

SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)  
Mobile Satellite Communications and Navigation Technology (2)

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## 5G NETWORK- STUDY AND CURRENT STATUS

**Abstract**

With the 4G telecommunications systems now starting to be deployed, eyes are looking towards the development of 5th generation or 5G technology and services. Although the deployment of any wireless or cellular system takes many years. The new 5G technologies will need to be chosen developed and perfected to enable timely and reliable deployment. The current status of the 5G technology for cellular systems is very much in the early development stages. Very many companies are looking into the technologies that could be used to become part of the system. In addition to this the standards bodies, particularly 3GPP are aware of the development but are not actively planning the 5G systems yet. Many of the technologies to be used for 5G will start to appear in the systems used for 4G and then as the new 5G cellular system starts to formulate in a more concrete manner, they will be incorporated into the new 5G cellular system. Many concepts are in use at that time like pervasive networks, group cooperative relay, cognitive radio technology, smart antennas etc. There are many more things which will come up in future as we go closer to this technology.