**Jainarine Singh**

**Enterprise Network Management**

Network Management is a very demanding task that covers all aspect of the network which may include security, monitoring, planning, topology mapping, analysis of network performance, etc. As Internet and IP demands get increasingly higher, different companies are striving to reach this demand but as the article by Richard Grigonis shows that the solutions aren’t always effective.

The cognitive net article by Antonio paints a picture of how aging our internet infrastructures are. Companies such as eTelemetry, Netcordia, Qovia tries to provides different solutions to bring our again network up to speed. These solutions may have questionable results however. When it comes to VOIP which is a real time application, new management techniques are required. Many network administrators still have the false idea that they can still apply their existing tools and techniques to managed IP telephony deployment. The way packets switching operate causes problem for VOIP because it breaks a voice call into different packets and reassembles it at the end which may encounter delays and errors.

It is evident that we are not yet close to developing fully automated system that Antonio proposed in the cognitive net article but network management functionalities are almost there. If we offload some of these demanding tasks to third part vendors, network management might be manageable to some extent. Then again as networks become more complex and demanding, the ability to operate and maintain networks efficiently will become more daunting than ever to the point where we may have to truly turn to the idea of what was proposed in the cognitive net in which everything is automated.