

Minim definition for runnable workflow

The entries in this Minim checklist definition are used to assist evaluation of whether or not a workflow is likely to be
See also:
[Kegg-workflow-evaluation/runnable-workflow-checklist.rdf](http://kegg-workflow-evaluation/runnable-workflow-checklist.rdf)

Prefixes:	Prefix	URI
	rdf	http://www.w3.org/1999/02/22-rdf-syntax-ns#
	rdfs	http://www.w3.org/2000/01/rdf-schema#
	owl	http://www.w3.org/2002/07/owl#
	xsd	http://www.w3.org/2001/XMLSchema#
	xml	http://www.w3.org/XML/1998/namespace
	rdfg	http://www.w3.org/2004/03/trix/rdfg-1/
	ore	http://www.openarchives.org/ore/terms/
	ao	http://purl.org/ao/
	dcterms	http://purl.org/dc/terms/
	ro	http://purl.org/wf4ever/ro#
	minim	http://purl.org/minim/minim#
	roterms	http://purl.org/wf4ever/roterms#

Checklists:	Target	Purpose	Model	Description
	{+targetro}	complete	#model_complete	Checklist for complete workflow experiment RO

Model:	#model_complete			Model for testing completeness of workflow experiment RO
Items:	Level	Rule		
req_01	MUST	#req_workflow_description	Require workflow description (wfdesc)	
req_02	MUST	#req_workflow_aggregated	Require aggregated workflow definition	
req_03	MUST	#req_workflow_accessible	Require accessible workflow definition	
req_04	MUST	#req_live_web_service	Require web services used to respond to HTTP request	
req_05	MUST	#req_inputs_specified	Require input data specified for workflow run	
req_06	MUST	#req_inputs_accessible	Require input data specified to be accessible	

Define rules to test individual requirements

Rule:	#req_workflow_description		
Exists:	?wf rdf:type wfdesc:Workflow ; rdfs:label ?label		<i>Require at least one workflow resource with label</i>
Pass:	Workflow description metadata is present		
Fail:	Workflow description metadata is not present		
Rule:	#req_workflow_aggregated		

ForEach: ?wf rdf:type wfdesc:Workflow
; rdfs:label ?wflab
; wfdesc:hasWorkflowDefinition ?wfdef
ResultMod: ORDER BY ?wflab *To ensure consistent failure reporting*
Aggregates: {+wfdef}
Pass: All referenced workflow definitions are aggregated
Fail: Workflow definition %(wfdef)s for %(wflab)s is not aggregated
None: No workflow definitions found

Rule: #req_workflow_accessible
ForEach: ?wf rdf:type wfdesc:Workflow
; rdfs:label ?wflab
; wfdesc:hasWorkflowDefinition ?wfdef
ResultMod: ORDER BY ?wflab *To ensure consistent failure reporting*
IsLive: {+wfdef}
Pass: All referenced workflow definitions are accessible
Fail: Workflow definition %(wfdef)s for %(wflab)s is not accessible
None: No workflow definitions found

Rule: #req_live_web_service *Require all workflow services referenced are live*
ForEach: ?wf rdf:type wfdesc:Process
; rdfs:label ?prlab
; wf4ever:wSDLURI ?wfservice
ResultMod: ORDER BY ?prlab *To ensure consistent failure reporting*
IsLive: {+wfservice}
Pass: All referenced workflow services are accessible
Fail: Workflow service %(wfservice)s for %(prlab)s is not accessible
None: No workflow services found

Rule: #req_inputs_specified
ForEach: ?wf rdf:type wfdesc:Workflow
; rdfs:label ?wflab
ResultMod: ORDER BY ?wflab
Exists: ?wf rdf:type wfdesc:Workflow
; wfdesc:hasInput
Pass: Input data is indicated for all workflows
Fail: No input data indicated for %(wflab)s

Rule: #req_inputs_accessible
ForEach: ?wf rdf:type wfdesc:Workflow
; rdfs:label ?wflab
; wfdesc:hasInput

ResultMod: ORDER BY ?if
IsLive: {+if}
Pass: All specified input files are accessible
Fail: Input file %(if)s is not accessible

End: