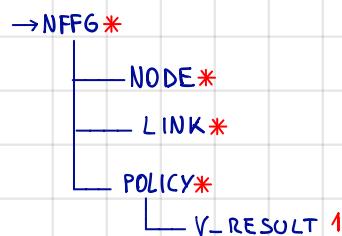


Hierarchy and multiplicity of elements:

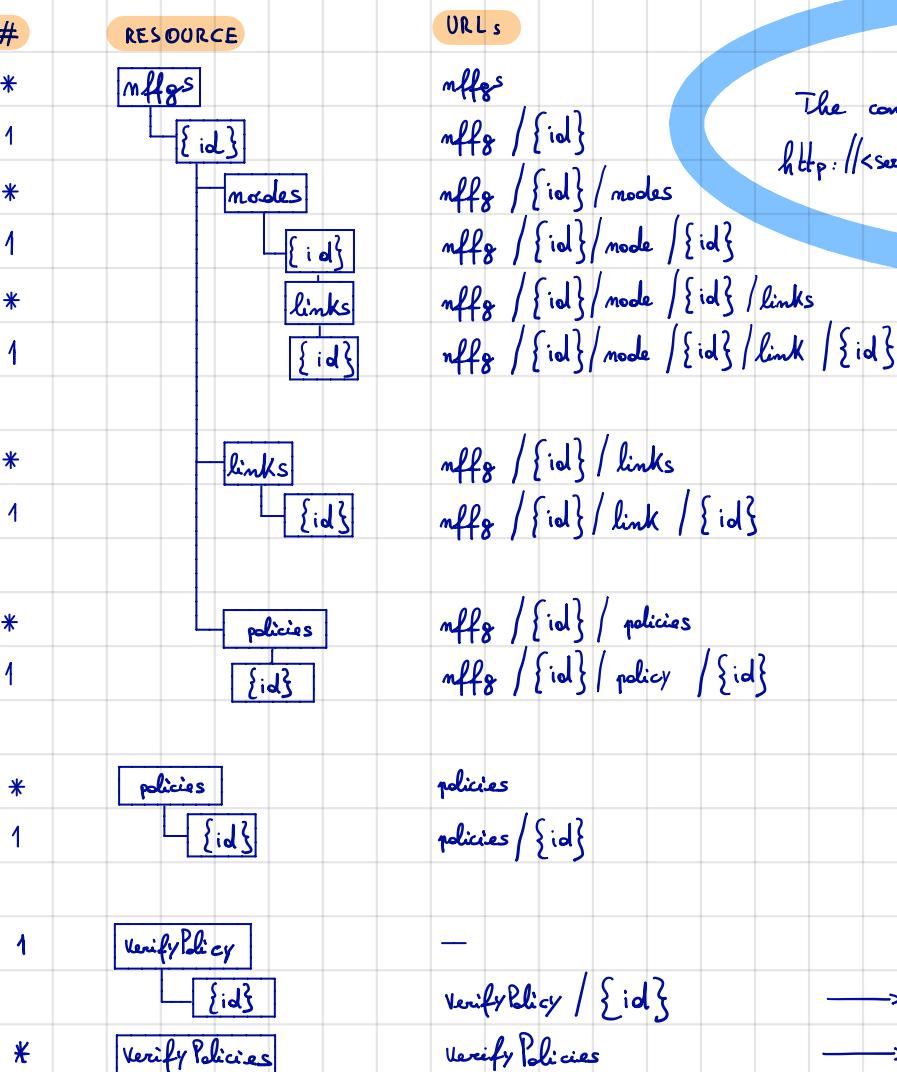


Element / Collections needed:

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
mffgs	mffgs	Set of all mffgs
{id}	mffg	Single mffg
modes	modes	Set of all mode for selected mffg
{id}	mode	Single mode for selected mffg
links	links	Set of all links for the selected mode of specified mffg
{id}	link	Single link for the selected mode of specified mffg
links	links	Set of all links for selected mffg
{id}	link	Single link for selected mffg
policies	policies	Set of all policies for selected mffg
{id}	policy	Single policy for selected mffg
policies	policies	Set of all 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
/mffg	GET	mffgs	
/mffg/{id}	GET	mffg	200 - OK All is OK, data one shown
/mffg/{id}/modes	GET	modes	
/mffg/{id}/mode/{id}	GET	mode	404 - Not Found The resource you are looking for doesn't exists.
/mffg/{id}/mode/{id}/links	GET	links	
/mffg/{id}/mode/{id}/link/{id}	GET	link	
/mffg/{id}/links	GET	links	503 - Service Unavailable It is impossible to connect to NeurIS XML service, so it is impossible to execute the request.
/mffg/{id}/link/{id}	GET	link	
/mffg/{id}/policies	GET	policies	
/mffg/{id}/policy/{id}	GET	policy	
/policies	GET	policies	
/policies/{id}	GET	policy	
/VerifyPolicy/{id}	GET	V-result	

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	
/nffgs	POST	nffgs	nffgs	201 - Created Correct creation of resource
/nffg/{id}/policy	POST	policy	policy	503 - Service Unavailable It is not possible to access to the Neo4J XML service, so the insertion fails
/nffg/{id}/policies	POST	policies	policies	
/Verify Policies	POST	policies	policies	
/nffgs	DELETE	nffgs	nffgs	
/nffg/{id}	DELETE	—	nffg	200 - OK All is OK, data are shown
/nffg/{id}/policies	DELETE	policies	policies	404 - Not Found The resource you are looking for doesn't exists.
/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 exists.
/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 Neo4J XML service, so the insertion fails