

# **NPM Classification APIs v3.0**

Copyright © Riverbed Technology Inc. 2024

Created Jan 16, 2024 at 02:01 PM

## Resource: application

This resource deals with general application

`http://{device}/api/npm.classification/3.0/applications/items/{id}`

### JSON

```
{
  "definitions": {
    "items": [
      {
        "dpi_ids": dpi_list,
        "hostgroup_ids": id_list,
        "hosts": host_list,
        "transport_rules": transport_rule_list_3_0,
        <prop>: any
      }
    ],
    <prop>: any
  },
  "desc": string,
  "enabled": boolean,
  "id": number,
  "name": string,
  "priority": integer,
  "traffic_match_mode": string
}
```

Property Name	Type	Description	Notes
<i>application</i>	<i>&lt;object&gt;</i>	This resource deals with general application	Required properties: [name];
<i>application.definitions</i>	<i>&lt;object&gt;</i>		Optional;
<i>application.definitions.items</i>	<i>&lt;array of &lt;object&gt;&gt;</i>		Optional;
<i>application.definitions.items[items]</i>	<i>&lt;object&gt;</i>		
<i>application.definitions.items[items].dpi_ids</i>	<i>&lt;dpi_list&gt;</i>		
<i>application.definitions.items[items].hostgroup_ids</i>	<i>&lt;id_list&gt;</i>	List of IDs	
<i>application.definitions.items[items].hosts</i>	<i>&lt;host_list&gt;</i>	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)	
<i>application.definitions.items[items].transport_rules</i>	<i>&lt;transport_rule_list_3_0&gt;</i>	List of port ranges	
<i>application.definitions.items[items].&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		Optional;
<i>application.definitions.&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		Optional;
<i>application.desc</i>	<i>&lt;string&gt;</i>	Describes the General Application Definition	Optional;
<i>application.enabled</i>	<i>&lt;boolean&gt;</i>	Status of this General Application Definition - enabled/disabled	Optional;
<i>application.id</i>	<i>&lt;number&gt;</i>	Unique ID generated by the backend for this General Application Definition	Optional;
<i>application.name</i>	<i>&lt;string&gt;</i>	Unique case sensitive name of General Application Definition	
<i>application.priority</i>	<i>&lt;integer&gt;</i>	Application priority used in case the traffic can be associated only with a single application, lower the value the higher the priority	Optional;
<i>application.traffic_match_mode</i>	<i>&lt;string&gt;</i>	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/3.0/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/3.0/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/3.0/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/3.0/applications
```

### JSON

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

Property Name	Type	Description	Notes
<i>applications</i>	<object>	This resource deals with collection of general applications	
<i>applications.items</i>	<array of <application>>		Optional;
<i>applications.items[items]</i>	< <a href="#">application</a> >	This resource deals with general application	

---

## Links

### applications: bulk\_create

Creates a collection of general applications, assigns a 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/3.0/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/3.0/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/3.0/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/3.0/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/3.0/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/3.0/hostgroups/items/{id}
```

### JSON

```
{
  "desc": string,
  "enabled": boolean,
  "hosts": host_list,
  "id": number,
  "in_speed": number,
  "in_speed_unit": speed_unit,
  "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
<i>hostgroup</i>	<object>	This resource deals with Host Group	
<i>hostgroup.desc</i>	<string>	Description of Host Group	Optional;
<i>hostgroup.enabled</i>	<boolean>	Status of the Host Group - enabled/disabled	Optional;
<i>hostgroup.hosts</i>	<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)	
<i>hostgroup.id</i>	<number>	Unique ID assigned by the backend	Read-only; Optional;

<i>hostgroup.in_speed</i>	<i>&lt;number&gt;</i>	Inbound Utilization	Optional;
<i>hostgroup.in_speed_unit</i>	<i>&lt;speed_unit&gt;</i>	Unit of Network Traffic Speed	Values: kbps, Mbps, Gbps;
<i>hostgroup.member_hostgroups</i>	<i>&lt;id_list&gt;</i>	List of IDs	
<i>hostgroup.member_hostgroups_names</i>	<i>&lt;array of &lt;string&gt;&gt;</i>	List of Host Group names	Optional;
<i>hostgroup.member_hostgroups_names[items]</i>	<i>&lt;string&gt;</i>		
<i>hostgroup.name</i>	<i>&lt;string&gt;</i>	Unique name of Host Group	Optional;
<i>hostgroup.out_speed</i>	<i>&lt;number&gt;</i>	Outbound Utilization	Optional;
<i>hostgroup.out_speed_unit</i>	<i>&lt;speed_unit&gt;</i>	Unit of Network Traffic Speed	Values: kbps, Mbps, Gbps;
<i>hostgroup.&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		Optional;

## Links

### hostgroup: delete

Deletes the Host Group matching the ID from the configuration

```
DELETE http://{device}/api/npm.classification/3.0/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/3.0/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/3.0/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/3.0/hostgroups
```

#### JSON

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

Property Name	Type	Description	Notes
<i>hostgroups</i>	<i>&lt;object&gt;</i>	This resource deals with Host Groups	
<i>hostgroups.items</i>	<i>&lt;array of &lt;hostgroup&gt;&gt;</i>		Optional;
<i>hostgroups.items[items]</i>	<i>&lt;hostgroup&gt;</i>	This resource deals with Host Group	
<i>hostgroups.&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		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/3.0/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/3.0/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/3.0/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/3.0/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/3.0/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/3.0/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/3.0/urls/items/{id}
```

### JSON

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

Property Name	Type	Description	Notes
<i>url</i>	<object>	This resource deals with url application	Required properties: [name, urls];
<i>url.desc</i>	<string>		Optional;
<i>url.enabled</i>	<boolean>		Optional;
<i>url.id</i>	<number>		Optional;
<i>url.name</i>	<string>		
<i>url.preferred</i>	<boolean>		Optional;
<i>url.urls</i>	<array of <string>>		
<i>url.urls[items]</i>	<string>		

## Links

### url: delete

Deletes the url application that matches the ID provided

```
DELETE http://{device}/api/npm.classification/3.0/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/3.0/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/3.0/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/3.0/urls
```

#### JSON

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

Property Name	Type	Description	Notes
<i>urls</i>	<i>&lt;object&gt;</i>	This resource deals with collection of url applications	
<i>urls.items</i>	<i>&lt;array of &lt;url&gt;&gt;</i>		Optional;
<i>urls.items[items]</i>	<i>&lt;url&gt;</i>	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/3.0/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/3.0/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/3.0/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/3.0/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/3.0/urls/merge
```

#### Request Body

Provide an [urls](#) data object.

#### Response Body

Returns an [urls](#) data object.

## 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
<i>bulk_deleter</i>	<i>&lt;object&gt;</i>	Object to trigger bulk deletion of given resource	
<i>bulk_deleter.delete_all</i>	<i>&lt;boolean&gt;</i>	Delete all objects of the given resource	Optional;
<i>bulk_deleter.delete_ids</i>	<i>&lt;id_list&gt;</i>	List of IDs	
<i>bulk_deleter.&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		Optional;

## Type: dpi\_list

#### JSON

```
[
  integer
]
```

Property Name	Type	Description	Notes
<i>dpi_list</i>	<i>&lt;array of &lt;integer&gt;&gt;</i>		
<i>dpi_list[items]</i>	<i>&lt;integer&gt;</i>		

## 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
---------------	------	-------------	-------

<i>host_list</i>	<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)	
<i>host_list</i> [items]	<string>		

## Type: id\_list

List of IDs

JSON

```
[
  number
]
```

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

## Type: speed\_unit

Unit of Network Traffic Speed

JSON

```
string
```

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

## Type: transport\_rule\_list\_3\_0

List of port ranges

JSON

```
[
  {
    "ip_protocol": string,
    "ports": string
  }
]
```

Property Name	Type	Description	Notes
<i>transport_rule_list_3_0</i>	<array of <object>>	List of port ranges	
<i>transport_rule_list_3_0</i> [items]	<object>	IP Protocol and transport ports	Required properties: [ip_protocol];
<i>transport_rule_list_3_0</i> [items]. ip_protocol	<string>	IP protocol identifier. Full list can be retrieved with /ip_protocols resource	
<i>transport_rule_list_3_0</i> [items].ports	<string>	comma seperated list of port ranges. e.g. x, p-q, y-z	Optional;