

Bandwidth Request for Distributed Systems

IEEE 802.16 Presentation Submission Template (Rev. 8.3)

Document Number:

IEEE S802.16j-07/148

Date Submitted:

2007-01-16

Source:

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Venue:

IEEE 802.16 Session #47, London, UK

Base Document:

IEEE C802.16j-07/148

Purpose:

For discussion and approval of inclusion of the proposed text into the P802.16j baseline document.

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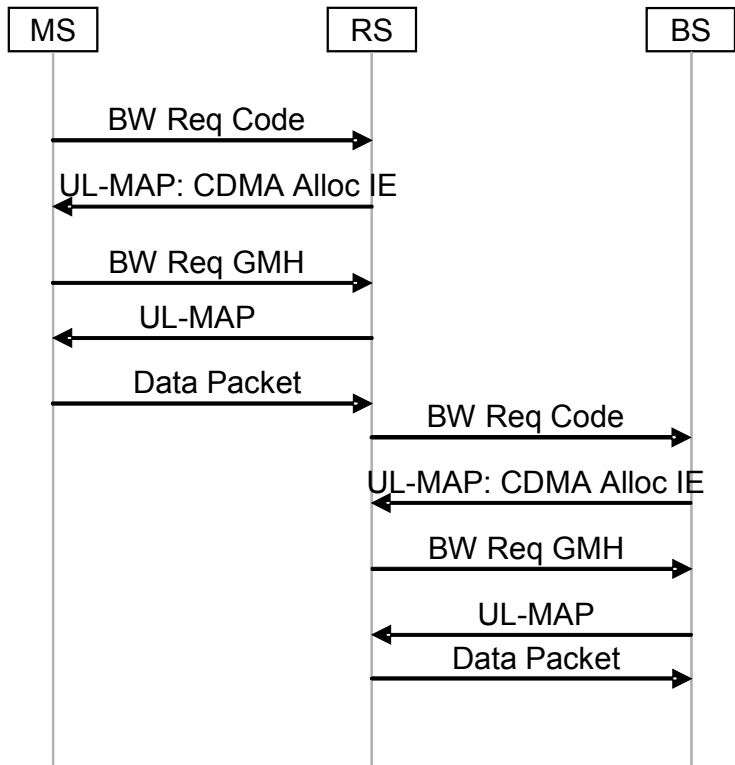
Introduction

- In distributed scheduling systems, RS is required to start to request BW on R-UL after receiving BW request code from MS in order to minimize latency.

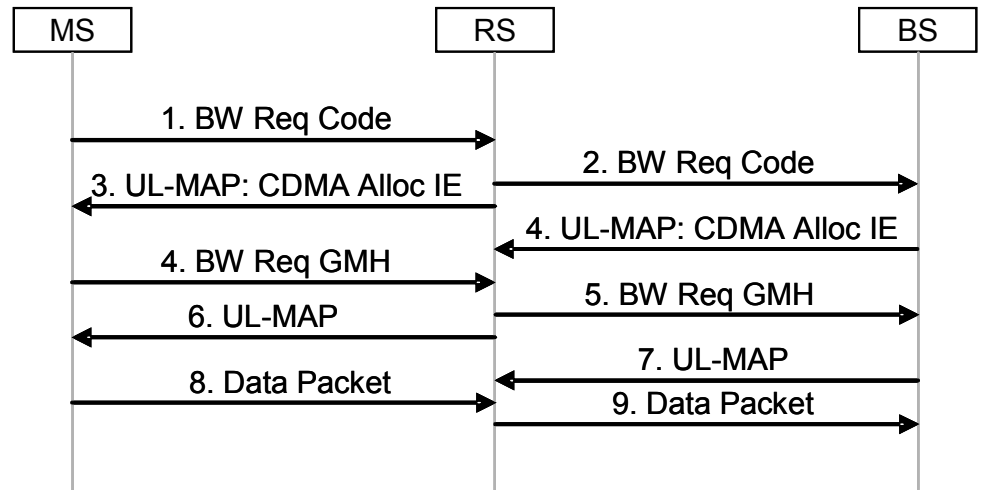
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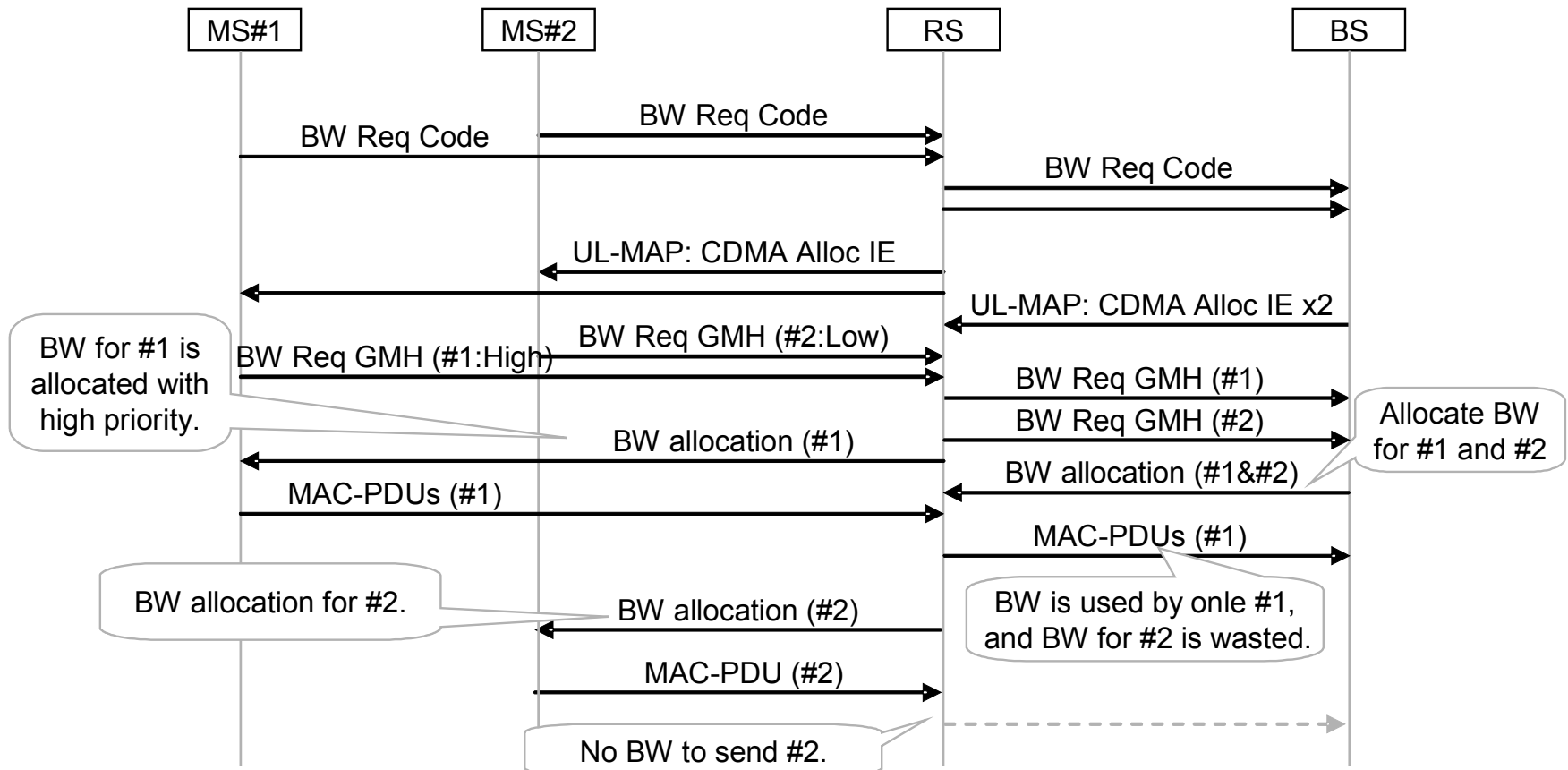
RS Starts BW request after receiving PDUs



RS Starts BW request after receiving BW Req code

Problem

- Since BW allocations on access and relay links are done individually by the RS and the MR-BS in distributed model, the BW on the R-UL could be assigned before the RS receives PDUs from the MS.



Proposed Scheme

- To prevent the timing misalignment, the RS inserts timing information in the BW request header that it transmits to its upstream MR-BS or RS. This timing information informs the MR-BS of when it expects to need the relay uplink allocation.

