3GPP TSG-RAN WG3 #128 R3-253855

St Julian, Malta, May 19th – 23rd 2025

Agenda Item: 10.4

Source: Ericsson, Huawei, Lenovo

Title: (TP for BL CR to 38.413 for SON) UHI for SCG activation and deactivation

Document for: Discussion, Decision

# 1 Introduction

The following TP is meant to capture the following agreements reached during RAN3#128.

**NW collects the absolute time (i.e. accumulated time) spent in the PSCell with SCG activated state.**

**Add the absolute time with SCG activated in the Last Visited PSCell Information IE.**

**Additional information is not needed for UHI Enhancement for SCG Deactivation/Activation.**

# Appendix A - Text Proposal to 38.413

9.3.1.235 Last Visited PSCell Information

The Last Visited PSCell Information may contain cell specific information.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| PSCell ID | O |  | NG-RAN CGI9.3.1.73 | This IE is present when the SCG resources are configured for the UE. | - |  |
| Time Stay | M |  | INTEGER (0..40950) | The duration of the time the UE stayed in the cell in 1/10 seconds. If the UE stays in a cell more than 4095s, this IE is set to 40950.Or the duration of the time when no SCG resources are configured for the UE. | - |  |
| SCG Activation Time | O |  | INTEGER (0..40950) | The total duration of the time the UE stayed in the cell while the SCG was activated, in 1/10 seconds. If the duration is more than 4095s, this IE is set to 40950. | YES | ignore |

[Unchanged parts omitted]

9.4.5 Information Element Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Information Element Definitions

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NGAP-IEs {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

[Unchanged parts omitted]

id-UserLocationInformationN3IWF-without-PortNumber,

id-SCGActivationTime,

maxnoofAllowedAreas,

[Unchanged parts omitted]

LastVisitedPSCellList ::= SEQUENCE (SIZE(1..maxnoofPSCellsPerPrimaryCellinUEHistoryInfo)) OF LastVisitedPSCellInformation

LastVisitedPSCellInformation ::= SEQUENCE {

 pSCellID NGRAN-CGI OPTIONAL,

 timeStay INTEGER (0..40950),

 iE-Extensions ProtocolExtensionContainer { {LastVisitedPSCellInformation-ExtIEs} } OPTIONAL,

 ...

}

LastVisitedPSCellInformation-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

 { ID id-SCGActivationTime CRITICALITY ignore EXTENSION SCGActivationTime PRESENCE optional },

 ...

}

[Unchanged parts omitted]

SCGActivationTime ::= INTEGER (0..40950)

[Unchanged parts omitted]

id-UserLocationInformationN3IWF-without-PortNumber ProtocolIE-ID ::= 439

id-AUN3DeviceAccessInfo ProtocolIE-ID ::= 440

id-SCGActivationTime ProtocolIE-ID ::= xxx

[End of changes]