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**Comparative Analysis & Implementation of Static & Dynamic Wired
Network using NS2 with NAM, Xgraph, Gnuplot Utility**

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Abstract:

These days Communication assumes crucial part in different aspects of person life as it gives the data of new innovation, advancements, research happening all over the world. All important sectors like government, corporate, education, entertainment etc are moving on online platform. Also there is huge rise in concept of work from home, online shopping, e-commerce, online banking etc. In today's world, use of computer network and its components have been increased tremendously. We now have the ability to communicate and retrieve data thanks to the Internet, which has also had a big impact on how we work and live.

In this paper we have implemented static and dynamic wired networks designed with different node scenario and topologies along with NAM, Xgraph & Gnuplot utility of NS2.35.

Key words: *NS2-Network Simulator Version 2, NAM- Network Animation, XGRAPH, GNUPLOT, DV-Distance Vector Routing.*

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