



APX™ Personnel Accountability Application (APAA)

Pre-Sale Proposal Questionnaire

Department/Agency:

Prepared By:

Date:

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Accountability Solution Questionnaire

The purpose of this questionnaire is to capture relevant public safety agency data to quote a robust Personnel Accountability solution using Systems Definition, Inc. (SDI) APX™ Personnel Accountability Application (APAA) and EasyStaff® software in conjunction with Motorola Solutions, Inc. (MSI) APX™ radio systems.

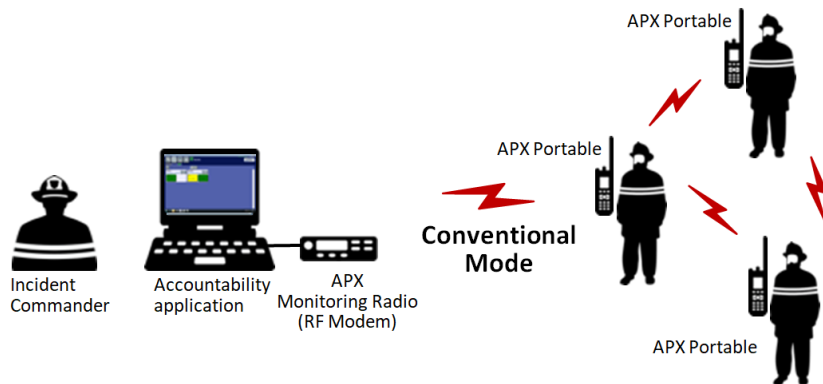
The APAA and EasyStaff® software is developed by SDI, a third-party solutions provider to MSI. Use this questionnaire to document information for a single agency or for multi-agency efforts (e.g., a regional system).

The Personnel Accountability solution provides incident commanders with a critical tool to account for and manage responders at incidents. This solution works in one of two ways, depending on what type of voice communications responders use for incident scene tactical operations. The voice communications can be either conventional operations (radio-to-radio communications) or via Motorola P25 digital trunked radio system.

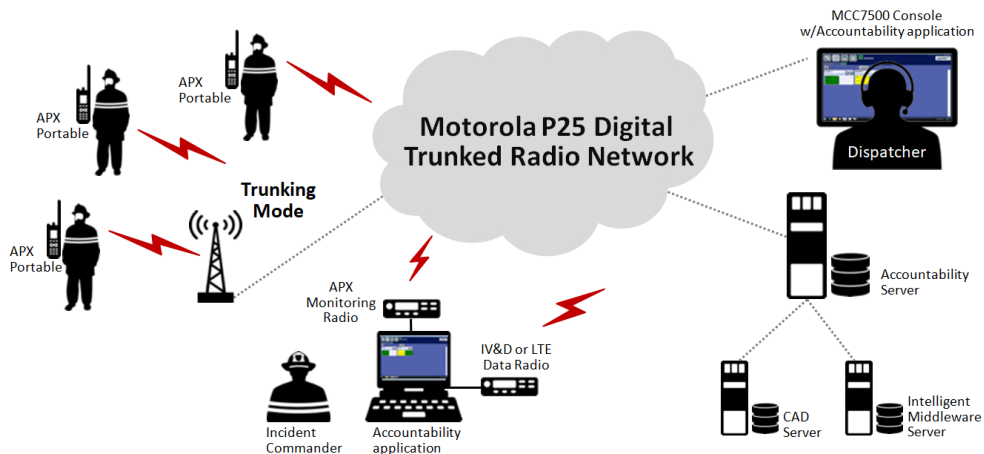
After completing the questionnaire, a conference call is scheduled to clarify information and to resolve any questions. This process enables preparation of a proposal and pricing quote tailored to each agency or department. We look forward to supporting your personnel accountability activities. Please return the questionnaire to:

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Conventional Radio-To Radio Operations:



Motorola P25 Digital Trunked Radio System:



Department/Agency Information

Name:

Location/Address:

Type (check all that apply):

- | | |
|---|--|
| <input type="checkbox"/> Fire / EMS | <input type="checkbox"/> Career / Full-Time Staff / 24-hr |
| <input type="checkbox"/> Law Enforcement | <input type="checkbox"/> Combination Full-Time / Part-Time / Volunteer |
| <input type="checkbox"/> Industrial | <input type="checkbox"/> All Volunteer |
| <input type="checkbox"/> Federal Government | <input type="checkbox"/> Other |

Question 1 - What type of incident scene communications does your agency use?

Please indicate if your agency operates using **Conventional radio-to-radio** mode or **Motorola P25 Digital Trunked** mode as your primary means for incident scene communications.

Conventional Radio-to-Radio Motorola P25 Digital Trunked Both May Be Used

Question 2 - How many Accountability Client licenses do you plan to use?

The APX Personnel Accountability Application (APAA) client software can be operated locally at an incident (e.g., on a laptop in a command vehicle) or back at Dispatch on a Motorola MCC7500 dispatch console (trunked only). Please indicate the **Quantity of Accountability clients** needed at each location.

Quantity of Vehicle clients?

Quantity of Dispatch clients (trunked)

PC Models /operating system (Windows, Apple)?

Question 3 - How many APX radios will be a part of your Accountability solution?

Personnel Accountability is based on each responder carrying an APX radio and being on the voice channel used for incident scene communications. Please indicate the **total number of APX radios** to be used as a part of the Personnel Accountability solution.

Quantity of APX radios used as a part of Accountability?

Question 4 - Do your APX radios have Personnel Accountability option Q445?

APX portable radios used by responders must have the Personnel Accountability option Q445 enabled to be a part of the Accountability solution. Please indicate if **APX radios have the Personnel Accountability (Q445)** already flashed/enabled in the radios.

Is the Q445 option enabled in the APX radios? Yes No

Question 5 - Conventional Radio Operations

This question is for agencies that plan to deploy the Personnel Accountability solution using Conventional radio operations. Please skip to Question 6 if you plan to deploy via trunked operations. The simplest Conventional mode is radio-to-radio operation (simplex) but it may also operate in radio-to-repeater-to-radio mode (repeater). There are other Conventional modes that may be used at incident scenes depending on your operation. Please identify which Conventional mode your responders use for incident scene communications (check all that apply).

- Radio-to-radio (Simplex)
- Radio-to-Repeater-to-Radio (Repeater)
- Radio-to-Comparator-to-Radio (Simulcast/Voted)
- Other (provide details, if known)

Question 6 - P25 Trunked Radio System Operations

The following questions (please address as many as possible) are for agencies that use/or plan to deploy the Personnel Accountability solution on a Motorola P25 Digital Trunked Radio System. Note that the system must be at the ASTRO 7.17 system release or later to support Personnel Accountability.

What System Release is the Motorola P25 Digital Trunked Radio System?

Is there an Enablement server available to host the Accountability server?

Yes No

Is there an IMW server on the ASTRO System?

Yes No

What version is the IMW that is currently on the ASTRO System?

Are the APX radios to be used currently licensed for Presence?

Yes No

How many ASTRO zones/cores will the APX radios operate within?

Is the ASTRO System configured for DSR operation?

Yes No

Are there Enhanced Data channels available on the ASTRO System?

Yes No

Has there been a recent data capacity study done on the ASTRO System?

Yes No

Does the ASTRO System use a CSMS for Anti-Virus protection?

Yes No

Do the vehicle laptops have broadband connectivity that can be used for VPN connectivity to the Accountability server?

Yes No

Does the CEN network have external network connectivity (internet)?

Yes No

Are any MCC7500 Cohab Accountability clients to be located in a Control Room CEN or outside the RNI?

Yes No

Are Futurecom DVRs used for extending trunking radio coverage?

Yes No

Question 7 - Computer Aided Dispatch (CAD)

The Personnel Accountability solution can be configured to interface with an agency CAD system to receive incident-specific information to support filtering out radios not present on scene. This is mandatory for trunked deployments, not required for conventional deployments). See Attachment A for additional information. If multiple agencies are part of this quote, please identify all CAD systems in use.

Does your agency use CAD for dispatching purposes? Yes No

Please identify CAD applications used.

Question 8 - Ride Lists and Rostering

The Personnel Accountability solution has the ability to display personnel ride list/rostering data to the incident commander. The EasyStaff® software is bundled as part of the Accountability Solution to provide radio identification and personnel rostering capabilities. Additionally, if available, the Personnel Accountability solution can be configured to interface to an existing agency rostering system (e.g., Telestaff) pending agency capability to output the data.

Does your agency use a rostering database to track personnel on duty? Yes No

Identify existing rostering application

Question 9 - Data Connectivity from Command Vehicles/Field PCs

The preferred Personnel Accountability solution implementation includes a broadband capability to download radio ID lists, roster data, and APAA software updates and to upload collected APAA log data. This data connection typically leverages an already existing Department broadband connection such as FirstNet or Verizon.

Please summarize data connectivity information (e.g., is broadband available from the PC running APAA, are VPN services established). For trunked deployments, identify available data services to be used to connect the Accountability client in the field to the Accountability server in the network.

Question 10 - Use of SCBA

APAA supports an interface to properly equipped 3-M Scott Safety SCBA gear to receive air telemetry and PASS alarm data to display Member air levels, to capture PASS alarms, and to support EVAC and Rollcall.

Does your department use 3-M Scott SCBA equipment? Yes No

Please specify model/type.

SCBA identification information is required as a means to understand who is operating on the fireground. How are SCBA ensembles assigned (e.g., by riding position)? Please specify below.

Is this ID available in digital format? Yes No

Question 11 - Operations Training

Proper training is key to successful accountability solution deployment. The accountability solution fielding services typically encompass 3 days of on-site training to Fire Operations personnel. Training sessions are geared to Member-level familiarity training (2-hour session) and Incident Commander/APAA Operator hands-on training (4-hour session). Training includes RF basics, APAA software familiarity, tactical alerts, maydays, incident management, and application usage. During training, Members (non-APAA operators) learn about basic APAA functions while Incident Commanders/APAA Operators get hands-on time using and exercising APAA.

Please enter the number of days of operations training required.

Question 12 - Follow-on Support and Upgrade Services

Three years of follow-on technical support and upgrade services are typically included with purchase of the Personnel Accountability solution. These services encompass remote phone support, bug fixes, and APAA software upgrades and technology updates (e.g., to work with new operating system versions). Support services are for SDI remote support and exclude training activities.

Please enter the number of years of follow-on support and upgrade services required.

Question 13 - Information Assurance

Federal Government software deployments may require that an Information Assurance (IA) assessment be conducted to demonstrate that required cyber-security mechanisms are implemented as the Personnel Accountability solution is integrated into existing system resources. Deployment services can be scoped to include support to assist agency IA compliance efforts. Please indicate if the Personnel Accountability solution deployment requires a customer-specific Information Assurance assessment.

Yes No

Attachment A - Computer Aided Dispatch (CAD) Interface

APAA uses CAD data to filter units assigned to an incident. Selecting an incident (see figure below) enables APAA to display only those units assigned to the desired incident. This filters out radio traffic generated by units not assigned to that specific incident but that may be listening on the same talkgroup. This CAD interface is typically required for trunked system deployments but not for conventional deployments (pending specific Department operations).

In an ASTRO system, the APAA-CAD interface server software typically resides on the Enablement Server in the CEN to pull a limited dataset from the CAD system. See table below. Various options exist to establish the interface—APAA can be configured to pull the data, the CAD system can publish the data, and so forth. This approach leverages such mechanisms as a Web API, File Transfer Protocol (FTP)/SCP, or database connection. The interface hits the server database view or web endpoint to process data and to create a data path for APAA clients in the field to access and retrieve incident data.

CAD Data Elements

CAD Data	Description
Incident ID	A unique identifier assigned by CAD to each incident (can be of any data type).
Last Updated Time	Provides information about the last time the incident was updated by CAD. This provides CAD refresh activity and allows server-side filtering of incidents (e.g., filter out inactive incidents).
Incident Start Time	Provides start of incident timestamp information.
Address	Provides incident address information.
Units Assigned	This data is displayed in the incident select window and reflects unit assignment data received from the CAD system. APAA filters out radio traffic of any units not assigned to the incident and also provides the On Scene feature to manually override CAD data, if required.
Incident Status	Identifies open and closed incidents (closed incidents are filtered out).
Incident Description*	Contains incident description information and is displayed in the incident select window, if available.
Incident Priority*	Contains incident priority description information.

*optional

APAA User Interface- Incident Select List

