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## An Asynchronous Loom for a Router Node in Noc Scheme to Enhance the QoS Mechanism

Dr.V. Balaji

**Abstract** - In contemporary IC technology, the Network on chip (NOC) replaces the busses and the stanch interconnects. A proficient router is nothing but to select anunswerving path between the sources to destination in a network. The major gears of a NOC node as a router are nothing but the switches, which transmits the data from one place to another and the Network Interface (NI), provides afrontier between the network nodes. In this paper, we proposed a design of a novel package for a network node with asynchronous communication to/from the synchronous modules. This dedicated design includes transmitter and receiver communication ports, Four-phase Handshake protocol and asynthesized synchronizer. This design has been bear out with VHDL code and simulated in modelsim. We believe in that, which provides a reliable asynchronous communication services out of the ordinary clock subsystems.