



207 Tremont Street

Rochester, New York 14608

www.nexusisr.com

Concept Commentary

Mobile Professional Workgroups



Introduction

The Nexus Hawk™ brings highly secure, highly reliable voice, video

and data communication to the Anytime, Anywhere and Mobility work force and service provider market. The Nexus Hawk is a secure wireless “connector” that allows mobile, portable and remotely located users to enjoy the same communication benefits that more traditionally cabled users have enjoyed for decades.

The Concept

Recent advances in mobile wireless communication technology make it possible to offer back-to-home-base connectivity to **mobile workgroups of professional staff** such as **Auditors, Project Managers, Consultants** and **Researchers**. The concept can be extended to include larger audiences, such as **trade shows** and **conferences**, where back-to-home-base connectivity options are scarce or are of poor quality.

This Concept Commentary is designed to uncover new, innovative and cost-effective ways in which the Nexus Hawk can be used by this sector. Two seemingly contradictory yet quite complimentary solutions include: (1) *providing secure access while the work group is in a public environment* and (2) *providing public access to outsiders, when they are within your secured environment*.

The Special Needs of the Mobile Professional Workgroup

While a “standard” solution of placing a mobile data card in a laptop may suffice for an individual auditor or consultant, the needs of a *mobile workgroup* of such staff is quite different. It is difficult to share a single data card connection to the home-based network under such circumstances.

Add to this, the possible need to have a shared network printer or common local (to the field-deployed users) network storage volume and the mobile professional workforce is faced with a significant challenge.

The Nexus Hawk is . . .

... a highly secure, portable/mobile, multi-network gateway and access point that can provide connectivity and Internet service to its users.

Secure Access in Public Locations

The Nexus Hawk allows the mobile workgroup to act as a workgroup, sharing network resources (network printers, file servers, etc.) at full speed, while connecting that workgroup to the home-based network – potentially, all wirelessly. A standard cellular data card provides the workgroup with access to the Internet while built-in Wi-Fi (802.11 a/b/g) acts as a hub, connecting the workgroups laptops, peripherals and Wi-Fi IP telephones together in electronic collaboration! Using a multi-layer “defense in depth” strategy, all communication (even the wireless Wi-Fi) is encrypted and fully secure. No longer must such field-deployed staff rely on others!



Public Access in Secure Facilities

What if it is your secure facility in which a 3rd party workgroup of staff must work? The Nexus Hawk can help there, too. By deploying a Nexus Hawk to the workgroup, you assure that their equipment both functions as expected and remains segregated from your network! Even without a cellular data card, IT managers can configure the Nexus Hawk as a DHCP and NAT server, assign a segregated IP address to the Nexus Hawk and allow it to pass through their firewall – creating an isolated “mini LAN” for their visitors and likewise shielding their production network from their activity.

-end

Author: Evhen Tupis, Director of Engineering