

## **Functional Requirements for a County Wide Communications System**

Submitted by The Onondaga Co. Sheriff's Office

1. System must never appear as busy to Police, Fire and EMS units. The system should have the ability to set priorities for different user groups.
2. Users within the system should have the ability to communicate with other users regardless of affiliation.
3. The entire system must be capable of operating by emergency power such as from generators.
4. The system must provide portable-to-portable coverage throughout the county.
5. The system should have the ability to patch outside county agencies.
6. The system should have the capability to receive emergency transmissions such as Signal 50.
7. The system should support equipment from various vendors. (not be vendor specific)
8. The radio committee should establish minimum radio equipment guidelines that will dictate radio specifications for use on this system.
9. The system should have an unlimited number of user groups available.
10. User groups should easily and quickly be able to be established at any time of the day or night.
11. Mobile and portable units should have the ability to communicate with each other while outside the system, as on a simplex channel.
12. System should pass encrypted communications between users if required.
13. All user radios should have the ability to be deactivated by the controlling agency, and also support OTA programming for adding or subtracting user groups, software updates, encryption programming, etc.

14. The system should have redundancy in the event of equipment failure. For example, the failure of one tower site should not affect any other site.
15. The system should not be dependant on the 911 complex. In other words, the system should continue to operate in the event of catastrophic failure at 911.
16. AVL Mobile and portable radios must be capable of transmitting current GPS positions, both to the 911 Center, and to field operation temporary command centers.
17. The committee should establish minimum user equipment specifications, so as to maintain functionality, and security of the radio network.
18. The committee should discuss the need of a metro agency that would oversee the radio network. This agency could be responsible for maintaining the functionality and security of the network; Maintain a radio shop where vehicle installations and radio repairs could occur; make purchases of radio equipment; establish periodic maintenance of equipment on the network; ect.