3GPP TSG SA WG 1 Meeting 95-e S1-213011

Electronic Meeting, 23 August –2 September 2021

**Title: Reply LS on Alignment concerning 5G RG requirements and its remote management**

**Response to: LS LIAISE-467-03 on Alignment concerning 5G RG requirements and its remote management from BBF Technical Committee Chair**

**Release: -**

**Work Item: -**

**Source: SA1**

**To: BBF Technical Committee Chair**

**Cc: SA2**

**Contact person: Toon Norp**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** 3GPP TR22.858v18.1.0 “Study on enhancements for residential 5G”  
3GPP TR22.859v18.1.0 “  
22.261CRXXXX (any Pirates CR agreed at the August meeting)

# 1 Overall description

3GPP SA1 thanks BBF for its Liaison on alignment concerning 5G RG requirements and its remote management.

Indeed 3GPP SA1 has recently completed a Release 18 study FS\_Resident, the results of which are reflected in 3GPP TR22.858 (attached). An updated version v18.1.0 (including consolidated requirements) should become available after the 3GPP September plenaries. 3GPP TR 22.858 provides a background of the use cases that were considered in creating the consolidated potential service requirements.

The focus of 3GPP TR 22.858 is on the Customer Premises Network. Compared to the WWC work, it specifies requirements for evolved residential gateway (eRG). The focus is less on the fixed / mobile access network between residential gateway and 5G Core, but more on the network behind the residential gateway. The requirements related to eRG include security, privacy, and intra-CPN connectivity. These requirements are potentially related to specifications of BBF, particularly when the eRG goes beyond the role of 5G-RG acting as a 3GPP UE. Additionally, FS\_Resident specifies requirements for the provisioning of eRG, these management aspects are potentially related to TR-069, TR-369, TR-124i6 specified by the Broadband User Services Work Area, and TR-181 by the Broadband Home Work Area.

3GPP TR 22.858 also introduces radio access functionality provided by a Premises Radio Access Station (PRAS). The idea is that 5G UEs should be able to receive services regardless whether they are connected to a customer premises network or whether they are connected to the public mobile network.

3GPP SA1 has agreed a Release 18 normative work item PIRATES, which creates normative requirements based on both the results of the FS\_Resident study and the FS\_PIN “Personal IoT Network” study (3GPP TR 22.859). The FS\_PIN study has studies Personal IoT Networks in the context of wearables as well as in the context of home automation. Also the FS\_PIN study includes requirements relevant for residential gateways. A first set of results from the PIRATES work are the CRs to 3GPP TS 22.261 “Service requirements for the 5G system” with descriptions and requirements in the attachments.

3GPP SA1 Stage 1 service requirements are input for Stage 2 work in e.g. SA2 or other groups. 3GPP SA2 is in the process of defining study items for Release-18. 3GPP will decide on the prioritization of Release 18 features (including decisions on SA2 features) in the second half of 2021.

# 2 Actions

**To BBF**

**ACTION:** SA1 asks BBF to take the SA1 provided information into account and to provide feedback.   
SA1 would welcome it if BBF and SA2 can collaborate (similar to the WWC work) on architecture specifications for the PIRATES requirements related to residential gateway functionality.   
3GPP SA1 is also happy to provide clarifications of Stage 1 requirements to other groups working on implementation Stage 2 specifications and/or to align Stage 1 requirements with resulting Stage 2 specifications.

# 3 Dates of next TSG SA WG 1 meetings

SA1#96e 8-18 Nov 2021 Electronic Meeting

SA1#97e 21-25 Feb 2021 Poland