**3GPP TSG RAN2 #115-e R2-21xxxxx**

**Online, 16 – 27 August 2021**

**Agenda Item:**  **8.13.2.1 Handover related SON aspects**

**Source: Huawei (email rapporteur)**

**Title:** **Report of [AT115e][852][SONMDT] Procedures and Modeling of successful HO (Huawei)**

**Document for: Discussion and Decision**

### 1 Introduction

This is the email report of [AT115e][852] SONMDT:

* [AT115e][852][SON/MDT] Procedures and Modeling of successful HO (Huawei)

**Scope:** Focus on the agreeable proposals in R2-2108564

 **Intended outcome**: Report with Agreements

 **Deadline**: 11:00 UTC, Wednesday August 25th

The company contact list is the same as the list in R2-2108564 [1].

|  |  |  |
| --- | --- | --- |
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### 2 Discussion

The agreeable proposals in R2-2108564 are listed as below:

**Proposal 2: For the thresholds of T310/T312 in the source cell, the source cell configures the values.**

**Proposal 3: Introduce a UE capability indication for SHR.**

**Proposal 4: The UE may discard the SHR, i.e. release the UE variable VarSuccHO-Report, 48 hours after the SHR is stored.**

Q1: which of the above proposals are acceptable?

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| **Company** | **All or some** | **Comments** |
| vivo | all |  |
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P1 is also an agreeable proposal in R2-2108564. In addition, some alternatives on ASN.1 definition are also provided (see section 5), so it is proposed to collect companies’ opinions on the alternatives.

**Proposal 1: Defines new values or mix of existing values and new values for the threshold, and explicit values or percentages are candidate solutions.**

Q2: Do you agree with P1? In addition, which of the alternatives (shown in section 5) are preferred?

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| **Company** | **Yes/No for P1** | **Alt1, Alt2, Alt2a, or others** | **Comments** |
| vivo | Yes | Either Alt2 or Alt2a is fine to us | We prefer to adopt the options where percentage is used. This offers a cleaner and minimal signalling overheaded compared to the use of explicit values.  |
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### 3 Conclusion

[To be updated]

### 4 References

[1] R2-2108564 Report of [Post114-e][851][SONMDT] Procedures and Modeling of successful HO report (Huawei) Huawei discussion

### 5 Draft changes for the thresholds of T310/T312/T304

The ASN.1 definition is as below:

Alt1: explicit values

Here is an example:

ReportConfigSuccHO-Report-r17 ::= SEQUENCE {

t310\_threshold-r17 ENUMERATED {value1, value2} OPTIONAL,

t312\_threshold-r17 ENUMERATED {value1, value2} OPTIONAL,

t304\_threshold-r17 ENUMERATED {value1, value2} OPTIONAL

}

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| ***t310\_threshold***The T310\_threshold is to indicate the threshold value. |
| ***the above field descriptions can be applied for other fields***To be added |

Alt2: percentages

Here is an example:

ReportConfigSuccHO-Report-r17 ::= SEQUENCE {

t310\_threshold\_ratio-r17 ENUMERATED {20%, 40%, 60%, 80%} OPTIONAL,

t312\_threshold\_ratio-r17 ENUMERATED {20%, 40%, 60%, 80%} OPTIONAL,

t304\_threshold\_ratio-r17 ENUMERATED {20%, 40%, 60%, 80%} OPTIONAL

}

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| ***t310\_threshold\_ratio***The T310\_threshold\_ratio is to indicate the ratio of the threshold value over the siganlled T310 value. For example, if the signalled T310 value is ms100, and T310\_threshold\_ratio is 40%, the T310 theshold for the successful handover report is 40ms. |
| ***the above field descriptions can be applied for other fields***To be added |

Alt2a: a common set of percentages + a flag indicating the corresponding event

Here is an example:

ReportConfigSuccHO-Report-r17 ::= SEQUENCE {

shr\_threshold\_ratio-r17 ENUMERATED {20%, 40%, 60%, 80%} OPTIONAL,

shr\_t310\_flag-r17 ENUMERATED {true} OPTIONAL,

shr\_t312\_flag-r17 ENUMERATED {true} OPTIONAL,

shr\_t304\_flag-r17 ENUMERATED {true} OPTIONAL

}

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| ***shr\_threshold\_ratio***The shr\_threshold\_ratio is to indicate the ratio of the threshold value over the siganlled timer value. For example, if the signalled T310 value is ms100, and T310\_threshold\_ratio is 40%, the T310 theshold for the successful handover report is 40ms. |
| ***shr\_t310\_flag***The presence of the field indicates that the threshold ratio for triggering the successful HO report applies to T310. |
| ***the above field descriptions can be applied for other fields******To be added*** |