8.8.1 CDMA Uplink capacity finding

In CDMA uplink, the capacity is found by gradually filling system with users until a certain average noise rise with the specified threshold noise rise is reached. The Noise rise is measured as the linear average of dB values – across all 19/57 base-stations. After every trial SEAMCAT calculates the average noise rise over the total number of trials and if this value is above the threshold restarts the simulation with a lower value of users per cell.

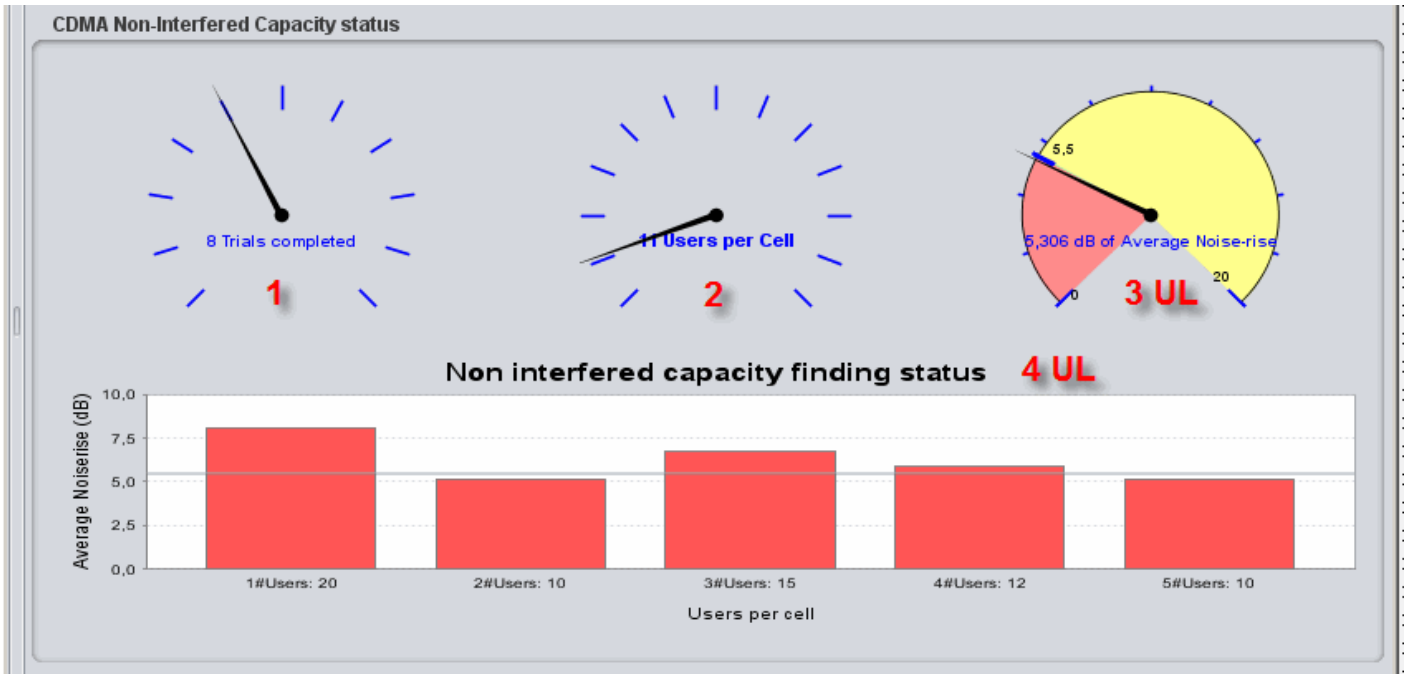

Figure 197: Uplink non-interfered capacity finding

Table 32: Elements of the uplink non-interfered capacity finding screen

ID	Description
1	This dial indicates the number of trials completed with the current capacity. This dial will range from 0 to the number of trials entered as value “4” on Figure 191.
2	This dial indicates the current number of users being tested. Range is dynamic and the dial is mainly intended as an easy visual indicator of values being tested.

3 UL	The needle shows the current value of average noise rise across the trials run. The red area indicates the noise rise is too low (too few users in the system) – the green area is the target noise rise (plus/minus) the tolerance specified. The yellow area indicates the average noise rise is too high (too many users in the system).
4 UL	The bar chart gives information on previous values tested. The Y axis is the average noise rise and the X axis is the number of users per cell being tested.

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