

AMATEUR RADIO PUBLIC SERVICE COMMUNICATIONS

Public Service Communicator Resource Types and Equipment Guide

Resource typing definitions provide emergency managers, staging managers, and event coordinators with the information needed to request and receive resources they need during an emergency, disaster or event. It is used to identify and match communications tasks amateur radio operators typically perform at events and incidents. By providing your resource type when signing-up for an event, things go a lot easier for the coordinator, staging manager, or emergency manager in making assignments. This can provide a standard across amateur radio groups.

Common Items for all Resource Types

- Writing material (pen, pencil, writing pad, and message forms)
- Short duration personal support gear (Rain Gear/comfortable footwear) (Optional for special events)
- Portable power source for at least 12 hours of typical operation
- All connectors RACES/ARES standardized
- Copy of amateur license and badge
- Transceiver operating instructions or summary guide

Resource Type S - (**S**hadow Operations)

This resource type defines basic equipment for operation of an amateur radio station as a foot mobile station while shadowing an event or incident official.

- Hand-held, 2 Meter (2M/440 preferred) FM synthesized transceiver with a minimum of 2.5 watts of output power with programmable CTCSS encoder - Type **S1** if less than 2.5 watts
- Standardized cigarette lighter power cord and clip lead adapter power cables
- Earphone or Headset attachment (VOX disabled)
- Adapter cable/bracket or mini-mag mount antenna for temporary vehicle duty with shadow

Note: Resource Types that are not portable (home stations or permanent mobile installations) will have the modifier "/F" for fixed, affixed at the end of the Type designator. (i.e., Type M/F)

Resource Type B - (**B**ase/Rest Stop/Shelter/Net Control)

This resource type defines basic equipment for portable operation of an amateur radio station as a base or fixed location.

- 2 Meter (2M/440 preferred) Transceiver capable of at least 25 watts into the antenna (HT / amplifier combination is a viable alternative)
- Gain antenna (dual band preferred) with mast and support, coax with PL259s at each end, (25' minimum) and PL258 coupler. Extra coax cables may be needed (RG8X or better preferred)
- External speaker with 1/8" phone plug and/or earphones or headset attachment with VOX disabled
- Duct tape, miscellaneous adapters and comfort items (optional chair and table)

Resource Type M - (**M**obile/SAG)

This resource type defines basic equipment for portable operation of an amateur radio station in a moving vehicle such as a car, truck, van, or bus.

- 2 Meter (2M/440 preferred) Transceiver capable of at least 25 watts into the antenna (HT / amplifier combination is a viable alternative)
- Gain antenna (dual band preferred) with magnetic base and 15' of coax with PL259 connector
- External speaker with 1/8" phone plug and/or earphones or headset attachment with VOX disabled
- Cigarette lighter adapter and clip lead adapter power cables
- Duct tape, miscellaneous adapters and comfort items

Resource Type H - (**H**F) (Strategic Communications)

This resource type defines basic equipment for portable operation of an amateur radio station for long and intermediate range communications. (Non-line of sight)

- All modes HF SSB DC Transceiver with tuner capable for portable operation, 100 Watts minimum
- Antenna(s), mast and support accessories, coax with PL259s at each end, (50' minimum) and PL258 coupler. Extra coax cables may be needed (RG8X or better preferred) Common bands are 20, 40, and 80 meters. NVIS capability helpful for tactical situations
- Resource Type B equipment complement minus VHF equipment
- Must hold General Class License or higher

(See page 2 for Digital Types)

*** This guide is for radio equipment and does not include general personal items or 24/72 hour kit items ***

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VHF/UHF/HF Digital Resource Types

Resource Type DA - (Digital APRS Operations)

This resource type defines basic equipment for operation of an amateur radio station as an Automatic Positioning Reporting Station providing the event or incident official(s) with a "view" of resources in real time and short messaging.

- Resource Type B equipment complement
- Computer (laptop or other) with monitor suitable for portable operations capable of running mission applicable amateur radio programs (Printer optional)
- APRS software with digipeater capability
- Terminal Node Controller (TNC) and necessary cables, accessories, and documentation

Resource Type DM - (Digital Messaging Operations)

This resource type is similar to Type DA, but intended for digital messaging providing the event or incident officials with traceable messaging and "radio Email" capability.

Sub Types for this Type include **DMw**, capable of Winlink operations and **DMp** capable of packet operations.

- Resource Type B equipment complement
- Computer (laptop or other) with monitor suitable for portable operations capable of running mission applicable amateur radio programs (Printer highly recommended)
- Software for digital messaging (Winlink, Paalink, Airmail, packet or other)

Resource Type DT - (Digital Tracker)

This resource type is used for asset tracking of mobile units as directed by event or incident officials for display tracking on Resource Type DA equipment.

- Self contained pre-packaged portable equipment unit containing 2M transceiver, antenna, Global Positioning Satellite (GPS) unit, APRS tracking encoder, power unit, and necessary external cabling

Resource Type DN - (Digital Networking)

This resource type is a field deployable 802.nna resource used to provide wireless internet access to assist in event or incident communications.

- Self contained "802.11 repeater" unit functioning as a Bridge/Router/Access Point including antenna
- Minimum of 50' Cat 5 cable and POE interface
- Wired/wireless access point unit.
- Associated support equipment (Mast, aiming device, extra CAT5 cable, jumpers, etc.)

Resource Type DH - (Digital HF)

This resource type defines basic equipment for portable operation of an amateur radio station for long and intermediate range digital messaging communications. (Non-line of sight)

- Resource Type H equipment complement
- Pactor capable modem (Pactor II and III capability recommended)
- Computer (laptop or other) with monitor suitable for portable operations capable of running mission applicable amateur radio programs (Printer highly recommended)
- Software for digital messaging (Winlink 2000, Airmail or other)
- Must hold General Class License or higher

Resource Type DV - (Digital ATV)

Self contained portable amateur television transmission/receiving station

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