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## Concept Commentary

# Public and Mass Transit Applications



### 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 Public and Mass Transit patrons enhanced personal security and productivity while providing transportation organizations with more marketing and management options.

This Concept Commentary is designed to uncover new, innovative and cost-effective ways in which the Nexus Hawk can be used by this sector. Some of these ways include: (1) providing secure Internet access to patrons while in-transit, (2) providing both an in-vehicle video archive and external video feed for public safety use as well as (3) providing GPS-based location services back to a central asset-control center.

### Increasing Ridership through Marketing Your Uniqueness

If your potential patrons are free to choose which mode of transportation to take, make yours stand out from the competition!

A Nexus Hawk is capable of serving Wi-Fi Internet in a mobile environment. You may already market gasoline or parking-fee savings to entice patrons. Imagine being able to advertise Wi-Fi Internet access to

them as well! Business people and vacationers could stay connected and productive while in-transit.

The Nexus Hawk can be used in buses, trains, taxis, shuttles and watercraft.

### **Enhanced Patron Security**

When connected to a digital video camera, the Nexus Hawk can be used to provide low-bandwidth video streams to a central dispatch center while an on-board video recorder saves a high-resolution version for later playback.

The Nexus Hawk can also be configured to provide wireless, **secure**, real-time, high-resolution video to police, fire, ambulance or other authorized agency vehicle. This allows officials to better and more accurately assess circumstances as they approach.



### **GPS-based Vehicle Location**

The Nexus Hawk can report industry-standard GPS position information, if purchased with the optional internal GPS module. It can even interface with other systems that use non-standard data formats, thanks to a middleware module called the *Nexus Datadapter*<sup>™</sup>.

### **Interoperable and Expandable Engineering**

The United States Department of Homeland Security has directed that communication systems become interoperable. No longer can technology be a barrier to interoperations. The Nexus Hawk uses existing technologies in very standard ways, allowing highly secure and properly authenticated connections between disparate organizations – to the degree allowed by human policy.

The Nexus Hawk is your solution, if you need an agile, mobile...

- Wi-Fi Hotspot to serve any combination of secure staff or transient patrons
- video streaming appliance that is highly secure and capable of both thumbnail streams to distant locations and full motion high definition streams to authorized personnel within 200 feet
- yet map trackable, using GPS technology
- connectivity solution that will work locally, regionally or nationally – without the problems of maintaining a specialized or proprietary system

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