

ASSIGNMENT IV

INTEGRATED SCENARIO

1. Create a new scenario (*SGF/integrated*) that extends the *SGF/mpls* scenario with an IEEE 802.15.4 FAN, where Distribution Automation EIDS send their measurements to a DCC located in a remote site. The scenario characteristics are the following:
 - The IEEE802.15.4 router is connected to *LSR2* through a PPP link of 600 kbit/s.
 - The DCC is connected to *LSR7* through another PPP link of 600 kbit/s.
 - The MPLS path for traffic coming from the IEEE 802.15.4 network is *LSR2-LSR4-LSR3-LSR7*.
 - The priority of traffic coming from the IEEE 802.15.4 network is intermediate between the traffic towards *host3* and *host4*.
 - The data rate reserved for traffic coming from the IEEE 802.15.4 network is 4000 kbit/s.
 - IEEE 802.15.4 nodes are variable in number, and should be deployed in a circle of radius 50m around the IEEE 802.15.4 router (*CircleMobility* should be used).
 - IEEE 802.15.4 sensors transmit at a rate of one message each 0.3s; message size is 40 bytes; starting transmission times are randomized within each interval of 0.3s.
 - There are no dynamic changes to the MPLS paths established in the beginning.