



City of Elmhurst

Wireless Radio Network

Demographics

Total population **45,000**

Single family homes **12,000**

Area of Coverage **12 square miles**

2 Fire Stations

1 Police Department

Elmhurst Hospital

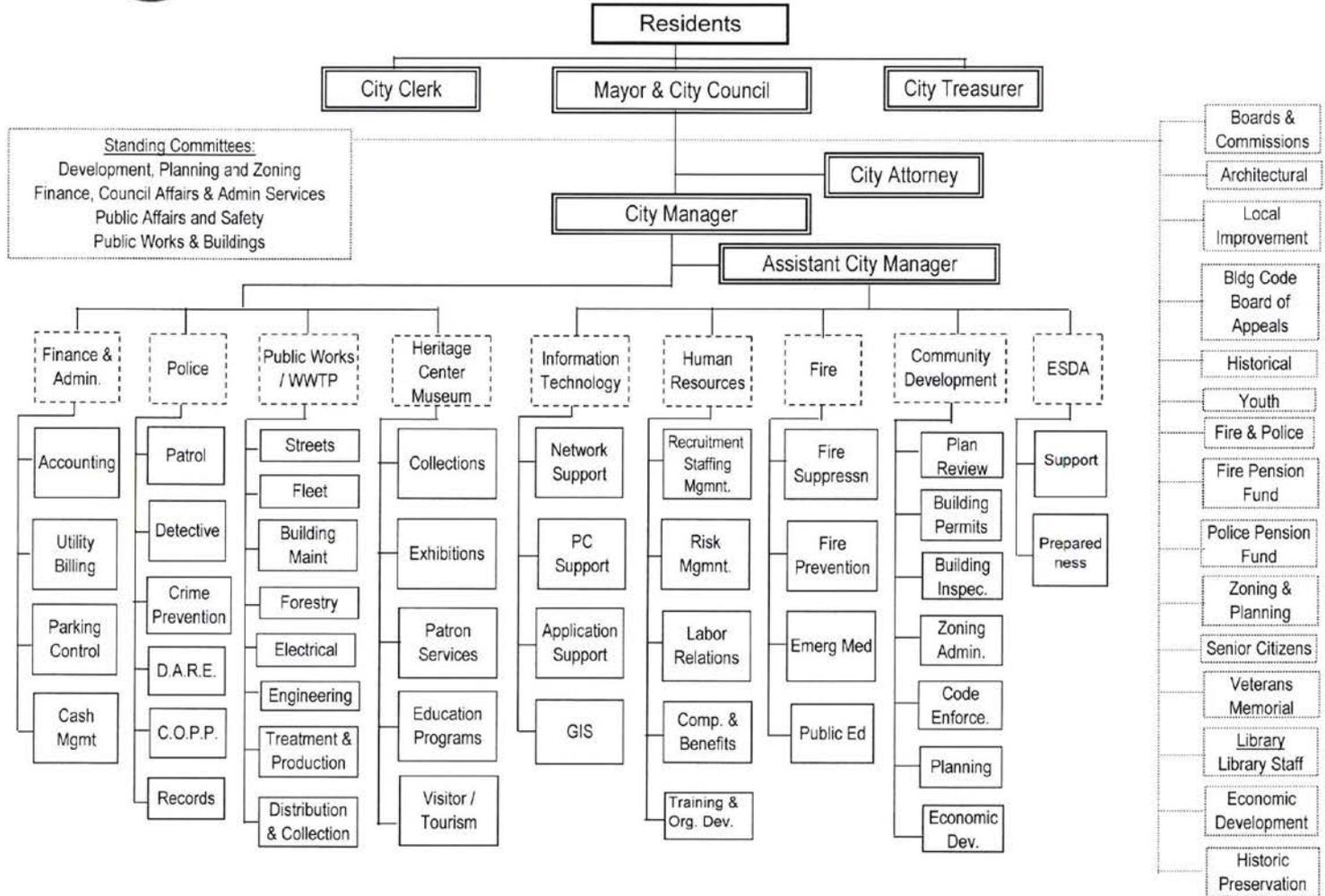


Organization Chart



City of Elmhurst Organizational Chart

UPDATED
February 17, 2010



Fire Department - Strategic Goals

The Elmhurst Fire Department consists of competent and valued professionals dedicated to *providing life safety, emergency services, and educational programs* for the protection of life and property in our community. The mission is accomplished by holding *devotion to duty* above personal safety and comfort, and *continually challenging* our members to enhance the quality of services provided.



Municipal Code Ordinances

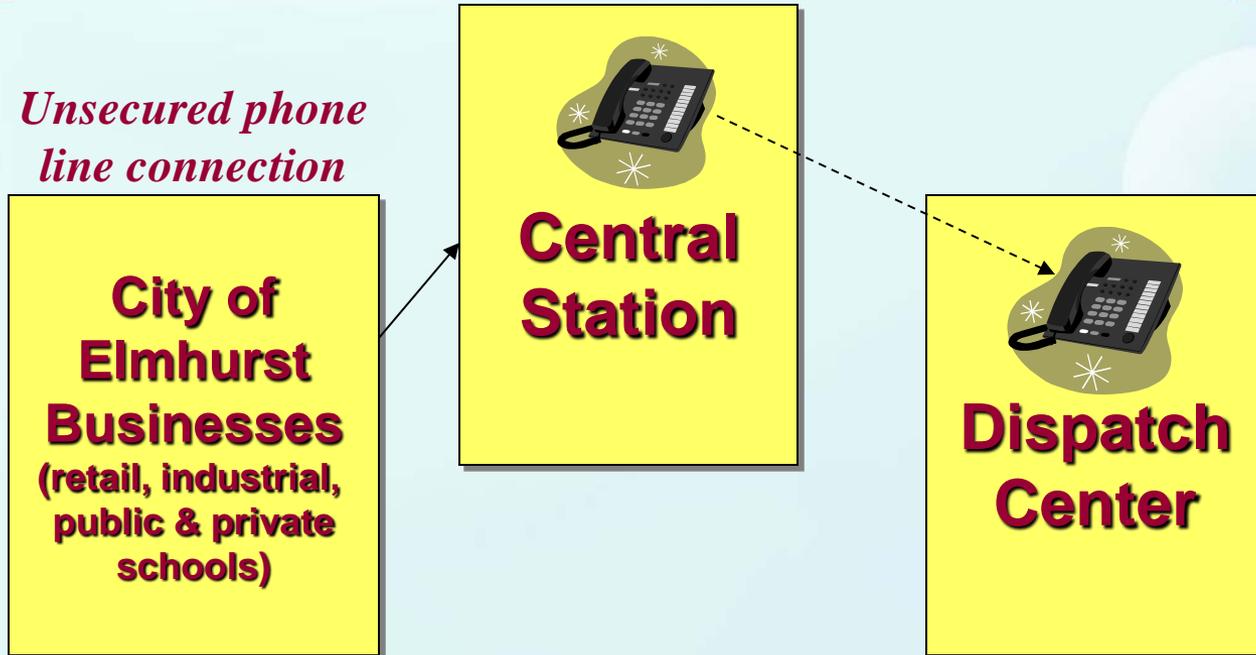
- **In 2004, due to delays in service of central stations, Elmhurst required direct connection for any new business or substantial upgrades in businesses. (*Alarm Detection Services vs. City of Hinsdale, 2001. Appellate Court confirmed the legality of direct connectivity.*)**
- **In 2009, Elmhurst required all direct connect phone line businesses to switch to the Elmhurst Wireless Radio Network.**



Role of Alarms

Central Station Connection

*Unsecured phone
line connection*



Problem: delay in report to Fire Department.



Role of Alarms

Dedicated Phone Line Direct Connect



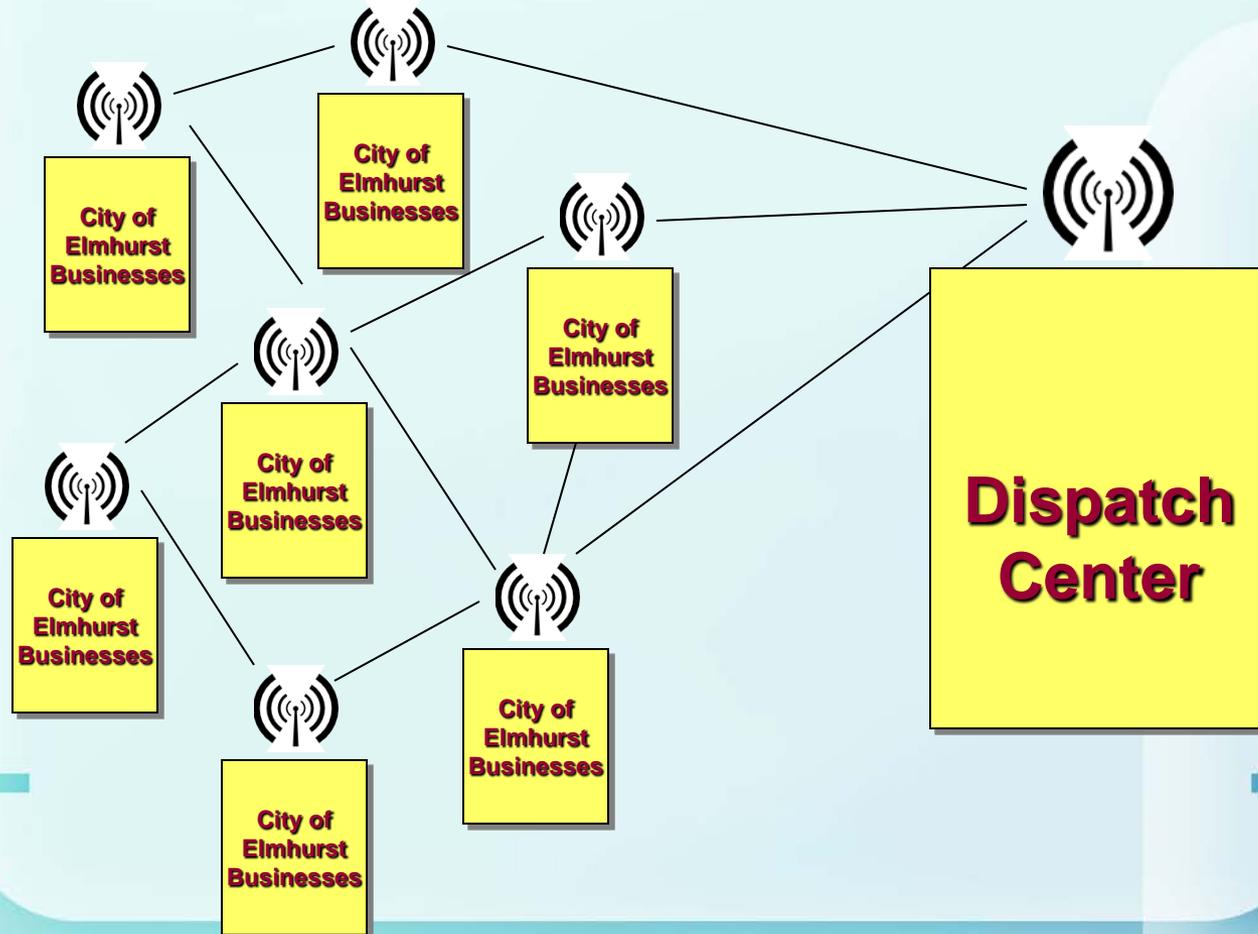
Problem:

- Phone lines generating false and trouble alarms
- Disputes between alarm company and phone company



Role of Alarms

Wireless Radio Network Connection



Benefits of Wireless

- **Improved reliability with elimination of phone line problems.**
- **Customers pay only one quarterly bill to the City of Elmhurst.**
- **Easier detection of problem – no phone lines.**
- **Trouble alarms will significantly decrease. There will still be some alarm problems, but most were caused by phone lines.**
- **No modifications needed on existing fire alarm system.**
- **Leased equipment is covered by a maintenance program.**



Savings

Before Wireless

- Cost of dedicated phone line, \$118 per month (minimum)
- \$27 per month for monitoring
- Service charges for trouble alarms, etc.
- **Previous monthly total = \$145**

After Wireless

- Dedicated phone line can be cancelled
- Monitoring and lease of radio included in monthly charge of \$85
- **New monthly total = \$85**



Request for Proposal

- **RFP to develop and maintain wireless network**
 - Vendor selected to provide radio installation and maintenance on radios and head end equipment

- **City of Elmhurst website:**

www.elmhurst.org

Click on: *Departments*, then *Fire Department*, then *Fire Prevention Bureau* to “Elmhurst Wireless Radio Network”



Costs and Revenues

Equipment cost:	\$577,000
Head end equipment and 444 radios	
Monthly Maintenance	\$6.72
Dispatch Center monitoring fee	\$14.00
Projected Net Revenue (years 1 – 5)	\$215,000/year
After year 5	\$340,000/year

