

Technical Services Memo

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Product Code: Various	System: EDACS, Conventional, P25
Part Number/Model: Various	
Maintenance Document N/A	

Category: Mobile / Portable

Subject: Radio personality programming limitations

Summary: A radio personality size is determined by many elements. Among them are Systems, Groups, Conventional channels, and alphanumeric names. It is important to understand how the elements interact with each other, how to manage them and make the changes necessary when faced with personality size / radio memory size constraints.

Action: The following topics are discussed in greater detail in the document: [Radio Programming – Systems/Groups/Channels/Names](#) available from the download section of Tech-Link, or from TAC upon request.

Unique Alpha Names

The radio is limited to 255 unique alpha names, but these 255 alpha names can be applied to different GID numbers as long as they are used in different systems.

Number of Talk Groups

In EDACS, there are 2,048 GID (Group ID) numbers. Each of the allowable 255 system is limited to 64 groups.

Trunked System-Groups

The number of allowable Trunked "System-Groups" is set by the feature encryption in the radio. Commonly used values for this number are 128 or 800.

System-Groups limited by radio personality memory size

Radio memory can accommodate more systems when group-sets are reused in each system.

Number of Systems

In P7100, M7100, and P5100 this number is set to 255, which corresponds to the limit of 255 unique alpha-names for systems.

Conventional Channels

Limited to 255 unique RF frequencies, 255 unique alpha names, 255 systems, 64 channels per system

Feature Encryption Status

ProGrammer cannot determine the capacity of a given radio and will write a larger personality to it. The radio displays "INV SYS" when selected to and beyond the last allowed System-Group.