

Radio Technology Bulletin Common Document

Identifier/Title:	GEN001	Glossary		
Document Type:	<input type="checkbox"/> BPD	<input checked="" type="checkbox"/> GEN	<input type="checkbox"/> OPD	<input type="checkbox"/> WHP

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BPD = Best Practices	OPD = Operations Document
GEN = General Information	WHP = White Paper

Record of Changes

Ver.Rel	Issue date	Revised by	Status	Description
1.0	1/8/2007	J Seefeldt	Downlevel	Original issue
1.1	2/7/2007	J Seefeldt	Downlevel	Revise scan mode definitions.
1.2	11/5/2008	J Seefeldt	Downlevel	Apply boilerplate changes from OA Legal review.
1.3	12/22/2009	J Seefeldt	Downlevel	Change "Tyco Electronics" to "Harris Corporation"; add "PA-STARNet" as defined term.
1.4	10/29/2010	J Seefeldt	Published	Rename from "OpenSky Fleet Map Glossary"; adapt "PA-STARNet" definition to definition in MD 245.15.

Purpose

This document provides general information about the meaning of commonly used terms in fleet mapping for Harris Corporation's OpenSky® trunked radio system architecture.

Content

Following are definitions of selected terms used in OpenSky® fleet mapping:

1. Agency Code
In OpenSky® fleet administration, a three-digit code uniquely identifying an agency account within a Pennsylvania Statewide Radio Network (PA-STARNet) region.
2. Dynamic Regrouping
The creation of a new voice group and automatic assignment of users to that voice group by a system administrator or dispatch console operator, typically to satisfy an unanticipated communication requirement.
3. Emergency Behavior
A feature of OpenSky® fleet management allowing configuration of desired results upon an end user's pressing the emergency button on a subscriber device. Options include generation of a call on a designated voice group within the declarer's selected profile while elevating it to preemptive priority, and generation of a text alert to a designated network device.
4. End User
A system subscriber identified by a unique ten-digit code with the following structure:
RRRAAAUUUU where:
RRR is the three-digit network region identifier
AAA is the three-digit agency account identifier
UUUU is the four-digit unique identifier within region and agency

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An End User is assigned one and only one radio personality, downloaded to the subscriber device upon logging on.

5. Fixed Scan Mode
Scanning of voice groups within a profile, whether priority voice groups (Scan Priority 1 or Scan Priority 2) or nonpriority voice groups, according to administrator selection through the Unified Administration System (UAS), with subscriber device menus and commands for direct selection of scan priority options by the user disabled.
6. Fixed Station
Any subscriber device communicating by means of RF and used with PA-STARNet that is powered on and registered to a voice group for extended periods, and that seldom or never moves. This term is wider in extension than the class of devices designated commercially as "Control Stations." For example, a portable radio left powered on in a desktop charger and registered to a voice group is a Fixed Station under this definition.
7. Fleet
In the OpenSky® system, a set of subscribers, devices, and voice groups with associated configuration parameters defining options for two-way communication among a set of users within an agency identified by an Agency Code, within a Region. In a looser sense, the term refers to the entire collection of these entities and parameters under all Agency Codes assigned to a single organization, across all Regions in which that organization operates.
8. Fleet Map
The mapping of talk groups to organizational units with communication requirements so that all and only those users who need to communicate with each other are able to do so. In the OpenSky® system, voice groups are arranged in profiles, which are in turn arranged in personalities. An agency's fleet map comprises end user accounts, radio personalities, and association of each user with a personality. The fleet map also includes options and features, such as those assigned at the user, voice group, profile, or personality level, including emergency behavior and encryption.
9. Interop Assist
A Harris Corporation software facility providing a drag-and-drop graphical interface to patch two or more voice groups dynamically for shared communication. Up to 16 sets of interconnected voice groups can be active at once.
10. Normal Scan Mode
Scanning of voice groups within a profile, whether priority voice groups (Scan Priority 1 or Scan Priority 2) or nonpriority voice groups, according to user selection through subscriber device menu selections.
11. Pennsylvania Statewide Radio Network (PA-STARNet)
See [Management Directive 245.15, Pennsylvania Statewide Radio Network](#), 4. Definitions.
12. Priority Scan
A feature of voice group profile configuration in the OpenSky® system allowing designation of a limited number of voice groups for call routing (commonly known as "dragging") in order to support reliable communication. Normally, in trunked multicast systems such as OpenSky®, the ability to listen to scanned voice groups is a matter of probability, and for that reason is considered unreliable.

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13. Region
A subdivision of an OpenSky® network under the control of a Regional Operations Center (ROC).
14. Voice Group
A named virtual radio channel associated with a set of system users, providing a means of establishing two-way communication among those users. Voice groups may be either talk groups, allowing two-way communication, or listen groups, allowing the user to listen but not to talk back. Voice groups are defined within an agency account within a network region. The primary instance of a voice group, the "read-write" instance, permits tailoring of administrative options by authorized system administrators. Further "read-only" shared instances can occur within the owning agency's fleet map or in another agency's fleet map, providing extended potential for two-way communication but without the ability to tailor administrative options.
15. Profile
A named ordered set of one to 16 voice groups. Voice group profiles are defined within an agency account within a network region, and owned by the agency for which they are created.
16. Personality
A named ordered set of one to 16 voice group profiles. Personalities are defined within an agency account within a network region, and owned by the agency for which they are created. Each PA-STARNet end user is assigned one and only one radio personality, downloaded to the subscriber device upon login.

Questions

Any questions about this document are to be directed by e-mail to RA-RadioPolicy@state.pa.us.