# DESIGN AND IMPLEMENTATION VOIP SERVICE ON OPEN IMS AND ASTERISK SERVERS INTERCONNECTED THROUGH ENUM SERVER – Voip and IMS

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## Good document about VOIP telephony systems

Interconnection and convergence among PSTN, PLMN and data network are expected to
develop very powerful system; this system will provide PSTN services, mobility, PLMN
features and internet-based application. This convergence will support multimedia service with
adequate bandwidth and high mobility. The IMS technology is resulted from combination of
multimedia, mobile and IP concepts in order to complete the NGN technology [3,4].
.IMS acts as a standard platform for multimedia service through IP/SIP protocol with which it is
possible for the operator to use one's platform for many multimedia service. IMS is a part of
arhitecture standard of Next Generation Network (NGN). Services for fixed, mobile and wireless

networks can be operated through IMS platform with IP based service and supported by SIP protocol [1,5].

.Originally, IMS is developed for telephone connection in mobile network, but together with TISPAN release-7, it is also has the possibility for fixed network, resulting term Fixed-Mobile Convergence (FMC) which is a key industries trend in 2005 [5]. Software based on NGN architecture has been developed today. OpenIMS is constitute of the software based on IMS architecture; it has the capability for various multimedia features.On the other hand, Asterisk is a software based on softswitch architecture which is capable to connect packet network and circuit network. With those both software, we can build a simple NGN technology with lower cost investment.
To demonstrate the above cases, we design and implement a VoIP service, using the above software, with the aid of Enum server which the function is to mapping the number among servers.

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