Resource: application

This resource deals with general application.

```
http://{device}/api/npm.classification/3.2/applications/items/{id}
```

### JSON
```
{
  "created": string,
  "definitions": {
    "items": [{ app_definition_3_0 }, <prop>: any]
  },
  "desc": string,
  "enabled": boolean,
  "id": number,
  "include_dpi_tags": boolean,
  "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></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.definitions.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</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.include_dpi_tags</td>
<td>&lt;boolean&gt;</td>
<td>Indicates whether to track auto-recognized applications</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.

```
DELETE http://{device}/api/npm.classification/3.2/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/3.2/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/3.2/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/3.2/applications
```

<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/3.2/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/3.2/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/3.2/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/3.2/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/3.2/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/3.2/hostgroups/items/{id}

### JSON

```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
}
```

<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.y.y.y.y, x.x.x.x/prefix- y.y.y/y/prefix)</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.id</td>
<td>&lt;number&gt;</td>
<td>Unique ID assigned by the backend</td>
<td>Read-only; Optional;</td>
</tr>
<tr>
<td>hostgroup.in_speed</td>
<td>&lt;number&gt;</td>
<td>Inbound Utilization</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>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>hostgroup.last_modified_username</td>
<td>&lt;string&gt;</td>
<td>The last user to modify this rule</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.member_hostgroups</td>
<td>&lt;id_list&gt;</td>
<td>List of IDs</td>
<td></td>
</tr>
<tr>
<td>hostgroup.member_hostgroups_names</td>
<td>&lt;array of &lt;string&gt;&gt;</td>
<td>List of Host Group names</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.name</td>
<td>&lt;string&gt;</td>
<td>Unique name of Host Group</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.out_speed</td>
<td>&lt;number&gt;</td>
<td>Outbound Utilization</td>
<td>Optional;</td>
</tr>
<tr>
<td>hostgroup.out_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.&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/3.2/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/3.2/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/3.2/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/3.2/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

```plaintext
POST http://{device}/api/npm.classification/3.2/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

```plaintext
POST http://{device}/api/npm.classification/3.2/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

```plaintext
POST http://{device}/api/npm.classification/3.2/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

```plaintext
POST http://{device}/api/npm.classification/3.2/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

```plaintext
GET http://{device}/api/npm.classification/3.2/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/3.2/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/3.2/urls/items/{id}
```

**JSON**

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

<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></td>
<td></td>
</tr>
<tr>
<td>url.enabled</td>
<td>&lt;boolean&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
<tr>
<td>url.id</td>
<td>&lt;number&gt;</td>
<td></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></td>
<td></td>
</tr>
<tr>
<td>url.preferred</td>
<td>&lt;boolean&gt;</td>
<td></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>urlurls[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/3.2/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/3.2/urls/items/{id}
```
Response Body
Returns an url data object.

**url: set**
Updates the url application that matches the ID provided

```http
PUT {device}/api/npm.classification/3.2/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/3.2/urls
```

**JSON**

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

<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></td>
</tr>
<tr>
<td>urls.items[items]</td>
<td>&lt;url&gt;</td>
<td>This resource deals with url application</td>
<td>Optional;</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

```http
POST {device}/api/npm.classification/3.2/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

```http
POST {device}/api/npm.classification/3.2/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/3.2/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/3.2/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/3.2/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
    }
  ]
}
```

<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.dpi_ids.items</td>
<td>&lt;integer&gt;</td>
<td>List of IDs</td>
<td></td>
</tr>
<tr>
<td>app_definition_3_0.hostgroup_ids</td>
<td>&lt;id list&gt;</td>
<td></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.x-y.y.y.y, x.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.transport_rules.items</td>
<td>&lt;object&gt;</td>
<td>IP Protocol and transport ports</td>
<td>Required properties: [ip_protocol];</td>
</tr>
<tr>
<td>app_definition_3_0.transport_rules.items.ip_protocol</td>
<td>&lt;string&gt;</td>
<td>IP protocol identifier. Full list can be retrieved with /ip_protocols resource</td>
<td></td>
</tr>
<tr>
<td>app_definition_3_0.transport_rules.items.ports</td>
<td>&lt;string&gt;</td>
<td>comma seperated list of port ranges. e.g. x, p-q, y-z</td>
<td>Optional;</td>
</tr>
<tr>
<td>app_definition_3_0.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>
Type: application_type_enum

Different types of applications

```
string
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>application_type_enum</td>
<td>&lt;string&gt;</td>
<td>Different types of applications</td>
<td>Values: SYSTEM, URL, APPLICATION;</td>
</tr>
</tbody>
</table>

Type: bulk_deleter

Object to trigger bulk deletion of given resource

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

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>bulk_deleter</td>
<td>&lt;object&gt;</td>
<td>Object to trigger bulk deletion</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>of given resource</td>
<td></td>
</tr>
<tr>
<td>delete_all</td>
<td>&lt;boolean&gt;</td>
<td>Delete all objects of the given</td>
<td>Optional;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>resource</td>
<td></td>
</tr>
<tr>
<td>delete_ids</td>
<td>&lt;id_list&gt;</td>
<td>List of IDs</td>
<td></td>
</tr>
<tr>
<td>prop</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

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)

```
[
  string
]
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>host_list</td>
<td>&lt;array of &lt;string&gt;&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>host_list[items]</td>
<td>&lt;string&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Type: id_list

List of IDs

```
[
  number
]
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>id_list</td>
<td>&lt;array of &lt;number&gt;&gt;</td>
<td>List of IDs</td>
<td></td>
</tr>
<tr>
<td>id_list[items]</td>
<td>&lt;number&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Type: speed_unit
Type: Speed_unit
Unit of Network Traffic Speed

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>speed_unit</td>
<td>string</td>
<td>Unit of Network Traffic Speed</td>
<td>Values: kbps, Mbps, Gbps;</td>
</tr>
</tbody>
</table>