

3GPP TSG RAN Rel-18 workshop

RWS-210599

Electronic Meeting, June 28 - July 2, 2021

Agenda Item: 4.2

Source: Telecom Italia

Title: Email discussion summary for [RAN-R18-WS-non-eMBB-Telecom\_Italia]

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## 1 Introduction

This email discussion summary covers the following document

[1] RWS-210034, 5G-SOLUTIONS: Verticals' requirements to 3GPP RAN Rel18, Telecom Italia

The rest is structured as follows. Section 2 is used to collect questions/comments to the tdoc and Section 3 provides corresponding answers.

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## 2 Questions/Comments to RWS-210034

The contribution provides the following proposals, based on the experience of the living labs in the project 5G-SOLUTIONS

For each proposal this document provides a feedback form

### *1. Manage a mix of deterministic and non-deterministic networks*

Identify and manage a “deterministic” slice

Optimize performance of the deterministic slice taking into consideration

- a) The devices are not moving
- b) The traffic pattern is known in advance
- c) A device can support applications requiring both deterministic and non-deterministic communications

**Feedback Form 1: [1st round QA] Manage a mix of deterministic and non-deterministic networks**

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**2. Improve upload throughput**

Several use cases are UL unbalanced (upload requirements higher than download) and must operate in macro-cells with DL unbalanced frame structure

Take into account that in some scenarios UEs are not power limited (e.g., a UE embedded in a charging point is not power limited)

Take into account that in some scenarios UEs are power limited

**Feedback Form 2: [1st round QA] Improve upload throughput**

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**3. Design future proof devices**

The life cycle of UEs in the Living Labs is 5-10 years

a) The design of the UEs should be future proof to ensure the capability to operate in radio networks based on future releases (e.g., capability to upgrade over-the-air the device to a new Release)

b) The design of the UEs should be future proof to ensure the capability to operate with different Core Networks (e.g., by upgrading over-the-air the device)

**Feedback Form 3: [1st round QA] Design future proof devices**

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**4. Ensure network management in a multi-tenant environment**

a) Network management functions should be exposed via open interfaces

b) Orchestration of radio resources should be supported in a multi-tenant network (e.g., radio owned by the factory, Core owned by the public operator)

**Feedback Form 4: [1st round QA] Ensure network management in a multi-tenant environment**

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