Design of RESTful API for NFFG verifier

Conceptual structure of the resources

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verifier
The root resource. Includes nffgs
TODO
nffgs
The collection of nffg elements.
TODO
nffg
Inlcudes info about the nffg: name, last update, nodes, links, policies??
TODO
policies
The collection of policies.
TODO
policy
TODO
result
TODO

Mapping of the resources to URLs

TODO

Operations by resource

Methods summary:

```
GET, DELETE
   nffgs/
GET, POST
          {nffg_id}/
GET, DELETE
                    policies/
GET, POST
                              {policy_id}/
GET, DELETE, PUT/PATCH
                                          result/
                                                          GET
                    online_result/
                                                          GET
    policies/
                                                          GET
(flat view. readonly??)
          {policy_id}/
                                                          GET
??
                    result/
                                                          GET
??
```

/ verifier root

This is the root resource, also the entry point. Returns all the informations about NFFGs and policies.

method	request	response	explaination	errors
	type	type	expiamation	CITOIS

GET	-	verifier	get the informations (pagination)
DELETE	-	ОК	delete all the informations

/nffgs

NFFGs collection

method	request type	response type	explaination	errors
GET	-	nffgs	get the collection of NFFGs (pagination)	
POST	nffg_req	nffg	create a new NFFG	

TODO: the id of nffg (named entities) is the name? PROs: same type in POST request and in response, no duplicated unique attribute. CONs: the name is always a valid URL?

/nffgs/{nffg_id}

A single nffg identified by its id

method	request type	response type	explaination	errors
GET	-	nffg	get the NFFG	
DELETE	-	ОК	delete the NFFG	

/nffgs/{nffg_id}/policies

Policies collection for this NFFG

method	request type	response type	explaination	errors
GET	-	policies	get the collection of policies (pagination)	
POST	policy_req	policy	create a new policy	

/nffgs/{nffg_id}/policies/{policy_id}

A policy identified by its id

method	request type	response type	explaination	errors
GET	-	policy	get the policy	
DELETE	-	OK	delete the policy	

/nffgs/{nffg_id}/policies/{policy_id}/result

The result of this policy

method	request type	response type	explaination	errors
GET	-	result	the verification of policy is performed and the result is both stored and returned	

/nffgs/{nffg_id}/online_result

Verification endpoint for client policies, not stored on the service

request res

method	type	type	explaination	errors
GET	policy_req	policy/result??	get the result for this policy	

/policies

This is a flat view on the policies. But should be readonly: POST requests should also contain the NFFG name/id and another type should be created.

??? TODO: replication of subtree about policies