3GPP TSG-RAN WG2 Meeting #119bis Electronic R2-220xxxx

Elbonia, 10 – 19 November 2022

**Agenda item: 8.4.2.2**

**Source: Nokia (Rapporteur)**

**Title: Report of [AT119bis-e][023][feMob] Terminology (Nokia)**

**WID/SID: NR\_Mob\_enh2-Core - Release 18**

**Document for: Discussion and Decision**

# 1 Introduction

This document is the report of the following email discussion:

* [AT119bis-e][023][feMob] Terminology (Nokia)

Scope: continue discussion on a better name for L1L2 centric mobility. Other terminology could also be addressed, e.g. the naming of the part of the procedure when serving cell change happens could be improved, e.g.: cell change, L1L2 cell switch, LLM cell change etc.

Intended outcome: Agreeable proposal(s)

Deadline: CB W2 Monday

# 2 Contact Points

Respondents to the email discussion are kindly asked to fill in the following table.

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| Company | Name | Email Address |
| Nokia (Rapporteur) |  |  |
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# 3 Discussion

3GPP work often requires precise terminology to ensure everyone is talking about the same thing. But terms also often arise haphazardly and at the “spur of the moment”, such as “Node-B” and “LTE”, neither of which was meant to live as long as they have. 3GPP terminology often becomes somewhat clunky because of this, leading to very long strings of words, which can even end up spending excess time due to time spent writing, reading, and pronouncing the terms over and over.

In the email discussion for L1L2 centric mobility (see the report in R2-2210329), Nokia raised the topic of terminology, proposing to use “lower layer mobility” or “LLM” for short. There was no consensus on this and the RAN2#119bis online discussion didn’t converge either, so this email discussion attempts to see what (if anything) can be concluded on the terms. As the discussion scope states, this discussion should aim to have concise terminology for the whole “L1/L2-centric inter-cell mobility”, including the naming of the part of the procedure when serving cell change happens could be improved, e.g.: cell change, L1L2 cell switch, LLM cell change and so on.

The most discussed proposed so far has been the “LLM”, with some of the counter-arguments listed below:

1. LLM was already used in GPRS (where it meant “Logical Link Management”)

* Rapporteur notes that 3GPP does try to avoid having same acronym for two different meanings, but this has unfortunately already been broken several times, as the following examples of some common RAN2 acronyms show:
  + CG = “Configured Grant” (38.300) and “Cell Group” (36.213)
  + RRC = “Radio Resource Control” (3x.331), “Root Raised Cosine” (36.143) and “Range Rate Correction” (37.355)
  + MAC = “Medium Access Control” (3x.321) and “Message Authentication Code” (24.301)
  + RA = “Random Access” (3x.321, 3x.331) and “Registration Area” (23.700)
  + TA = “Timing Advance” (3x.321) and “Tracking Area” (21.905)
  + FR = “Frequency Range” (38.101-1) and “Full Rate” (26.267)

These examples illustrate that acronyms have been reused multiple times in 3GPP where context makes the meaning clear. But it is clear that reuse of acronyms at least within RAN(2) domain and for the same technology should be avoided.

1. What does “lower” mean – we should be more precise since also L3 configuration can be changed

* Rapporteur notes that being precise **is** important, so “lower” is indeed ambiguous but no less than the “L1/L2-centric” in the current term. And triggering mobility via non-RRC signalling (e.g. L1 or L2 signalling) doesn’t mean there couldn’t be changes to L3 (=RRC) configuration. The label only denotes the intent, not all the impacts it has. Conciseness should come before absolute adherence to the full level of Stage-3 details.

1. Pronunciation of “LLM” may be difficult since it’s close to “RRM” (in terms of at least some languages)

* Rapporteur notes that pronunciation is relevant and can make it difficult to use a term – a case in point would be “RLC” and “RRC”. RAN2 should try to avoid confusion with pronunciation where possible.

1. The WI term has to be used since it’s written in the WI

* Rapporteur notes that 3GPP WIs are not written so that they determine the used acronyms: Instead, they convey the **intent** of the WI, not the final outcome. The terms used when writing WI are not always the best ones and this argument cannot be the only reason. Hence, this is not a valid argument except as a “fallback” in case all else fails.

With these, we think it’s probably easiest to just indicate which terms are acceptable, which are NOT acceptable and why. The discussion should consider the feature naming (i.e. the acronym), the procedure naming (i.e. what do we call the cell change using this new mechanism) as well as the definition of the term (similar to e.g. RRC clause 3.1)

**Question 1**: Which term to use for the **feature** of L1/L2-centric inter-cell mobility (i.e. procedure of having pre-configured RRC configuration that is switched via L1/L2 signalling)?

Candidates (please add proposals to the list):

1. L1L2ICM (L1/L2-centric inter-cell mobility)
2. LLM (Lower Layer Mobility)
3. L2M (L2 Mobility)
4. L1M (L1 Mobility)

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| Answers to Question 1 | | |
| Company | Acceptable candidate(s) | Justification |
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**Summary 1**: TBD.

**Proposal 1**: TBD.

**Question 2**: Which term to use for the **procedure of cell change** (i.e. changing serving cell via means related to L1/L2 signalling)?

Candidates (please add proposals to the list):

1. Cell switch
2. Cell change

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| Answers to Question 2 | | |
| Company | Acceptable candidate(s) | Justification |
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**Summary 2**: TBD.

**Proposal 2**: TBD.

Finally, it can be discussed if there are some other terms RAN2 should fix for use with this WI. Companies are requested to provide input on those.

**Question 3**: Are there other terms that RAN2 should discuss adopting for the L1/L2-centric inter-cell mobility?

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| Answers to Question 3 | | |
| Company | Terminology (needed for + proposal) | Justification |
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**Summary 3**: TBD.

**Proposal 3**: TBD.

# 4 Conclusion

TBD.