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-Push Electronic Relay for Smart Alarms for End User Situational Awareness [PERSEUS] and associated developed materials for the modular software toolbox components ("Medical Technology interface- Open / Research [MeTeOR] toolbox") and associated materials (e.g., user manuals, sample data, lessons learned, etc.)

-MeTeOR toolbox modules:

- 1. patient monitor device interface / data acquisition (accesses data from patient monitors)
- 2. data processing / analytics (analyzes acquired data)
- 3. information forwarding (passes information derived from acquired / processed data via web networking, *e.g.*, SMS, email, webpages)
- 4. heartbeat module (monitors system functionality)

-de-identified raw signal data from patient monitors (if available and feasible) will be shared on a case-by-case basis.

-Contributions: Investigative findings/data from the R+D phases, HFE assessments and studies, simulation and tracer study phases, package preparation and dissemination processes will be submitted for presentation, Web-hosting and print / Web publication in peer-reviewed venues (including the AHRQ Office of Communications and Knowledge Transfer [OCKT]).

-Data and Information Contributions will reside in a central repository containing materials to be shared; and access will be contingent on contacting the primary study team and agreeing to the Agreement.

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-Newly-developed code uses biomedical device *information* from Philips, specifically information on how to access data streams from the patient monitors. This information is currently available through online sources and in other open-source software packages (reference in Capsule website* and OpenICE)

* http://customers.capsuletech.com/docs/DDIhelps/PhilipsDataExport5.0.6_Helpfiles/index.html

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-Philips *MP30/MP50/MP70/MP90* series patient monitor w/ Philips MIB interface board

-*serial-USB converter adapter*

-*Windows or Linux computer*

-Python (open source) or variant

-*system networking (wifi, LAN, VLAN, cellular)*

-*remote access software (e.g., VNC)*

-*Windows or Linux server computer*

-*non-linear databasing software (we are using a developer [free] license of enterprise Splunk software; should be able to replaced w/ open source approach e.g., ELK stack)*

-*Web browser for interfacing*

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