

Medical Device Coordination Framework

<http://mdcf.santos.cis.ksu.edu>

An Open Test Bed for Medical Device Integration and Coordination

How can we address engineering issues that are central to medical device interoperability as a community?

Middleware

- What sort of Quality of Service (QoS) guarantees are required to support different deployment scenarios?
- How should the middleware react to software or physical faults?
- What security guarantees should the middleware provide?

Programming Model

- How can medical device and interoperability scenario developers most naturally reason about device interaction?
- How can the programming model directly support the V & V requirements of the system?
- What sort of tool chain is required to support best development practices?

Validation & Verification

- How can validation be seamlessly integrated into the development process of medical device AND interoperability scenario engineers?
- What verification evidence will be necessary for regulatory bodies to approve or certify different aspects of interoperability systems?

Workflows

- How can interoperating devices integrate into clinical workflows?
- Which groups of people will be responsible for maintaining different components of a medical device coordinator?

Laboratory for Specification, Analysis,
and Transformation of Software
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