**3GPP TSG-SA WG Meeting #94-e S1-211xxx**

**Electronic Meeting, May 10 – May 20, 2021**

Title: Resolution of Editor’s NOTE in TR 22.835.

Agenda Item: 7.6.1. [FS\_EASNS]

Source: LG Electronics

Contact: sungduck.chun@lge.com

*Abstract: This contribution discusses remaining editor’s notes in 22.835 and proposed updates.*

## 1. Discussion.

|  |  |  |
| --- | --- | --- |
| PR with Editor’s note | Discussion | Proposal |
| Editor's notes: The following requirement is related to the ongoing discussion in other WGs and will be considered during consolidation phase taking into account the output from other WGs:  [PR.5.1.6-1] When a UE is located in an area where there is no authorized network slice for the UE, the 5G system shall support a mechanism to efficiently enable the UE to minimize power consumption (e.g., cell search, cell measurement). | According to agreed RAN Slicing WID [1], RAN will specify SIB-based indication of the network slices for cell reselection. The objective in [1] is:

|  |
| --- |
| *1. Support slice based cell reselection, specify mechanisms and signalling including [RAN2]**a. To assist cell reselection, broadcast the supported slice info of the current cell and neighbour cells, and cell reselection priority per slice in system information message.* *b. To assist cell reselection, include slice info (with similar information as in SI message) in RRCRelease message.* |

As shown above, the RAN work focuses on the identification of available slices in the neighbor cells, while the PR focuses on power saving aspect when the slice is not available. Thus, [PR5.1.6-1] is not supported in Rel-17.  | Remove the Editor’s NOTE, and keep [PR.5.1.6-1].[PR.5.1.6-1] When a UE is located in an area where there is no authorized network slice for the UE, the 5G system shall support a mechanism to efficiently enable the UE to minimize power consumption (e.g., cell search, cell measurement). |
| Editor's notes: The following requirements are related to the ongoing discussion in other WGs and will be considered during consolidation phase taking into account the output from other WGs:  [PR.5.2.6-1] When a UE moves from an area where there is at least one authorized network slice for the UE to an area where there is no authorized network slice for the UE, the 5G system shall be able to minimize impact on the applications provided over the network slice to be released (e.g., relocation of the application from one network slices to other network slices or termination of the application).[PR.5.2.6-2] When more prioritized network slice becomes available, the 5G system shall be able to minimize the time until the prioritized network slice is provided to the UE, while minimizing impact on the applications provided over the network slices to be released | Similar to the comment above, [1] will discuss cell ‘re-’selection based on network slice.However, [1] will not address the case when the UE moves into area where there is no available slice and will not address how to minimize application impact. In addition, this aspect is beyond RAN scope and needs to be addressed considering overall system architecture. On the other hand, for [PR.5.2.6-2], this requirement seems to be dependent on the outcome of RAN progress in Rel-17. I.e, the cell ‘re-‘selection based on network slice can minimize the time until when the UE is provided with the desired network slice. | Remove Editor’s note. Generalize [PR.5.2.6-1]. Delete [PR.5.2.6-2].Proposed update to [PR.5.2.6-1]:[PR.5.2.6-1] When a UE moves from an area where an authorized network slice for the UE is provided to an area where the network slice is not provided, the 5G system shall be able to minimize impact on the applications provided over the network slice to be released (e.g., relocation of the application from one network slices to other network slices or termination of the application). |
| [PR.5.6.6-1] The 5G system shall enable a roaming UE with a single PLMN subscription to access network slices from more than one VPLMN simultaneously, when the UE requires simultaneous access to multiple network slices and the network slices are not available in a single VPLMN. [PR.5.6.6-2] The HPLMN shall be able to authorise a roaming UE with a single PLMN subscription to access network slices from more than one VPLMN simultaneously.[PR.5.6.6-3] The HPLMN shall be able to provide a UE with permission and prioritisation information of the VPLMNs the UE is authorised to use for accessing specific network slices.NOTE: The above requirements would depend on certain UE capabilities assumptions, e.g. the ability to connect to more than one PLMN simultaneously.Editor's Note: The above requirements should be revisited in next meeting. Whether the simultaneous access is towards two PLMNs instead of multiple PLMNs, and whether the different PLMNs can be VPLMNs, need further study. | [TBC: Apple may update this row or use separate tdoc for discussion] | [TBC: Apple may update this row or use separate tdoc for discussion] |
| 5.7.6 Potential New Requirements needed to support the use caseEditor’s Note: Potential requirements T.B.D.  | Let’s delete the Editor’s note, if there is no proposal on this section. | Delete the Editor’s note. |
| [PR.5.9.6-1] 5G system shall support a mechanism to minimize service interruption for a UE when different radio resources are configured for a network slice in different geographical areas and when the UE crosses the geographic area boundaries.Editor’s Note: This requirement needs to be checked later. | Whether this PR can be supported or not seems to be dependent on the outcome of RAN2/3. . | Remove the Editor’s note.Move the potential requirement into section 5.9.5 and re-check the requirement when Rel-17 is finished. |

## 2. Reference.

[1] RP-210912, WID\_RAN Slicing

[2] S1-211xxy, CR to 22.835,

## 3. Proposal.

A CR is provided based on the above discussion. It is proposed to approve [2].