



HIGH PERFORMANCE DATA SYSTEM (HPD)

EXISTING UHF DATA SYSTEM

Obsolete Technology

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**Relatively Slow Speed – 9.6 kbps**

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**No Longer Supported By Manufacturer
(Replacement Parts Difficult to Find)**

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**FCC Mandated Migration to Narrowband Frequencies  
(January 2013 Deadline)**

# **HIGH PERFORMANCE DATA SYSTEM (HPD)**

**Private Network for Mission Critical  
Public Safety Applications**

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Assured Communications

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**Not Dependant Upon Commercial Wireless Services  
That Are Likely to be Overloaded During a Major Event**

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Motorola HPD Technology Data Rates up to 96kbps

HIGH PERFORMANCE DATA SYSTEM (HPD)

Reliable 700 MHz Radio Infrastructure

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**Industry Standard IP Based Routing Protocol**

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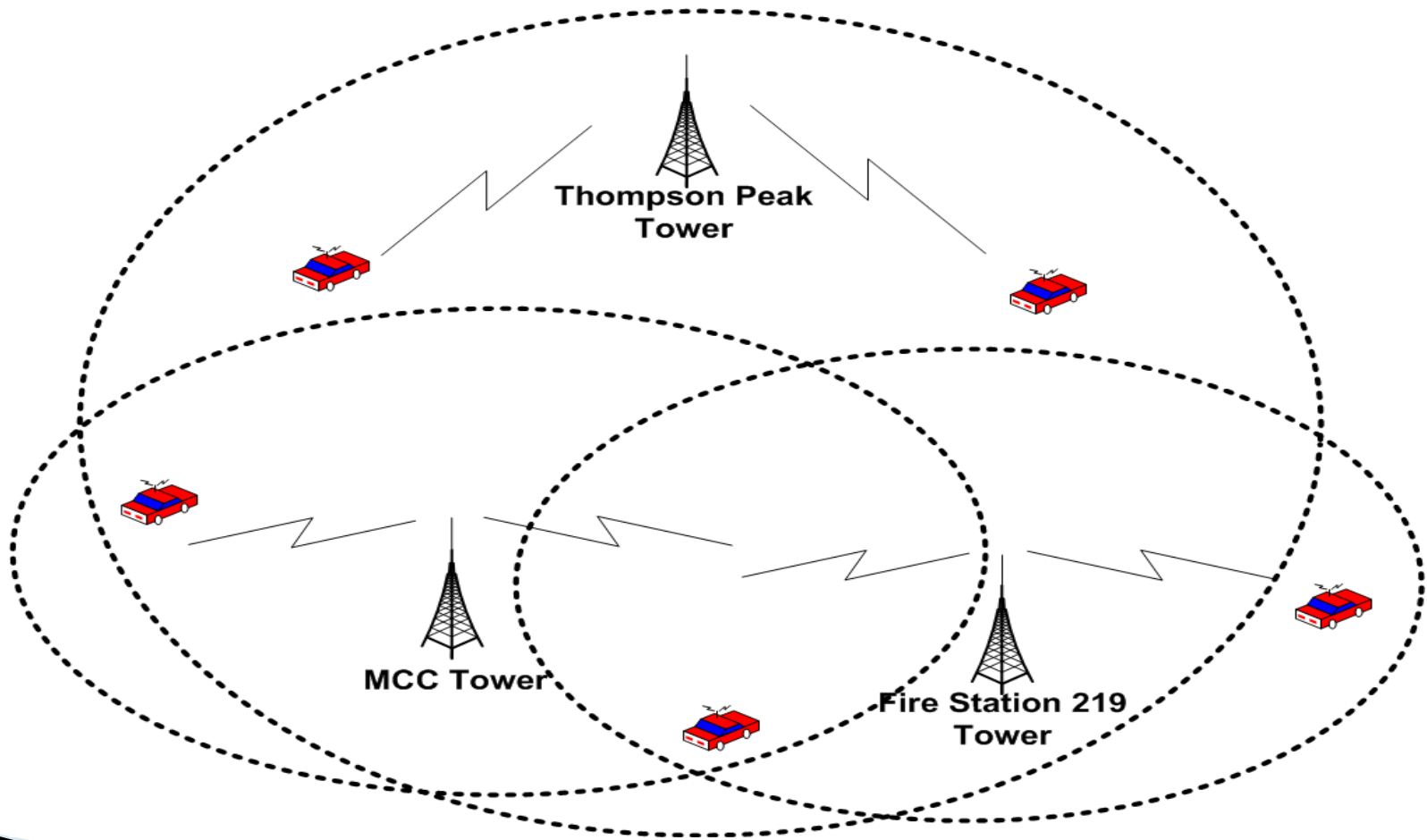
Fast, Reliable, Secure Delivery of Messages

Radio-IP Hybrid Solution

RadiolP Middleware Integrates the Public Safety HPD Radio System and Commercial or Private Broadband Services (WI-FI, WIMAX, EV-DO, Mesh, etc.)

Non-Mission Critical Applications That Require Higher Bandwidth Can Be Automatically Routed to Commercial or Private Broadband Wireless Services Where Available

HIGH PERFORMANCE DATA SYSTEM (HPD)



HPD 700 MHz RADIO MODEM



HPD Infrastructure

- ▶ Three Single Channel Transmitter/ Receiver Sites (Thompson Peak, Fire Station 219, MCC)
- ▶ Integrated into Existing City Microwave Network

Infrastructure Costs

▶ Motorola GTR8000 – 700 MHz Stations	\$360,767
▶ Systems Integration	\$366,700
▶ Radio IP Middleware Infrastructure	\$79,773
▶ Server for Radio IP (Estimated)	<u>\$25,000</u>
Total	\$832,240

Transition Timeline

**Submit Application to FCC for Radio Frequencies
(3 to 4 Months)**

**Infrastructure Installation and Testing
(6 to 8 Months)**

**UHF System Continues Operation During Transition
to HPD System**

Installation of Mobile Units

Retired Units can be Used as Spares on Old System

Decommissioning of Old UHF System

700 MHz HPD Data System Proposed RF Coverage

