

Medical Device Plug-and-Play (MD PnP) Program

WHAT WE ARE

Medical Device Plug-and-Play (MD PnP) is a multi-disciplinary, multi-institutional program committed to promoting the adoption of medical device connectivity standards in support of improving patient safety and healthcare efficiency. Networked medical device systems will support the widespread clinical use of medical device data and will enable device and data integration as well as decision support, to produce complete and accurate electronic medical records, reduce medical errors, and reduce healthcare costs.

WHO WE ARE

A geographically-dispersed and diverse group of stakeholders who want to improve patient safety and healthcare efficiency through innovation enabled by medical device connectivity:

- **Clinicians**
- **Biomedical Engineers and Clinical Engineers**
- **Healthcare Delivery Systems**
- **Regulatory Agencies**
- **Medical Device Manufacturers and Vendors**
- **Standards Development Organizations**

WHAT WE ARE DOING

The MD PnP program is leading the evaluation and adoption of a standards-based ecosystem for networked medical devices to support clinical solutions for improving patient safety and healthcare efficiency. We are eliciting clinical requirements from clinicians, creating use case scenarios, and implementing a vendor-neutral “sandbox” laboratory for testing devices against potential standards.

HOW YOU CAN PARTICIPATE

- Clinicians can contribute clinical scenarios to ensure that new standards and solutions solve real clinical problems.
- Engineers can analyze clinical use cases to generate technical specifications.
- Healthcare delivery systems can require adherence to medical device interoperability language in vendor contracts.
- Regulatory agencies can create new paradigms for verification and validation for networked medical devices.
- Medical device manufacturers can contribute devices and engineering support to the MD PnP Program, provide financial support to accelerate the program’s success, and adopt the standards that emerge.
- Standards development organizations can revise existing standards to meet MD PnP ecosystem requirements, and shepherd new standards through the adoption process.