IEEE P802.11
Wireless LANs

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| TGaz telecon minutes July-September 2020 |
| Date: 2020-01-29 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

This document contains telecon minutes from TGaz Telecons between the cancelled May 2020 Interim and the (cancelled) July 2020 Plenary

1. **TGaz – 22th July 2020**
	1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:02am PDT,**
	2. Agenda Doc. **IEEE 802.11-20/01002r3 (in progress - slide 31)**
	3. Review Patent Policy and logistics
		1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
		2. Chair called for any potentially essential patents, no one stepped forward.
		3. Chair reviewed IEEE copyright policy, code of ethics, WG participation as an individual professional and anti-trust requirements – no clarification requested.
		4. Recorded Participation requirement
			1. Headcount: ~15 present
	4. Review Agenda
		1. Agenda review and setting: reviewed submission list for the meeting
			1. 11-20-0963 cid-3880-kdk-hltk (Nehru Bhandaru)
			2. 11-20-1097 Secure LTF using DFT precoded OFDM (Christian Berger)
			3. 11-20-1106 RSNXE for PASN (Nehru Bhandaru)
	5. Nehru Bhandaru presented 11-20-0963
		1. Change from previous version is presented
		2. No discussion on the change
		3. Strawpoll: We agree to the resolutios of CID 3880 as depcted in document 11-20-963r2
		4. Results (Unanimous Consent)
	6. Christian Berger presented 11-20-1097
		1. Title Secure LTF using DFT precoded OFDM
		2. Q: Is there an issue with spectral mask
		3. R: Whatever comes out of the IDFT has the same spectrum as the usuall OFDM transmission
		4. Q: Have you tried to plot the spectrum
		5. R: I can do that
		6. Q: Are you planning a time domain or a frequency domain “equalization”
		7. R: We plan to do it in the frequency domain, with zeroing of the guard bands.
		8. Q: what is the correlation in slide 11
		9. R: only half the symbol has been decoded to show wht can be predited from it.
		10. Q: We still need to evaluate how much we gain give the required complexing
		11. Q: Have you tried this in fixed point? The IDFT and DFT will cause quantization issues
		12. R: 4k-QAM also requires an FFT with very low quantization noise.
	7. Nehru Bhandaru presented 11-20-1106
		1. RSNXE in PASN
		2. Expect strapoll in the next poll
	8. Chair discussed Submission pipeline and the (poor) status of comment resolution
	9. Chair adjourned at 11:28
	10. Attendance:

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| --- | --- | --- | --- |
| TGaz | 7/22 | Batra, Anuj | Apple, Inc. |
| TGaz | 7/22 | Berger, Christian | NXP Semiconductors |
| TGaz | 7/22 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 7/22 | Das, Dibakar | Intel Corporation |
| TGaz | 7/22 | Grandhe, Niranjan | NXP Semiconductors |
| TGaz | 7/22 | jiang, feng | Apple, Inc. |
| TGaz | 7/22 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 7/22 | Lee, Wookbong | SAMSUNG |
| TGaz | 7/22 | Li, Qinghua | Intel Corporation |
| TGaz | 7/22 | Lindskog, Erik | SAMSUNG |
| TGaz | 7/22 | NANDAGOPALAN, SAI SHANKAR | Cypress Semiconductor Corporation |
| TGaz | 7/22 | Pare, Thomas | MediaTek Inc. |
| TGaz | 7/22 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 7/22 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 7/22 | Segev, Jonathan | Intel Corporation |
| TGaz | 7/22 | Shellhammer, Stephen | Qualcomm Incorporated |
| TGaz | 7/22 | Stanley, Dorothy | Hewlett Packard Enterprise |
| TGaz | 7/22 | Tian, Bin | Qualcomm Incorporated |
| TGaz | 7/22 | Uln, Kiran | Cypress Semiconductor Corporation |
| TGaz | 7/22 | Venkatesan, Ganesh | Intel Corporation |
| TGaz | 7/22 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 7/22 | Wang, Qi | Apple, Inc. |
| TGaz | 7/22 | Wang, Yi-Hsiu | Zeku |
| TGaz | 7/22 | Want, Roy | Google |
| TGaz | 7/22 | Wu, Tianyu | Apple, Inc. |
| TGaz | 7/22 | Yee, Peter | NSA-CSD |

1. **TGaz – 29th July 2020**
	1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:02am PDT,**
	2. Agenda Doc. **IEEE 802.11-20/1002r4 (in progress - slide 37)**
	3. Review Patent Policy and logistics
		1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
		2. Chair called for any potentially essential patents, no one stepped forward.
		3. Chair reviewed IEEE copyright policy, code of ethics, WG participation as an individual professional and anti-trust requirements – no clarification requested.
		4. Recorded Participation requirement
			1. Headcount: ~15 present
	4. Agenda
		1. 11-20-1106 RSNXE for PASN (Nehru Bhandaru) – for SP (15min)
		2. 11-20-1097 Secure LTF using DFT Precoded OFDM (Christian Berger) – follow up (40min)
		3. 11-20-1143 LB249-2-editorial-CIDS (Assaf Kasher) – as time permits
	5. Nehru Bhandaru presented11-20-1106r0
		1. Strawpoll We garee to the amendment text changes depicted in document 11-20-1106r0
		2. Results (16/0/3)
	6. Christian Berger Presnted 11-20-1097
		1. Present the spectrum slides
		2. Presented the cross-correlcation in for DFT precoded LTF
		3. Q: in slide 9, for the example in slide 10 the DFT size is 128, and the IDFT is 128, to upsample you use signalling.
		4. R: it’s the same sampling used for the OFDM transmitter
		5. Q: How do we do the channel estimation
		6. R: in the RX you need to generate the same waveform in the frequency.
	7. Assaf Kasher Presented 11-20-1143
		1. CID 3510 – no objection
		2. CID 3361:
		elevation has special value to indicate the measurement is not valid (did not executed) While azimuth is always measured, elevation may not be valid because the antenna is a single dimension it is possible to keep the units for both by for example to have a value for AOA there is no azimuth measurement and a value of azimuth not supported.
		not necessarily beneficial.
	8. AOB ?
	9. Attendance:

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| --- | --- | --- | --- |
| TGaz | 7/29 | Batra, Anuj | Apple, Inc. |
| TGaz | 7/29 | Berger, Christian | NXP Semiconductors |
| TGaz | 7/29 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 7/29 | Chu, Liwen | NXP Semiconductors |
| TGaz | 7/29 | Grandhe, Niranjan | NXP Semiconductors |
| TGaz | 7/29 | Henry, Jerome | Cisco Systems, Inc. |
| TGaz | 7/29 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 7/29 | Li, Qinghua | Intel Corporation |
| TGaz | 7/29 | Lindskog, Erik | SAMSUNG |
| TGaz | 7/29 | Rai, Kapil | Qualcomm Incorporated |
| TGaz | 7/29 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 7/29 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 7/29 | Segev, Jonathan | Intel Corporation |
| TGaz | 7/29 | Smith, Luther | Cable Television Laboratories Inc. (CableLabs) |
| TGaz | 7/29 | Tian, Bin | Qualcomm Incorporated |
| TGaz | 7/29 | Venkatesan, Ganesh | Intel Corporation |
| TGaz | 7/29 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 7/29 | Wang, Qi | Apple, Inc. |
| TGaz | 7/29 | Wang, Yi-Hsiu | Zeku |
| TGaz | 7/29 | Want, Roy | Google |
| TGaz | 7/29 | Wu, Tianyu | Apple, Inc. |
| TGaz | 7/29 | Yee, Peter | NSA-CSD |
| TGaz | 7/29 | Zeng, Ruochen | NXP Semiconductors |

* 1.
1. **TGaz – August 5th 2020**
	1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:02am PDT,**
	2. Agenda Doc. **IEEE 802.11-20/1002r7 (in progress - slide 49)**
	3. Review Patent Policy and logistics
		1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
		2. Chair called for any potentially essential patents, no one stepped forward.
		3. Chair reminded participants to register their attendance using imat.
		4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
		5. Chair reviewed IEEE copyright policy, code of ethics, anti-trust requirements and WG participation as an individual professional – no clarification requested.
		6. Chair reviewed IEEE 802 ground rules
		7. Recorded Participation requirement
			1. Headcount: ~19 present
	4. Agenda
		1. Review LB249 progress assignment and timelines
		2. 11-20-1143 LB249-2-editorial-CIDS (Assaf Kasher) – 10
		3. 11-20-0889r4 (Nehru Bhandaru)
	5. Roy Want presented 11-20-1185
		1. Editor reviewed the number of comments resolved – 253 comments remain
		2. A lot of work in January, May and June, Less progresss in July (Secure LTF discussion)
		3. Q: can we generate a report of which CIDS are assigned to which volunteer, to help volunteers know which comment they should work on.
		4. R: it is difficult to work on the data base, will try to do that.
	6. Roy Want presented 11-20-0017r4
		1. Requests from Erik Lindskog to assign some CIDs to him.
		2. Assaf express interest in resolving comments related to DMG
	7. Nehru Bhandaru (Broadcom) presented document **11-20/889r4**
		1. **Title**: Protected LMR/FTM Replay Counter
		2. **Summary**: [For r4 revision] Clarification on **11-20/889r3** that was already motioned.
			1. C. Do we have a definition of Secure FTM session?
			2. R. Proposed change to "Protected frame" tidied up for (**r5**)
			3. C. "Protected frame" is defined, but do we need an equivalent unprotected frame definition?
			4. R. Don't think this is necessary at this time.
			5. C. There is a CID being worked on that would define the "Secure FTM session"
			6. R.  Agreed - we could use that definition when available.
			7. C. The new text is stated in the negative, it would be clearer to state it in the positive.
			8. R. Edits proposed (**r5**).
			9. C. Last sentence of this paragraph could be confusing.
			10. R. Removing last clause.The document edits in this session will be uploaded as revision 5, but will be brought back as a new document for a motion.
	8. Closing Issues
		1. Reviewed submission pipeline - one presentation in the queue **11-20/1020**
		2. No telecon next week (by popular request / vacations)
		3. Future telecoms (1pm ET): **8/19, 8/26, 9/2, 9/9**
		4. Plenary (motion) monthly meetings (10 am ET) : **8/27 and 9/24**
		5. AOB - None
	9. Attendance:

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| --- | --- | --- | --- |
| TGaz | 8/5 | Berger, Christian | NXP Semiconductors |
| TGaz | 8/5 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 8/5 | Das, Dibakar | Intel Corporation |
| TGaz | 8/5 | Grandhe, Niranjan | NXP Semiconductors |
| TGaz | 8/5 | Henry, Jerome | Cisco Systems, Inc. |
| TGaz | 8/5 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 8/5 | Li, Qinghua | Intel Corporation |
| TGaz | 8/5 | Lindskog, Erik | SAMSUNG |
| TGaz | 8/5 | NANDAGOPALAN, SAI SHANKAR | Cypress Semiconductor Corporation |
| TGaz | 8/5 | Rai, Kapil | Qualcomm Incorporated |
| TGaz | 8/5 | Segev, Jonathan | Intel Corporation |
| TGaz | 8/5 | Venkatesan, Ganesh | Intel Corporation |
| TGaz | 8/5 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 8/5 | Wang, Qi | Apple, Inc. |
| TGaz | 8/5 | Wang, Yi-Hsiu | Zeku |
| TGaz | 8/5 | Want, Roy | Google |
| TGaz | 8/5 | Zeng, Ruochen | NXP Semiconductors |

1. **TGaz – August 26th 2020**
	1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:02am PDT,**
	2. Agenda Doc. **IEEE 802.11-20/1002r13 (in progress - slide 63)**
	3. Review Patent Policy and logistics
		1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
		2. Chair called for any potentially essential patents, no one stepped forward.
		3. Chair reminded participants to register their attendance using imat.
		4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
		5. Chair reviewed IEEE copyright policy, – no clarification requested
		6. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
		7. Chair reviewed IEEE 802 ground rules
		8. Recorded Participation requirement
		Headcount: ~17 present
	4. Agenda setting:
		1. 11-20-1257 LB249 CR for various comments (Jonathan Segev) – 1hr
		2. LB249-2 -editorial CIDs (assaf Kasher) as time permits (15min)
		3. 11-20-1196 LB 249 CID Resoluions for CDs 3281 and 3397 (Jonathan Segev)
	5. Review of CID resolution status – Roy Want
		1. 11 technical comments unassigned yet.
	6. Jonathan Segev presented 11-20-1257r0
		1. CID 3758: reject
		2. CID 3829: marked as more work needed.
		3. CID 3844: Revised
		4. CID 3854: Accept
		5. CID 3855: Reject
		6. CID 3860: Reject
		7. CID 3862: Reject
		8. CID 3863: Reject
		9. CID 3867: Reject
		10. CID 3878: - maked as more work needed
		11. Strawpoll: We agree to the resolution of CIDs 3758, 3844, 3854, 3855, 3860, 3862, 3863 and 3867 as depicted in document 11-20 1257
		12. Results: 13/0/1 (Y/N//A)
	7. Subission pipeline reviewed (slide 66)
	8. Telecon schedule reviewed
	9. AOB
	10. Adjourned at 11:32 PDT
	11. Attendance:

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| TGaz | 8/26 | Aldana, Carlos | Intel Corporation |
| TGaz | 8/26 | Berger, Christian | NXP Semiconductors |
| TGaz | 8/26 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 8/26 | Grandhe, Niranjan | NXP Semiconductors |
| TGaz | 8/26 | Henry, Jerome | Cisco Systems, Inc. |
| TGaz | 8/26 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 8/26 | Lindskog, Erik | SAMSUNG |
| TGaz | 8/26 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 8/26 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 8/26 | Segev, Jonathan | Intel Corporation |
| TGaz | 8/26 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 8/26 | Wang, Qi | Apple, Inc. |
| TGaz | 8/26 | Wang, Yi-Hsiu | Zeku |
| TGaz | 8/26 | Wu, Tianyu | Apple, Inc. |
| TGaz | 8/26 | Yee, Peter | NSA-CSD |
| TGaz | 8/26 | Zeng, Ruochen | NXP Semiconductors |

1. **TGaz – September 2nd 2020**
	1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:02am PDT,**
	2. Agenda Doc. **IEEE 802.11-20/1002r13 (in progress - slide 78)**
	3. Review Patent Policy and logistics
		1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
		2. Chair called for any potentially essential patents, no one stepped forward.
		3. Chair reminded participants to register their attendance using imat.
		4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
		5. Chair reviewed IEEE copyright policy, code of ethics, anti-trust requirements and WG participation as an individual professional – no clarification requested.
		6. Chair reviewed IEEE 802 ground rules
		7. Recorded Participation requirement
		Headcount: ~12 present
	4. Agenda Setting:
		1. 11-20-1219 commente resolution L249 various (Christian Berger) – 1h
		2. 1-20-1245 Tx Power Control for Non-TB Ranging (Christian Berger) – 45min
	5. Christian Berger presented 11-20-1219
		1. CID 3008: Reject
		2. CID 3884: Reject
		3. CID 3895: Revise
		4. CID 3011: Reject
		5. CID 3019: Reject
		6. CID 3020: Needs more review – what is the reference location
		7. CID 3105: Revised – already addressed
		8. CID 3242 Revise
		9. CID 3671 – needs more time
	6. Review of submission pipeline (slide 81)
	7. Review of Scheduled Teleconds
	8. AOB
	9. Adjourned at 11:30PDT
	10. Attendance

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| TGaz  | 9/3  | Aldana, Carlos  | Facebook  |
| TGaz  | 9/3  | Berger, Christian  | NXP Semiconductors  |
| TGaz  | 9/3  | Henry, Jerome  | Cisco Systems, Inc.  |
| TGaz  | 9/3  | Kasher, Assaf  | Qualcomm Incorporated  |
| TGaz  | 9/3  | Li, Qinghua  | Intel Corporation  |
| TGaz  | 9/3  | Lindskog, Erik  | SAMSUNG  |
| TGaz  | 9/3  | Yee, Peter  | NSA-CSD  |
| TGaz  | 9/3  | Zeng, Ruochen  | NXP Semiconductors  |
| TGaz | 9/3 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 9/3 | Segev, Jonathan | Intel Corporation |
| TGaz | 9/3 | Dibakar Das | Intel Corporation |

1. **TGaz – September 9nd 2020**
	1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:02am PDT,**
	2. Agenda Doc. **IEEE 802.11-20/1002r20 (in progress - slide 49)**
	3. Review Patent Policy and logistics
		1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
		2. Chair called for any potentially essential patents, no one stepped forward.
		3. Chair reminded participants to register their attendance using imat.
		4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
		5. Chair reviewed IEEE copyright policy, code of ethics, anti-trust requirements and WG participation as an individual professional – no clarification requested.
		6. Chair reviewed IEEE 802 ground rules
		7. Recorded Participation requirement
		Headcount: ~12 present
	4. Agenda Setting:
		1. 11-20-1245 Tx Power control for Non-TB Ranging (Christian Berger) – 35min
		2. 11-20-1225 LB249 CRS nb 0820 (Nehru Bhandaru) – 30min
		3. 11-20-1020 Some LB 249 passive TB Ranging CR (Erik Lindskog) – as time permints
	5. Roy Want present 11-20-1410
		1. Title: lb249-resoution-editorial-batch-of-80
		2. Considered ready for motion
	6. Christian Berger presented 11-20-1245
		1. Title: Tx Power Control for Non-TB Ranging
		2. CID 3883: Revise
		3. Q: Are the changes from R0 allowing the iSTA to the negotiation
		4. R: All the changes are in 942.296
		5. Q: This is too late – chaing deign where some designs are under way. Is inserting Tx Power mandatory in some way
		6. R: this is fully optional, it cannot
		7. Q: How much power do we save using this feature
		8. R:the overhead is low, only one byte. The intent is about saving power, it is about EVM. It provides some feedback for when to use maximum power for range
		9. Q: is the average from the beginning or moving average
		10. R: this is open
		11. **Starwpoll**:
		We prefer:
		a) tx power control as presented in 11-20-1245
		b) needs improvement
		c) no power control
		d) abstain
		**Results:** (a/b/c/d) (7/2/6/5)
	7. Nehru Bhandaru presented 11-20-1225
		1. TItle LB249 crc nb 0820
		2. CID 3132 Revise
		3. CID 3304: needs more time
		4. CID 3319: Revise (change already made in D2.2)
		5. CID 3388: Reject (sequences define din J.14)
		6. CID 3399 Accept
		7. Stopped at 3404
	8. Submission pipeline
	9. Scheduled Telecon
	10. AOB
	11. Adjourned at 11:30 PDT
	12. Attendance:

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| TGaz | 9/9 | Aldana, Carlos | Facebook |
| TGaz | 9/9 | Berger, Christian | NXP Semiconductors |
| TGaz | 9/9 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 9/9 | Das, Dibakar | Intel Corporation |
| TGaz | 9/9 | Grandhe, Niranjan | NXP Semiconductors |
| TGaz | 9/9 | Henry, Jerome | Cisco Systems, Inc. |
| TGaz | 9/9 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 9/9 | Lindskog, Erik | SAMSUNG |
| TGaz | 9/9 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 9/9 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 9/9 | Segev, Jonathan | Intel Corporation |
| TGaz | 9/9 | Sosack, Robert | Molex Incorporated |
| TGaz | 9/9 | Wang, Qi | Apple, Inc. |
| TGaz | 9/9 | Wang, Yi-Hsiu | Zeku |
| TGaz | 9/9 | Want, Roy | Google |
| TGaz | 9/9 | Wu, Tianyu | Apple, Inc. |
| TGaz | 9/9 | Yee, Peter | NSA-CSD |
| TGaz | 9/9 | Zeng, Ruochen | NXP Semiconductors |

1. **TGaz – September 10nd 2020**
	1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:02am PDT,**
	2. Agenda Doc. **IEEE 802.11-20/1002r22 (in progress - slide 49)**
	3. Review Patent Policy and logistics
		1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
		2. Chair called for any potentially essential patents, no one stepped forward.
		3. Chair reminded participants to register their attendance using imat.
		4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
		5. Chair reviewed IEEE copyright policy, code of ethics, anti-trust requirements and WG participation as an individual professional – no clarification requested.
		6. Chair reviewed IEEE 802 ground rules
		7. Recorded Participation requirement
		Headcount: ~12 present
	4. Agenda Setting
		1. 10-20-1225 CRS nb 0820 – Nehru Bhandaru - continues
		2. Some LB249 passive TB Ranging CR – Erik Lindskog
	5. Nehru Bhandaru presented 10-20-1225 (continuation)
		1. CID 3304 – Revise (some change to remove “shall language”)
		2. CID 3404 – Accept
		3. CID 3453 – Revise
		4. CID 3460 – Reject
		5. CID 3461 – Revise
		6. CID 3520 – Revise
		7. CID 3650 – Reject
		8. CID 3839 – Revise
		9. CID 3974 – Revise
		10. CDI 3975 – Revise
		11. CID 3988 – Revise
		12. **Straw poll:**We agree to the resolutions o f CIDS 3132 , 3304 ,319, 3388, 339, 3453, 3460 3520, 3650 3839 3974 3975 3988 as depicted in 10-20-1225
		13. **Results 13/0/0**
	6. Erik Lindskog presented 11-20-1020
		1. Title Some LB249 Passive TB ranging CR
		2. CID 3130 – Revise
		3. CID 3020- Revise
		4. CID 3310 – needs more time
		5. CID 3830 – Revise
		6. CID 3336 – Reject
		7. CID 3045 – needs more time.
		8. CID 3277 – needs more discussion
		9. Stop at this time.
	7. Review of submission pipline
	8. AOB
	9. Adjounred at 11:33 PDT
	10. Attendance:

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| TGaz | 9/10 | Aldana, Carlos | Facebook |
| TGaz | 9/10 | Berger, Christian | NXP Semiconductors |
| TGaz | 9/10 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 9/10 | Das, Dibakar | Intel Corporation |
| TGaz | 9/10 | Grandhe, Niranjan | NXP Semiconductors |
| TGaz | 9/10 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 9/10 | Lindskog, Erik | SAMSUNG |
| TGaz | 9/10 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 9/10 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 9/10 | Segev, Jonathan | Intel Corporation |
| TGaz | 9/10 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 9/10 | Wang, Qi | Apple, Inc. |
| TGaz | 9/10 | Wang, Yi-Hsiu | Zeku |
| TGaz | 9/10 | Want, Roy | Google |
| TGaz | 9/10 | Yee, Peter | NSA-CSD |
| TGaz | 9/10 | Zeng, Ruochen | NXP Semiconductors |

**References:**