

Status Report RAN WG6 to TSG-RAN #82

RAN6 Chair:

Juergen Hofmann (NOKIA)

RAN6 Secretary:

Paolino Usai (ETSI MCC)

A GLOBAL INITIATIVE

Meetings

 Meetings held since RAN #81 plenary

RAN6 #10	1 – 29 October, 2018	Electronic Agreement Meeting incl. Decision Teleconference (29 th Oct)	Online
RAN6 #10	13 November, 2018	Election Meeting (Spokane, USA)	NAF3
RAN #82	10 – 13 December, 2018	Sorrento, Italia	EF3

RAN6 #10 Meeting Arrangement



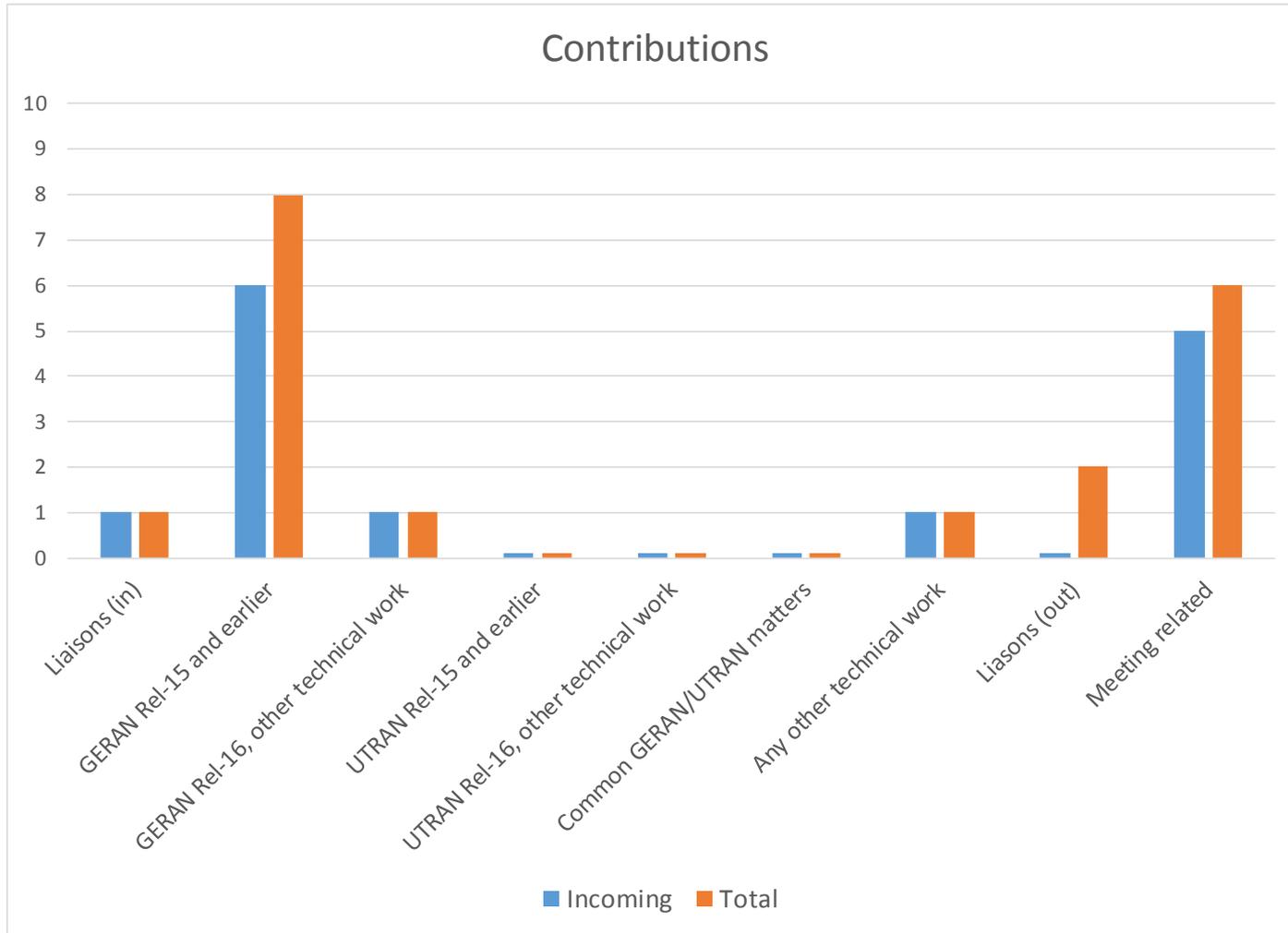
RAN6 #10 was held first time as electronic agreement meeting as decided by RAN #81 with following arrangement:

-  A. RAN6 reflector submission and commenting (1st – 26th October, 2018)
 - 1) Submission of contributions to 3GU and RAN6 reflector (from 1st to 19th October, 21.00 CEST)
 - 2) Submission of revised contributions to RAN6 reflector (from 1st to 26th October, 21.00 CEST)
 - 3) Commenting contributions on RAN6 reflector (from 15th October, 0:00 CEST to 26th October, 21.00 CEST)

-  B. RAN6 #10 Decision Teleconference (29th October 2018, 16.00 – 19.00 CET)

-  C. Election Meeting (Spokane, USA, 13th November 2018, 9.00 – 11.00 PT)

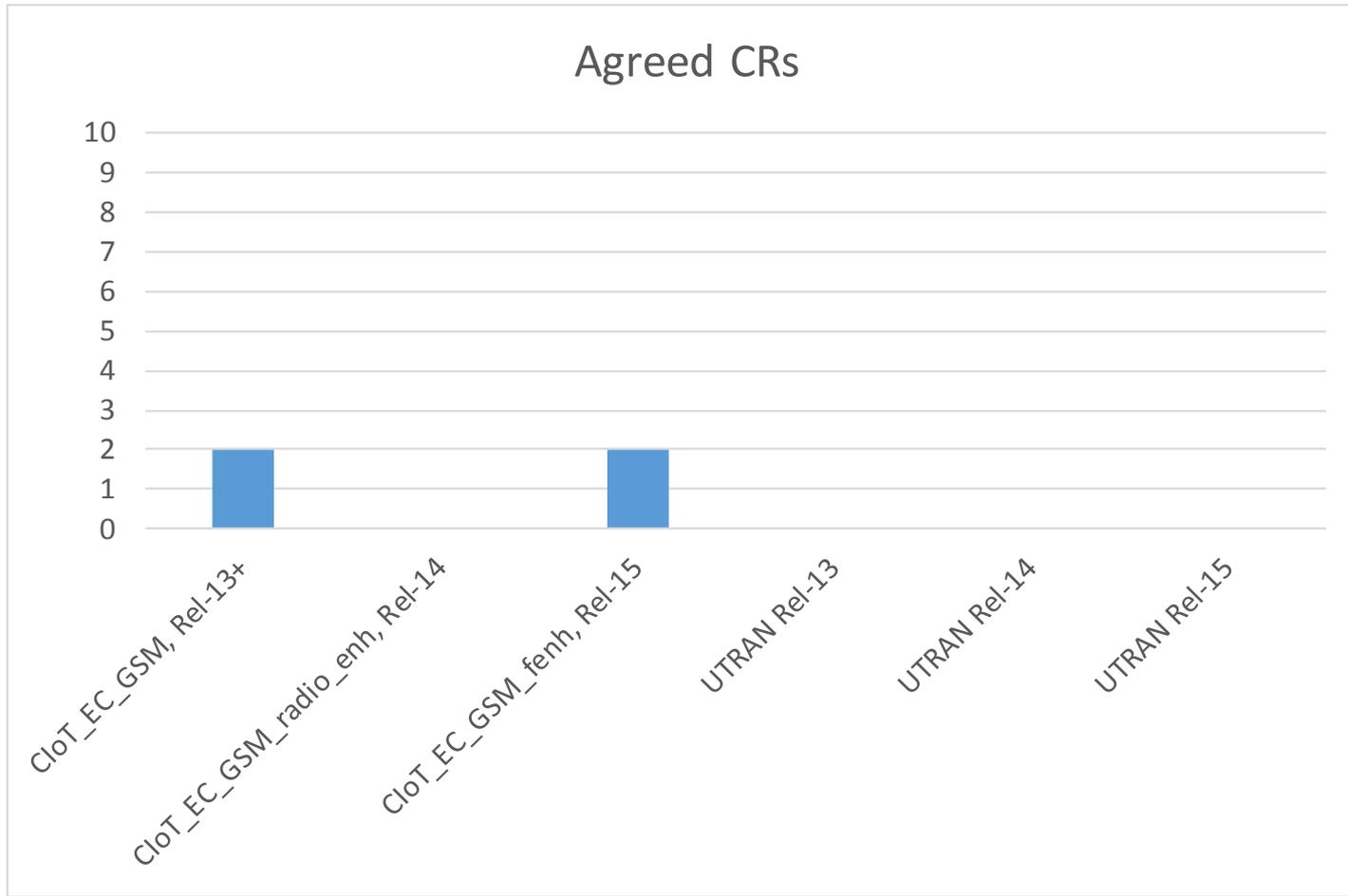
RAN6 #10 Statistics (1/3)



Incoming: 14

Total: 19
(excl. LS from SA2)

RAN6 #10 Statistics (2/3)



Total agreed
CRs: 4
+
1 endorsed CR

RAN6 #10 Statistics (3/3)



- 📶 Total number of participants attending RAN6 #10 Decision Teleconference: 9
(registered for the meeting: 9)
- 📶 Total number of participants attending RAN6 #10 Election Meeting: 5
(registered for the meeting: 15)

Executive Summary (1/2)

- 📶 In total 4 CRs agreed: all to GERAN specs, none to UTRAN specs.
 - In addition, 1 CR was endorsed for GERAN.
- 📶 Liaisons: one incoming LS (on GERAN), and 2 outgoing LS (on GERAN)
 - 1 LS postponed at RAN6 #9 was noted.
- 📶 RAN6 meeting dates for 2019
 - 4 RAN6 electronic agreement meetings agreed for 2019 in [R6-180182](#)
- 📶 GERAN, Rel-13: 2 CRs agreed for CloT_EC_GSM.
- 📶 GERAN, Rel-14: no contributions.
- 📶 GERAN, Rel-15: Work item 'Further enhancements for EC-GSM-IoT':
 - Draft CR on introduction of MS capability support for monitoring EC Paging Indication Channel endorsed and sent via LS in [R6-180183](#) to CT1.
 - 2 correction CRs agreed on system info acquisition enhancements for EC / PEO devices.
- 📶 GERAN, Rel-16: Discussion on GERAN/NB-IoT Idle mode interworking continued
 - Reply LS on 'RAN6 Impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection' from TSG RAN received and replied in [R6-180181](#) to RAN2 related to WID 'Additional enhancements for NB-IoT'.
- 📶 UTRAN, Rel-16: Discussion on Return to NR after SRVCC from NR to UTRAN
 - LS sent from RAN6 #9 to SA2, reply LS was sent from SA2 #129 to RAN6, but due to late availability of the LS (after submission deadline), it will be treated at RAN6 #11.
- 📶 Transfer of rapporteur responsibilities for UTRAN and GERAN specs
 - progressed at RAN6 #10 with 8 reassignments based on Chairman input.
- 📶 List of agreed CRs for block approval at RAN #82 is found in [RP-182199](#).

Executive Summary (2/2)



- Election Meeting on 13th November (Spokane, USA)
 - Mr. Juergen Hofmann (NOKIA) re-elected as Chairman by acclamation.
 - No Vice Chair was elected.

General Matters/RAN6 #9 Report Approval



- 📶 Agenda for Electronic Agreement Meeting approved in [R6-180175](#)
- 📶 Report of 3GPP TSG RAN WG6 meeting #9 approved in [R6-180177](#)
- 📶 Additional Information for Setting up RAN6 #10 and Future RAN6 Electronic Agreement Meetings, [R6-180166](#)
 - Lists the schedule for RAN6 #10 and provides guidance for submitting, revising and commenting contributions.
 - Commenting Period: During RAN6 #10 no comments were made, except the hint from Sierra Wireless to upload the reply LS from RAN.
 - RAN6 #10 Decision Teleconference: principal concern raised by one company to send a draft LS and hence further discussion was required during the telco, while the decision telco should serve for making decisions.
 - Conclusion by Chairman: For next meeting, principal concerns (in contrast to editorial improvements) must be raised during the commenting period. Otherwise, if not raised there and only raised in the decision telco, they will be lower weighted or even not taken into account.

Liaisons (1/2)

- 📶 1 incoming LS and 1 LS, postponed at RAN6 #9, were treated:
- 📶 **R6-180178** Reply LS on RAN6 Impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection (source: TSG RAN)
 - The LS sent from RAN #81 to RAN6 points out that cell reselection between GERAN and NB-IoT is not in the scope of the work item. RAN6 is requested to wait on information from RAN2.
 - The LS was discussed together with a draft LS in [R6-180173](#), see item GERAN Rel-16.
 - After Email approval on 31st October, the LS was replied in [R6-180181](#).
- 📶 **R6-180089** LS on Removal of LTE specific terminology from Group Communication System Enablers TS 22.468 (source: SA1)
 - SA1 have decided to replace the term 'LTE' by '3GPP' in regard to Mission Critical services to allow that these services can be supported in 5G and future generations. SA1 asks groups to update their specs to the latest version of TS 22.468. RAN6 will finalize this work at RAN6 #9. LS was postponed to RAN6 #9 where RAN6 considers to send a reply.
 - At RAN6 #9, the LS was further postponed as no analysis was made for GERAN/UTRAN specs so far. The Secretary committed to check if any specs are affected until RAN6 #10.
 - Prior to RAN6 #10, the Secretary checked if any GERAN or UTRAN spec is affected and did not find any spec. Thus, the LS was noted.

Liaisons (2/2)

- 📶 1 LS from SA2#129 sent to RAN6 in [S2-1810800](#) Reply LS on Return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (To: RAN6, Cc: RAN2),
 - It is a reply to two LSs sent to SA2 from RAN6 #9 in [R6-180157](#) / [R6-180164](#). However, this LS was not made available as incoming LS to RAN6 #10, hence it will be treated at RAN6 #11.
 - Since RAN6 electronic agreement meetings were preponed, in order to receive an incoming LS in time for a particular meeting in 2019, the **preferred LS arrival time** and **latest LS arrival time** are stated on slide 19. In addition, each outgoing RAN6 LS includes a corresponding hint.
- 📶 1 outgoing LS sent from RAN6 #10 and 1 outgoing LS per E-mail approval.
- 📶 [R6-180183](#) LS on Introduction of capability support for EC paging indication channel monitoring (To: CT1), approved
 - RAN6 endorsed draft CR 24.008 LS to CT1 on introduction of capability support for EC paging indication channel monitoring for Rel-15 to MSRAC.
 - This is related to energy savings in idle mode for an EC-GSM-IoT capable MS.
- 📶 [R6-180181](#) LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell selection (To: RAN2 Cc: TSG RAN), approved by E-mail
 - It is received in [RP-182210](#) and is a reply to RAN2 and TSG RAN with regard to the received LS from TSG RAN in [R6-180178](#). RAN6 asks RAN2 to provide guidance on impact to GERAN specifications and remarks that inter-RAT assistance signalling identifies one candidate solution for idle mode inter-RAT cell selection among others.

CRs to features in Rel-15 or earlier (GERAN) (1/3)

IoT_EC_GSM, Core and Performance aspects (Rel-13+)

- Two mirror CRs to TS 45.008 on **Removal of brackets for RLA_EC definition** (number of samples and measurement time) in [R6-180169](#) (Rel-14) and [R6-180170](#) (Rel-15) agreed.
 - Some corrections implemented in CR 45.008-0664 for Rel-13 in [R6-180142](#) were not yet applied to Rel-14 and Rel-15.

CRs for Approval

-  The agreed CRs are collected in [RP-182391](#) for block approval at RAN #82.

CRs to features in Rel-15 or earlier (GERAN) (2/3)

Further enhancements for EC-GSM-IoT (Rel-15)

WI Clot_EC_GSM_fenh, approved at RAN #79 completed at RAN6 #9. 2 correction CRs to TS 44.018 agreed and one draft CR to 24.008 endorsed at RAN6 #10.

Deferred System Information Acquisition for PEO and EC-GSM-IoT

[R6-180179](#) CR 44.018-1086 rev 1 Corrections to Deferred System Information Acquisition in PEO (Rel-15),

- correcting error in a code point for PEO IMM Cell Group Identifier and adding a description for the case when the support of deferred SI acquisition for PEO changes while the MS is camping on the serving cell is added, in which there is no impact to other Change Marks, thus legacy PEO devices are not affected.

[R6-180180](#) CR 44.018-1087 rev 1 Correction to Deferred System Information Acquisition in EC operation (Rel-15),

- correcting error in a code point for IMM Cell Group Identifier and adding a description for (de-)activation of deferred SI acquisition in EC operation as well as a description for the case when the support of deferred SI acquisition in EC operation changes while the MS is camping on the serving cell avoiding any impact to other Change Marks, thus not affecting legacy EC-GSM-IoT devices.

CRs to features in Rel-15 or earlier (GERAN) (3/3)

Further enhancements for EC-GSM-IoT (Rel-15) – cont'd

EC Paging Indication Channel Monitoring

 [R6-180171](#) Draft CR 24.008 Introduction of capability support for EC paging indication channel monitoring (Rel-15)

- A new capability “EC paging indication channel monitoring support” is added to MSRAC. The draft CR was endorsed and sent via LS in [R6-180183](#) to CT1.

CRs for Approval

 The agreed CRs are collected in [RP-182392](#) for block approval at RAN #82.

Rel-16 features (GERAN)

No contributions to “New Work or Study item proposals”

No contributions to TEI16.

1 contribution to “Any other Rel-16 documents”

Other Rel-16 items (GERAN)

GERAN - NB-IoT Idle mode interworking

- 📶 RAN6 continued the discussion on idle mode interworking between GERAN and NB-IoT, started in last meeting, based on
 - Incoming Reply LS from TSG RAN in [R6-180178](#) and
 - Draft LS submitted in [R6-180173](#) Draft Reply LS on RAN6 Impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection (To: TSG RAN, Cc: RAN2)
 - stating the need for developing signalling for inter-RAT cell selection assistance information in RAN6 and hence to add RAN6 as secondary responsible for the mobility enhancement of WI Additional enhancement for NB-IoT (NB_IOTenh3).
 - No consensus reached to indicate the need for signalling assistance information, as also other solutions (e.g. implementation related) were seen feasible.
 - No consensus reached to add RAN6 to the NB_IOTenh3 WID as secondary responsible, as impacts to GERAN specifications are currently unclear.
 - Draft LS revised into [R6-180181](#) and then approved via E-mail on 31st Oct.

CRs to features in Rel-15 or earlier (UTRAN)

No contributions.

Rel-16 features (UTRAN)

No contributions.

Common GERAN / UTRAN matters

No contributions.

Other Technical Work

Transfer of rapporteur responsibilities for UMTS 25.xxx specifications and GERAN 4x.xxx and 5x.xxx specifications

- Progress reached at RAN6 #10, where the Chairman in [R6-180168](#) provided an analysis on prioritized specs , i.e. specs that were updated during the last year (according to agreement at RAN6 #6 to distinguish between TSs with frequent changes and TSs with infrequent changes and TRs).
- HiSilicon (commenting also on behalf of Huawei), Ericsson and Nokia re-confirmed their responsibilities.
- Further responsibilities were updated for UTRAN TRs and GERAN TS/TRs where rapporteurs are known to be no longer with the given company.
- Further update of the responsibilities will be done until RAN6 #11.

Work Plan

- Active work / study items: None.
- Latest version of RAN6 work plan: [R6-180159](#)

RAN WG6 Schedule (2019)

Meeting	Location
RAN6 #11 7 th Jan: incoming preferred LS arrival, last arrival: 1 st February 7 th Jan – 25 th Jan, 21.00 CET: submission period (new Tdocs) 7 th Jan – 1 st Feb, 21.00 CET: submission period (revisions) 21 st Jan – 1 st Feb, 21.00 CET: commenting period Mon, 4 th Feb 16.00 CET: RAN6 #11 Decision Teleconference	Online
RAN#83: 18 – 21 March 2019	Shenzhen, China
RAN6 #12 25 th March: incoming preferred LS arrival, last arrival: 19 th April 25 th March – 12 th Apr, 21.00 CEST: submission period (new Tdocs) 25 th March – 19 th Apr, 21.00 CEST: submission period (revisions) 8 th – 19 th Apr, 21.00 CEST: commenting period Thu, 25 th Apr 16.00 CEST: RAN6 #12 Decision Teleconference	Online
RAN#84: 3 – 6 June 2019	Newport Beach California, USA
RAN6 #13 15 th July: incoming preferred LS arrival, last arrival: 7 th August 15 th Jul – 2 nd Aug, 21.00 CEST: submission period (new Tdocs) 15 th Jul – 7 th Aug, 21.00 CEST: submission period (revisions) 29 th Jul – 7 th Aug, 21.00 CEST: commenting period Thu, 8 th Aug 16.00 CEST: RAN6 #13 Decision Teleconference	Online
RAN#85: 16 – 19 Sept 2019	Newport Beach California, USA
RAN6 #14 30 th Sept: incoming preferred LS arrival, last arrival: 25 th Oct 30 th Sept – 18 th Oct, 21.00 CEST: submission period (new Tdocs) 30 th Sept – 25 th Oct, 21.00 CEST: submission period (revisions) 14 th – 25 th Oct, 21.00 CEST: commenting period Mon, 28 th Oct 16.00 CET: RAN6 #14 Decision Teleconference	Online
RAN#86: 9 – 12 Dec 2019	Sitges, Spain

Concluding Remarks

- 📶 A special thanks to Paolo Usai (ETSI MCC) for his efficient secretary support.
- 📶 Thanks to all delegates for their hard work.
- 📶 Thanks to the host NAF3 for the convenient organization of the Election meeting.