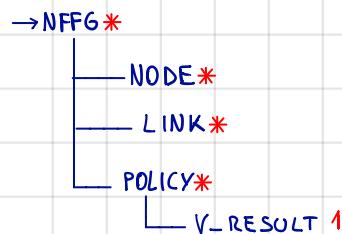


Hierarchy and multiplicity of elements :

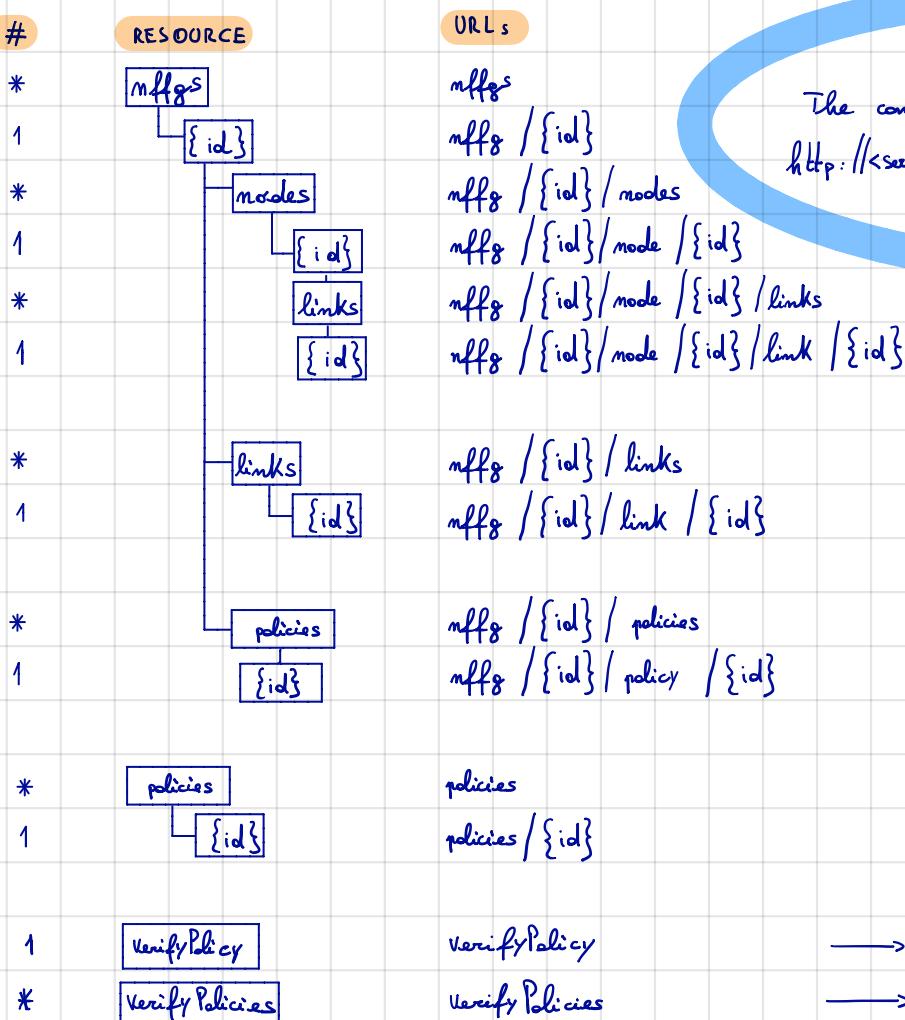


Element / Collections needed:

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 are 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	

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

RESOURCE	METHOD	REQ. BODY	RESP. BODY	Possible HTTP response codes and meanings
/nfjg	POST	nfjg	nfjg	201 - Created 400 - Bad Request A nfjg is already loaded 503 - Service Unavailable
/nfjgs	POST	nfjgs	nfjgs	It is not possible to access to the NearJ XML service, so the insertion fails
/policy	POST	policy	policy	201 - Created 503 - Service Unavailable
/policies	POST	policies	policies	It is not possible to access to the NearJ 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	
/nfjgs	DELETE	nfjgs	nfjgs	200 - OK
/nfjg/{id}	DELETE	—	nfjg	All is OK, data are shown
/policies	DELETE	policies	policies	404 - Not Found The resource you are looking for doesn't exist.
/policy/{id}	DELETE	—	policy	
/policies	PUT	policies	policies	200 - OK All is OK, data are shown
/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
NB. In this color are written all the features designed for the project of the Assignment 3a but not implemented in the Assignment 3b. → deletion of nfjg is implemented but, as not required, is commented				
503 - Service Unavailable It is not possible to access to the NearJ XML service, so the insertion fails				