**Minutes of conference call**

**for SID Wireless Sensing offline discussion**

**Time：Nov.30, 2021**

**Attendees：**

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| Dong CHEN |
| Nicole Wang |
| Deh-Min Richard Wu (Guest)来宾) |
| 中国电信 |
| Sherry Shen |
| HUI (来宾) |
| Ning JIN-China Telecom |
| Hang YU (Hank) |
| Hang YU (Hank) |
| Hang YU (Hank) |
| Anant Agrawal (Bell Canada) (Guest) |
| ZTE XuLing |
| 程思涵 |
| Nicole Wang |
| Norp, A.H.J. (Toon) |
| China Telecom - Yuying Zhang |
| PHAN Ly-Thanh |
| Chi REN (CU) |
| Dean Prochaska |
| [Canon] Yacine El Kolli (Guest) |
| XIAXU-CTC |
| Pengtai Qin (CMCC) |
| Daniel Lönnblad |
| Wangwei |
| Koulakiotis, Dimitris |
| Terufumi Takada (髙田 輝文) |
| Robert Edwards |
| CAMACHO, CRISTINA, Vodafone |
| Seyedomid Taghizadeh Motlagh |
| Chi REN (CU) |
| Huawei-Chuting Yao |
| Peter Bleckert |
| Christofer Lindheimer |
| Shuang (Huawei) (Guest) |
| LAH |
| 电信-李洋 |
| Ravi Kuchibhotla |
| Yue （CMCC） |
| 康艳超 |
| Lola Awoniyi-Oteri |
| Amanda Xiang |
| Mona Mustapha (Apple) (Guest) |
| Tim Woodward (Guest) |
| Vasil (Gast) |
| China Telecom-Mengzhen Jian |
| Xiaonan Shi-CMCC |
| Nanavaty, Niraj (Nokia - IN/Bangalore) |
| Li, Haojin |
| Alice Li (Huawei) (Guest) |
| Covell, Betsy (Nokia - US/Naperville) |
| Karthikeyan Ganesan |
| China Telecom-Mengzhen Jian |
| Xiaobo Wu |
| Huawei-Jiafeng Shao |
| Vivian Chong |
| Wanqiang |
| zhang yunhao -HW |
| Jianning LIU |
| Gonzalez Gonzalez, David (uia63265) |
| Dees, Walter |
| Fangyuan Zhu-Huawei |
| Huawei - Eddy Hall (Guest) |
| Garcia Morchon O, Oscar |
| Ki-Dong Lee (Guest) |
| Loidl, Karin |
| Loidl, Karin |
| DISH - Jinsook (Guest) |
| Qun Wei |
| Elena Neira |
| ZTE XuLing |
| [china telecom] Yang Li |
| Manuel Rebellon [Sandvine] (Guest) |
| Fenqin, Zhu(Huawei) |
| Onur Sahin |
| ANKIT BHAMRI |
| Shi Cong |
| China Telecom-Mengzhen Jian |
| Liao, Ellen C |
| Jaffar, Munira |
| yjw |
| CMCC-Hu Yue |
| Francesco Pica |
| Satyanarayana Katla |

**1, Brief introduction from CMCC and Xiaomi/Qualcomm**

**Questions & clarification/comments on CMCC slides:**

Sony: Slides 10, Mode 1-6, covers nothing left.

CMCC clarified, modes 1-6 can cover both NW and UE based sensing

Vivo: mode 5/6 doesn’t belong to 3GPP, especially with unlicensed band.

CMCC: agrees to further discuss.

DT: Enhancement on NR needed? New access type?

CMCC: Minimize impact to current system.

LG: V2X forum etc. evolvement?

CMCC: 5GS could provide better performance.

Qualcomm: Why scope of UE based sensing is limited to unlicensed band?

CMCC: Open for this.

Lenovo: Slide 11, concept on active sensing/passive sensing is confusing, What capability can be done by RAN?

CMCC: Up to modification and discussion.

**Questions & clarification/comments on Xiaomi slides:**

KPN: Same signal used, or same frequency with different signal? Why integrated, why not to split Sensing, and Communication separately. different band for Sensing, and communication.

Xiaomi: 5GS with sensing could provide better performance such as interference mitigation.

CU: Traditional radio technology is used in V2X use case. What is the value? Need details/parameter to explain, what kind of things we really need, real case, feasible case.

QC: Wireless sensing, 3GPP coordinate other type of sensing data

CU, A slide is needed, to provide, details or more?

QC: Sharing them offline,

**Questions & clarification on Qualcomm slides:**

CMCC: agree most part, hope have further discussion with QC offline

Lenovo: 3GPP scope, overhead to communication?

Xiaomi&QC: Limited to 3GPP scope which have impact to 3GPP. Up to further study for second question.

Huawei: Support RAN based sensing, but open for UE based on sensing

**2, Way forward discussion**

CMCC: propose to split to 2 SIDs（NW based and UE based）

Sony: too many ways to divide, interesting to investigate, only 1 SID more reasonable.

KPN; agree with Sony. 1 SID

Lenovo: 1 SID

LG: 1 SID, not supporting 2-split.

HW: 1 SID is better way to go. Xiaomi and CMCC are actually the same. More time to discuss on separate SIDs.

Vivo: no strong view. Find out the 3GPP scope.

DT: 1 SID, to combine proposals. Spectrum is also important.

Continental Automotive: Identify requirements first.

ZTE: 1 SID is better way.

QC: 1 SID, OK to refine scope.

CATT: prefer 2 SIDs

CUC: 1 SID with 2 rapporteurs

CT: 1 SID, rapporteur(s) up to discussion.

Xiaomi: 1 SID

InterDigital: 1 SID, rapporteur up to further discussion

**Majority preference is 1 SID. Discussion to be focused on the scope.**

**3, Conclusion on way forward**

**Offline discuss to unify scope before next SA1 meeting.**

**Within 1 month, arrange a conference call to discussion the scope, leave ‘rapporteurs’ open.**