



Regional Wireless Cooperative (RWC)

P25 Trunked Radio System

Chandler Police Department

Scanner Support:

The information provided in this document is for reference only and does not imply product support or programming assistance is available through the Chandler Police Department, Regional Wireless Cooperative, or any of its partners. Questions regarding scanner programming, configuration, operation, or set up should be directed to the manufacturer or equipment vendor. There are also a variety of resources and support available on the public internet or other various publications.

System Information:

The Regional Wireless Cooperative is a Project 25 digital trunked radio system. The radio network operates in the 700/800 megahertz frequency range. Trunked radio systems do not use dedicated conventional radio channels for communications within a given work group. Radio trunking dynamically assigns radio channels using virtual channels called *talk groups*. Communications between members of work groups take place using these talk groups. Radio conversations are assigned to these talk groups as required by the system controller using information transmitted on the *control channel*. This greatly improves the efficiency of the radio channels by allowing them to be shared on an as needed basis.

Radio Scanners:

Conventional VHF and UHF scanners cannot receive RWC radio transmissions. Specialized receivers that can decode control channel information are required to receive trunked radio systems. There are several consumer-level scanners that can track and decode APCO-25 IMBE digital systems such as used with the RWC. P25 scanners are currently available from a few radio manufacturers. There may be additional products in development that may offer more choices in the relatively near future. The RWC does not endorse or recommend any particular manufacturer or scanner model.

Control Channels:

P25 trunked radio scanners typically need control channel information in order to “learn” about the radio system. The scanner will listen to the data being sent over the control channel to identify talk groups that are being used. The RWC control channel frequencies for the Chandler area are listed here (all frequencies in MHz).

Simulcast C (Ahwatukee/Chandler)

772.10625
770.10625
772.35625
770.35625

Talk Groups:

Agencies utilizing the RWC are assigned ranges of talk groups based on their operational needs. Primary operational non-secure talk group IDs for the Chandler Police Department are listed here:

PATROL A/West of Alma School, North of Germaan (A02)	2498
PATROL B/East of Alma School, North of Germaan (B02)	2485
PATROL C/South of Germaan (C02)	2483
METRO/Valley wide (A06)	2494
EVENT 1/Event coordination (A11)	2489
EVENT 2/Event coordination (A12)	2488
EXPLORER/Explorer Post operations (E11)	2475
JAIL/City Court detention/transportation (J16)	2469