**ISO Definitions on (**[**https://www.iso.org/obp**](https://www.iso.org/obp) **open to public)**

We may want to enhance our definition of “interoperability” in Vol. 1 and may want to explore adding a new definition of “integration”. The following ISO definitions could be a good starting point.

Interoperability (152 of them but not all of them would apply to our needs)

1. ability of two or more systems or components to exchange information and to use the information that has been exchanged

ISO/TS 27790:2009(en),

1. degree to which an authentication solution is able to work together with other different tools

ISO 12931:2012

1. **interoperability**

ability of systems to provide services to and accept services from other systems and to use the services so exchanged to enable them to operate effectively together

ISO/IEC 30182:2017

1. **data interoperability**

interoperability concerning the creation, meaning, computation, use, transfer, and exchange of data

ISO/IEC 30182:2017

1. **semantic interoperability**

ability for data shared by systems to be understood at the level of fully defined domain concepts

ISO/TR 14639-1:2012(en)

1. **interoperability**

ability of logical entities to function together for applications on a network or between multiple networks

ISO/IEC 15045-2:2012(en)

1. **interoperability**

ability of systems to exchange information and to make mutual use of the information that has been exchanged

ISO/TS 14907-1:2015(en)

1. ability of systems to provide services to and accept services from other systems and to use these services to enable the systems to operate effectively together

ISO 24534-2:2010(en),

1. **interoperability**

ability of multiple systems with different hardware and software platforms, data structures, and interfaces to exchange data with minimal loss of content and functionality

ISO/IEC TR 20943-5:2013

1. More…

Integration (57 of them but not all of them would apply to our needs)

1. **system integration**

progressive assembling of system components into the whole system

ISO/IEC 2382:2015(en

1. **enterprise integration**

process of ensuring the interaction between enterprise entities necessary to achieve enterprise domain objectives

ISO 19439:2006(en)

1. **photosite integration time**

total time period during which the photosites of an image sensor are able to integrate the light from the scene to form an image

ISO 12231:2012(en),

1. **integration**

the implementation of specific processes and procedures to enable communications between different systems/units/devices

ISO 16484-2:2004(en)

1. **integration**

system condition or activity to realize the condition in which components of a system are organized to collaborate, coordinate and interoperate while exchanging items, as needed, to perform a system’s task

ISO 18435-1:2009(en)

1. **integration**

process of physically and functionally combining lower-level products (hardware or software) to obtain a particular functional configuration

ISO 10795:2011

1. **system integration**

bringing together subsystems into one system to function together as a system

ISO 16484-1:2010(en),

1. **integration**

process of physically and functionally combining lower-level functional elements (hardware or software) to obtain a particular functional configuration considered to be of a much higher-level entity

ISO/IWA 23:2016(en)

1. **integration maturity**

degree of fulfilment of the integration requirements of a product EXAMPLE Already or never integrated in the organization’s products.

ISO/TS 22163:2017(en)

1. more…