



FIREGROUND ACCOUNTABILITY

APAA Summary Features

SDI's latest APX™ Personnel Accountability Application (APAA) contains significant capability upgrades to work within the Motorola Solutions ASTRO 25 version 7.17 trunking system, leveraging capabilities provided by trunked radio networks.

These upgrades enable Fire Departments to apply robust and innovative accountability capabilities regardless of whether the Department operates using a trunked or conventional radio system.

A powerful APAA upgrade introduces the "Tactical Alert Messages" features. This new, customizable alert messaging feature allows an Incident Commander to instantly send an alert to every Responder on the talkgroup simultaneously. These alerts initiate visual and audible notifications on the Responder radio. Sixteen different alerts are available for customization. These alerts can be sent individually, to a select group of Responders, or to a single Responder.

Automatic alerting acknowledgements enable Responders to acknowledge an alert by simply pressing the radio PTT button or other programmed radio button. Acknowledgements are managed to avoid radio system overload.

As each Responder acknowledges the alert, APAA graphically displays updates to identify Responders receiving the alert and to denote which Responders did, or did not, acknowledge the alert.

APAA enables another high value feature, "dynamic regrouping", within the trunked environment. With this feature, an Incident Commander can remotely change a radio's talkgroup. If a Responder is on the wrong talkgroup, the Incident Commander can place that Responder back to the correct talkgroup.

Feature	Description
PTT ID Display	Displays radio ID number or radio alias
Tactical Alert Messages	16 Customizable alert messages (see page 2) to be sent from APAA to all, some, or one Responder (e.g., EVAC, Mayday, others)
Automatic Alerting Acknowledgements	Alerts (e.g., EVAC) acknowledged via PTT
Rapid PTT-Based PAR Checks and Rollcall	Graphically organizes Responders to be accounted for; manages PTT ACKs
Accountability Registration	Detects/registers radio at power-up
Clock/Timer Utilities	Provides incident timer and count-down clocks for Units/Companies
Unit Assignment	Enables designating Unit/Company roles
Polling	Polls for radios in the vicinity
Power Down Indicator	Identifies radios that have powered off
Channel-Left Indicator	Identifies radios changing channel
Battery Level Indicator	Identifies radios with low battery levels
Instant Update (trunked only)	Instant APAA update to later-arriving Incident Commanders
Multiple Incident Commander Applications (trunked only)	Can be run by multiple command personnel at one time; can be run remotely from dispatch; can be used to view multiple incidents simultaneously
Dynamic Regrouping (trunked only)	Allows Incident Commander to remotely change a radio talkgroup

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APAA Client User Interface



DEFAULT TACTICAL ALERT MESSAGES

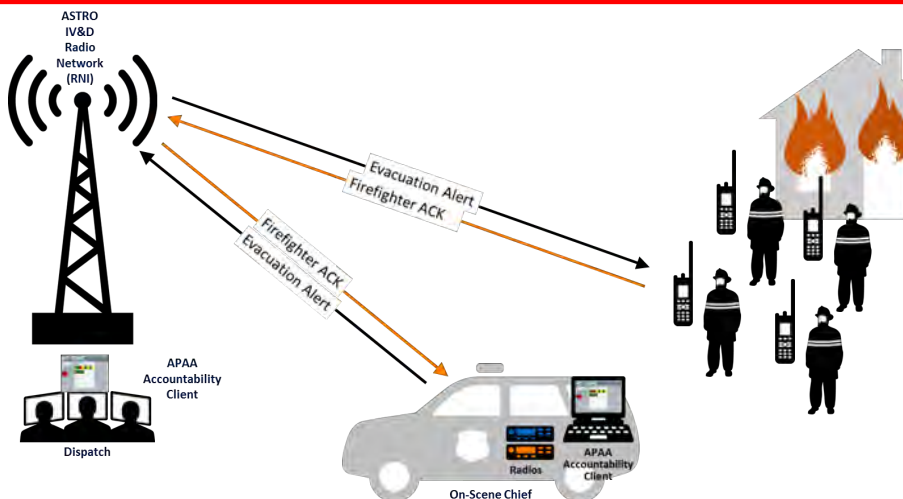
Tactical Alert Messages

- Tactical Alert Messages are sent by the Incident Commander from the APAA client to Responder radios.
- Messages can be sent to all Responders, some Responders, or a single Responder.
- APAA software contains 16 default messages, and these can be customized to include sound tones or voice alerts.
- With Tactical Alert Messaging, Responders push their PTT (or other programmable button) to send a Tactical Alert ACK priority message without producing system busies.
- Refined ACK handling means no longer hearing the dreaded “bonk” system busy sound if too many Responders try to “voice ACK” at the same time.
- When messages are issued, target radios are automatically placed in “message ACK mode” for rapid response (and is NOT interpreted as a request to use voice resources).
- APAA accountability software uses ACKs to rapidly account for Responders and to convey personnel status to command.

Default Tactical Alert Messages

1. Evacuation
2. Emergency Beacon
3. Emergency Rx
4. Mayday Alert
5. Roll Call Requested
6. Emergency Traffic
7. Change to Defensive Mode
8. Change to Offensive Mode
9. Report to Rehab
10. 60 Minutes Into Incident
11. 50 Minutes Into Incident
12. 40 Minutes Into Incident
13. 30 Minutes Into Incident
14. 20 Minutes Into Incident
15. 10 Minutes Into Incident
16. Incident Terminated

Tactical Alert Message – Evacuation Example (Trunked Configuration)



What is ASTRO 25 version 7.17?

The Motorola Solutions ASTRO 25 trunked radio systems use designators to identify the system version number. The APAA accountability solution is integrated with the new Motorola Solutions version 7.17 trunked radio system available in late 2016. By implementing or upgrading to version 7.17, Departments will be able to procure this advanced personnel accountability solution.