Title	MRS Scanning
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Abstract	This contribution describes the possibility of aligning the scanning cycles of the MSs attached to an RS.
Purpose	Review and adopt.
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MRS Scanning

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Nokia Siemens Networks

1. INTRODUCTION

In a network deployment some RSs may be configured not to transmit the R-amble. Such situation may occur, for example, when some RSs have no RSs attached to them. A MRS in this situation has no possibility to discover some of its neighbors, and may interfere with them. In order to avoid this situation, the MR-BS can align the sleep patterns of the MSs, associated with the MRS, using MR_SLP-INFO message [1], therefore allowing the possibility of RS to scan the neighborhood.

Note that the aggregated sleep duration can be chosen very small (e.g. 1 or 2 frames) while the aggregated listening window is usually very large (e.g. more than 1 sec).

References:

[1] C80216j-07_010r5, MS Sleep Mode in MR Networks, Yuefeng Zhou et. al. March 15th, 2007.

2. CHANGES TO THE SPECIFICATION

[Insert new subclause 6.3.22.4.x]

6.3.22.4.x MRS Scannning of Neighbor ISs without R-amble availability

An MR-BS may allocate sleep intervals to the MSs, associated with an MRS, for the purpose of MS sleep mode. The MR-BS informs the MRS about the sleep intervals, using MR_SLP-INFO message. The MR-BS shall align sleep intervals such that all the associated MSs of the MRS go to unavailability interval at the same time. This allows MRS to perform scanning of the neighbor ISs. This procedure is used when the ISs in a MR network do not send R-amble.