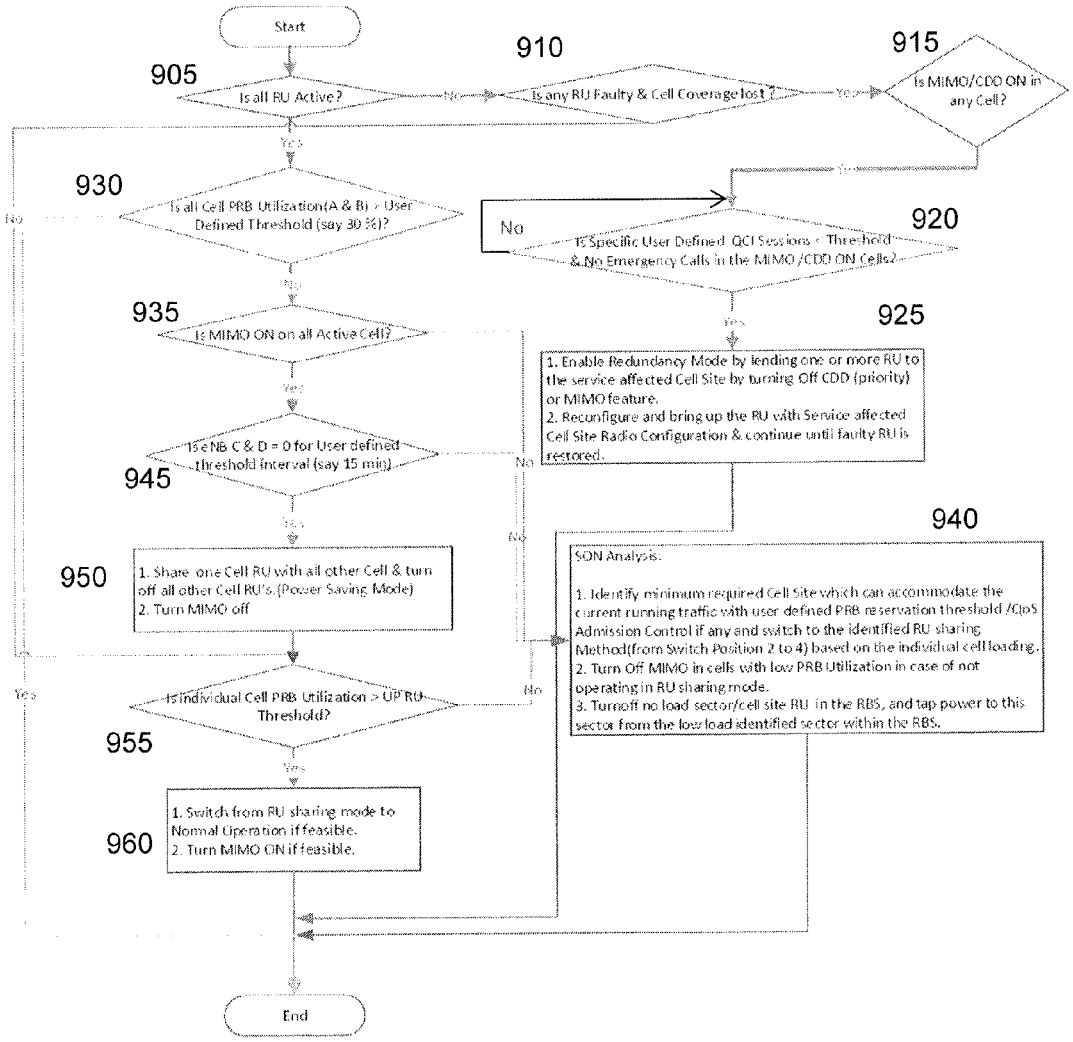
Figure 9


Start
905
Is all RU Active?
No
910
Is any RU Faulty & Cell Coverage lost ?
Yes
915
Is MIMO/CDD ON in any Cell?
Yes
930
Is all Cell PRB Utilization(A & B) > User Defined Threshold (say 30 %)?
No
No
920
Is Specific User Defined QCI Sessions < Threshold & No Emergency Calls in the MIMO /CDD ON Cells?
935
Is MIMO ON on all Active Cell?
Yes
925
1. Enable Redundancy Mode by lending one or more RU to the service affected Cell Site by turning Off CDD (priority) or MIMO feature.
2. Reconfigure and bring up the RU with Service affected Cell Site Radio Configuration & continue until faulty RU is restored.
Is eNB C & D = 0 for User defined threshold interval (say 15 min)
945
No
940
950
1. Share one Cell RU with all other Cell & turn off all other Cell RU's. (Power Saving Mode)
2. Turn MIMO off
SON Analysis:
1. Identify minimum required Cell Site which can accommodate the current running traffic with user defined PRB reservation threshold /CloS Admission Control if any and switch to the identified RU sharing Method(from Switch Position 2 to 4) based on the individual cell loading.
2. Turn Off MIMO in cells with low PRB Utilization in case of not operating in RU sharing mode.
3. Turnoff no load sector/cell site RU in the RBS, and tap power to this sector from the low load identified sector within the RBS.
Yes
Is individual Cell PRB Utilization > UP RU Threshold?
No
955
Yes
960
1. Switch from RU sharing mode to Normal Operation if feasible.
2. Turn MIMO ON if feasible.
End