

# IACP TECHNOLOGY CLEARINGHOUSE

## Law Enforcement Technology Program Survey

**Agency Name:** Lakeland Police Department

**Technology Program Name:** Police Information Systems - Laptop Computers w/ CDPD Modems

**Contact:** Susan Nash, Computer Applications Specialist

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**E-mail Address:** <mailto:swilk@city.lakeland.net>

**Home Page Address:** N/A

**Agency Size:** Total Sworn: 228; Total Civilian: 116

**Agency Type:** Municipal Police

**Technology Program Status:** Permanent Special Unit Program (short-term plan to implement dept. wide)

**Mobile Hardware Type and Quantity:** Laptop - 241; Laptop figure includes 241 which are CDPD modem equipped.

**Printer:** N/A

**How is data transmitted from the Field to the Station?** Wireless (FCIC/NCIC Inquiries) and Download from Collection Device (event report)

**How is data transmitted from the Station to State and Data Collection Authorities?** Disk (UCR submission); FCIC/NCIC inquiries via direct connect through private network (LPD to FDLE and back).

**Funding:** City of Lakeland General Fund; COPS MORE (CDPD upgrade for 22 laptop computers to equip COPS officers); COPS MORE 96 (connection from message switch to CAD); Florida Motor Vehicle Theft Prevention Authority (message switch)

**Hardware Manufacturers:** [Toshiba](#) - laptop; [Sierra Wireless](#) - CDPD modems

**Software Manufacturers:** [Cerulean](#); [Intergraph Public Safety](#)

**Important Technology Lessons Learned:** "[See Attached Document](#)"

**Program Narrative Overview:** "[See Attached Document](#)"

**News Article:** "[New Technology Aids Police](#)", The Ledger, by Bill Vash, Jan. 9, 2001

## CDPD MCT's

Lakeland Police Department pioneered the use of Cellular Digital Packet Data (CDPD) in Florida in August 1996 when it installed the first CDPD-based Mobile Computer Terminal System (N4CT) in Florida. CDPD technology makes use of spare bandwidth on commercial cellular phone systems to send short packets of information to a central message switch. Officers use this system to request information on stolen vehicles, property, and wanted persons from the Florida Department of Law Enforcement's Statewide Information System as well as the nationwide system run by the FBI. This system enhances officer safety by providing them with crucial information before they stop a vehicle.

## EVENT REPORT WRITER

Officers also use their laptop computers for incident report writing. Lakeland Police Department had its incident report writer software custom written using Microsoft Visual Basic. This software assists officers by providing them with drop-down pick lists for hard-to-remember codes. Officers upload their reports to the local area network where it is reviewed by a supervisor before it is forwarded to the records section for processing and to investigators for follow-up.

## GIS -BASED CAD

Lakeland is currently installing an Intergraph Computer Aided Dispatch and Records Management System (CAD/RMS) which will make good use of the City's 'investment in Geographic Information Systems (GIS). This system will provide dispatchers with geographic information in the form of a map display as well as critical information related to specific addresses. Information such as medical alerts, weapons, hazardous materials, or owner contact data will be available immediately upon entering an address. The system can provide location history information of all recent calls to a location. This information is valuable to an officer entering a potentially dangerous situation and helps dispatchers make 'informed decisions on resource deployment.

### GIS CAD Map Sample

The CAD/RMS system will be integrated with the MCT system to provide an additional source of information to officers 'in the street. They will be able to receive dispatch

information such as address, directions, and location history on their MCT. The CAD/RMS system will be live in October 1998.

## INTEGRATED RMS

The Records Management System will be integrated into the Police Event Report writer software so that reports are automatically loaded into the RMS. This will improve the flow of information in the department and allow crime trends to be detected more easily.

## INFRASTRUCTURE

Lakeland Police Department is building its technology infrastructure based on an Open Systems Architecture which will carry it into the 21st Century. It has chosen systems based on industry standard technology products from Intel, Microsoft, and Oracle. These are the same standards implemented throughout the City, allowing each City department to share information and expertise. This standardization of architecture will allow us to grow and adapt in the rapidly changing computer environment.

# Lakeland Police Department

## Motorola Personal Messenger 100C Modem Specifications

### Physical characteristics

Weight: 122g no battery; 164g with 9-volt battery

Size: 151 mm (L) x 54mm (W)

Height at card end: 5mm; at battery end: 35mm

Status LED's: 3 (Power, Message, Range)

### Data Transfer Rate

19.2 Kbps

### Communications Interfaces

Fits PC Card Type II slots

PC Card: NS16550 emulation

PC Card/PCMCIA: NS16550 emulation

RF Protocol: CDPD 1.1 Specification compliant

Host Protocol: Online - SLIP or Teinet; Command Mode - PCCA STD 101, TIA 602/615

### Serial Interface

RS-232 serial port adapter (optional, sold separately; for use with computing devices that do not offer a PC Card slot)

### Host Operating System

DOS 5.0, Windows 3.1 or later, Windows 95, Windows NT, Windows

CE releases 1.0 and 2.0, Card and Socket Services 2.01

## **Radio Performance**

Full duplex

Transmit: 824 to 849 MHz

Receive: 869 to 894 MHz

Transmit Power: 600mW

Automatically scans for available channel

## **Power Source**

Main Power: One replaceable 9-volt alkaline battery or rechargeable 6-volt NiCad battery

Battery Extension: CDPD Sleep Mode protocol, Partial Power, Trickle Charge

## **Environmental**

Temperature Range:

Operating: 0° C to 50° C (32° F to 122° F)

Storage: -35° C to 85° C (-31° F to 185° F)

## **Physical Performance:**

Exceeds PCMCIA/PC Card Standard, Release 2.1 recommendations for humidity, shock, and vibration

## **Accessories Available**

Rechargeable 6-volt NiCad battery

Battery charger

## Serial port adapter

Specifications are subject to change without notice.

### Sources:

For information, call 1-800-8-WIRELESS. To order, call BearCom at 1-800-527-1670.

## Lakeland Police Department CDPD MCT Shopping List

### √ CDPD Accounts from local Cellular Provider

GTE and AT&T provide Services locally

### √ Police Department Message Switch

Consists of a PC or Intel based Server (depending on size of organization) and message switch software.  
We use Cerulean software.

### √ Laptop Software

Usually from the same company as the message switch.

### √ Connection from Cellular Provider to Police Department

A leased line to your cellular provider with a router and DSU.

### √ Laptops

Any standard Intel laptop.

### √ CDPD Modems

Can be .6 watt if your coverage is good or 3 watt if you don't mind mounting them in your car.  
Enfora, Motorola, and Sierra Wireless manufacture CDPD modems.

### √ Car mounts

This can be time consuming and expensive. There are a number of good companies that make car mounts. Mount type depends on vehicle so if you have a very mixed fleet beware.

## √ FDLE Accounts

Must have permission from FDLE to use their system.  
All users must have Certification and Training from

FDLE.

# Lakeland Police Department Computer Vender's Contact list:

## ***Message Switch***

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### ***Companies***

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#### ***Cerulean Software:***

(941) 624-0919

Mike Schoft

[mschoft@cerulean.com](mailto:mschoft@cerulean.com)

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Alan Carr

(770) 898-0857

[acarr@cerulean.com](mailto:acarr@cerulean.com)

#### ***Software Corp. of America:***

Oliver Oefterer

(203) 359-2773

## ***Cellular Providers***

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### ***GTE***

Bob Gaudreau

(941) 289-7033

### ***AT&T***

Rob LaVielle

(813) 220-5700

[rob.lavielle@attws.com](mailto:rob.lavielle@attws.com)

## ***CDPD Modems***

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### ***Sierra Wireless***

George Naspo

(603) 672-2802

[naspo@sierrawireless.com](mailto:naspo@sierrawireless.com)

### ***Enfora***

(972)-578-6100