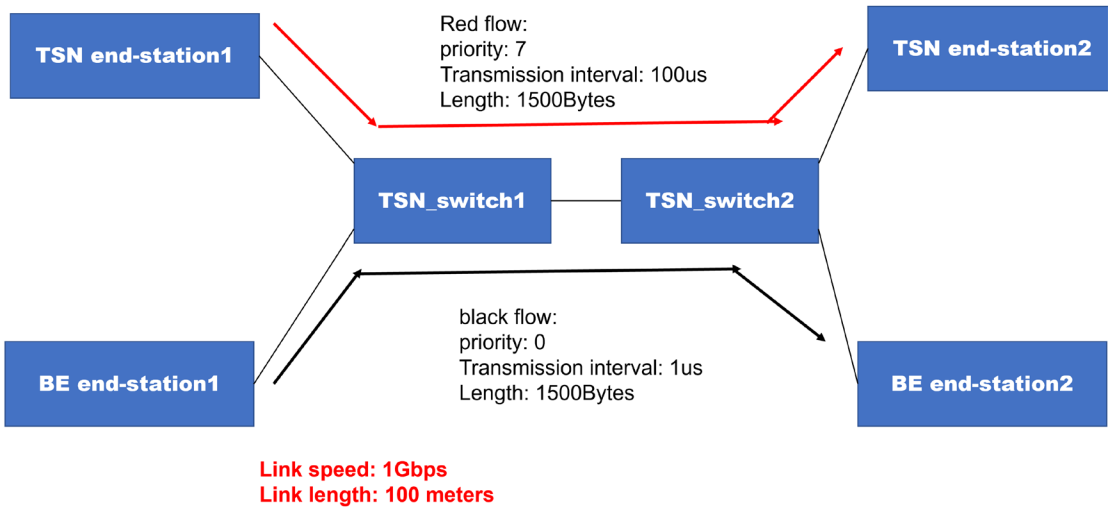
## Scenario #1: This is as same as the project #2 requirement of Task4.

The simulation scenario should be established as below:




The GCL should be configured for the egress of TSN_swtich1, which is connected to the TSN_switch2.

The GCL content is: The units (nanoseconds, ns) should be omitted.

---

01111 1111, 8500ns

0000 0000, 12240ns

1000 0000, 12336ns

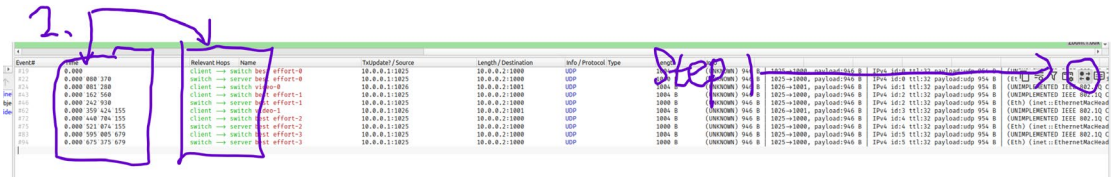
01111 1111, 66924ns

---

Hyper-period = 8500 + 12240 + 12336 + 66924 = 100 us, which is equal to the transmission interval of red flow.

Two key-indicators should be achieved:

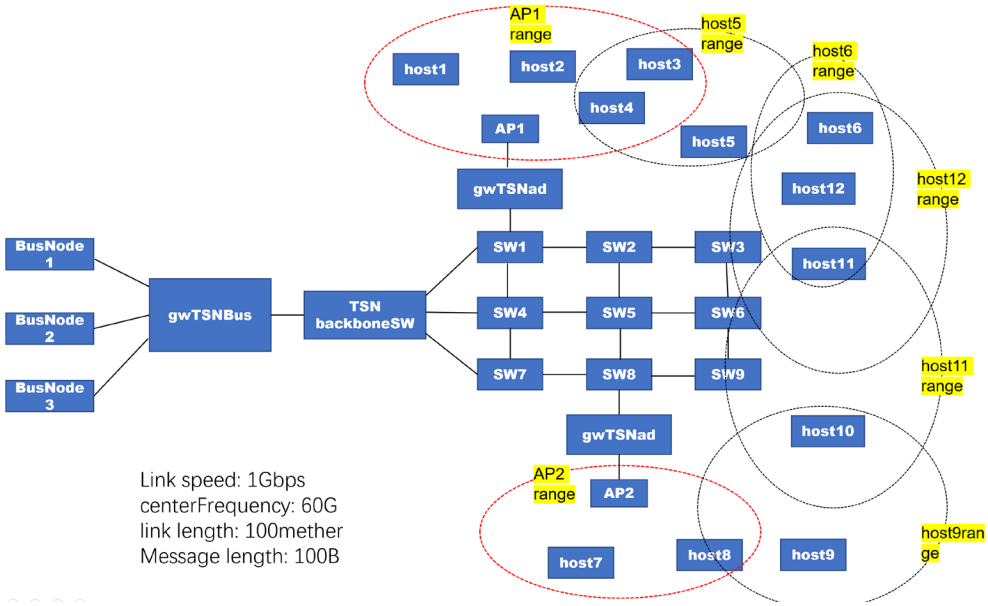
1. Observing the window of the simulation (the figure is an example), the red stream should be sent from TSN_switch1 to TSN_switch2 at moment 20.74us.



2. The end-to-end delay of red flow should be a line, without any jitter.

## Scenario #2:

## Topology:




## Flow specifications:

| Source | Destination | Transmission interval | Priority |
|---|---|---|---|
| BusNode1 | Host7 | 15ms | 5 |
| BusNode1 | Host10 | 10ms | 6 |
| BusNode2 | Host6 | 20ms | 5 |
| BusNode2 | Host11 | 15ms | 5 |
| BusNode3 | Host5 | 5ms | 7 |
| Host9 | BusNode1 | 10ms | 6 |
| Host11 | BusNode2 | 10ms | 6 |
| Host6 | BusNode3 | 5ms | 7 |

You should do:

1. utilize the above parameters to calculate routes and GCLs (offline routing and scheduling).
2. Configure the simulation by using the outputs from 1.
3. Edit the omnetpp.ini and .ned file, and execute the simulation.
4. Finally, get the simulation results.