

NFFGVerifier REST Service Design

- CONCEPTUAL DESIGN

Resources	Method
nffgs	POST
	DELETE
	GET
nffgs/{id}	GET
nffgs/{id}/nodes	GET
nffgs/{id}/nodes/{id}	GET
nffgs/{id}/nodes/{id}/links	GET
	POST
nffgs/{id}/node	POST
policies	DELETE
	POST
	PUT
	GET
policies/{id}	GET
policies/{id}/verification	PUT

- **MAPPING RESOURCES TO URLS**

Resources	URLs	XML Repr.	Meaning
nffgs	nffgs		Set of all NFFGs
{Id}	nffgs/{id}	nffg	A Single NFFG
nodes	nffgs/{id}/ nodes		Set of Nodes of an NFFG
{Id}	nffgs/{id}/nodes/{id}	node	A Single node of an NFFG identified by id
links	nffgs/{id}/nodes/{id}/ links		Set of links of a Node
polices	polices		Set of all policies
{Id}	polices/{id}	policy	A Single policy
verification	polices/{id}/verification	verificationResult	verification result of a policy

- DESCRIPTION OF METHODS (Reading info about NFFGs and Policies)

Resources	Method	Query params	Status code	Meaning
nffgs	GET	nffg_name: xsd:string	200	OK
nffgs/{id}	GET		200	OK
			404	Not found
nffgs/{id}/nodes	GET	node_name: xsd:string	200	OK
nffgs/{id}/nodes/{id}	GET		200	OK
			404	Not found
nffgs/{id}/nodes/{id}/links	GET		200	OK
policies	GET	name: stringList	200	OK
policies/{id}	GET		200	OK
			404	Not found

- DESCRIPTION OF METHODS (Adding and Removing NFFGs and Policies)

Resources	Method	Request Body	Status code	Response Body	Meaning
nffgs	POST		200		OK
policies	POST PUT DELETE	policy_name: xsd:string	200		OK
policies/{id}/verification	PUT	result: xsd:Boolean message: xsd:string	200		OK
		lastVerified: xsd: dateTime	404		Not found