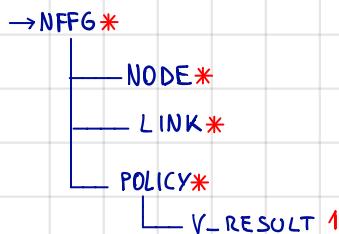


Hierarchy and multiplicity of elements :

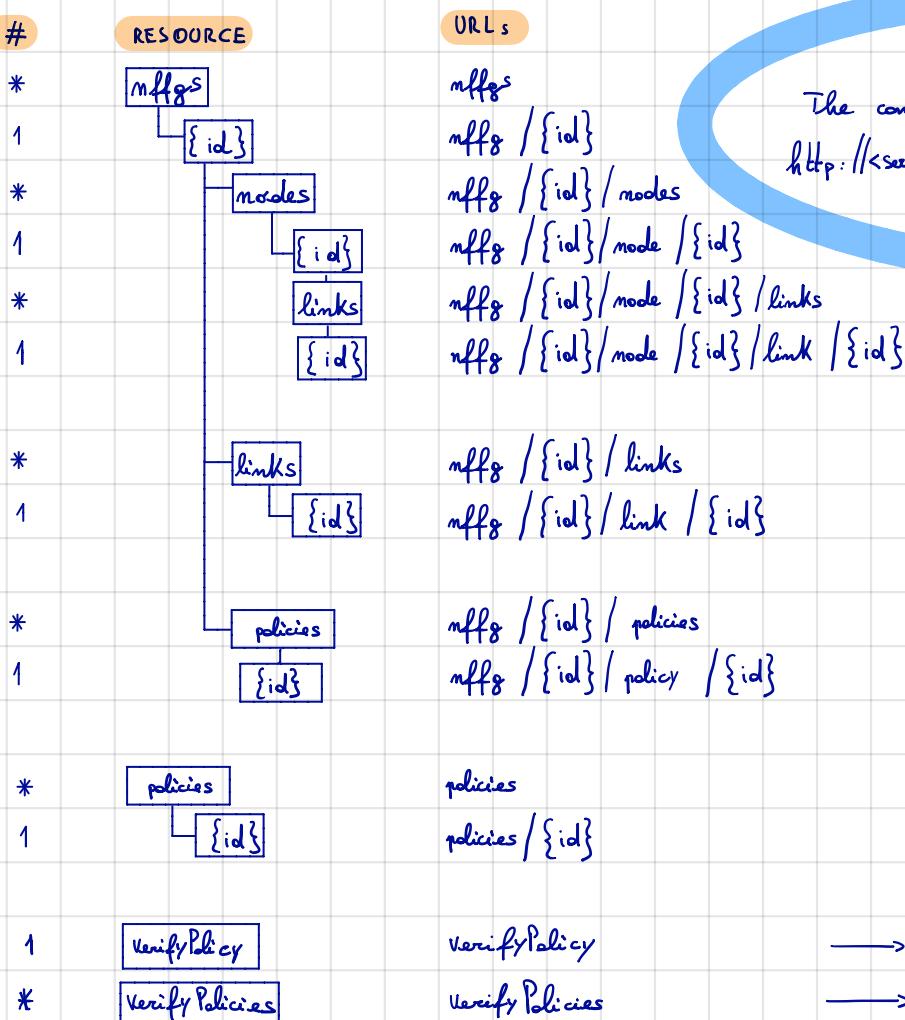


Element / Collections needed:

nffg	nffgs
node	nodes
link	links
policy	policies
v_result	v_results

Base URL of service : `http://<server>:<port>/NffgService/rest`Main resource of the service : `http://<server>:<port>/NffgService/rest/resource`

Resources, multiplicities and URLs (# means multiplicity) :



N.B.

The common path is omitted
`http://<server>:<port>/NffgService/rest/resource`

→ used for verify 1 specified policy
 → used for verify a group of policy

XML representation and meanings:

RESOURCE	XML	MEANING
/nffgs	nffgs	Set of all nffgs
/nffg/{id}	nffg	Single nffg
/nffgs/{id}/nodes	nodes	Set of all nodes for selected nffg
/nffgs/{id}/nodes/{id}	node	Single node for selected nffg
/nffgs/{id}/links	links	Set of all links for the selected node of specified nffg
/nffgs/{id}/links/{id}	link	Single link for the selected node of specified nffg
/nffgs/{id}/links	links	Set of all links for selected nffg
/nffgs/{id}/links/{id}	link	Single link for selected nffg
/nffgs/{id}/policies	policies	Set of all policies for selected nffg
/nffgs/{id}/policies/{id}	policy	Single policy for selected nffg
/policies	policies	Set of all policies
/policies/{id}	policy	A single policy

REST service design (READING)

["http://<server>:<port>/NffgService/rest/resource" is omitted]

RESOURCE	METHOD	RESP. BODY	Possible HTTP response codes and meanings
/nffg	GET	nffgs	
/nffg/{id}	GET	nffg	200 - OK All is OK, data are shown
/nffg/{id}/nodes	GET	nodes	
/nffg/{id}/node/{id}	GET	node	404 - Not Found The resource you are looking for doesn't exist.
/nffg/{id}/node/{id}/links	GET	links	
/nffg/{id}/node/{id}/link/{id}	GET	link	
/nffg/{id}/links	GET	links	503 - Service Unavailable It is impossible to connect to Neo4J XML service, so it is impossible to execute the request
/nffg/{id}/link/{id}	GET	link	
/nffg/{id}/policies	GET	policies	
/nffg/{id}/policy/{id}	GET	policy	
/policies	GET	policies	
/policies/{id}	GET	policy	

REST service design (WRITING) ["http://<server>:<port>/Nf4gService/rest/resource" is omitted] :

RESOURCE	METHOD	REQ. BODY	RESP. BODY	Possible HTTP response codes and meanings
/nffg	POST	nffg	nffg	201 - Created 400 - Bad Request A nffg is already loaded 503 - Service Unavailable
/nffgs	POST	nffgs	nffgs	It is not possible to access to the Near4J XML service, so the insertion fails
/nffg/{id}/policy	POST	policy	policy	201 - Created 503 - Service Unavailable
/nffg/{id}/policies	POST	policies	policies	It is not possible to access to the Near4J XML service, so the insertion fails
/verifyPolicy	POST	v_result	v_result	200 - OK 404 - Not Found 503 - Service Unavailable
/Verify Policies	POST	v_results	v_results	
/nffg	DELETE	nffg	nffgs	200 - OK
/nffg/{id}	DELETE	—	nffg	All is OK, data are shown
/nffg/{id}/policies	DELETE	policies	policies	404 - Not Found The resource you are looking for doesn't exist.
/nffg/{id}/policy/{id}	DELETE	—	policy	
/nffg/{id}/policies	PUT	policies	policies	200 - OK All is OK, data are shown
/nffg/{id}/policy/{id}	PUT	policy	policy	404 - Not Found The resource you are looking for doesn't exist.
/VerificationOTS	POST	v_results	v_results	200 - OK All is OK, data are shown
				503 - Service Unavailable
				It is not possible to access to the Near4J XML service, so the insertion fails