# Internet of Things Advisory Board Healthcare Subgroup

Draft Recommendations

May 2023

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## Justification

### Raise Priority for IoMT to Healthcare Facilities' Executive Leadership Teams

Make **IoMT** equivalent in **priority** for all healthcare stakeholders as is IT infrastructure, cybersecurity posture, or applications.

Recommend the notion of a **Chief IOT Officer** and a **Federal program office** to manage IOTs.

- IoMTs monitor, detect, inform, and deliver therapies to patients, therefore, they deserve just as much attention and call out as cloud services, for example.
- IoMTs are ignored by healthcare IT organizations, as the responsibility to make decisions and/or purchase the devices is owned by the biomedical engineering department.
- IoMTs may not undergo strict infrastructure, privacy, and security guidelines as to large capital equipment investments such as MRI scanners.

mplementation Agencies Federal Considerations Barriers

### Promote Data Exchange Interoperability for IoMT

Promote and, if necessary, develop a protocol for data exchange standards for IoMT for interoperability, and promote the adoption of these standards.

## mplementation

 Coordinate with relevant stakeholders. including product manufacturers and healthcare organizations, to ensure widespread adoption.

## Agencies

- NIST
  - CISA
  - HHS

• Data exchange standards for IoMT would result in data interoperability, which would result in efficiencies and provide safety benefits that would encourage the adoption of IoT.

### Barriers

- Resistance from healthcare organizations that have already invested in an IoT solution
- Resistance from industry manufacturers because of concerns about their proprietary solutions and captive user base.

# Federal Considerations

- Procurement: Prioritize solutions which adhere to the IoMT data exchange standard in government contracts
- Tax Incentives: Provide tax benefits to companies that implement the IoMT data exchange standard
- Promotion: Promote the IoMT data exchange standard and educate healthcare organizations about the benefits.

## Justification

#### **HIPAA-like Protection for Medical Data in Mobile Apps and IoT Devices**

Enact HIPAA-like protection for users' medical data in mobile applications and IoT devices.

Consider medical data as a category for defined data protections.

# mplementation

 Extend HIPAA protections to these classes of devices and mobile apps, or enact a similar type of protection

## **Agencies**

• HHS

- Many consumer-grade IoT devices and mobile apps collect users' sensitive medical data.
- Consumers tend to believe that this data is protected similarly to medical data in a healthcare facility, but it is not.

### Barriers

 Possible resistance from industry manufacturers to restricting the sharing of user data.

# Federal Considerations

 Regulation: Enact HIPAA-like regulations to protect user PHI in consumer IoT devices and mobile apps

Justification