**3GPP TSG-SA3 Meeting #108e *draft\_S3-221869-r2***

**e-meeting, 22 - 26 August 2022**

**Source: Nokia, Nokia Shanghai Bell**

**Title: KI8 conclusion on deploying multiple NRFs**

**Document for: Approval**

**Agenda Item: 5.24**

# 1 Decision/action requested

***Conclusion on key issue 8 is provided.***

# 2 References

[1] 3GPP TR 33.875

# 3 Rationale

*The key issue was created to document the different deployment scenarios for NRFs. It is concluded to add a clause in line with below analysis to TS 33.501.*

# 4 Detailed proposal

## \*\*\*\*\*\*\*\* START OF CHANGES

\*\*\* Clause 7 on Conclusions

## 7.8 KI#8: Service access authorization requirements in intra-PLMN scenarios for PLMN deploying multiple NRFs (in OAuth2.0 AS role)

### 7.8.1 Analysis

As described in clause 6.2.6.1 of TS 23.501 [1], an operator network can deploy multiple NRFs, for example due to network slicing or network segmentation.

A clause on handling access token requests in deployments with several NRFs is missing in 3GPP TS 33.501 [2].

Solution #10 addresses one part, i.e. making NF Service Consumer instance and type available to a slice specific NRF. As provided by evaluation, the solution is technical possible but seems to have high impact in realization.

For normative work, rather a generic description is desired how to handle multiple NRF scenarios..

### 7.8.2 Conclusion

A new clause to TS 33.501 along the lines of the following text will be added to clarify NRF deployment scenarions.

of hierarchical NRF deployment

This implements solution #10.

## \*\*\*\*\*\*\*\* END OF CHANGES