



Essential & Recommended Amateur Radio Equipment for Hospitals



Santa Clara County ARES/RACES

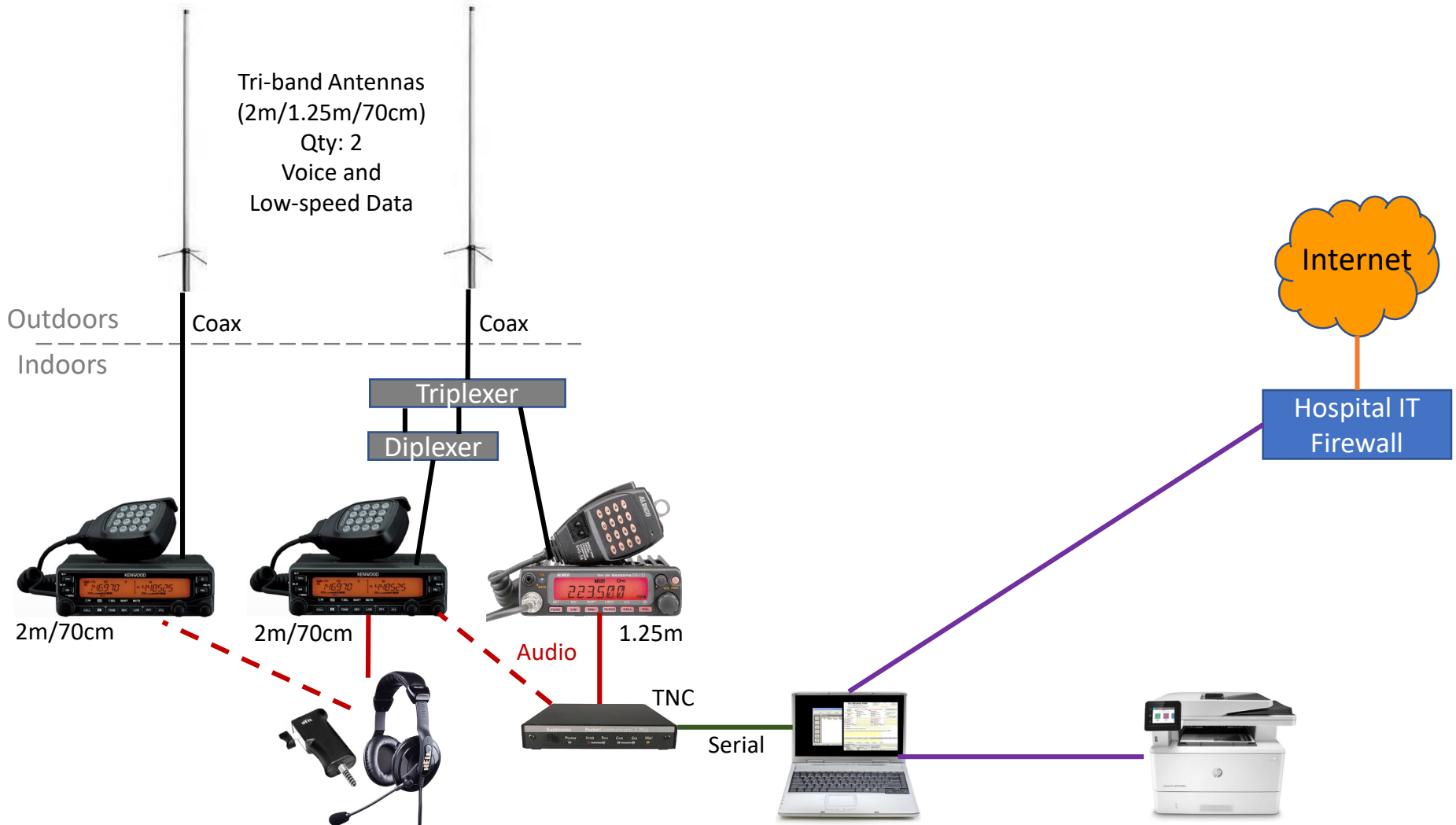
28-Dec-2019

ARES and Amateur Radio Emergency Service are registered service marks of the American Radio Relay League Incorporated and are used by permission.

Overview

- These diagrams show two configurations
 - Essential Equipment
 - The minimum equipment that all hospitals should have so they can effectively use amateur radio to coordinate with its local jurisdiction EOC and the county health DOCs or county EOC
 - Recommended Equipment
 - What hospitals should have so they can take advantage of the most current technology and services
- These diagrams are highly stylized
 - They seek to convey the overall connectivity, not every detail
- Specific recommendations for each component are available

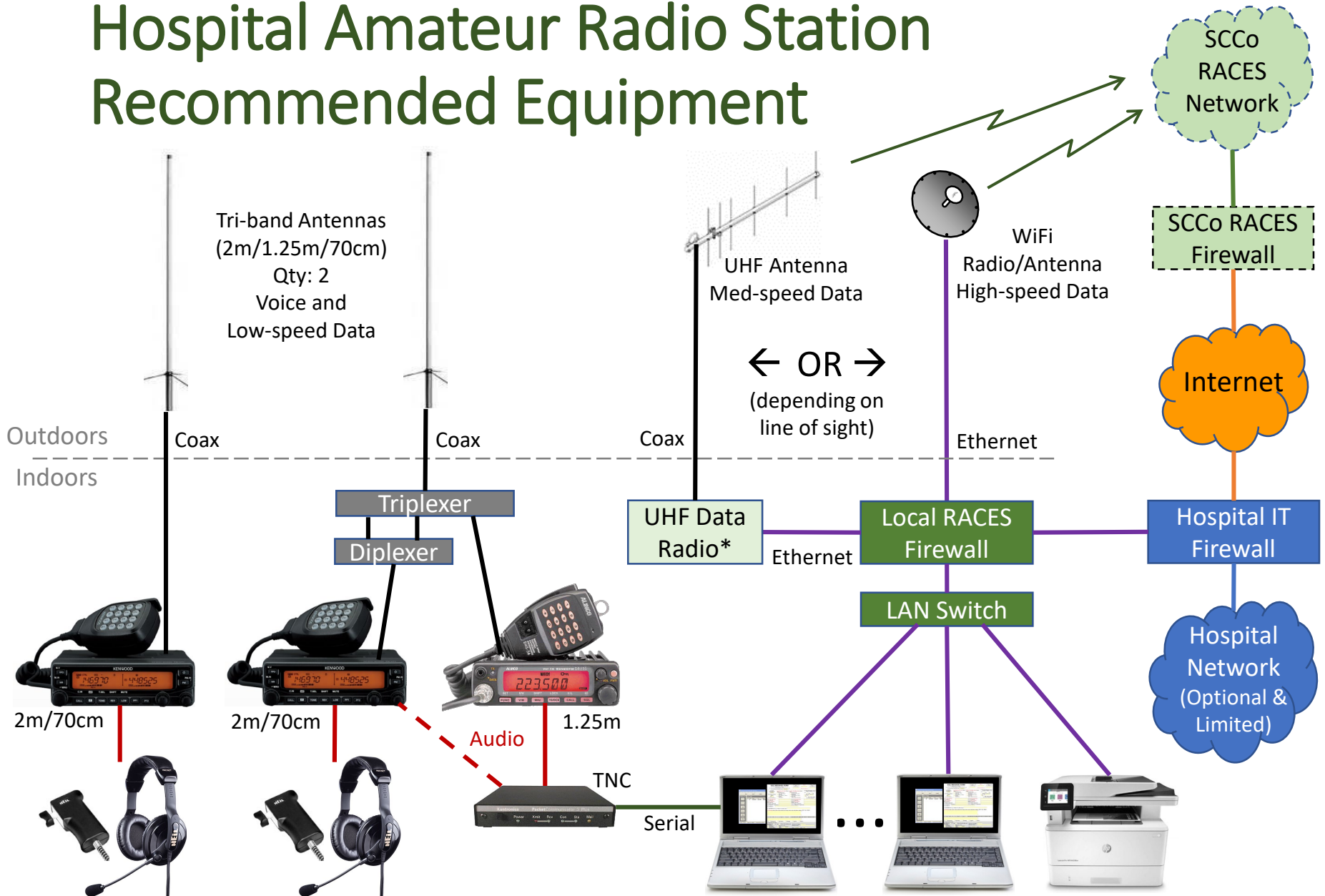
Hospital Amateur Radio Station Essential Equipment



Notes: Hospital Amateur Radio Station Essential Equipment

- Combination of VHF/UHF radios and antennas enables simultaneous operation on city and county voice and low-speed data nets
- Laptop and printer enables efficient processing of forms-based communications, which is most of hospital traffic
- Internet access and local admin rights on PCs enables flexible access to tools and other Internet-based resources during non-emergency situations
- Hospital firewall prevents unauthorized access to the rest of the Hospital network

Hospital Amateur Radio Station Recommended Equipment



Notes: Hospital Amateur Radio Station Recommended Equipment

- Adds higher-speed data access to Santa Clara County RACES data network
 - If line of sight exists to a hub site, use high speed ($n \times 10$ Mbps) radio
 - Provides hospital with alternate access to Internet
 - If no line of sight exists, use UHF radios* for some additional services
 - No alternate access to Internet
- Local RACES firewall controls access to local RACES LAN segment
- Consider enabling restricted access to shared drives or other tools used by the Hospital Command Center to enable efficient sharing and archiving of data, messages, forms
- *UHF Data Radio undergoing trials; not yet selected

Additional Information

- Santa Clara County ARES/RACES website home page:
 - <https://www.scc-ares-races.org>
- Information specific to Hospitals:
 - Services, personnel, station equipment, radio nets, exercises, ...
 - <https://www.scc-ares-races.org/services/hospitals>
- SCCo ARES/RACES leadership:
 - <https://www.scc-ares-races.org/staff.html>
- City ARES/RACES leaders:
 - <https://www.scc-ares-races.org/cities.html>