

# Specifications

## Application Software

- Requires Windows 2000 Server
- Supports multiple scheduling and dispatch applications
- Interfaces with all third party scheduling and dispatch applications
- Multiple connection types : Serial, TCP/IP, Named pipes

## Remote Access

- User interface accessible by web browser locally or remotely

## Security

- Regulated host / mobile access
- Anonymous and authenticated access
- IP address and domain name restrictions

## Accessibility

- Statistics and configuration information accessible through SQL interface

## Wireless Network

- Private mobile radio
- Public Data: GPRS, CDMA, and iDEN

## Hardware/Software Requirements

- Pentium 4 - 2.4 GHz
- Minimum 40 GB hard drive
- VGA color monitor
- Microsoft Windows 2000 Server
- Minimum 512 MB RAM
- 32x CD-ROM
- 10/100M Ethernet controller
- Microsoft Internet Explorer 5.5 or better

For more information on product software / hardware requirements, please contact your local Digital Wireless sales representative.

# WiNG

## Wireless Network Gateway



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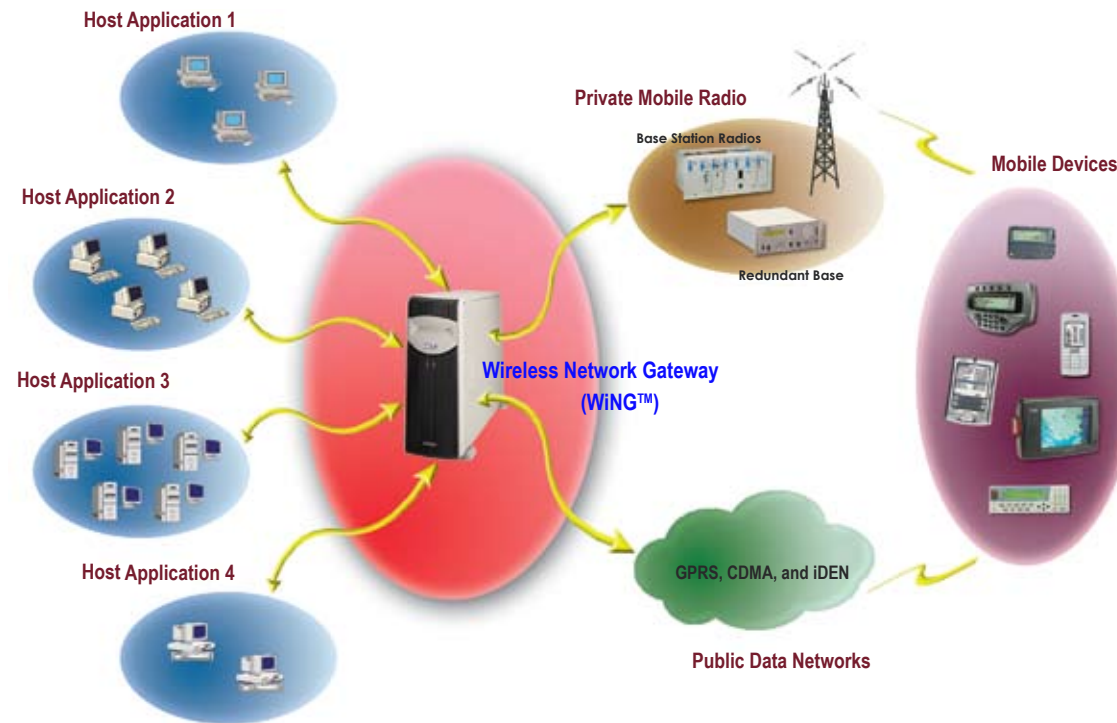
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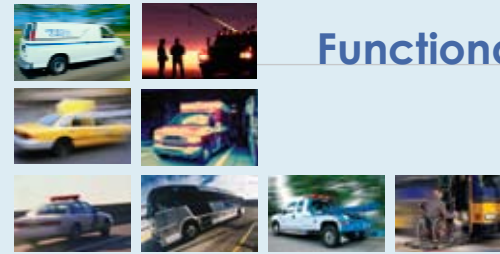
# Wireless Network Gateway

[ **WiNG™** ]

Digital Wireless' Wireless Network Gateway (WiNG™) is a sophisticated wireless message router. It routes wireless messages between mobile devices such as Digital Wireless' Vector 530™ and iPilot 8000™ and Digital Wireless' reservation and dispatching software as well as with any other third party host applications and wireless devices. With its robust configuration options, WiNG™ also offers both wireless network as well as mobile device independence.



## Functionality



The WiNG™ consists of three functional components :

- The **WiNG™ Application** translates and forwards messages generated by mobile devices to the application software and vice versa. WiNG™ ensures a high probability of message delivery through its message tracking and acknowledgment and retransmission capabilities.

Integral to the application is the reporting functionality. The WiNG™ integrates its reporting capabilities within this application and provides powerful, pre-defined reports, graphical displays and built-in queries. This allows users to more effectively manage their networks and wireless data traffic.

- The **WiNG™ Database** stores roaming table information, network statistics, and configuration parameters necessary to ensure functional operation of the WiNG™ application.
- The **WiNG™ User Interface** provides access to the WiNG™ Application and Database through a standard web-browser interface. From the WiNG™ User Interface users can configure, monitor, troubleshoot, and generate reports on their wireless networks.

Detailed application software, base station, Radio Frequency channel, and mobile device statistics (i.e., number of inbound / outbound messages, acknowledgments) can be displayed graphically. Real-time transaction screens are also available.

The WiNG™ Client Application provides access to WiNG™ from any conventional web-browser connected to the Internet. The WiNG™ Client Application provides customers with the ability to access their networks from a remote location.

Base Station Communication Statistics



Mobile Unit Specific Statistics



Real-time Transaction screen

## Features

- **Wireless Networks Support**
  - ▶ **Private Mobile Radio**
    - Host application interface provides communication between scheduling and dispatch software and base stations
    - Supports up to 9 base station controllers
    - Supports both multi-channel and multi-site modes of operation
  - ▶ **Public Data Networks (Cellular)**
    - Communicates using all major cellular networks - GPRS, CDMA and iDEN
    - Supports Full TCP/IP – Independent of network provider
- **Host Application Support**
  - ▶ Offers simultaneous connectivity for up to 8 host dispatch applications
  - ▶ Digital Dispatch PathFinder™
  - ▶ Third party scheduling and dispatch applications
    - Routematch TS
    - StrataGen ADEPT
    - Trapeze PASS
    - Versyss Transview
    - Others

- **Network Configuration**
  - Provides a single point of contact for configuring, troubleshooting and monitoring wireless networks
- **Diagnostics**
  - Access to detailed statistical information GUI screens for fault diagnosis
- **Statistics**
  - Provides efficient access to multiple statistics including:
    - ▶ Number of inbound and outbound messages to individual mobiles
    - ▶ Number of duplicate messages
    - ▶ GPS data statistics
    - ▶ Signal strength of mobiles
    - ▶ Number of inbound and outbound acknowledgment or negative acknowledgments
- **Flexible configuration**
  - WiNG™ is scalable, resource-efficient and designed to support multiple wireless networks

## Benefits

- **Reliable Message Delivery**
  - Through positive and negative acknowledgements, WiNG™ ensures a high probability of both timely and accurate message delivery
- **Improved reliability through superior network management**
  - Provides an integrated configuration, monitoring and troubleshooting platform for public and private wireless data networks
  - WiNG™ also provides advanced remote access for easier configuration and monitoring
- **Integrated statistics and reporting**
  - Provides integrated statistics and reporting functionality, allowing for more efficient network troubleshooting and optimization capabilities
- **Reduced development timeframes**
  - Provides a standardized protocol for systems integrators / application developers that want to develop a single interface. WiNG™ thereby eliminates connectivity concerns specific to individual wireless network protocols