

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	
<p>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)</p> <p>Chapter 8, 2.1.1 Handover in CAPACITY, page 157:</p> <p>"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."</p> <p>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.</p>	

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*