

6.12 Defining the Appropriate Standards or Specifications

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The OMG members recommend the Federal Reserve engage in the development of formal, accredited [Standard](#) and [Specifications](#) in developing and perfecting a U.S. based CBDC. Although it is possible to use *de facto standards*, these are generally tied to implementations rather than to the concepts and agreements of how to work together. This can be a form of [Vendor Lock-in](#).

The OMG members recommend the [Non-Functional Requirements](#) of [Portability](#) and specifically [Replaceability](#)

The OMG members recommend the Standards and Specifications be created within a [Standards Developing Organization \(SDO\)](#) or a [Voluntary Standards Consensus Body \(VSCB\)](#).

The OMG members also recommend the use of [Open Source Software \(OSS\)](#) to be used as a [Reference Implementation\(RI\)](#).

The OMG members also recommend the Reference Implementation(RI) be created using [Research Development Test & Evaluation \(RDT&E\)](#) process of [Small Business Innovation Research \(SBIR\)](#) and/or [Small Business Technology Transfer \(STTR\)](#) process.

The following definitions are provided here as a convenience.

Standard	A Standard is a set of technical definitions and guidelines. In essence, it is a <i>how-to</i> instructions for designers, manufacturers, and users. Standards promote safety, reliability, productivity, and efficiency in almost every industry that relies on engineering components or equipment. Standards can run from a few paragraphs to hundreds of pages and are written by experts with knowledge and expertise in a particular field who sit on many committees.
Specification	A Specification is a document stating requirements. A specification can be related to activities (e.g. procedure document, process specification, and test specification), or products (e.g. product specification, performance specification, and drawing).

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