

What the Communication Technology Is Aiming At?

Voice communication for both national and international calls will be cost-effective through mobile applications have been developed recently. How this will impact the revenue of the operators is yet to be seen.

Hardly any sector has witnessed fast changes taking place than the communication technology especially since last decade of the last century. Voice communication took a great leap forward with the advent of digital technology and later through mobile communication. However, very soon it became clear that data is going to occupy a major space in communication technology. Vehicle of technological development did not stop there and soon data and voice communication started merging on the same platform with the use of smart communication devices.

Two scenarios have emerged wherein data transfer through Internet and voice communication through wireline or wireless link have become extremely popular.

With the use of data communication through smart hand-held devices outdoor is becoming very popular but still for bulk transfer of data-OFC-based link has to be relied upon.

This made a difference between indoor use of communication link vis-à-vis the use of communication link in public domain. Presently, public domain communication links whether for voice or data are using the expensive resource spectrum. This can be assessed from the fact that this fetched around ₹10 lakh crore for Government of India through the auction of spectrum for 3G-4G held recently.

In spite of the speed and volume, efficiency of data transfers outdoor decreases with the increase in the number of users outdoor. This bottleneck has given rise to a new approach – outdoor communication for data being established through installing WiFi hotspot out door, which can be used for data communication by the subscriber. A large number of service providers have already started their work in this direction.



Pramod Kumar
Vice President-Technical,
Savitri Telecom Services

Thus, the boundary between indoor use of data communication and the use in public domain is looking blurred.

Users are connected to their own WiFi network while indoor and through outdoor WiFi network on moving out, especially within commercially important cities.

Such WiFi access will be provided through ISM (industrial, scientific, and medical) band, which is a free band available and will not use paid spectrum resource.

This will reduce the load of 3G-4G spectrum uses and improve quality for users of both the domains.

But there is a rider for use of this facility. This being a free facility for the operators a proper coordination will be required between the operators and service providers so that the same slot is not used by them to avoid any interference.

Further, new mobile applications have been developed which are available to the user free of cost including Skype, Viber, and WhatsApp that facilitates the user to use them for data and voice both. How this will impact the revenue of the operators is yet to be seen as voice communication for both national and international calls will be cost-effective through these means. ■