

Interoperable Communications Investment Proposal (ICIP)

Applicants proposing a project with an interoperable communications or electronic information sharing component must complete the Interoperable Communications Investment Proposal (ICIP) template beginning on page 3.

Description

Interoperable communications projects improve sharing of electronic information (voice, data, images, video), via radio, internet, microwave, computers, satellites, fiber optics, etc. Interoperable Communications projects may include the purchase or modifications of radios, transmission towers and other communications related equipment and software. Interoperability projects may also include efforts related to communications training and exercises, education and outreach, programming radios, development of Standard Operating Procedures, Tactical Interoperability Communications Plans, etc.

Guidance and Compliance

ICIPs submitted for these projects are reviewed by the Statewide Interoperability Coordinator (SWIC) and/or the Statewide Interoperability Executive Committee (SIEC) Executive Management Committee and recommended back to the grantor as compliant or amended/denied if not compliant. Compliance requirements are listed here:

1. Interoperable Communications projects must align with the goals identified in the Commonwealth's current Statewide Communications Interoperability Plan (SCIP). The 2020 plan can be found at www.mass.gov/doc/massachusetts-statewide-communication-interoperability-plan-scip-2020.
2. Interoperable Communications projects must meet applicable SAFECOM P25 guidance as published on the Cybersecurity and Infrastructure Security Agency (CISA) grant guidance document page (<https://www.cisa.gov/publication/emergency-communications-grant-guidance-documents>). This includes P25 standards for radio equipment encryption. Additional encryption guidance is available from the SIEC as a Guidance Bulletin (20-1: Public Safety Agency Encryption Guidance, <https://www.mass.gov/doc/public-safety-encryption-guidance-bulletin>).
3. Radio equipment subscriber units purchased with SIEC approved funding must be programmed with the Massachusetts Tactical Channel Plan (MTCP) in the radio, in addition to the purchaser's chosen channel programming lineup.

When completing the ICIP, applicants should provide a clear description of the interoperability problem or gap. **As an example:**

Problem: Although Mutual Aid Agreements are in place between the applicant and its four neighboring towns for public safety support during emergencies, the towns have no common radio frequencies or Standard Operating Procedures. Thus, radio communications cannot occur amongst the disparate radios during an emergency.

Background Information Investment Description: It was learned during a multiple alarm chemical fire that responders from the five mutual aid towns were unable to communicate directly with each other effectively. Subsequently, a consultant was hired to develop an interoperable communications plan that assessed the communications gaps and recommended solutions. This project seeks to implement the plan by replacing 30 incompatible portable radios, reprogramming all remaining (220 portable and 15 fixed) radios, conducting 3 training classes for the use of the equipment and the Standard Operating Procedures and conducting 1 table top exercise that will include all 5 towns that are included in the Mutual Aid Agreements.

Exemptions

Please note that the following items do not need SWIC or SIEC review, or completion of an ICIP as part of the grant application process:

- Batteries
- Cameras – Unless the project included backhaul infrastructure to be used for information/data sharing
- Computer Aided Dispatch (CAD)/Records Management System (RMS) Software
- Computers, general purpose – Unless used for information/data sharing
- GPS units
- Microphones (including collar/throat microphones)
- Multi-channel recorders
- Netclocks
- Warranties/Maintenance
- Wireless air cards
- Wireless IP routers

Questions

Any questions about the ICIP process, interoperability requirements, P25 compliance or interoperability equipment programming, please contact the Massachusetts Statewide Interoperability Coordinator (SWIC) at ma.swic@mass.gov.

Interoperable Communications Investment Proposal (ICIP)

Please complete all sections except for *SIEC Review Section*.

The completed ICIP form must be emailed with your grant application to:

Agency Name	City of Boston Office of Emergency Management
Email Address	steven.craney@boston.gov

For equipment purchases, a vendor price quote that includes the equipment make, model and specifications must be submitted with this form. Please identify the quote number(s) or other identification code(s) associated with this proposal in the requesting cell below so the correct quote is tied to the ICIP during review.

Community Name	Somerville Police Department		
Project Point of Contact	Lt. Tim Mitsakis		
Phone #	617-504-2067	Email	tmitsakis@police.somerville.ma.us

FFY / Program	UASI FFY21	Project Costs	\$199,954.54
Project Start Date	08/15/22	Project End Date	06/30/24
Investment Name	U21-4.2 Subscriber Units		
Vendor Quote #	1845988		

Investment Summary (describe your project)

This project continues a phased investment in upgrades to portable subscriber units (radios) for the region. The City of Somerville has ongoing day-to-day, special event and MCI Land-Radio (LMR) operational communications needs that require dual-band radios to ensure effective communications across various radio technology system platforms. Initial investments starting in FFY09 were made in single-band radios, and based on updated guidance and best practices, SPD will continue to implement dual-band radios to replace outdated portable units for personnel within the city. This project supports the Operational Communications Core Capability.

Communications Interoperability Problem Description

There is a continuing need for public safety agencies (Law Enforcement, Fire Services, Emergency Medical Services and others) to effectively communicate for ongoing day-to-day operations, special events, emergencies, Mass Casualty Incidents and Land Mobile Radio (LMR) situations. These needs require dual-band radios to ensure appropriate interoperable communications across many radio technology platforms. Currently, outdated equipment with insufficient capabilities still exist across many shared channels between Fire/Police/EMS disciplines and cross-jurisdictional mutual aid communications.

Background Information / Detailed Investment Description

This purchase will be for 23 APX8000 Dual-Band Portable radios. For additional information and accompanying equipment, please refer to attached quote #1845988.

Expected Outcomes- Describe the communications interoperability gaps that will be addressed

Investment in this communications equipment will:

- 1) Enhance our MBHSR first-responder agencies with improved communications across jurisdictions, agencies and geographical regions
- 2) Offer expanded access to channel resources throughout the Commonwealth of MA
- 3) Contribute to the replacement of end-of-life portable radio equipment

SCIP Goals- Identify each SCIP goal (check the box) that this investment will support and describe how that support will be accomplished. The current Massachusetts SCIP can be found here:

www.mass.gov/doc/massachusetts-statewide-communication-interoperability-plan-scip-2020

Goal		Describe support
<input type="checkbox"/>	Governance	
<input type="checkbox"/>	SOP	
<input type="checkbox"/>	Technology	Purchase subscriber units for municipalities within the MBHSR (Somerville)
<input type="checkbox"/>	Training & Exercise	

Ownership - Identify the proposed owners of all assets procured with this investment.

Organization	Asset Description
Somerville Police Department	23 APX 8000 2.4 Portable Radios

Usage Plan - Describe the usage plan for the equipment / project

The subscriber units will be procured by the City of Somerville. The units will be distributed to LE, PSC and FS for day-to-day operations, special events and MCI situations to strengthen interoperable communication capabilities.

Disciplines- Identify each responder discipline that will enhance its communications interoperability from this investment and describe the interoperability enhancement


Please use the following abbreviations to represent the corresponding discipline: LE - Law Enforcement; EMS - Emergency Medical Services; EMA - Emergency Management Agency; FS - Fire Service; HZ – HAZMAT; PW - Public Works; PH - Public Health; GA – Governmental Administrative; PSC - Public Safety Communications; HC - Health Care; O-Other

Discipline	Enhancement
LE	Enhanced public safety communications
PSC	Enhanced public safety communications
FS	Enhanced public safety communications

Multi-Jurisdictional Interoperability - All investments must provide interoperability between two or more jurisdictions. Identify each jurisdiction that will achieve interoperability from this investment.

This investment will improve valuable operational communications for the City of Somerville and continue to enhance interoperability throughout the complete MBHSR.

Following Section will be completed by SIEC:

REVIEW STATUS	APPROVE	AMEND	DENY
Statewide Interoperability Coordinator (SWIC) Recommendation	✓		
Executive Management Committee (EMC) Recommendation	✓		
Statewide Interoperability Executive Committee (SIEC) Recommendation	N/A		
Applicant notified of Recommendation			
SIEC Member Signature / Date	 Richard Fiske, MA SWIC Executive Office of Public Safety and Security - 9/8/22		

The attached Special Condition must be signed and submitted with your completed ICIP form. ICIP forms submitted without the signed Special Conditions will not be reviewed.

**MASSACHUSETTS
STATE INTEROPERABILITY EXECUTIVE COMMITTEE (SIEC)**

**Special Conditions for Interoperability and Information
Sharing Grants *Version 2.1 – December 2020***

Radio (RF) Equipment Purchase specifications – All radio equipment purchased, upgraded or programmed from SIEC-approved funding will meet current SAFECOM P25 compliance requirements as published on the Cybersecurity and Infrastructure Security Agency (CISA) grant guidance document page (<https://www.cisa.gov/publication/emergency-communications-grant-guidance-documents>). Additionally, this equipment will comply with the SIEC Guidance Bulletin 20-1: Public Safety Agency Encryption (<https://www.mass.gov/doc/public-safety-encryption-guidance-bulletin>).

Radio (RF) Equipment programming – Compliance with this section is met by programming the full Massachusetts Tactical Channel Plan (MTCP) by appropriate band in all purchased RF equipment.

1. **National Interoperability Channels - Common.** All radios purchased, upgraded, or programmed from SIEC-approved funding must include a minimum channel complement of the National Interoperability Channels respective to the frequency band the radio operates on, (VTAC, UTAC, 8TAC, etc.). All National Interoperability Channels will use the National Public Safety Telecommunications Council (NPSTC) naming conventions.
2. **National Interoperability Channels – Discipline.** All radios purchased, upgraded, or programmed from SIEC-approved funding should include the discipline-specific National Interoperability Channels when room is available in the radio, (VLAW, VFIRE, VMED). All National Interoperability Channels will use the National Public Safety Telecommunications Council (NPSTC) naming conventions.
3. **Statewide Interoperability Channels.** All radios purchased, upgraded, or programmed from SIEC-approved funding must include statewide interoperability channels as identified in the MTCP. These channels will be programmed according to the MOU or guidance in place for the statewide system and participating agency. (Examples include: State Police 800MHz LPS Channels, FAMTRAC, MEMA VHF Channels, etc.)
4. **Regional Interoperability Channels.** All radios purchased, upgraded, or programmed from SIEC-approved funding must include regional interoperability channels as identified in the MTCP. These channels will be programmed according to the MOU or guidance in place for the statewide system and participating agency. (Examples include: BAPERN, WMLEC, Fire District Mutual Aid Channels, etc.)
5. **Cached Radios.** Cached radios purchased, upgraded, or programmed from SIEC-approved funding must include the standard interoperability template as identified in the MTCP.
6. **Radio Reprogramming.** Any reprogramming of existing equipment supported by SIEC-approved funds will follow the conditions above. If a reprogrammed radio does not possess the channel capacity to meet the MTCP programming requirements above, the SIEC will provide additional guidance.

Communications Asset Tracking Requirements

7. **CASM Data-Entry.** All transmitting/receiving RF devices purchased with SIEC-approved funding will be entered into CASM (Communications Asset Survey & Mapping tool) by the region, state agency or organization receiving the award.
8. **CASM Maintenance.** The organization receiving SIEC-approved funding agrees to maintain current and accurate information in CASM for the equipment entered should changes occur.

Training, Exercise and Usage Requirements

9. **Training.** Recipient agrees to report results of the training program identified in the application associated with interoperability awards.
10. **Exercise.** Recipient agrees to report results of the tiered communications requirements for exercises to the SIEC. The SIEC will provide tiered communications requirements for all exercises using voice or data systems supported by SIEC-approved funding.
11. **Usage.** Recipient agrees to track results of the usage plan identified in the application. This information may be requested during monitoring, site visits, or during other SIEC-approved activities.

Additional Requirements

12. **SIEC Policies and Guidance Bulletins.** To the extent applicable and/or practical, the recipient agrees support, to the best of their current ability, any future SIEC policies and guidance bulletins introduced for the furthering of interoperable communications across the Commonwealth.
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Information Sharing Purchase compliance – Information sharing is defined as, “Making information available to participants (people, processes, or systems).” Proposals with an information sharing component must meet the following conditions:

1. **Agreement to contribute data to appropriate Federal and State Systems or Repositories.** Where applicable, grantees will be required to contribute data to Federal and statewide systems or repositories. The following is the list of potential systems and repositories:
 - Massachusetts Criminal Justice Information System (CJIS): (inmate data – state and county)
 - Massachusetts State Police Identification Section: (ten print arrest fingerprint cards and mug shots)
 - Massachusetts Statewide Information Sharing System (SWISS): (police incident data)
 - Massachusetts CopLink: (police and custodial records management systems data)
 - Mass-Gangs: (gang intelligence data)
 - Massachusetts Offense Based Tracking Number (OBTN) system (unique number system for arrests or charges)
 - Massachusetts Ambulance Trip Record Information System (MATRIS) (EMS data collection system required by OEMS)
 - National Fire Incident Reporting System (NFIRS)
 - National Incident Based Reporting System (NIBRS)


Applicants must include in their application (narrative and budget) the costs – that are allowable under the respective grant program - associated with meeting the following five (5) general requirements to contribute data to the applicable system or repository.

1. Assign internal resources and/or hire resources to develop, test, and implement the functional and technical requirements;
2. Procure the required software and hardware;
3. Conduct acceptance testing;
4. Sign-off on acceptance testing; and
5. Assign internal resources and/or hire resources to maintain the technical environment.

Contact the Executive Office of Technology Services and Security (EOTSS) if additional information is required.

2. **National Information Exchange Model (NIEM) Conformance.** Applicants applying for grant funds to develop new data exchanges must commit to developing these exchanges incorporating the NIEM data exchange standards. Applicants must include in the narrative of the grant application a description of how the project will achieve NIEM conformance. For additional information on NIEM, please visit www.niem.gov
3. **Security Policies and Standards.** Applicants will abide by any of the following policies and standards that apply to the project.
 - a. **Commonwealth of Massachusetts Enterprise Information Security (EIS) Policy and Standards.** State agencies or organizations under the Executive Branch must comply with the latest published EIS standards as applicable. These standards may be accessed at <https://www.mass.gov/handbook/enterprise-information-security-policies-and-standards>.
 - b. **Commonwealth of Massachusetts Web Accessibility Standards.** Grant applications that propose to implement Internet or Intranet based web-browser interfaces must conform to the Commonwealth’s Web Accessibility Standards. These standards may be accessed at <https://www.mass.gov/guides/web-accessibility-standards>.
 - c. **Security Policies and Standards.** If an information sharing or data exchange project proposes the sharing or exchanging of Criminal Offender Record Information (CORI) data as defined in Massachusetts General Law Chapter 6 Section 168-172, the applicant and all participants within the project must ensure that all systems conform to the standards set forth in the current version of the FBI’s *CJIS Security Policy*.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above conditions.

Print Project Name	U21-4.2 Radio Units		
Authorized Signature		Date	08/22/22
Print Name	Nancy Anderson		
Print Title	Deputy Director, Boston Office of Emergency Management		

Billing Address:
SOMERVILLE POLICE DEPT,
CITY OF
220 WASHINGTON ST
SOMERVILLE, MA 02143
US

Shipping Address:
SOMERVILLE POLICE DEPT,
CITY OF
220 WASHINGTON ST
SOMERVILLE, MA 02143
US

Quote Date:08/11/2022
Expiration Date:11/09/2022
Quote Created By:
Brad Graci
brad.graci@
motorolasolutions.com

End Customer:
SOMERVILLE POLICE DEPT, CITY OF
Tim Mitsakis
tmitsakis@police.somerville.ma.us

Contract: 22564 - PSE01 MA STATE

Line #	Item Number	Description	Qty	List Price	Disc %	Sale Price	Ext. Sale Price
	APX™ 8000 Series	APX8000					
1	H91TGD9PW6AN	APX 8000 ALL BAND PORTABLE MODEL 2.5	10	\$7,108.00	25.0%	\$5,331.00	\$53,310.00
1a	QA05508AA	DEL: DELETE VHF BAND	10	-\$800.00	0.0%	-\$600.00	-\$6,000.00
1b	Q806CB	ADD: ASTRO DIGITAL CAI OPERATION	10	\$567.00	25.0%	\$425.25	\$4,252.50
1c	H38BS	ADD: SMARTZONE OPERATION	10	\$1,650.00	25.0%	\$1,237.50	\$12,375.00
1d	Q361AN	ADD: P25 9600 BAUD TRUNKING	10	\$330.00	25.0%	\$247.50	\$2,475.00
1e	QA00580AA	ADD: TDMA OPERATION	10	\$495.00	25.0%	\$371.25	\$3,712.50
1f	QA01767AB	ADD: P25 LINK LAYER AUTHENTICATION	10	\$110.00	25.0%	\$82.50	\$825.00
1g	Q629AH	ENH: AES ENCRYPTION AND ADP	10	\$523.00	25.0%	\$392.25	\$3,922.50
1h	H869BW	ENH: MULTIKEY	10	\$363.00	25.0%	\$272.25	\$2,722.50
1i	Q58AL	ADD: 3Y ESSENTIAL SERVICE	10	\$121.00	0.0%	\$121.00	\$1,210.00



Line #	Item Number	Description	Qty	List Price	Disc %	Sale Price	Ext. Sale Price
2	PMMN4106CBLK	AUDIO ACCESSORY- REMOTE SPEAKER MICROPHONE,XE500 REMOTE SPKR MIC WITH CHANNEL KNOB, HIGH IMPACT BLACK	15	\$665.28	31.0%	\$459.04	\$6,885.60
3	PMNN4486A	BATT IMPRES 2 LIION R IP67 3400T	17	\$179.30	31.0%	\$123.72	\$2,103.24
4	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	15	\$169.56	31.0%	\$117.00	\$1,755.00
	APX™ 8000 Series	APX8000					
5	H91TGD9PW6AN	APX 8000 ALL BAND PORTABLE MODEL 2.5	13	\$7,108.00	25.0%	\$5,331.00	\$69,303.00
5a	QA05508AA	DEL: DELETE VHF BAND	13	-\$800.00	0.0%	-\$600.00	-\$7,800.00
5b	Q806CB	ADD: ASTRO DIGITAL CAI OPERATION	13	\$567.00	25.0%	\$425.25	\$5,528.25
5c	Q361AN	ADD: P25 9600 BAUD TRUNKING	13	\$330.00	25.0%	\$247.50	\$3,217.50
5d	H38BS	ADD: SMARTZONE OPERATION	13	\$1,650.00	25.0%	\$1,237.50	\$16,087.50
5e	QA00580AA	ADD: TDMA OPERATION	13	\$495.00	25.0%	\$371.25	\$4,826.25
5f	QA01767AB	ADD: P25 LINK LAYER AUTHENTICATION	13	\$110.00	25.0%	\$82.50	\$1,072.50
5g	Q629AH	ENH: AES ENCRYPTION AND ADP	13	\$523.00	25.0%	\$392.25	\$5,099.25
5h	H869BW	ENH: MULTIKEY	13	\$363.00	25.0%	\$272.25	\$3,539.25
5i	Q58AL	ADD: 3Y ESSENTIAL SERVICE	13	\$121.00	0.0%	\$121.00	\$1,573.00
6	PMNN4486A	BATT IMPRES 2 LIION R IP67 3400T	20	\$179.30	31.0%	\$123.72	\$2,474.40
7	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	20	\$169.56	31.0%	\$117.00	\$2,340.00



Line #	Item Number	Description	Qty	List Price	Disc %	Sale Price	Ext. Sale Price
8	PMMN4099CL	AUDIO ACCESSORY- REMOTE SPEAKER MICROPHONE,IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	20	\$142.56	31.0%	\$98.37	\$1,967.40
9	PMLN7904A	CARRY ACCESSORY- CASE,APX6000 CC 2.75 SWLBL TIA BATTERY	20	\$85.32	31.0%	\$58.87	\$1,177.40

Grand Total
\$199,954.54(USD)
Notes:

- Motorola Solutions
PO Box 799
Sutton MA. 01590-0799
- Unless otherwise noted, this quote excludes sales tax or other applicable taxes (such as Goods and Services Tax, sales tax, Value Added Tax and other taxes of a similar nature). Any tax the customer is subject to will be added to invoices.



Purchase Order Checklist

Marked as PO/ Contract/ Notice to Proceed on Company Letterhead
(PO will not be processed without this)

PO Number/ Contract Number

PO Date

Vendor = Motorola Solutions, Inc.

Payment (Billing) Terms/ State Contract Number

Bill-To Name on PO must be equal to the *Legal* Bill-To Name

Bill-To Address

Ship-To Address (If we are shipping to a MR location, it must be documented on PO)

Ultimate Address (If the Ship-To address is the MR location then the Ultimate Destination address must be documented on PO)

PO Amount must be equal to or greater than Order Total

Non-Editable Format (Word/ Excel templates cannot be accepted)

Bill To Contact Name & Phone # and EMAIL for customer accounts payable dept

Ship To Contact Name & Phone #

Tax Exemption Status

Signatures (As required)