3GPP TSG SA WG5 Meeting 143-e S5-223750

**e-meeting, 9 -17 May 2022**

**Source: Nokia, Samsung**

**Title: Introducing the stage 2 solution for paging analytics use case**

**Document for: Approval**

**Agenda Item: 6.6.5**

# 1 Decision/action requested

This contribution is for approval.

# 2 Rationale

This contribution proposes the stage 2 solution of “Paging Optmization Analysis” usecase.

# 3 Detailed proposal

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| **1st Modified Section** |

#### 8.4.1.x Paging Optimization

##### 8.4.1.x.1 MDA type

The MDA type for Capability-Paging Optimization: SLSAnalysis.PagingOptimization.

##### 8.4.1.x.2 Enabling data

The enabling data for paging optimization are provided in table 8.4.1.x.2-1.

**Table 8.4.1.x.2-1: Enabling data for Paging Optimization Analysis**

|  |  |  |
| --- | --- | --- |
| **Data category** | **Description** | **References** |
| MDT Data | MDT reports indicating UE location information | MDT measurements defined in TS 32.423[7]. |
| Performance measurements | Measurement for 5G Paging from AMF | See clause 5.2.5.2 in TS 28.552[4]. |

##### 8.4.1.x.3 Analytics output

The specific information elements of the analytics output for paging optimization, in addition to the common information elements of the analytics outputs (see clause 8.3), are provided in table 8.4.1.x.3-1.

**Table 8.4.1.x.3-1: Analytics output for paging optimization analysis**

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| --- | --- | --- | --- |
| Information element | Definition | Support qualifier | Properties |
| OOCDuration | This specify the time window during which UE is out-of-coverage. | M | type: ProjectionDuration  multiplicity: 1  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| OOCLocation | This specifies the last known location of the UEs before it goes out-of-coverage. This would be within the area indicated by the “areaScope” of the MDA request. | CM | type: GeoCoordinate  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| OOCMap | This specifies the geographical region within which the paging issues are experienced by a group of UEs. This would be within the area indicated by the “areaScope” of the MDA request. | CM | type: GeoCoordinate  multiplicity: 1..\*  isOrdered: True  isUnique: True  defaultValue: None  isNullable: False |

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| **End of Modified Sections** |