

"VoIP –Voice over Internet Protocol (VoIP) – technology enables one to make and receive phone calls through Internet instead of using the traditional analog PSTN (Public Switched Telephone Network) lines. This is a developing field of communication in recent times. In this technology when a user is connected through Internet Protocol (IP) and the voice is carried over the Internet. The advantages of using this technology are very low call rates, high performance and large coverage area. This paper is a simulation of VoIP in MATLAB. The main blocks of this simulation are Media Module, Signaling Module and IP stack. For example, The codec G.711 is already available in MATLAB so that block can be directly used in simulation but there is no provision of IP stack of H.323 in Simulink. So Design and building an IP stack based on H.323 is required. Once the high-level block diagram is prepared, they are further explored and simulated. Once the simulation of individual blocks is done, then integration of the blocks will enable to complete the simulation of VoIP. "