

OsmoBSC - Feature #3484

handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference

08/20/2018 12:12 PM - neels

Status:	New	Start date:	08/20/2018
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:	Handover		
Target version:			
Spec Reference:			

Description

interference scenario: [#3483](#) is about assigning more "bandwidth" by moving from TCH/H to TCH/F in case of bad rxqual, but it can also make sense to move to a different timeslot of the same TCH kind. I've taken this from the book "Performance Enhancements in a Frequency Hopping GSM Network" (Nielsen, Wigard 2002)

Chapter 8, 2.1.1 Handover in CAPACITY, page 157:

"Interference. When the averaged received signal level (AV-RXLEV) of a certain mobile station is satisfactorily high but the averaged quality (AV-RXQUAL) bad, a handover can be triggered due to interference. Typically, when triggered by the interference criteria, an intra-cell handover attempt (handover inside the own cell) is prioritised above an inter-cell attempt (handover between two cells), if frequency hopping is not being used."

It's not entirely clear to me how interference is reduced by moving to a different timeslot, maybe due to another MS close by with timing jittering into neighboring time slots? All I know so far is above quote.

History

#1 - 08/20/2018 06:05 PM - neels

- Tracker changed from Bug to Feature

#2 - 10/16/2018 01:30 PM - neels

- Category set to Handover