

|  |                             |
|--|-----------------------------|
| First name:  | Family name:                |
| Affiliation:   | Professional email address: |
| Coding topic you are choosing:   |                             |
| <p>Expansion of the KPM Service Model</p> <p>Mobility Control Implementation via RC Service Model</p> <p>Implementation of the CCC Service Model</p> |                             |

**Appendix:** this appendix describes the 3GPP/O-RAN procedures covered by each of the topics.

**Topic 1: Expansion of the KPM Service Model**

List of KPM SM measurements from 3GPP TS 28.552:

|                             |  |
|-----------------------------|--|
| 5.1.1.7                     | TB related Measurements  |
| 5.1.1.6.2                   | Mobility Management  |
| 5.1.1.1.4                   | Average RLC packet delay in the UL   |
| 5.1.1.5.1 + 5.1.1.5.2       | Number of PDU Sessions requested and successfully set up                     |
| 5.1.1.12.1                  | MCS Distribution in PDSCH  |
| 5.1.1.12.2                  | MCS Distribution in PUSCH  |
| 5.1.1.13.3.1 + 5.1.1.13.3.2 | Number of QoS flow attempted to set up and successfully established          |
| 5.1.1.17.1 + 5.1.1.17.2     | Number of RCC connection re-establishment attempts and successfully outcomes |
| 5.1.1.22.1                  | SS-RSRQ distribution per SSB   |
| 5.1.1.26.1                  | Type 1 power headroom distribution   |
| 5.1.1.31.1                  | SS-RSRQ distribution in gNB  |
| 5.1.1.31.2                  | SS-RSRQ distribution per SSB   |
| 5.1.1.32.1                  | SS-SINR distribution per gNB   |
| 5.1.1.32.2                  | SS-SINR distribution per SSB   |
| 5.1.3.1.1                   | UL PDCDP SDU Loss Rate   |
| 5.1.3.1.2                   | UL F1-U Packet Loss Rate   |
| 5.1.3.1.3                   | DL F1-U Packet Loss Rate   |

## Appendix:

### Topic 2: Mobility Control Implementation via RC Service Model

|                   |   |
|-------------------|---|
| REPORT<br>service | <b>Style Type 1 - Message copy</b><br>Section 8.2.1 - list of RAN parameters<br>Report a copy of the RRC Message along with UE ID and Cell Global ID  |
|                   | <b>Style Type 2 - Call process breakpoint</b><br>Section 8.1.1.17 - list of UE Context Information<br>Call Process Type Bearer Context Setup<br>List to be reported: List of PDU Sessions and/or List of Neighbor cells |
| INSERT<br>service | <b>Style Type 3 - Connected Mode Mobility Request</b><br>Section 8.3.4.1 - list of RAN parameters<br>Indication Name: Handover Control request  |

### Topic 3: Implementation of the CCC Service Model

OAI showcased the O1 demo in the O-RAN meeting in Phoenix, October 2023.

The provided links include a presentation and video to offer a more comprehensive understanding of the demo:

- <https://wiki.o-ran-sc.org/download/attachments/89784359/o1-demo.pdf?api=v2>
- <https://wiki.o-ran-sc.org/download/attachments/89784359/o1-demo.mp4?api=v2>

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