

AMATEUR RADIO PUBLIC SERVICE COMMUNICATIONS

Ordering Guide - For ARES, RACES, EmComm and Public Service Resources¹

Amateur Radio Resource Typing enables amateur radio communicators, emergency managers, staging managers, EmComm Leaders and event coordinators to identify, request and receive standardized amateur radio resources during an emergency, disaster or event. It identifies equipment needed and communications functions amateur radio operators typically perform at events and incidents for easy reference. By implementing Resource Typing, resources are easier to request and supply allowing assignments to be made quickly.

This Guide is an aid in ordering resources for all Amateur Radio mutual aid and EmComm groups.

Amateur Radio Resource² (ARR)

◇ All ARR Resource kits are portable or mobile ◇

Basic Resource Functions

◇ Amateur Radio Resource - Type S

Function = Shadow | VHF/UHF

ARR-S - Defines a "foot mobile" station shadowing an event or incident official.

◇ Amateur Radio Resource - Type B

Function = Base | VHF/UHF

ARR-B - Defines a Portable Base, Rest/Aid Stop, Shelter, Net Control, EOC or similar type fixed station.

◇ Amateur Radio Resource - Type M

Function = Mobile | VHF/UHF

ARR-M - Defines a portable station temporarily installed in a vehicle such as a car, truck, van, aircraft, boat, bus, etc.

◇ Amateur Radio Resource - Type H[]

Function = Long-Range Communications | HF

ARR-H[] - Defines a portable HF long to intermediate range communications station. A General Class or higher License is required. [Sub Functions]: **p** - Field Portable; **m** - Mobile (suitable for in vehicle use)

Specialty Resource Functions

◇ Amateur Radio Resource - Type TM[]

Function = Tactical Data Messaging | VHF/UHF

ARR-TM[] identifies the communication function and amateur radio equipment for operation as a portable "last mile" messaging system providing traceable messaging and/or "radio Email" capability.

[Sub Functions]: **w** - Winlink capable; **u** - User group's standard data program

◇ Amateur Radio Resource - Type SM[]³

Function = Strategic - Long Range Data Messaging | HF

ARR-SM[] - Defines a portable HF long range data messaging system providing traceable messaging and/or "radio Email" capability. [Sub Functions]: **p** - Pactor; **f** - Winlink forwarding station⁴; **s** - sound card (WINMOR/FLDIGI/PSK31)

◇ Amateur Radio Resource - Type DA

Function = Data - APRS Operations | VHF/UHF

ARR-DA - A portable Automatic Positioning/Packet Reporting System providing event or incident official(s) with a "view" of resource positions in real time along with short messaging capability.

* At a minimum, 1 ARR-RT should be ordered with this resource

◇ Amateur Radio Resource - Type RT

Function = Data - Resource Tracking | VHF/UHF

ARR-RT identifies amateur radio equipment implementing the communications function of a resource tracker. This resource is used to track mobile assets or other resources as requested by event or incident officials for reception and display with a ARR-DA resource.

* 1 each of this resource should be ordered for each item of equipment or location that is to be tracked

◇ Amateur Radio Resource - Type DN[]

Function = Data Networking | MESH / LAN / WiFi

ARR-DN[] identifies equipment implementing the communications function for a portable 802.[] resource providing a wireless LAN node(s) and "WiFi" in support of event or incident communications.

[Sub Functions]: **h** - HSMM MESH; **a** - AREDN MESH; **c** - Commercial

◇ Amateur Radio Operator - ARO - [Any Base or Specialty Function]

ARO-[] - An amateur radio communicator without radio equipment, capable of operating any of the listed functions. Append function designator to ARO (i.e., ARO-B) An ARO will always carry a AAR-S kit.

◇ Assignment Durations

- Short - 12 hours or less in duration (Shift) Medium - 12 to 72 hour duration (Shifts)
 Long - 72 hours or greater duration (Typically an away assignment)

* Resources should be paired. 2 ARR units (any mix) or 1 ARR with 1 ARO

- Notes:**
1. This guide is an aid for event coordinators and EmComm leaders to create needs lists of communicators
 2. To request only a ARR operator, use Amateur Radio Operator (ARO) with appropriate designation (-B for example)
 3. For MARS operations, equipment/capabilities must meet unit's operational requirements
 4. VHF data to/from HF data hubbing function requiring Pactor III

*** Ordering guide for amateur radio communications functions for EmComm and Public Service activities ***