

1 How Terminologies (*in Terminology Science*) & Information Models (*in Information Science*) are Different

1.1 Big Picture

SBVR is:

SBVR is NOT:

object [terminology]¹

Context	Terminology Science (<i>about the language of people</i>) (part of Business Modeling)	Information Science - Structured Data (<i>about recorded information and information processing systems - automated and manual</i>) (part of Information System Modeling)			
	Contrasting / Differentiating Dimension	Terminology	Class-of-Platform Independent Model ² of Information/Data	Class-of-Platform Specific (Vendor Platform Independent) Model ³ of Information/Data	Vendor Platform Specific Model ⁴ of Information/Data
What is documented / recorded in a ...	Concepts & representation (and definite descriptions of objects [terminology]) shared by people in a subject field, discipline, profession, community, or organization unit	Data recording, storage and processing design constructs that are part of one or more information systems	Data recording, storage and processing design constructs that are part of one or more information systems	Data recording, storage and processing design constructs that are part of one or more information systems	Facts stating the existence of objects [terminology] and connections between them (including objects that are properties ⁵) as

¹ **object** [terminology] syn: thing (SBVR), subject (Topic Maps), resource (W3C) - anything perceivable or conceivable; anything that can receive mental attention or consideration; NOT (just) an instantiation of a class in running software; NOT (just) something physical; NOT (just) something that has discrete boundaries; NOT (just) something external to the mind. NOTE: Objects are always part of the subject world, and never, themselves, part of any documentation. Only representations of objects go into documentation.

² **class-of-platform independent model** (CofP-PIM): model that is independent of any particular class of platform (conceptual here does *not* mean what conceptual data model often means; i.e. it does *not* mean entities only with no attributes)

³ **class-of-platform specific model** (CofP-PSM) (syn: vendor platform independent model (V-PIM)): model that is optimized for with a given class of platform, but independent of any specific vendor platform; e.g. document, relational database, object-oriented database, messaging system

⁴ **vendor platform specific model** (V-PSM): model that is optimized for a single vendor's platform of a given class of platform; e.g. HP Phototsmart 3310 All-in-One; SQL Server; Versant; MQ Series

⁵ **property** (in terminology): object that is considered as a quality or feature oof another object

					they are in the subject world ⁶
What is being talked about (denoted) by the contents of a ... (What is the subject world of a ...)	Objects [terminology] and relations between them the subject world of the terminology	Recorded data	Recorded data	Recorded data	Objects [terminology] and relations between them the subject world of the record
(very special case - when talking about itself)	Objects [terminology] that are part of a Terminology	Objects [terminology] that are part of a Class-of-Platform Independent Information/Data Model	Objects [terminology] that are part of a Class-of-Platform Specific Information/Data Model	Objects [terminology] that are part of a Vendor Platform Specific Information/Data Model	Objects [terminology] that are part of a Structured Data Record
Purpose for Doing	To clarifying concepts (definitions) and the terms for them for better communication between persons	To have an information & information structure design that can be used as the basis of any Class-of-Platform Information/Data Model	To have an information & information structure design that can be used as the basis of any Vendor-Specific Platform Information/Data Model	To have an information & information structure design that can be used for the actual storage of information/data in a specific physical vendor platform	To have the information for future reference
What is the optimization goal for the constructs recorded in ...	Structured exactly as (<i>or as close as possible to the way</i>) the majority / consensus of the people in the subject field, discipline, profession, community, or organization unit actually think about them	<ul style="list-style-type: none"> • Optimal applicability across all Classes of Platform • Optimal system storage and processing 	<ul style="list-style-type: none"> • Optimal applicability across all vendors for a given Class of Platform • Optimal system storage and processing 	Optimal system storage and processing on the specific physical vendor platform	Accurate, timely facts

⁶ **subject world** (syn: universe of discourse, UML domain, ontological world, real world): the area of existence that encompasses the sum of the objects [terminology] that are being considered, thought about, talked about, written about by some identified group of people for some purpose;

		applicable to any Class of Platform	applicable to any physical vendor platform for the Class of Platform		
Focus	Meaning of Language	Information & Information Storage Designs	Information & Information Storage Designs	Information & Information Storage Designs	Recorded & Stored Facts <i>(about Objects [terminology] and relations between them the subject world of the record)</i>
Contents of ... are stored in:	Paper documents, terminology databases, terminology registries (<i>different from metadata registries</i>), etc.	Vendor-specific model format files; vendor-specific metadata repositories; 11179 Metadata Registries	Vendor-specific model format files; vendor-specific metadata repositories; 11179 Metadata Registries	Vendor-specific model format files; vendor-specific metadata repositories; 11179 Metadata Registries	(Paper documents, electronic documents, databases, electronic files, etc.)
Design Metaphor	Multilingual Dictionary, but: <ul style="list-style-type: none"> • concept (definition) centric (<i>not word/phrase centric</i>) • with structured meanings 	Technology-independent Engineering Documents	Technology-specific Engineering Documents	Vendor-specific Engineering Documents	Writing
Context/scope of applicability of the content of a ...:	The community of people who share the concepts (definitions) and representations; i.e. the people in the: <ul style="list-style-type: none"> • subject field (<i>ISO 1087/704</i>) • semantic/speech community (<i>SBVR</i>) 	IT staff designing and implementing the information system being modeled	IT staff designing and implementing the information system being modeled	IT staff designing and implementing the information system being modeled	The community of people who share the concepts (definitions) and representations in the associated terminology; i.e. the people in the: <ul style="list-style-type: none"> • subject field (<i>ISO 1087/704</i>) • semantic/speech community (<i>SBVR</i>)