Minim definition for runnable workflow

The entries in this Minim checklist definitionare used to assist evaluation of whether or not a workflow is likely to be

See also:
Kegg-workflow-ebvaluation/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 servics 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	*Require at least one workflow resource with label*
	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: No input data indicated for %(wflab)s
    Fail: Input data is indicated for all workflows

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: