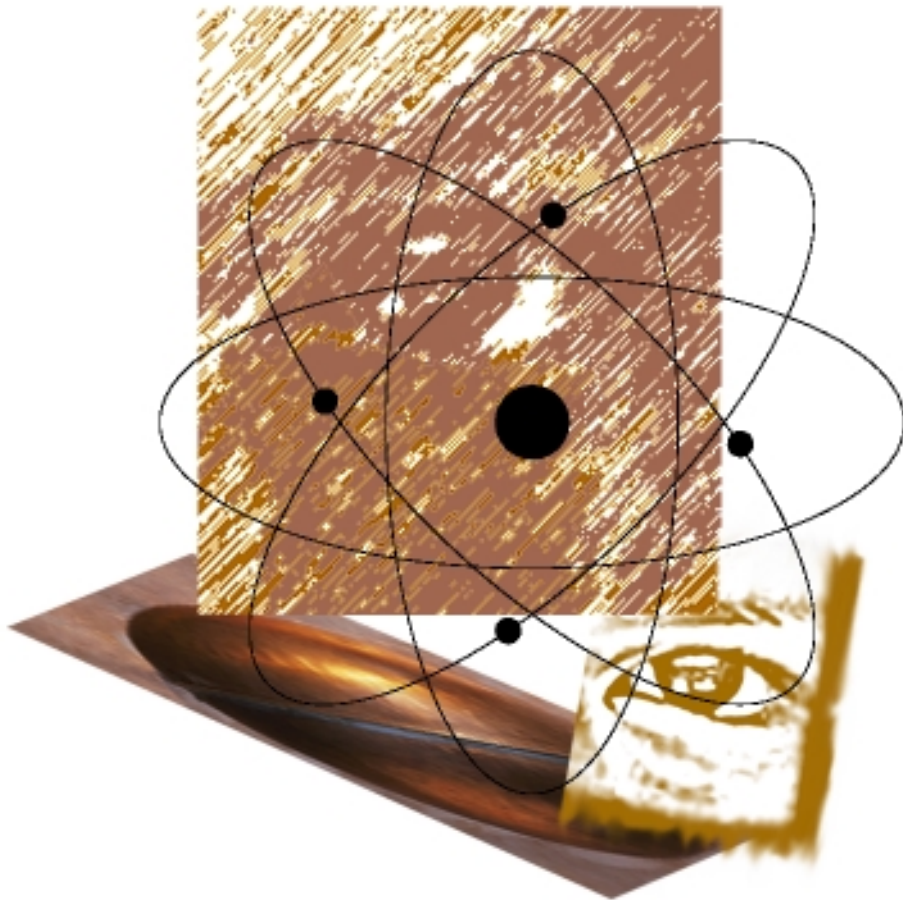




Ellipsis Communication Corporation™



Revolutionizing Broadband Wireless Access...

Legacy

Historically, telecommunication infrastructure was closely related to the nature of services offered, often requiring separate, dedicated media for each service. Current trend is to provide common solutions for convergent technologies.

The concept of a single system, capable of transferring any form of information, is common at the core of the network, where information flows at extraordinary rates through equipment powerful enough to satisfy requirements for large throughput and low latency in any combination.

The edge of the network has proven to fall largely behind, mainly due to the vastness of legacy access infrastructure, simply unsuitable for new solutions commonly used at the core. Viable wired access technology has to leverage that existing infrastructure, and provide new services without altering existing ones. Unfortunately, current technology does not provide a satisfactory answer to the problem; it is either geographically confined, such as the Digital Subscriber Line systems, or suffers from lack of bandwidth management, leading to poor performance and lack of security, like cable modems.

The concept of a wireless solution which overlays on top of existing legacy networks is attractive from the point of view of infrastructure that is both cost-effective and rapidly deployable. Solutions currently available usually do not scale, and often present the same problems as cable modem technology.

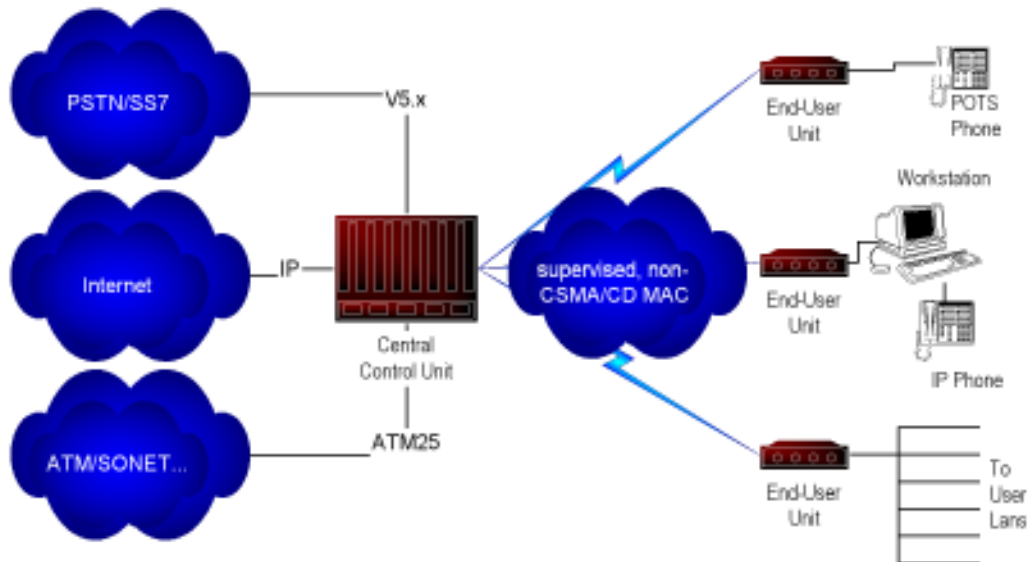


Vision

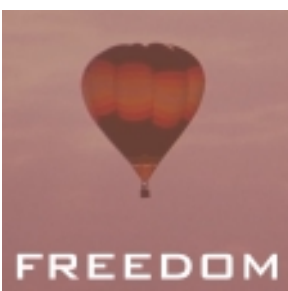
Our vision is a cost-effective, predictable access system, which

- Is RF-based, to leverage the advantage of fast and cost-effective infrastructure deployment,
- Does not merely adapt an existing wired technology, e.g., IEEE 802.11, which is not scalable to large number of nodes, but rather
- Presents an innovative, system-level solution that recognizes media-specific characteristics.

This system consists of a point-to-multipoint wireless network, with one controlling station that acts as a common gateway for all the other nodes. The central station concentrates and controls all of the traffic in the system, and arbitrates the RF access of all the other stations.



Broadband
Access
Anywhere...



Solution

The heart of our solution is an embedded, distributed software application that monitors traffic throughput and user Quality of Service demand, and dynamically adjusts the allocation of the bandwidth. As a result, the system's throughput and latency continuously adapt to satisfy user requirements.

Our technology is unique and provides for:

- Dynamic bandwidth allocation with QoS,
- Support for asynchronous through isochronous application demand,
- Centralized traffic and statistics measurements, allowing for accurate per-packet billing, network performance measurements, demographic information, etc.,
- Ubiquitous network management, supporting unique features such as banner ads and push technology.





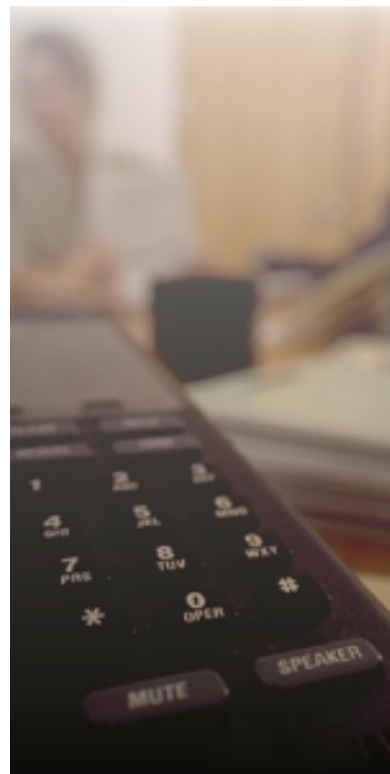
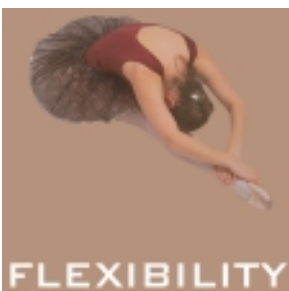
Value

To the user our solution is totally transparent, and manifests itself only through impressive throughput and very low latency.

To the access provider our solution presents itself as a reliable and cost-effective broadband infrastructure, which autonomously adapts to changes in the nature of the traffic, and utilizes available bandwidth in the most efficient way possible.

The service provider benefits from the open architecture of the nodes, which enables efficient content distribution.

Dynamic
Bandwidth
Management...



Application



Our solution is an enabling technology that seamlessly integrates with any RF-base Media Access Controller, at any frequency. It is applicable to any type of traffic, and can interconnect to any interface, including legacy network standards (e.g., T1/E1, DS-3, OC-3) as well as emerging technologies (i.e., Digital Subscriber Line, Asynchronous Transfer Mode, Synchronous Optical Network/Synchronous Digital Hierarchy).

We targeted the initial product to support connectivity to Internet Protocol networks using an Ethernet (IEEE 802.3) interface, enabling full range of data, voice, and video services that are delivered using devices and software applications that rely on Internet Protocol communication.



Ellipsis

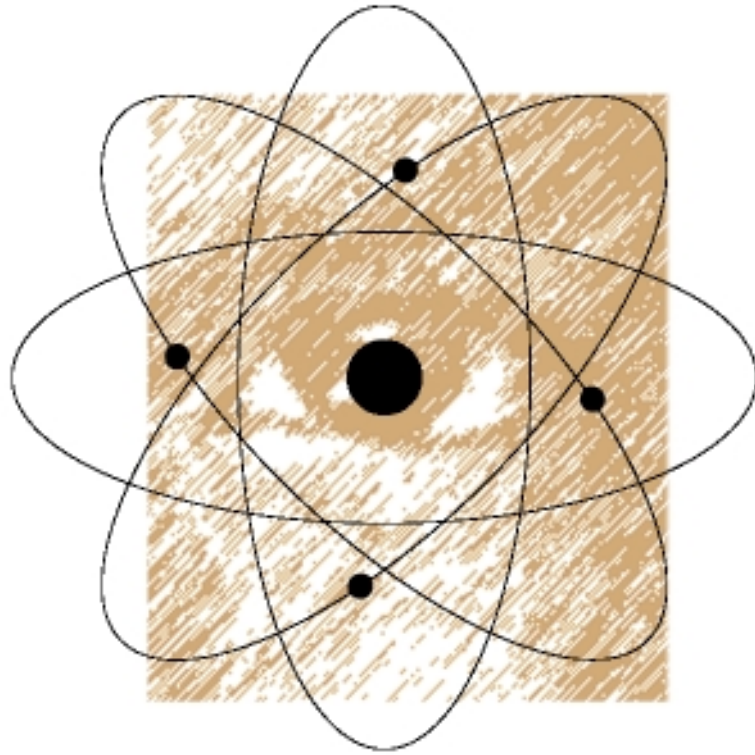
Ellipsis Communication Corporation is emerging as key player in development of Broadband Wireless Access systems in the Telecom Valley of Northern California. Our close proximity to Silicon Valley has enabled us to have a deep understanding of the current status of technology in this arena, and the vision of where this technology and the demand for it will be in the short and long term.

We have established strategic partnership with other companies focusing in this paradigm. Strength of Ellipsis is the technical expertise in cutting edge system design and development, specifically in the telecom and datacom industry. Our success is assured by rapid integration of existing and emerging technologies.

Seamless
integration of
voice, data and
video...



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