band you target

Dr.Kyung Li : Not yet decided on technology

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Kiran Bynam: coin cell batteries will work with some peak current limitation

Dr.Kyung Li : I would like this group to be addressing low energy rather than Low Power

**PM2 Session**

Shahriar prseneted the contribution (DCN- **15-12-0393-02-004q**)

Peter : Pulse current issue needs to be considered as they come with peak current of 15-20 mA

Mike (Boeing) : can this battery coexist with the energy harvesting

shahriar : we don’t see any issues

Allan: rechargeable coin cell battery is Possible

Mike: I dont know anything of that sort

Dr.Hiroshi Harada presented the contribution on applications( DCN - **15-12-0393-02-004q**)

Peter: Data rates are too high for the applications

Shahriar : what is your most useful application for NICT

Hiroshi : Home automation is the one we are looking at currently. All other applications presented are also important

# Study Group ULP Meeting July 18 2012

**PM1 session**

Allan presented the contribution (DCN: **15-12-0384-01-004q**)

Chair edited 5 criterion document and uploaded into the mentor server with DCN Number- **15-12-0387-01-004q**

**PM2 session**

Chair edited the PAR document and uploaded to mentor server with DCN number : **15-12-0386-01-004q**

Peter : why don’t we include all bands including 400, 700 , 900 MHz along with 2400 MHz ?

Chair added all frequency bands in paranthesis. He will recheck excat spectrum bands and will add them to PAR

Peter : Data rates restriction of 1 Mbps is too much . it is not required for some applications. Can we reword it as “Data rates not more than 1 Mbps”. This modification is taken into PAR document.

Steve : Battery power constraints can be more relaxed.

Chair adjourn the meeting