

**Agenda Item:**

**Source:** Allgon

**Title:** The use of repeaters in UTRA

**Document For:** Discussion and Approval

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## 1 Introduction

In this document the use of repeaters in UTRA is highlighted. It is intended as a starting point for a discussion among the RAN delegates regarding the support for a repeater specification in UTRA. This issue has previously been addressed in RAN WG4 [1].

## 2 Discussion

The use of repeaters has proven to be useful for extending the coverage into buildings, train/car tunnels, subways, etc in 2<sup>nd</sup> generation systems. We therefore believe that such a product also would be useful in UTRA.

For operators without the capability of handover to 2<sup>nd</sup> generation systems, extending the coverage of UTRA will be of importance especially at the initial roll-out stage. For operators with capability of handover to 2<sup>nd</sup> generation systems, user requirements (e.g. high data rates) may not be met by those systems and extended UTRA coverage might be needed.

For the installation of repeaters in cellular networks a specification is needed in e.g. Europe due to regulatory requirements.

## 3 Proposal

In the event of support from the delegates regarding the use of repeaters in UTRA, Allgon proposes to add a repeater specification as a RAN work item for release 2000.

## 4 References

[1] 3GPP TSG RAN WG4 Tdoc 99/452