NPM Classification APIs v3.1

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Resource: application

This resource deals with general application

http://{device}/api/npm.classification/3.1/applications/items/{id}

JSON

```
{
  "created": string,
  "definitions": {
    "items": [ app_definition_3_0 ],
    <prop>: any
  },
  "desc": string,
  "enabled": boolean,
  "id": number,
  "last_modified": string,
  "last_modified_username": string,
  "name": string,
  "priority": integer,
  "traffic_match_mode": string
}
```

Property Name	Type	Description	Notes
application	*<object>*	This resource deals with general application	Required properties: [name];
application.created	*<string>*	Time (seconds from epoch) at which the rule was first created	Optional;
application.definitions	*<object>*		Optional;
application.definitions.items	*<array of <app_definition_3_0>>*		Optional;
application.definitions.items[items]	*<app_definition_3_0>*		
application.definitions.<prop>	*<any>*		Optional;
application.desc	*<string>*	Describes the General Application Definition	Optional;
application.enabled	*<boolean>*	Status of this General Application Definition - enabled/disabled	Optional;
application.id	*<number>*	Unique ID generated by the backend for this General Application Definition	Optional;
application.last_modified	*<string>*	Time (seconds from epoch) at which the rule was last modified	Optional;
application.last_modified_username	*<string>*	The last user to modify this rule	Optional;
application.name	*<string>*	Unique case sensitive name of General Application Definition	
application.priority	*<integer>*	Application priority used in case the traffic can be associated only with a single application, lower the value the higher the priority	Optional;
application.traffic_match_mode	*<string>*	mode to configure traffic match	Optional; Values: HIGH, MEDIUM, LOW;

Links

application: delete

Deletes the general application that matches the ID provided

DELETE http://{device}/api/npm.classification/3.1/applications/items/{id}

Response Body

On success, the server does not provide any body in the responses.

application: get

Reads and returns a general application for the ID provided

GET http://{device}/api/npm.classification/3.1/applications/items/{id}

Response Body

Returns an application data object.

application: set

Updates the general application that matches the ID provided

```
PUT http://{device}/api/npm.classification/3.1/applications/items/{id}
```

Request Body
Provide an application data object.

Response Body
Returns an application data object.

Resource: applications

This resource deals with collection of general applications

```
http://{device}/api/npm.classification/3.1/applications
```

JSON

```
{
  "items": [ application ]
}
```

Property Name	Type	Description	Notes
applications	<object>	This resource deals with collection of general applications	
applications.items	<array of <application>>		Optional;
applications.items[items]	<application>	This resource deals with general application	

Links

applications: bulk_create

Creates a collection of general applications, assigns an unique ID to each and adds these to the general applications. A collection of general applications with their IDs is returned

```
POST http://{device}/api/npm.classification/3.1/applications/bulk_create
```

Request Body
Provide an applications data object.

Response Body
Returns an applications data object.

applications: bulk_delete

Deletes all general applications or the general applications that match the IDs provided

```
POST http://{device}/api/npm.classification/3.1/applications/bulk_delete
```

Request Body
Provide a bulk_deleter data object.

Response Body
Returns a bulk_deleter data object.

applications: create

Creates a new general application and adds it to the collection of general applications

```
POST http://{device}/api/npm.classification/3.1/applications
```

Request Body

Provide an [application](#) data object.

Response Body
Returns an [application](#) data object.

applications: get

Reads and returns all general applications

GET http://{device}/api/npm.classification/3.1/applications

Response Body
Returns an [applications](#) data object.

applications: merge

Merges the existing general applications with the provided general applications using the name as key

POST http://{device}/api/npm.classification/3.1/applications/merge

Request Body
Provide an [applications](#) data object.

Response Body
Returns an [applications](#) data object.

Resource: hostgroup

This resource deals with Host Group

http://{device}/api/npm.classification/3.1/hostgroups/items/{id}

JSON

```
{
  "created": string,
  "desc": string,
  "enabled": boolean,
  "hosts": host_list,
  "id": number,
  "in_speed": number,
  "in_speed_unit": speed_unit,
  "last_modified": string,
  "last_modified_username": string,
  "member_hostgroups": id_list,
  "member_hostgroups_names": [
    string
  ],
  "name": string,
  "out_speed": number,
  "out_speed_unit": speed_unit,
  <prop>: any
}
```

Property Name	Type	Description	Notes
hostgroup	*<object>*	This resource deals with Host Group	
hostgroup.created	*<string>*	Time (seconds from epoch) at which the Host Group was first created	Optional;
hostgroup.desc	*<string>*	Description of Host Group	Optional;
hostgroup.enabled	*<boolean>*	Status of the Host Group - enabled/disabled	Optional;
hostgroup.hosts	*<host_list>*	List of hosts(e.g. x.x.x.x, x.x.x.x/prefix), host-ranges(e.g. x.x.x.x-y.y.y.y, x.x.x.x/prefix-y.y.y.y/prefix)	
hostgroup.id	*<number>*	Unique ID assigned by the backend	Read-only; Optional;
hostgroup.in_speed	*<number>*	Inbound Utilization	Optional;
hostgroup.in_speed_unit	*<speed_unit>*	Unit of Network Traffic Speed	Values: kbps, Mbps, Gbps;
hostgroup.last_modified	*<string>*	Time (seconds from epoch) at which the Host Group was last modified	Optional;

hostgroup.last_modified_username	*<string>*	The last user to modify this rule	Optional;
hostgroup.member_hostgroups	*<id_list>*	List of IDs	
hostgroup.member_hostgroups_names	*<array of <string>>*	List of Host Group names	Optional;
hostgroup.member_hostgroups_names[items]	*<string>*		
hostgroup.name	*<string>*	Unique name of Host Group	Optional;
hostgroup.out_speed	*<number>*	Outbound Utilization	Optional;
hostgroup.out_speed_unit	*<speed_unit>*	Unit of Network Traffic Speed	Values: kbps, Mbps, Gbps;
hostgroup.<prop>	*<any>*		Optional;

Links

hostgroup: delete

Deletes the Host Group matching the ID from the configuration

```
DELETE http://{device}/api/npm.classification/3.1/hostgroups/items/{id}
```

Response Body

On success, the server does not provide any body in the responses.

hostgroup: get

Returns the Host Group from the configuration that matches the ID

```
GET http://{device}/api/npm.classification/3.1/hostgroups/items/{id}
```

Response Body

Returns a [hostgroup](#) data object.

hostgroup: set

Sets the Host Group matching the ID

```
PUT http://{device}/api/npm.classification/3.1/hostgroups/items/{id}
```

Request Body

Provide a [hostgroup](#) data object.

Response Body

Returns a [hostgroup](#) data object.

Resource: hostgroups

This resource deals with Host Groups

```
http://{device}/api/npm.classification/3.1/hostgroups
```

JSON

```
{
  "items": [ hostgroup ],
  <prop>: any
}
```

Property Name	Type	Description	Notes
hostgroups	*<object>*	This resource deals with Host Groups	
hostgroups.items	*<array of <hostgroup>>*		Optional;
hostgroups.items[items]	*<hostgroup>*	This resource deals with Host Group	
hostgroups.<prop>	*<any>*		Optional;

Links

hostgroups: bulk_create
Creates multiple Host Groups, assigns an unique ID to each and adds these to the Host Group configuration. If any individual Host Group creation fails, the complete request is failed. A collection Host Group with all newly created Host Groups is returned

POST http://{device}/api/npm.classification/3.1/hostgroups/bulk_create

Request Body
Provide a hostgroups data object.

Response Body
Returns a hostgroups data object.

hostgroups: bulk_delete
Deletes all Host Groups or Host Groups with IDs provided

POST http://{device}/api/npm.classification/3.1/hostgroups/bulk_delete

Request Body
Provide a bulk_deleter data object.

Response Body
Returns a bulk_deleter data object.

hostgroups: bulk_hierarchy
Creates parent-child hierarchy between Host Groups in bulk mode

POST http://{device}/api/npm.classification/3.1/hostgroups/bulk_hierarchy

Request Body
Provide a hostgroups data object.

Response Body
Returns a hostgroups data object.

hostgroups: create
Creates a new Host Group, assigns it an ID, adds it to the hostgroup configuration and returns the new Host Group with it's ID set

POST http://{device}/api/npm.classification/3.1/hostgroups

Request Body
Provide a hostgroup data object.

Response Body
Returns a hostgroup data object.

hostgroups: get
Reads the Host Group configuration and returns it as a Host Groups collection

GET http://{device}/api/npm.classification/3.1/hostgroups

Response Body
Returns a hostgroups data object.

hostgroups: merge
Merges the existing Host Groups with the provided Host Groups using the name as key

```
POST http://{device}/api/npm.classification/3.1/hostgroups/merge
```

Request Body
  Provide a [hostgroups](#) data object.

Response Body
  Returns a [hostgroups](#) data object.

Resource: url

This resource deals with url application

```
http://{device}/api/npm.classification/3.1/urls/items/{id}
```

JSON

```
{
  "created": string,
  "desc": string,
  "enabled": boolean,
  "id": number,
  "last_modified": string,
  "last_modified_username": string,
  "name": string,
  "preferred": boolean,
  "urls": [
    string
  ]
}
```

Property Name	Type	Description	Notes
url	*<object>*	This resource deals with url application	Required properties: [name, urls];
url.created	*<string>*	Time (seconds from epoch) at which the rule was first created	Optional;
url.desc	*<string>*		Optional;
url.enabled	*<boolean>*		Optional;
url.id	*<number>*		Optional;
url.last_modified	*<string>*	Time (seconds from epoch) at which the rule was last modified	Optional;
url.last_modified_username	*<string>*	The last user to modify this rule	Optional;
url.name	*<string>*		
url.preferred	*<boolean>*		Optional;
url.urls	*<array of <string>>*		
url.urls[items]	*<string>*		

Links

url: delete

Deletes the url application that matches the ID provided

```
DELETE http://{device}/api/npm.classification/3.1/urls/items/{id}
```

Response Body
  On success, the server does not provide any body in the responses.

url: get

Reads and return the url application that matches the ID provided

```
GET http://{device}/api/npm.classification/3.1/urls/items/{id}
```

Response Body
  Returns an [url](#) data object.
```

## url: set

Updates the url application that matches the ID provided

```
PUT http://{device}/api/npm.classification/3.1/urls/items/{id}
```

Request Body
Provide an url data object.

Response Body
Returns an url data object.

Resource: urls

This resource deals with collection of url applications

```
http://{device}/api/npm.classification/3.1/urls
```

JSON

```
{
  "items": [ url ]
}
```

Property Name	Type	Description	Notes
urls	<object>	This resource deals with collection of url applications	
urls.items	<array of <url>>		Optional;
urls.items[items]	<url>	This resource deals with url application	

Links

urls: bulk_create

Creates a collection of url applications assigning an ID to each url application. Appends the new collection to the url applications. Returns the new collection of url applications with their corresponding ID

```
POST http://{device}/api/npm.classification/3.1/urls/bulk_create
```

Request Body
Provide an urls data object.

Response Body
Returns an urls data object.

urls: bulk_delete

Deletes all url applications or url applications matching the IDs provided

```
POST http://{device}/api/npm.classification/3.1/urls/bulk_delete
```

Request Body
Provide a bulk_deleter data object.

Response Body
Returns a bulk_deleter data object.

urls: create

Creates a new url application and adds it to the url application. Returns the url application with its new ID populated

```
POST http://{device}/api/npm.classification/3.1/urls
```

Request Body

Provide an url data object.

Response Body
  Returns an url data object.

urls: get
  Reads and returns the complete collection of url applications

    GET http://{device}/api/npm.classification/3.1/urls

Response Body
  Returns an urls data object.

urls: merge
  Merges the existing url applications with the provided url applications using the name as key. Key is case insensitive

    POST http://{device}/api/npm.classification/3.1/urls/merge

Request Body
  Provide an urls data object.

Response Body
  Returns an urls data object.

Type: app_definition_3_0

JSON

```
{
  "dpi_ids": [
    integer
  ],
  "hostgroup_ids": id_list,
  "hosts": host_list,
  "transport_rules": [
    {
      "ip_protocol": string,
      "ports": string
    }
  ],
  <prop>: any
}
```

Property Name	Type	Description	Notes
app_definition_3_0	<object>		
app_definition_3_0.dpi_ids	<array of <integer>>		Optional;
app_definition_3_0.dpi_ids[items]	<integer>		
app_definition_3_0.hostgroup_ids	<id_list>	List of IDs	
app_definition_3_0.hosts	<host_list>	List of hosts(e.g. x.x.x.x, x.x.x.x/prefix), host-ranges(e.g. x.x.x.x-y.y.y.y, x.x.x.x/prefix-y.y.y.y/prefix)	
app_definition_3_0.transport_rules	<array of <object>>	List of port ranges	Optional;
app_definition_3_0.transport_rules [items]	<object>	IP Protocol and transport ports	Required properties: [ip_protocol];
app_definition_3_0.transport_rules [items].ip_protocol	<string>	IP protocol identifier. Full list can be retrieved with /ip_protocols resource	
app_definition_3_0.transport_rules [items].ports	<string>	comma seperated list of port ranges. e.g. x, p-q, y-z	Optional;
app_definition_3_0.<prop>	<any>		Optional;

Type: bulk_deleter
  Object to trigger bulk deletion of given resource

JSON

```
{
  "delete_all": boolean,
  "delete_ids": id_list,
  <prop>: any
}
```

Property Name	Type	Description	Notes
bulk_deleter	<object>	Object to trigger bulk deletion of given resource	
bulk_deleter.delete_all	<boolean>	Delete all objects of the given resource	Optional;
bulk_deleter.delete_ids	<id_list>	List of IDs	
bulk_deleter.<prop>	<any>		Optional;

Type: host_list

List of hosts(e.g. x.x.x.x, x.x.x.x/prefix), host-ranges(e.g. x.x.x.x-y.y.y.y, x.x.x.x/prefix-y.y.y.y/prefix)

JSON

```
[
  string
]
```

Property Name	Type	Description	Notes
host_list	<array of <string>>	List of hosts(e.g. x.x.x.x, x.x.x.x/prefix), host-ranges(e.g. x.x.x.x-y.y.y.y, x.x.x.x/prefix-y.y.y.y/prefix)	
host_list[items]	<string>		

Type: id_list

List of IDs

JSON

```
[
  number
]
```

Property Name	Type	Description	Notes
id_list	<array of <number>>	List of IDs	
id_list[items]	<number>		

Type: speed_unit

Unit of Network Traffic Speed

JSON

```
string
```

Property Name	Type	Description	Notes
speed_unit	<string>	Unit of Network Traffic Speed	Values: kbps, Mbps, Gbps;