

Internet of Things Advisory Board Public Safety Subgroup

Draft Recommendations
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Subgroup Members:

Ann Mehra

Nicole Coughlin

Maria Rerecich

Promote Interoperability of Public Safety IoT Data

Justification

- Interoperability of IoT device data would enhance incident responses and coordination among responder teams, providing safety benefits that would encourage the adoption of IoT.
- Proliferation of IoT devices without interoperable data will make it difficult to achieve interoperability the longer it diverges.
- Barriers to prioritizing data interoperability when procuring public safety IoT devices include limited budgets but also lack of understanding of what to require.

Advocate for the implementation and adoption of interoperable data **standards** for public safety IoT.

Facilitate adoption by funding **grants** for jurisdictions/agencies for procurement of interoperable IoT solutions.

Develop a program of education/training for jurisdictions/agencies to inform of **best practices** for interoperability.

Implementation

- Compile guidelines and best practices for entities to follow, e.g.:
 - NIST IR-8255: Interoperability of Real-Time Public Safety Data
 - CISA SAFECOM Interoperability Continuum
 - etc.
- Coordinate with relevant stakeholders, including product manufacturers and state/local agencies, to ensure widespread adoption.

Barriers

- Resistance from jurisdictions and public safety agencies that have already invested in an IoT solution
- Resistance from industry manufacturers because of concerns about their proprietary solutions

Agencies

- National Institute of Standards and Technology (NIST)
- Department of Homeland Security (DHS), Cybersecurity and Infrastructure Security Agency (CISA)
- Others?

Federal Considerations

- Procurement: Prioritize solutions which adhere to interoperability guidelines in govt contracts for public safety IoT
 - Bulk purchase pricing a la GSA catalog
- Tax Incentives: To companies that implement public safety IoT with interoperable data standards.
- Promotion: Promote interoperable data guidelines for public safety IoT and educate local/regional jurisdictions.

Incentivize Budget Prioritization for Public Safety IoT

Justification

Without citizens living in safe environments and conditions, the US government has no public safety matters to deal with. Therefore, the safety and wellbeing of each and every citizen is paramount and vital to all nations. Having a stockpile of certified and approved devices to be used by law enforcement, EMS, fire, and rescue will enable public safety officials to arrive at scenes of crime and disasters armed with devices that interoperate, can be shared/exchanged while on duty, and enable ease-of-use

Create a stockpile of public safety IOT devices that are finite in type and need, but contains a medley of manufacturers to choose from rather than a single or a couple of manufacturers from which stockpiles are sourced. **Refresh** the stockpile per labeling requirements and best use-by date.

Barriers

- Lack of funding and resources needed to manage an additional set of assets found in stockpile.

Implementation

- Similar to the HHS stockpiles of vaccines, PPE, etc., we recommend the US government add public safety devices to their procurement list.
- Initial and ongoing funding is needed along with cooperation from manufacturers who wish to participate in the stockpile program develop APIs and interoperability to other competing and complementary devices.

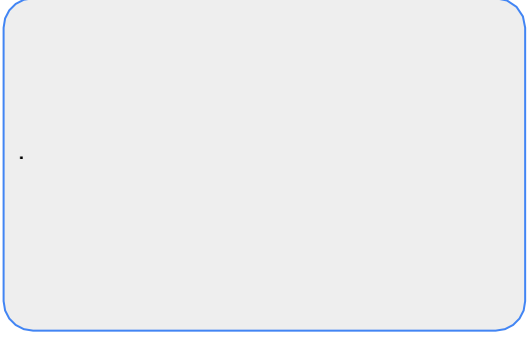
Federal Considerations

- The safety and well being of all its citizens, namely, the purpose for why the US government exists.

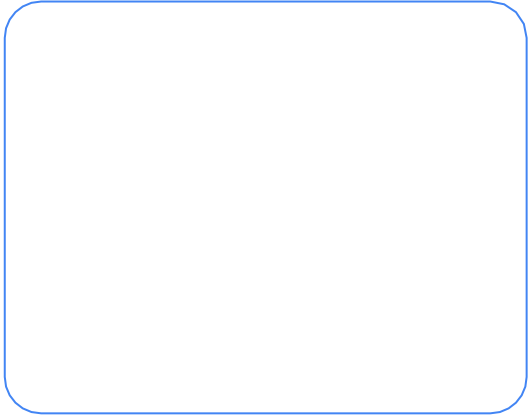
Agencies

- FCC
- HHS
- DHS
- Others?

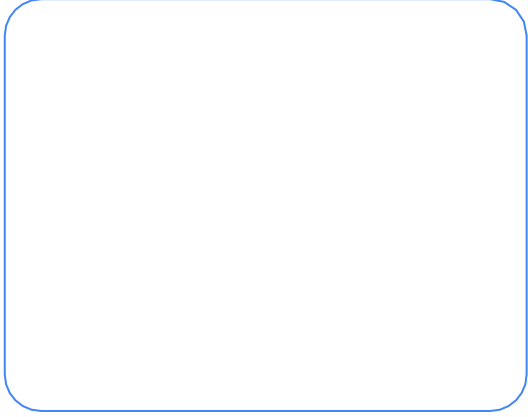
Justification



Barriers



Implementation



Federal Considerations



Agencies

