	Feature Group	Feature Name	Feature Definition	Feature Attribute	Attribute Definition	Model Features Pattern -- Configuration Planning Form	
						Model 1	Model 2
3	**Identifies the main subject or focus of the model**						
4	Model Identity and Focus	Modeled System of Interest	Identifies the type of system this model describes.	System of Interest	Name of system of interest, or class of systems of interest		
5		Modeled Environmental Domain	Identifies the type of external environmental domain(s) that this model includes.	Domain Type(s)	Name(s) of modeled domains (manufacturing, distribution, use, etc.)		
6	**Describes the scope of content of the model**						
7	Model Scope of Content	Modeled Stakeholder Value	The capability of the model to describe fitness or value of the System of Interest, by identifying its stakeholders and modeling the related Stakeholder Features.	Stakeholder Type	Classes of covered stakeholders (may be multiple)		
8		Modeled System External (Black Box) Behavior	The capability of the model to represent the objective external ("black box") technical behavior of the system, through significant interactions with its environment, based on modeled input-output exchanges through external interfaces, quantified by technical performance measures, and varying behavioral modes.				
9		Explanatory Decomposition	The capability of the model to represent the decomposition of its external technical behavior, as explanatory internal ("white box") internal interactions of decomposed roles, further quantified by internal technical performance measures, and varying internal behavioral modes.				
10		Physical Architecture	The capabiliy of the model to represent the physical architecture of the system of interest. This includes identification of its major physical components and their architectural relationships.				
11		Parametric Couplings--Fitness	The capability of the model to represent quantitative (parametric) couplings between stakeholder-valued measures of effectiveness and objective external black box behavior performance measures.				

	Feature Group	Feature Name	Feature Definition	Feature Attribute	Attribute Definition	Model Features Pattern -- Configuration Planning Form	
						Model 1	Model 2
12		Parametric Couplings--Decomposition	The capability of the model to represent quantitative (parametric) couplings between objective external black box behavior variables and objective internal white box behavior variables.				
13		Parametric Couplings--Characterization	The capability of the model to represent quantitative (parametric) couplings between objective behavior variables and physical identity (material of construction, part or model number).				
14		Managed Model Datasets	The capability of the model to include managed datasets for use as inputs, parametric characterizations, or outputs	Dataset Type	The type(s) of data sets (may be multiple)		
15		Trusted Configurable Pattern	The capability of the model to serve as a configurable pattern, representing different modeled system configurations across a common domain, spreading the cost of establishing trusted model frameworks across a community of applications and configurations.	Configuration ID	A specific system of interest configuration within the family that the pattern framework can represent.		
16				Pattern ID	The identifier of the trusted configurable pattern.		
17		Failure Modes and Effects	The capability of the model to include identification and analysis of system failure modes, their impact effects, causes, and liklihoods of occurrence.				
18	**Describes the credibility of the model**						
19	Model Credibility	Model Envelope	The capability of the model to meet its Model Credibility requirements over a stated range (envelope) of dynamical inputs, outputs, and parameter values.	Model Application Envelope	The range over which the model is intended for use.		
20		Validated Conceptual Model Credibility	The validated capability of the conceptual portion of the model to represent the System of Interest, with acceptable Credibility.	Quantitative Accuracy Reference	The specification reference describing the quantitative accuracy of the conceptual model compared to the system of interest.		

Feature Group	Feature Name	Feature Definition	Feature Attribute	Attribute Definition	Model 1	Model 2
			Function Structure Accuracy Reference	The specification reference describing the structural (presence or absence of behaviors) accuracy of the conceptual model compared to the system of interest.		
			Uncertainty Quantification (UQ) Reference	The specification reference describing the degree of uncertainty of the Credibility of the conceptual model to the system of interest.		
			Model Validation Reference	The reference documenting the validation of the conceptual model's Credibility to the system of interest.		
	Verified Executable Model Credibility	The verified capability of the executable portion of the model to represent the System of Interest, with acceptable Credibility.	Quantitative Accuracy Reference	The specification reference describing the quantitative accuracy of the executable model to the conceptual model.		
			Structural Accuracy Reference	The specification reference describing the structural (presence or absence of elements) accuracy of the executable model to the conceptual model.		
			Uncertainty Quantification (UQ) Reference	The specification reference describing the degree of uncertainty of the Credibility of the		
			Speed	The specification reference describing the execution run time (speed) for the executable model.		
			Quantization	The specification reference describing the quantization error of the executabl e model.		

	Feature Group	Feature Name	Feature Definition	Feature Attribute	Attribute Definition	Model Features Pattern -- Configuration Planning Form	
						Model 1	Model 2
29				Stability	The specification reference describing the level of stability of the accuracy and uncertainty of the executable model error characteristics.		
30				Model Validation Reference	The reference documenting the verification of the executable model's Credibility to the conceptual model.		
31	**Identifies the type of representation used by the model**						
32	Model Representation	Conceptual Model Representation	The capability of the conceptual portion of the model to represent the system of interest, using a specific type of representation.	Conceptual Model Representation Type	The type of conceptual modeling language or metamodel used.		
33				Conceptual Model Interoperability	The degree of interoperability of the conceptual model, for exchange with other environments		
34		Executable Model Representation	The capability of the executable portion of the model to represent the system of interest, using a specific type of representation	Executable Model Representation Type	The type of executable modeling language or metamodel used.		
35				Executable Model Interoperability	The degree of interoperability of the executable model, for exchange with other environments		
36	**Describes the intended use, utility, and value of the model**						
37	Model Utility	Model Intended Use	The intended purpose(s) or use(s) of the model.	Life Cycle Process Supported	The intended life cycle management process to be supported by the model, from the ISO15288 process list. More than one value may be listed.		
38		Perceived Model Value and Use	The relative level of value ascribed to the model, by those who use it for its stated purpose.	User Group Segment	The identify of using group segment (multiple)		
39				Level of Annual Use	The relative level of annual use by the segment		
40				Value Level	The value class associated with the model by that segment		

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	Third Party Acceptance	The degree to which the model is accepted as authoritative, by third party regulators, customers, supply chains, and other entities, for its stated purpose.	Accepting Authority	The identity (may be multiple) of regulators, agencies, customers, supply chains, accepting the model		
	Model Ease of Use	The perceived ease with which the model can be used, as experienced by its intended users	Perceived Model Complexity	High, Medium Low		
Describes related model life cycle management capabilities						
Model Life Cycle Management	Model Versioning and Configuration Management	The capability of the model to provide for version and configuration management.	CM Capability Type	The type(s) of CM capabilities included (may be multiple)		
	Executable Model Environmental Compatibility	The capability of the model to be compatibly supported by specified information technology environment(s), indicating compatibility, portability, and interoperability.	IT Environmental Component	The type(s) of IT environments or standards supported		
	Model Design Life and Retirement	The capability of the model to be sustained over an indicated design life, and retired on a planned basis.	Design Life	The planned retirement date		
	Model Maintainability	The relative ease with which the model can be maintained over its intended life cycle and use, based on capable maintainers, availability of effective model documentation, and degree of complexity of the model	Maintenance Method	The type of maintenance methodology used to maintain the model's capability and availability for the intended purposes over the intended life cycle.		
	Model Deployability	The capability of the model to support deployment into service on behalf of intended users, in its original or subsequent updated versions	Deployment Method	The type of method used to deploy (possibly in repeating cycles) the model into its intended use environment.		
	Model Cost	The financial cost of the model, including development, operating, and maintenance cost	Development Cost	The cost to develop the model, including its validation and verification, to its first availability for service date		
			Operational Cost	The cost to execute and otherwise operate the model, in standardized execution load units		
			Maintenance Cost	The cost to maintain the model		

	Feature Group	Feature Name	Feature Definition	Feature Attribute	Attribute Definition	Model Features Pattern -- Configuration Planning Form	
						Model 1	Model 2
52				Deployment Cost	The cost to deploy, and redeploy updates, per cycle		
53				Retirement Cost	The cost to retire the model from service, in a planned fashion		
54				Life Cycle Financial Risk	Risk to the overall life cycle cost of the model		
55		Model Availability	The degree and timing of availability of the model for its intended use, including date of its first availability and the degree of ongoing availability thereafter.	First Availability Date	Date when version will first be available		
56				First Availability Risk	Risk to the scheduled date of first availability		
57				Life Cycle Availability Risk	Risk to ongoing availability after introduction		
58		VVUQ Pattern Learning	The ability to accumulate new discoveries about model-based methods into the VVUQ Pattern, as it is applied over model life cycles. These discoveries are exceptions to the existing VVUQ Pattern, and candidates for inclusion into future versions of that pattern.	VVUQ Pattern Exception	A summary of the exception noted to the current VVUQ Pattern (may be multiple exceptions)		
59				Impacted VVUQ Feature	The impacted existing, modified, or additional feature of the VVUQ Pattern.		
60				VVUQ Pattern Version	The version of the VVUQ Pattern in current use before change.		
61				Project	Identifies the project in which the exception was noted		
62				Person	Identifies the person describing the exception		