

Coordinated Interference Mitigation and Handover in Femtocells

Document Number: **IEEE C80216m-09_1968**

Date Submitted: **2009-08-28**

Source:

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Samsung Electronics

Venue: **IEEE Session #63**

Base Contributions:

Re: Contribution in support of a comment on LB30

Purpose: **Discussion and Approval**

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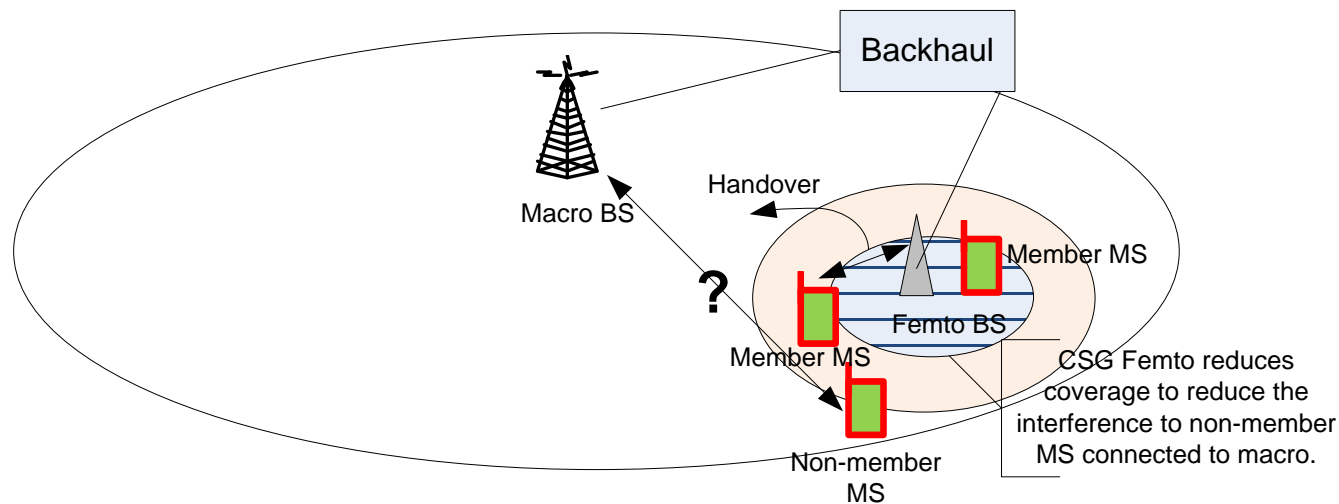
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Coordinated IM: CSG femto interfere non-member MS

- CSG femto interfere non-member MS, but non-member MS could not hand over to CSG femto
- CSG femto reduces its coverage to reduce the interference to non-member MS
- CSG femto member MS QoS may be degraded because of the resource adjustment for the purpose IM. E.g., some member MS has to hand over to other BSs.
- IM should guarantee the QoS for both member and non-member MS.
- IM for non-member MS should coordinate with the possible consequential handover of member MS.



Coordinated IM-End: non-member MS getting far away from CSG femto

- CSG Femto increases coverage if there is no non-member MS nearby. Some member MSs can be handover back from macro to femto.
- Similar coordination as IM can be performed, to guarantee the QoS for member MS to handover back to femto, avoiding a sudden interference from femto before handover back to femto.

