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Aim: - To understand the handover mechanism

objective: To study the effect of handover threshold and margin on SNR and call drop Probability and handover Probability

Prerequisite:-

operating system - window 7

Java version - 6 only

Mozilla firefox - version: 47.0.1

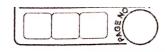
link to download software: https://doive.google.com/ uc. lid = OB9mneu43VidckfVJ/nenpJRGS & export =download.

Theory:

Handoff

consider the fig. below initially say the mobile mis quite close to base station A and hence receives signal strength from A PAXX > PBXX · As mobile move away from base station. A and goes towards B then Signal strength from A keep falling. Let there be minimum sensibility level poxxo for the mobile of the signal from the B·s to which the mobile is connected falls below poxxo then the call doop In order to prevent call mobile monitor receive signal strength from the neighboring 3-6 B·s.

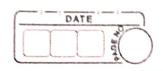
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These neighboring B-6. B. 5 also monitor Rx Signal strength from M.S.

The mbbile should get connected to B.S which has highest signal strength. However if M.S continuously attaches itself to B.S with instantan eous height signal strength then his rate may every high server condition. Thus some hystenis condition is used for h.IF PTrr. (T= Target B.S)> Phrxh higher his threshold and - Pcrx-cc= current B.S) < phrxh minimum his threshold the execute his to B.S ST from B.SC. Thus it is threshold impeditive to study in part of the hand off Process.

08 = Phxx - Plxx0 = h



Instruction:

follow the instruction given below to perform experiments

1) sturting the experiments

step 1 - click on START button to start expt

step2 - Enter your name then click on button

step 3 - Select the parameters

Step 4 - click on START button and observe no of calldoops & No. of handoffs.

step 5 - Enteryour observation in observation box & click on SUBMIT button.

step 6 - Finally click on Report to generate PDF report of the expt.

Step 7 - After PDF report generation you will get following message

Step 8 - PDF report will appear like this

stepg - To redo expt dick on RESET button

conclusion -

The handouer mechanism is a critical aspecof mobile communication hetwork, enabling smooth transitions bett different cell or base station as mobile device move which the network coverage area.