

YesWorkflow Model OWL

1. YW Model Vocabulary and Definition:

Entity	Attributes	Description
yw: 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	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	rdfs: label	Port name normally is the name appears before the @as annotation
	yw: portType	Values "in"/"out"/"param"
	yw: connectsTo yw: Data	What is the channel connect to the port?
yw: Data	rdfs: label	Name of the data: normally is the name appears after the @as annotation
	rdfs: comment	Description of the data
	yw: hasSubClass yw: DataFile	If the data has URI associated with it, this attribute will indicate that the data has a data file, which stores the URI.
yw: DataFile (subclass of Data)	yw: filePath	URI template
	yw: isAssociatedWith yw: Data	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	rdfs: label	p1: Program	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	rdfs: label	p1: Workflow	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	rdfs: label	p1: Port	rdfs: label
	yw: portType		yw: portType
	yw: connectsTo yw: Data		p1: connectsTo p1: Channel
yw: Data	rdfs: label	p1: Channel	rdfs: label
	rdfs: comment		rdfs: comment
	yw: hasSubClass yw: DataFile		yw: hasSubClass p1: Data
yw: DataFile (subclass of Data)	yw: filePath	p1: Data	yw: filePath
	yw: isAssociatedWith yw: Data		yw: isAssociatedWith p1: Channel