

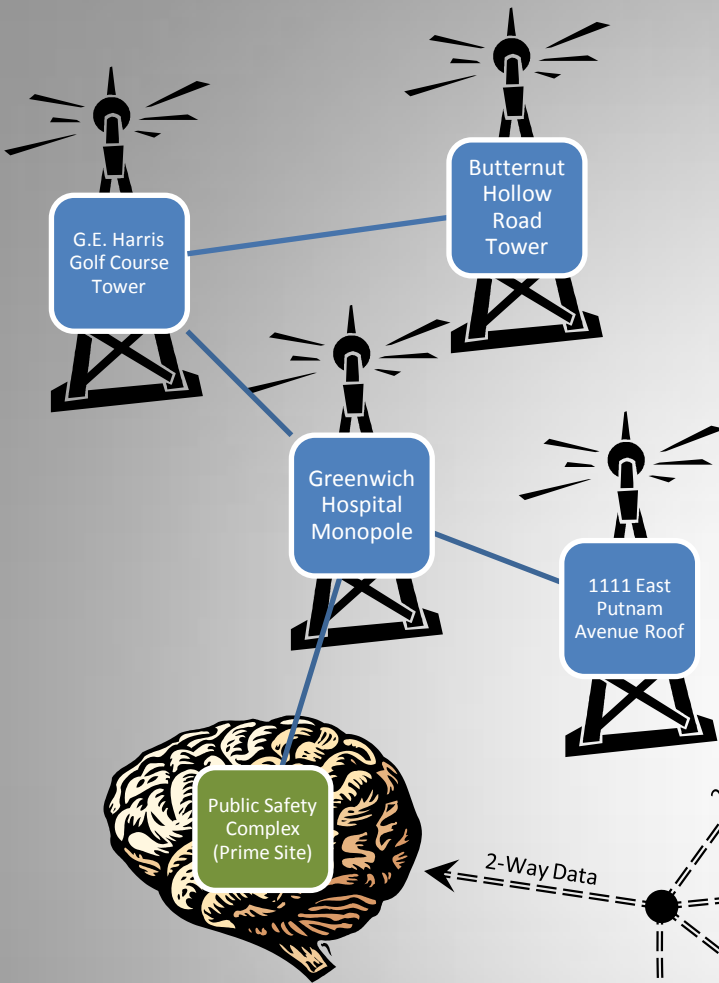
The Town of Greenwich 800 MHz Radio Communications System



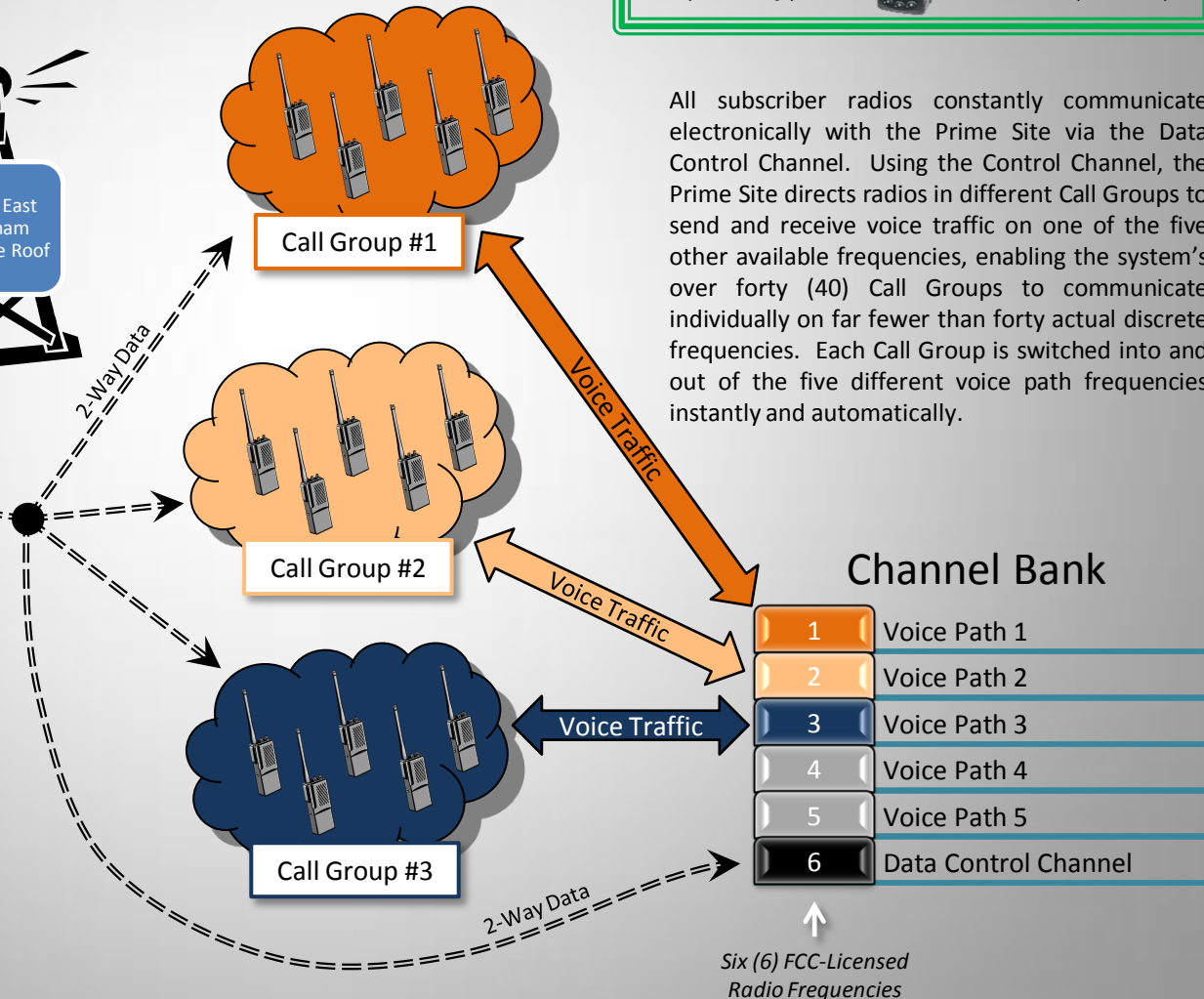
SUBSCRIBER RADIO TYPES



All subscriber radios constantly communicate electronically with the Prime Site via the Data Control Channel. Using the Control Channel, the Prime Site directs radios in different Call Groups to send and receive voice traffic on one of the five other available frequencies, enabling the system's over forty (40) Call Groups to communicate individually on far fewer than forty actual discrete frequencies. Each Call Group is switched into and out of the five different voice path frequencies instantly and automatically.



The Town of Greenwich 800 MHz trunked radio system communicates with over 600 subscriber radios (mobile and portable units) through five (5) infrastructure site locations. Four sites are broadcast towers and one site – the Prime Site – controls the operation of the system. All the sites are linked via a private high-speed microwave network. All transmissions from the field are routed to the closest tower site to the Prime Site and simultaneously rebroadcast from all tower sites at once.



Town of Greenwich

800 MHz Radio System

Lifecycle Budget Plan Evolution

6809 Controllers

Model 6809 trunking controllers are a key system component. The system relies on a total of six (6) and can run (without redundancy) with five (5). Since December 31 of 2012, the Motorola Corporation longer guarantees replacement or reparability of the 6809 controllers. We have one spare on hand and parts to make perhaps two more. Other system components will reach end of service in 2013, 2014 and 2016.



Existing System entered
End of Service

Today



Estimated Future
Project Costs
(in millions of dollars)



A true townwide asset, the radio system is critical communications infrastructure with many Users Departments and Agencies, including:
Fire – GEMS – Health – Public Works – Police – Fleet – T.A.G. – Red Cross – Parking Services – Parks and Recreation – Board of Education