

MedBiquitous Business Case/Working Group Charter – Competencies (Competency Framework, Competency Object, Performance Framework)

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Please complete this form in its entirety. The first four sections (Mission, Context, Goals, Environmental Scan) must be completed prior to the start of the project. The remaining sections can contain preliminary answers but must be updated during the course of the project.

The questions in each section are meant to serve as prompts. Answering them directly is not required.

Working Group Charter

Mission

The mission of the MedBiquitous Competencies Working Group is to develop data exchange standards and supporting guidelines for competency data enabling educational resources and activities to be tied to a competency framework.

Context

MedBiquitous is the ANSI-accredited developer of information technology standards for health professions education and credentialing.

Currently few software systems allow educators to link curricular activities and resources to a separate competency framework. Because competencies are often defined by assessment organizations, such as accrediting bodies, certifying boards, and licensing boards, competency definitions often exist separate from the education designed to support achievement of the competencies. Often the competencies exist as descriptive documents with no electronic representation that enables incorporation into educator systems. A standard format for competency data enables the exchange of competency definitions among assessment organizations and education programs as well as the incorporation of competency definitions into curriculum management systems, allowing developers to link curricular activities and resources to competency frameworks. In addition, competency standards allow for the development of lifelong learning and employment record systems allowing a learner to view their completed activities against a list of required competencies.

The Institute of Electrical and Electronics Engineers (IEEE) Learning Technology Standards Committee (LTSC) has convened a Competency Data Standards Working group. The group is working to define a data model for describing, referencing, and exchanging competency definitions, primarily in the context of online and distributed learning.

To take advantage of the industry work underway, MedBiquitous will work with IEEE LTSC to develop standards for competency data. With these standards in place, organizations will be able to share and use competency definitions, thereby connecting learning to existing competency frameworks and helping learners to see their educational accomplishments within the context of a competency framework. Standards would also enable the delivery of learning content based on identified gaps in competency.

Goals

The working group will focus on developing requirements for representing health professions competencies and working with the IEEE LTSC Competency Working group to ensure that these requirements are incorporated into the competency-related standards being developed by the IEEE. The group may supplement these activities by specifying requirements for Web services to enable the exchange of competency data. Whenever possible, the group will leverage useful specifications developed by other organizations. The MedBiquitous Technical Advisory Group will offer guidance and technical support for approaches to specific data exchange technologies.

The specifications and services created by this working group will likely serve as foundation pieces for other specifications and Web services designed by MedBiquitous and will be architected to allow for building a digital ecosystem that can support health professions education and credentialing.

Scope

2021-07

The scope for this working group at present is to take existing MedBiquitous standards and submit them for review as American National Standards.

In parallel, understanding the changes to the relevant IEEE standards and how they harmonize with the MedBiquitous standards should be a primary goal.

Standards Environmental Scan

IEEE is currently developing reusable competency definition framework and other standards that will be relevant to the future work of this working group in aligning with and adapting those standards to support health professions education and credentialing.

Work Plan

Please describe the anticipated timeline for this project and any anticipated resources needed by members of the working group.

This working group will be meeting monthly. The duration for the initial scope of work is estimated to be less than 6 months. At that time the future scope for this working group will be determined.

The following set of resources will be made available to MedBiquitous working groups.

- Workspace. (Exists on the Higher Logic virtual community platform provided by AAMC.) Conducting the day to day business of the working group will be done utilizing Workspace. The platform allows for document sharing and curation, voting, task management and reporting. The platform will support our ANSI-compliant standards development process.
- Wiki. MedBiquitous Knowledgebase will serve as a public facing resource documenting the standards development process. All content published to this site will be curated by the working group leads and editors.
- Microsoft Teams. Meetings of the working group supported by MedBiquitous Program Staff will be conducted utilizing Microsoft Teams.
- SharePoint. Only on an as needed basis, access to MedBiquitous SharePoint will be granted for the creation of MS Word, Excel and PowerPoint documents. SharePoint will NOT be the primary resource for sharing official documents or storing research materials.
- Literature Reviews. The AAMC Resource Center staff are available to assist with focused literature reviews.

- [Altova MissionKit \(including XMLSpy\)](#). Any schemas that need to be documented with graphics or other processing can be done with this suite of tools. The MedBiquitous program staff have licenses for this use.
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The following sections should be updated during the standards development project, but attempts should be made to complete them during the initial submission of this form. Sample questions are provided for each section.

Business Case

Intended Outcomes

In what ways do you want health professions education and credentialing to be improved after this project?

What alternative solutions could emerge in parallel to what is being proposed/worked on?

What is the best option to pursue in support of the digital ecosystem of health professions education? (Documented as a work flow diagram)

What is the proposed technical solution? (Provide link to MedBiquitous Technical Use case document for this project)

How can we track the effectiveness of this standard, technical guideline or other work product of this project?

Implementation and Adoption Plan

Who is the target audience for this standard?

What materials need to be shared with them to help them understand the purpose of the standard and proper use?

Where/What are the channels for distribution?

When/What is the timeline for release to the public/market?

Validating Business Case

What issues can we anticipate?

What issues are already outstanding?

When are the milestones to determine the viability of the project output in the marketplace? (Must provide at least one check-in after 6 months of project development.)

What is the schedule for maintenance of the standard/technical guideline/other work product? (Required minimum: reaffirmation of an unrevised version every 5 years, with the initiation of the project for reaffirmation at least 15 months prior to the 5-year mark)