

ABSTRACTION

Voice over Internet Protokol is one of voice transmission technology which send the voice by packetize the voice and then transmitted by Internet Protocol. The demands of user who wants to use this technology are growing rapidly because compared to its predecessor, the circuit switch or TDM switch, it offer superiority for efficient bandwidth use, cheaper and globalized infrastructure (IP network) and switching technology, which not monopolized by only one telecommunication equipment vendors. For that, there are two dominant signalling protocol which becoming the basic for the VoIP, they are H.323 and SIP with their own characteristic. H.323 was recommended by ITU-T has charscrtistic to be carrier centric which signalling protocol was adopted from conventional telephony technology, PSTN/ISDN. While SIP was developed by IETF which have characteristic to be user centric which signalling protocol was adopted from internet protocol like HTTP or SMTP.

These two basic signalling protocol has problem for their interoperability, they cannot communicate if they connected directly. By that, this final assignment tries to examine these problems and solved it by giving a “bridge” between them. This “bridge” called Session Border Controller technology.

This final assignment would examine the interworking by simulation method which build by Delphi. The simulation would modelled the interworking between SIP and H.323 and their gateway which is Session Border Controller technology for getting an optimal connection between them.

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