



### **DataWind's Breakthrough Technology: Wireless Internet Delivery Platform**

The WebViewer utilizes DataWind's Wireless Internet Service to deliver the real web, anytime and anywhere. DataWind's Wireless Internet Service is currently available at a monthly charge of \$9.95 for unlimited usage. This fee does not include network airtime charges, which needs to be paid separately to your wireless carrier.

Based on 21 patents, DataWind's breakthrough technology accelerates the delivery of web-content across wireless networks by factors of up to 30X, and reduces data consumption by similar margins. This is accomplished through the use of proprietary algorithms resident on DataWind's special Application Servers that operate as a gateway between the primary (Internet based) content server selected by the user (for example, a server that serves Yahoo pages and embedded links) and the end user.

The WebViewer, uses the cell-phone as a cellular modem to connect to the DataWind Internet Service (where the Application Server resides). The connection to the Application Server can be either on a Circuit Switched (GSM or CDMA) direct-dial call to a modem pool, or on a Packet Based (GPRS or 1X) network, through an IP address allocated by the Application Server.

Traditionally wireless networks have been limited to 9.8kbps per channel, but after error correction, and accounting for interference, signal strength and other such factors, they rarely deliver better than 6 or 7kbps consistent throughput. The next generation networks offer 'packetized' connections, whereby offering multiples of channels theoretically increases the bandwidth proportionally. In our tests, most GPRS networks do not consistently deliver better than 15kbps, and most CDMA-1XRTT networks do not consistently deliver better than 25kbps. With average web page sizes ranging from 200kB to 800kB, the delivery of the page can range from 40 seconds to 120 seconds. While operating on the same networks, DataWind's Wireless-Internet-Service accelerates the delivery of that page, so that it loads on the WebViewer in as little as 5 to 7 seconds.

As carriers shift to next-generation networks, the cost to be the carrier, and the enduser shifts from the amount of time spent online, to the amount of data consumed (i.e. the charges are by 'packets' instead of 'minutes'). Tests have shown that an average 900 minutes of usage in a month, generated 21MB in data downloaded across the WebViewer, compared to 131MB using a wireless-card and a laptop. For the carrier, on who's network the tests were performed, the 21MB of data consumption cost \$29, while the 131 MB cost \$79. The WebViewer utilizing DataWind's breakthrough Internet service helped provide a \$50 saving in data consumption costs.

DataWind's Wireless Internet Service provides, not only a faster and richer user experience but helps reduce both the cost of the client device and data consumption costs.

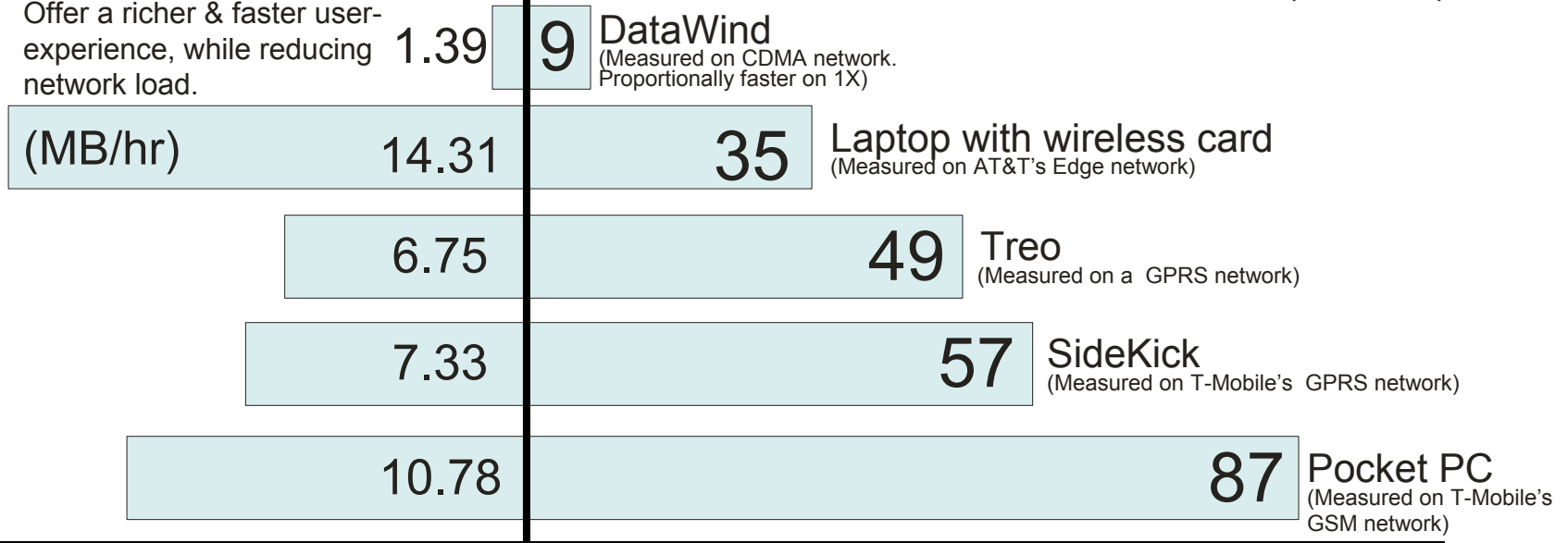
# Breakthrough Performance:

Based on 21 patents

## Data Consumption:

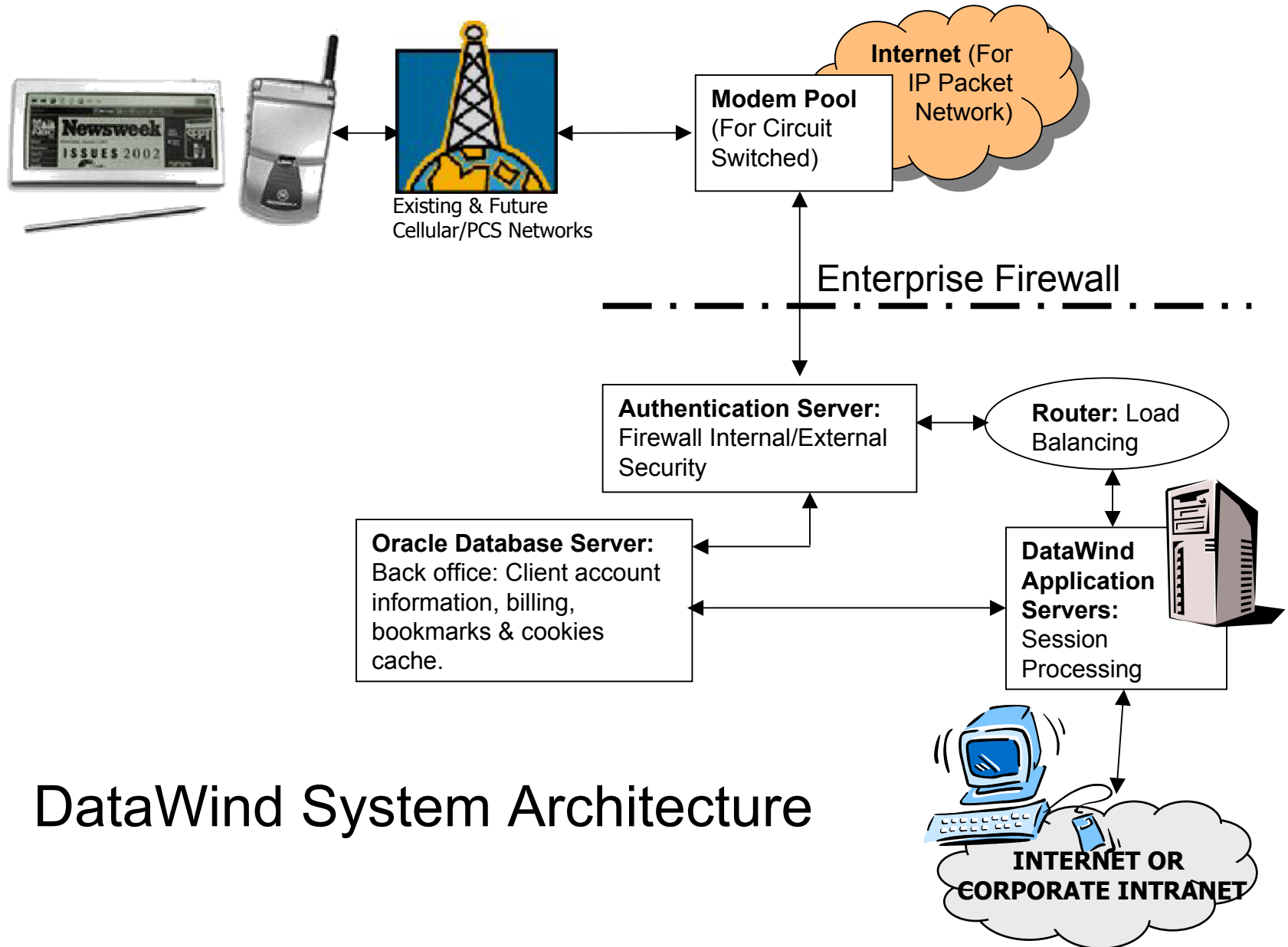
As 2.5G & 3G networks charge for data consumption by the megabyte, DataWind's solution results in real savings.

Offer a richer & faster user-experience, while reducing network load.



Cumulative Data Consumption: MB/hr

Download speeds for the CNN website  
(benchmark to highlight story & picture).



# DataWind System Architecture