

YesWorkflow Model OWL

1. YW Model Vocabulary and Definition:

Entity	Attributes	Description
yw: Program	rdf: type yw: Program	Define type of the entity is Program
	rdfs: label	Program name
	rdfs: comment	Program description
	yw: hasSubProgram yw: Program	What are the sub programs?
	yw: hasInPort yw: Port	What are the ports that coming in the program?
	yw: hasOutPort yw: Port	What are the ports that going out from the program?
yw: Workflow	rdf: type yw: Workflow	Define type of the entity is Workflow
	rdfs: label	Workflow name
	rdfs: comment	Workflow description
	yw: hasProgram yw: Program	What are the programs belong to the workflow?
	yw: hasInPort yw: Port	What are the ports that coming in the workflow?
	yw: hasOutPort yw: Port	What are the ports that going out from the program?
yw: Port	rdf: type yw: Port	Define type of the entity is Port
	rdfs: label	Port name normally is the name appears before the @as annotation
	yw: portType	Values "in"/"out"/"param"
	yw: connectsTo yw: Data	What data is connect to the port?
yw: Data	rdf: type yw: Data	Define type of the entity is Data
	rdfs: label	Name of the data: normally is the name appears after the @as annotation
	rdfs: comment	Description of the data
	(rdf: type yw:DataFile)	Optional attribute: if the data has URI associated with it, this attribute will indicate that the data has a data file, which stores the URI.
	(yw: filePath)	Optional attribute: URI template
	(yw: isAssociatedWith yw: Data)	Optional attribute: if the URI include information about other data associated with the file, it will indicate here.

2. YW Model – ProvONE Model mapping:

YW Entity	YW - Attributes	ProvONE entity	ProvONE Attributes
yw: Program	rdf: type yw: Program	p1: Program	rdf: type p1: Program
	rdfs: label		rdfs: label
	rdfs: comment		rdfs: comment
	yw: hasSubProgram yw: 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	p1: Workflow	rdf: type p1: Workflow
	rdfs: label		rdfs: label
	rdfs: comment		rdfs: comment
	yw: hasProgram yw: Program		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	p1: Port	Rdf: type p1: Port
	rdfs: label		rdfs: label
	yw: portType		yw: portType
	yw: connectsTo yw: Data		p1: connectsTo p1: Channel
yw: Data	rdf: type yw: Data	p1: Channel	rdf: type p1: Channel
	rdfs: label		rdfs: label
	rdfs: comment		rdfs: comment
	(rdf: type yw:DataFile)		(rdf: type p1: Data)
	(yw: filePath)		(yw: filePath)
	(yw: isAssociatedWith yw: Data)		(yw: isAssociatedWith p1: Channel)