**Resource: application**

This resource deals with general application

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

**JSON**

```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
}
```

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

**Links**

**application: delete**

Deletes the general application that matches the ID provided

```plaintext
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

```plaintext
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 ]
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>applications</td>
<td>&lt;object&gt;</td>
<td>This resource deals with collection of general applications</td>
<td></td>
</tr>
<tr>
<td>applications.items</td>
<td>&lt;array of &lt;application&gt;&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
<tr>
<td>applications.items[items]</td>
<td>&lt;application&gt;</td>
<td>This resource deals with general application</td>
<td></td>
</tr>
</tbody>
</table>

**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}

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>hostgroup</td>
<td>&lt;object&gt;</td>
<td>This resource deals with Host Group</td>
<td></td>
</tr>
<tr>
<td>hostgroup.created</td>
<td>&lt;string&gt;</td>
<td>Time (seconds from epoch) at which the Host Group was first created</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.desc</td>
<td>&lt;string&gt;</td>
<td>Description of Host Group</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.enabled</td>
<td>&lt;boolean&gt;</td>
<td>Status of the Host Group - enabled/disabled</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.hosts</td>
<td>&lt;host_list&gt;</td>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>hostgroup.id</td>
<td>&lt;number&gt;</td>
<td>Unique ID assigned by the backend</td>
<td>Read-only;</td>
</tr>
<tr>
<td>hostgroup.in_speed</td>
<td>&lt;number&gt;</td>
<td>Inbound Utilization</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.in_speed_unit</td>
<td>&lt;speed_unit&gt;</td>
<td>Unit of Network Traffic Speed</td>
<td>Values: kbps, Mbps, Gbps;</td>
</tr>
<tr>
<td>hostgroup.last_modified</td>
<td>&lt;string&gt;</td>
<td>Time (seconds from epoch) at which the Host Group was last modified</td>
<td>Optional;</td>
</tr>
<tr>
<td>Property Name</td>
<td>Type</td>
<td>Description</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------</td>
<td>--------------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>hostgroups</td>
<td>&lt;object&gt;</td>
<td>This resource deals with Host Groups</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroups.items</td>
<td>&lt;array of &lt;hostgroup&gt;&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hostgroups.items[items]</td>
<td>&lt;hostgroup&gt;</td>
<td>This resource deals with Host Group</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroups.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

**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**

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

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

**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

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>urls</td>
<td>&lt;object&gt;</td>
<td>This resource deals with collection of url applications</td>
<td></td>
</tr>
<tr>
<td>urls.items</td>
<td>&lt;array of &lt;url&gt;&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
<tr>
<td>urls.items[items]</td>
<td>&lt;url&gt;</td>
<td>This resource deals with url application</td>
<td></td>
</tr>
</tbody>
</table>

---

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**

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

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>app_definition_3_0</td>
<td>&lt;object&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>app_definition_3_0.dpi_ids</td>
<td>&lt;array of &lt;integer&gt;&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
<tr>
<td>app_definition_3_0.hostgroup_ids</td>
<td>&lt;id_list&gt;</td>
<td>List of IDs</td>
<td></td>
</tr>
<tr>
<td>app_definition_3_0.hosts</td>
<td>&lt;host_list&gt;</td>
<td>List of hosts(e.g. x.x.x.x, x.x.x.x/prefix), host-ranges(e.g. x.x.x-y.y.y-y, x.x.x/prefix-y.y.y-y/prefix)</td>
<td></td>
</tr>
<tr>
<td>app_definition_3_0.transport_rules</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>List of port ranges</td>
<td>Optional;</td>
</tr>
<tr>
<td>app_definition_3_0.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Type: bulk_deleter

Object to trigger bulk deletion of given resource
**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 | Optional;
bulk_deleter.<prop> | <any> | | 

**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)

**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

**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

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