The multiplex telephony system has been under development for the past several years, and is now in the final stages of testing. It is based on the principle of transmitting a number of telephone conversations simultaneously over a single wire circuit. The system is designed to provide a high degree of clarity and fidelity in the transmission of speech, and to offer a great improvement over the present methods of telephone communication.

In the multiplex telephony system, each of the telephone conversations is transmitted as a separate electrical signal, called a "channel." These channels are combined in a single electrical signal, which is transmitted over the circuit. The receiving end of the circuit has a special device called a demultiplexer, which separates the individual channels from the combined signal.

The multiplex telephony system is particularly suited for use in areas where there is a high demand for telephone service, but where the cost of installing separate circuits would be prohibitive. It can be used to provide telephone service to residential, commercial, and industrial areas.

The multiplex telephony system is currently being tested in several locations, and is expected to be in widespread use within the next few years.