The simulation of network structures can be an effective method for example in teaching, research, or testing the network software, in order to lower the cost of building the real network structure that would be otherwise needed. Moreover, the simulated network can

provide some advantages, e.g. simplified control and monitoring, statistical data collecting or visualization of the network behavior.

This work focuses on the usage for teaching and testing; illustrates that existing network simulators are not always suitable for this purpose, suggests the architecture and design of a new solution, and offers implementation of the proposed simulation tool.