YesWorkflow Model OWL

1. YW Model Vocabulary and Definition:

Class	Property	Property Value	Property Description	
yw:Program	rdf:type	"yw:Program"	Declare the type of the entity: Program	
	rdfs:label	an	Program name	
	rdfs:comment	an	Program description	
	yw:hasSubProgram	yw:Program	Sub programs of current program	
	yw:hasInPort	yw:Port	Ports coming into the program	
	yw:hasOutPort	yw:Port	Ports going out from the program	
	rdf:type	"yw:Workflow"	Declare the type of the entity: Workflow	
W 16	rdfs:label	un	Workflow name	
	rdfs:comment	un	Workflow description	
yw:Workflow	yw:hasProgram	yw:Program	Programs that belong to the workflow	
	yw:hasInPort	yw:Port	Ports coming into the workflow	
	yw:hasOutPort	yw:Port	Ports going out from the workflow	
	rdf:type	"yw:Port"	Declare the type of the entity: Port	
	rdfs:label	un	Port name that appears before @as tag	
yw:Port	yw:portType	"in"/"out"/"para m"	Port type: input, output or parameter	
	yw:connectsTo	yw:Data	Data that the port connects to	
yw:Data	rdf:type	"yw:Data"	Declare the type of the entity: Data	
	rdfs:label	an	Data name that appears after @as tag	
	rdfs:comment	an	Description of the data	
	(yw:filePath)	un	Optional attribute: URI template of the data	
	(yw:isAssociatedWith)	(yw:Data)	Optional attribute: Other data that current URI template (contains "{}") is associated with	

2. YW Model – ProvONE Model mapping:

YW Class	YW Property		ProvONE class	ProvONE Property	
yw:Program	rdf:type	yw:Program		rdf:type	p1:Program
	rdfs:label rdfs:comment		21. Dvo zvo vo	rdfs:label	
				rdfs:comment	
	yw:hasSubProgram	yw:Program	p1:Program	p1:hasSubProgram	p1:Program
	yw:hasInPort	yw:Port		p1:hasInPort	p1:Port
	yw:hasOutPort	yw:Port		p1:hasOutPort	p1:Port
yw:Workflow	rdf:type	yw:Workflow		rdf:type	p1:Workflow
	rdfs:label			rdfs:label	
	rdfs:comment		p1:Workflow	rdfs:comment	
	yw:hasProgram	yw:Program	p1:workilow	p1:hasSubProgram	p1:Program
	yw:hasInPort	yw:Port		p1:hasInPort	p1:Port
	yw:hasOutPort	yw:Port		p1:hasOutPort	p1:Port
yw:Port	rdf:type	yw:Port	n 1 · Do ut	rdf:type	p1:Port
	rdfs:label			rdfs:label	
	yw:portType		p1:Port	yw:portType	
	yw:connectsTo	yw:Data		p1:connectsTo	p1:Channel
yw:Data	rdf:type	yw:Data		rdf:type	p1:Channel
	rdfs:label	::label		rdfs:label	
	rdfs:comment		p1:Channel	rdfs:comment	
	(yw:filePath)			(yw:filePath)	
	(yw:isAssociatedWith	yw:Data)		(yw:isAssociatedWith	p1:Channel)

3. YW Recon Vocabulary and Definition:

Class	Property	Property Value	Property Description	
yw:Resource	rdf:type	"yw:Resource"	Declare the type of the entity: Resource	
	rdfs:label	un	Specific file path and name of the Resource	
	yw:instantiates	yw:Data	Data entity that Resource instantiates from	
	yw:hasURIVariable	yw:URIVariable	URI variables that Resource is associated with	
yw:URIVariable	rdf:type	"yw:URIVariable"	Declare the type of the entity: URIVariable	
	yw:variableName	un	The name of the variable in the URI template	
	yw:variableValue	un	The value of the variable in the Resource	