

NPM Packet Capture v4.0

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Resource: job

Information about a capture job

http://{device}/api/npm.packet_capture/4.0/jobs/items/{id}

JSON

```
{
  "config": {
    "capture_from_all_vifgs": boolean,
    "enabled": boolean,
    "filter": input_filter,
    "indexing": job_indexing,
    "name": string,
    "retention_rules": packet_retention,
    "snap_len": integer,
    "vifgs": [
      integer
    ]
  },
  "id": string,
  "state": {
    "stats": {
      "bytes_written": recent_stats,
      "packets_written": recent_stats
    },
    "status": {
      "capture_disk_space": integer,
      "capture_size": integer,
      "packet_end_time": string,
      "packet_start_time": string,
      "state": string
    }
  }
}
```

Property Name	Type	Description	Notes
<i>job</i>	<i><object></i>	Information about a capture job	Required properties: [config];
<i>job.config</i>	<i><object></i>	Configuration of a capture job	Required properties: [name, enabled, vifgs, capture_from_all_vifgs, filter, snap_len, retention_rules, indexing];
<i>job.config.capture_from_all_vifgs</i>	<i><boolean></i>	If enabled, this capture job will ignore the field 'vifgs' and will capture from all existing VIFGs	
<i>job.config.enabled</i>	<i><boolean></i>	Whether the capture job is configured to run or not	
<i>job.config.filter</i>	<i><input_filter></i>	Packet filter configuration	
<i>job.config.indexing</i>	<i><job_indexing></i>	Parameters for Microflow indexing	
<i>job.config.name</i>	<i><string></i>	Name of the job	
<i>job.config.retention_rules</i>	<i><packet_retention></i>	Packet storage retention rules	
<i>job.config.snap_len</i>	<i><integer></i>	It specifies the max number of bytes for every packet that will be stored to disk. If the packet is longer, it will be truncated	Default is 65535;
<i>job.config.vifgs</i>	<i><array of <integer>></i>	List of VIFGs the capture job is collecting packets from	
<i>job.config.vifgs[items]</i>	<i><integer></i>	ID of the VIFG that this capture job captures from	
<i>job.id</i>	<i><string></i>	The UUID of the capture job	Read-only; Optional;
<i>job.state</i>	<i><object></i>	Information about the state of a capture job	Read-only; Required properties: [stats, status]; Optional;
<i>job.state.stats</i>	<i><object></i>	Capture job statistics	Read-only; Required properties: [packets_written, bytes_written];
<i>job.state.stats.bytes_written</i>	<i><recent_stats></i>	Statistics about last second/minute/hour (and total)	Read-only;
<i>job.state.stats.packets_written</i>	<i><recent_stats></i>	Statistics about last second/minute/hour (and total)	Read-only;
<i>job.state.status</i>	<i><object></i>	Generic information on the capture job and its data	Read-only; Required properties: [state, packet_start_time, packet_end_time, capture_size, capture_disk_space];
<i>job.state.status.capture_disk_space</i>	<i><integer></i>	The actual size of the capture job on disk (including overhead)	Read-only;
<i>job.state.status.capture_size</i>	<i><integer></i>	The size of all the packets of the capture job (packets only, without overhead)	Read-only;
<i>job.state.status.packet_end_time</i>	<i><string></i>	The timestamp of the last packet of the capture job. The string represents a decimal value of seconds since epoch	Read-only;

<code>job.state.status.packet_start_time</code>	<code><string></code>	The timestamp of the first packet of the capture job. The string represents a decimal value of seconds since epoch	Read-only;
<code>job.state.status.state</code>	<code><string></code>	The state of a capture job	Read-only; Values: UNKNOWN, RUNNING, STOPPED;

Links

job: clear_packets

Used to clear capture job data

```
POST http://{device}/api/npm.packet_capture/4.0/jobs/items/{id}/clear
```

Request Body

Do not provide a request body.

Response Body

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

job: delete

```
DELETE http://{device}/api/npm.packet_capture/4.0/jobs/items/{id}
```

Response Body

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

job: get

```
GET http://{device}/api/npm.packet_capture/4.0/jobs/items/{id}
```

Response Body

Returns a [job](#) data object.

job: set

```
PUT http://{device}/api/npm.packet_capture/4.0/jobs/items/{id}
```

Request Body

Provide a [job](#) data object.

Response Body

Returns a [job](#) data object.

job: stats

Get statistics about the job

```
GET http://{device}/api/npm.packet_capture/4.0/jobs/items/{id}/stats{?start_time,end_time,duration,gap}
```

Response Body

On success, the server returns a response body with the following structure:

```
JSON
```

```

{
  "job_intervals": {
    "items": [
      {
        "disk_size": integer,
        "end_time": string,
        "packet_size": integer,
        "start_time": string,
        "total_packets": integer
      }
    ]
  }
}

```

Property Name	Type	Description	Notes
<i>job.links.stats.response</i>	<object>	Statistics about job	Required properties: [job_intervals];
<i>job.links.stats.response.job_intervals</i>	<object>	Collection of Capture Job intervals.	Required properties: [items];
<i>job.links.stats.response.job_intervals.items</i>	<array of <object>>	Array of job intervals	
<i>job.links.stats.response.job_intervals.items[items]</i>	<object>	Job Interval	Required properties: [start_time, end_time, packet_size, disk_size, total_packets];
<i>job.links.stats.response.job_intervals.items[items].disk_size</i>	<integer>	The (disk) size in bytes of the interval. It includes overhead and represents the actual amount of space needed to store the interval on disk.	
<i>job.links.stats.response.job_intervals.items[items].end_time</i>	<string>	The timestamp of the last packet of the interval. The string represents a decimal value of seconds since epoch	
<i>job.links.stats.response.job_intervals.items[items].packet_size</i>	<integer>	The (packet) size in bytes of the interval. It only includes the size of packets with no overhead.	
<i>job.links.stats.response.job_intervals.items[items].start_time</i>	<string>	The timestamp of the first packet of the interval. The string represents a decimal value of seconds since epoch	
<i>job.links.stats.response.job_intervals.items[items].total_packets</i>	<integer>	The number of packet in the interval	

Resource: job_defaults

Default values to use when creating a new capture job

http://{device}/api/npm.packet_capture/4.0/info/job_defaults

JSON

```

{
  "capture_from_all_vifgs": boolean,
  "enabled": boolean,
  "filter": input_filter,
  "indexing": job_indexing,
  "name": string,
  "retention_rules": packet_retention,
  "snap_len": integer,
  "vifgs": [
    integer
  ]
}

```

Property Name	Type	Description	Notes
<i>job_defaults</i>	<object>	Default values to use when creating a new capture job	Read-only; Required properties: [name, enabled, vifgs, capture_from_all_vifgs, filter, snap_len, retention_rules, indexing];
<i>job_defaults.capture_from_all_vifgs</i>	<boolean>	Default value for whether the capture job should capture from all VIFGs or not	Read-only;
<i>job_defaults.enabled</i>	<boolean>	Default status of the job	Read-only;
<i>job_defaults.filter</i>	<input_filter>	Packet filter configuration	
<i>job_defaults.indexing</i>	<job_indexing>	Parameters for Microflow indexing	
<i>job_defaults.name</i>	<string>	Default name of new job	Read-only;
<i>job_defaults.retention_rules</i>	<packet_retention>	Packet storage retention rules	
<i>job_defaults.snap_len</i>	<integer>	Default value for snaplen	Read-only;
<i>job_defaults.vifgs</i>	<array of <integer>>	Default value for vifgs from	Read-only;

<code>job_defaults.vifgs[items]</code>	<code><integer></code>	ID of the VIFG that this capture job captures from	Read-only;
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Links

job_defaults: get

GET http://{device}/api/npm.packet_capture/4.0/info/job_defaults

Response Body

Returns a [job_defaults](#) data object.

Resource: jobs

Capture jobs configured on the system

http://{device}/api/npm.packet_capture/4.0/jobs

JSON

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

Property Name	Type	Description	Notes
<code>jobs</code>	<code><object></code>	Capture jobs configured on the system	Required properties: [items];
<code>jobs.items</code>	<code><array of <job>></code>	List of capture jobs	
<code>jobs.items[items]</code>	<code><job></code>	Information about a capture job	

Links

jobs: create

POST http://{device}/api/npm.packet_capture/4.0/jobs

Request Body

Provide a [job](#) data object.

Response Body

Returns a [job](#) data object.

jobs: get

GET http://{device}/api/npm.packet_capture/4.0/jobs

Response Body

Returns a [jobs](#) data object.

Resource: packet_broker_types

Information about supported packet brokers

http://{device}/api/npm.packet_capture/4.0/info/packet_broker_types

JSON

```
[
  {
    "description": string,
    "type": packet_broker_types_type_enum,
    "type_pretty": string
  }
]
```

Property Name	Type	Description	Notes
packet_broker_types	<array of <object>>	Information about supported packet brokers	
packet_broker_types[items]	<object>	Information about a single packet broker	Required properties: [type, type_pretty, description];
packet_broker_types[items].description	<string>	Description of the specific type of packet broker	
packet_broker_types[items].type	<packet_broker_types_type_enum>	Enumerative for supported packet brokers	Values: NONE, UNKNOWN, CPACKET_TS_ONLY, CPACKET_TS_AND_SLICE, GIGAMON_HEADER, GIGAMON_TRAILER, GIGAMON_TRAILER_X12, ANUE, ARISTA, ARISTA_BEFORE_FCS;
packet_broker_types[items].type_pretty	<string>	User friendly name for the specific type of packet broker	

Links

packet_broker_types: get

GET http://{device}/api/npm.packet_capture/4.0/info/packet_broker_types

Response Body

Returns a [packet_broker_types](#) data object.

Resource: phys_interface

Information about a monitoring interface

http://{device}/api/npm.packet_capture/4.0/interfaces/items/{id}

JSON

```
{
  "config": {
    "description": string,
    "enabled": boolean,
    "name": string,
    "speed_duplex": phys_interface_capabilities_enum
  },
  "id": string,
  "state": {
    "interface_type": string,
    "mtu": integer,
    "speed_duplex": phys_interface_capabilities_enum,
    "stats": {
      "bytes_total": recent_stats,
      "packets_dropped": recent_stats,
      "packets_total": recent_stats
    }
  },
  "status": string
}
```

Property Name	Type	Description	Notes
phys_interface	<object>	Information about a monitoring interface	Required properties: [id, config];
phys_interface.config	<object>	Configuration of a monitoring interface	Required properties: [name, enabled, description, speed_duplex];
phys_interface.config.description	<string>	A description of the monitoring interface	

<code>phys_interface.config.enabled</code>	<code><boolean></code>	Used to enable/disable a monitoring interface	
<code>phys_interface.config.name</code>	<code><string></code>	A user-friendly name for the interface	
<code>phys_interface.config.speed_duplex</code>	<code><phys_interface_capabilities_enum></code>	The types of supported speed/duplex configurations. AUTONEG_* values will try to autonegotiate the corresponding speed in Mbps (AUTNEG will negotiate them all). All other values will force a specific speed in Mbps (FD full duplex, HD half duplex)	Values: UNKNOWN, AUTONEG, AUTONEG_10, AUTONEG_100, AUTONEG_1000, 10_HD, 10_FD, 100_HD, 100_FD, 1000_FD, 10000_FD, 40000_FD, 100000_FD;
<code>phys_interface.id</code>	<code><string></code>	The ID of the monitoring interface	Read-only;
<code>phys_interface.state</code>	<code><object></code>	Information about the state of a monitoring interface	Read-only; Required properties: [status, interface_type, mtu, speed_duplex, stats]; Optional;
<code>phys_interface.state.interface_type</code>	<code><string></code>	The type of interface. It gives a high level information about the type of hardware used (FILE is reserved for internal use)	Read-only; Values: 1G_COPPER, 1G_FIBER, 1G_VIRTUAL, 10G_COPPER, 10G_FIBER, 10G_VIRTUAL, 40G_FIBER, 40G_VIRTUAL, 100G_FIBER, 100G_VIRTUAL, FILE, UNKNOWN;
<code>phys_interface.state.mtu</code>	<code><integer></code>	The Maximum Transmission Unit (MTU) of the interface	Read-only;
<code>phys_interface.state.speed_duplex</code>	<code><phys_interface_capabilities_enum></code>	The types of supported speed/duplex configurations. AUTONEG_* values will try to autonegotiate the corresponding speed in Mbps (AUTNEG will negotiate them all). All other values will force a specific speed in Mbps (FD full duplex, HD half duplex)	Values: UNKNOWN, AUTONEG, AUTONEG_10, AUTONEG_100, AUTONEG_1000, 10_HD, 10_FD, 100_HD, 100_FD, 1000_FD, 10000_FD, 40000_FD, 100000_FD;
<code>phys_interface.state.stats</code>	<code><object></code>	Statistics for a monitoring interface	Read-only; Required properties: [bytes_total, packets_total, packets_dropped];
<code>phys_interface.state.stats.bytes_total</code>	<code><recent_stats></code>	Statistics about last second/minute/hour (and total)	Read-only;
<code>phys_interface.state.stats.packets_dropped</code>	<code><recent_stats></code>	Statistics about last second/minute/hour (and total)	Read-only;
<code>phys_interface.state.stats.packets_total</code>	<code><recent_stats></code>	Statistics about last second/minute/hour (and total)	Read-only;
<code>phys_interface.state.status</code>	<code><string></code>	The state of the interface. UP and DOWN provide link status information. CONNECTED and DISCONNECTED provide tcp connection information. MISSING is used when the interface is no longer detected on the system. DISABLED is used for interfaces that have been manually disabled.	Read-only; Values: UP, DOWN, CONNECTED, DISCONNECTED, MISSING, DISABLED, UNKNOWN;

Links

phys_interface: delete

```
DELETE http://{device}/api/npm.packet_capture/4.0/interfaces/items/{id}
```

Response Body

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

phys_interface: get

```
GET http://{device}/api/npm.packet_capture/4.0/interfaces/items/{id}
```

Response Body

Returns a [phys_interface](#) data object.

phys_interface: reset_stats

Used to reset the statistics of the monitoring interface

```
POST http://{device}/api/npm.packet_capture/4.0/interfaces/items/{id}/reset_stats
```

Request Body

Do not provide a request body.

Response Body

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

phys_interface: set

PUT http://{device}/api/npm.packet_capture/4.0/interfaces/items/{id}

Request Body

Provide a [phys_interface](#) data object.

Response Body

Returns a [phys_interface](#) data object.

Resource: phys_interface_capabilities

Information about supported capabilities of a monitoring interface

http://{device}/api/npm.packet_capture/4.0/interfaces/items/{id}/capabilities

JSON

```
{
  "id": string,
  "speed_duplex": [ phys_interface_capabilities_enum ]
}
```

Property Name	Type	Description	Notes
phys_interface_capabilities	<object>	Information about supported capabilities of a monitoring interface	Required properties: [id, speed_duplex];
phys_interface_capabilities.id	<string>	The id of the monitoring interface	
phys_interface_capabilities.speed_duplex	<array of phys_interface_capabilities_enum>	An array of the speeds supported by the interface	
phys_interface_capabilities.speed_duplex [items]	<phys_interface_capabilities_enum>	The types of supported speed/duplex configurations. AUTONEG_* values will try to autonegotiate the corresponding speed in Mbps (AUTNEG will negotiate them all). All other values will force a specific speed in Mbps (FD full duplex, HD half duplex)	Values: UNKNOWN, AUTONEG, AUTONEG_10, AUTONEG_100, AUTONEG_1000, 10_HD, 10_FD, 100_HD, 100_FD, 1000_FD, 10000_FD, 40000_FD, 100000_FD;

Links

phys_interface_capabilities: get

GET http://{device}/api/npm.packet_capture/4.0/interfaces/items/{id}/capabilities

Response Body

Returns a [phys_interface_capabilities](#) data object.

Resource: phys_interfaces

Monitoring interfaces detected on the system

http://{device}/api/npm.packet_capture/4.0/interfaces

JSON

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

Property Name	Type	Description	Notes
phys_interfaces	<object>	Monitoring interfaces detected on the system	Required properties: [items];

<i>phys_interfaces.items</i>	<i><array of <phys_interface>></i>	List of monitoring interfaces	
<i>phys_interfaces.items[items]</i>	<i><phys_interface></i>	Information about a monitoring interface	

Links

phys_interfaces: get

GET http://{device}/api/npm.packet_capture/4.0/interfaces

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

Resource: read_operation

Information about a packet read

http://{device}/api/npm.packet_capture/4.0/read_operations/items/{id}

JSON

```
{
  "config": {
    "eth_type_filters": [
      integer
    ],
    "indexes_only": boolean,
    "ip_filters": [
      string
    ],
    "ip_protocol_filters": [
      integer
    ],
    "job_id": string,
    "port_filters": [
      string
    ],
    "time_ranges": [
      {
        "end_time": string,
        "start_time": string
      }
    ],
    "vifg_filters": [
      integer
    ]
  },
  "id": string,
  "state": {
    "disk_size": {
      "indexed": integer,
      "non_indexed": integer
    },
    "duration": {
      "indexes": number,
      "total": number
    },
    "progress": number,
    "start_time": string,
    "stats": {
      "end_time": string,
      "read_bytes": integer,
      "read_packets": integer,
      "start_time": string
    },
    "status": string
  }
}
```

Property Name	Type	Description	Notes
<i>read_operation</i>	<i><object></i>	Information about a packet read	Required properties: [id, config, state];

<i>read_operation.config</i>	<i><object></i>	The configuration of the read operation	Required properties: [job_id, time_ranges, ip_filters, port_filters, ip_protocol_filters, eth_type_filters, vifg_filters, indexes_only];
<i>read_operation.config.eth_type_filters</i>	<i><array of integer></i>	A list of Ether type filters used by the read operation	
<i>read_operation.config.eth_type_filters</i> [items]	<i><integer></i>	An Ether type filter (value from 0 to 65535)	
<i>read_operation.config.indexes_only</i>	<i><boolean></i>	True if the read operation will only read indexes, False if it also reads packets	
<i>read_operation.config.ip_filters</i>	<i><array of string></i>	A list of IP filters used by the read operation	
<i>read_operation.config.ip_filters</i> [items]	<i><string></i>	An IP filter. Either a single IP address or two IP addresses representing an IP pair	
<i>read_operation.config.ip_protocol_filters</i>	<i><array of integer></i>	A list of IP protocol filters used by the read operation	
<i>read_operation.config.ip_protocol_filters</i> [items]	<i><integer></i>	An IP protocol filter (value from 0 to 255)	
<i>read_operation.config.job_id</i>	<i><string></i>	The UUID of the job the current operation is reading from	
<i>read_operation.config.port_filters</i>	<i><array of string></i>	A list of port filters used by the read operation	
<i>read_operation.config.port_filters</i> [items]	<i><string></i>	A port filter. Either a single port or two ports representing a connection (without order)	
<i>read_operation.config.time_ranges</i>	<i><array of object></i>	A list of the time ranges the read operation is reading from	
<i>read_operation.config.time_ranges</i> [items]	<i><object></i>	A time range	Required properties: [start_time, end_time];
<i>read_operation.config.time_ranges</i> [items]. end_time	<i><string></i>	The end of the time range. It's a string representing a decimal value of seconds since Unix epoch	
<i>read_operation.config.time_ranges</i> [items]. start_time	<i><string></i>	The start of the time range. It's a string representing a decimal value of seconds since Unix epoch	
<i>read_operation.config.vifg_filters</i>	<i><array of integer></i>	A list of VIFG filters used by the read operation	
<i>read_operation.config.vifg_filters</i> [items]	<i><integer></i>	A number representing a VIFG ID	
<i>read_operation.id</i>	<i><string></i>	Unique ID of the read operation	
<i>read_operation.state</i>	<i><object></i>	The state of the read operation	Required properties: [status, progress, start_time, duration, disk_size, stats];
<i>read_operation.state.disk_size</i>	<i><object></i>	Information on the size of the read operation on disk	Required properties: [indexed, non_indexed];
<i>read_operation.state.disk_size.indexed</i>	<i><integer></i>	The number of Megabytes that need to be read from disk for the current operation (computed using indexes)	
<i>read_operation.state.disk_size.non_indexed</i>	<i><integer></i>	The number of Megabytes that would have to be read from disk if no indexing was used	
<i>read_operation.state.duration</i>	<i><object></i>	Information on the duration of the read operation	
<i>read_operation.state.duration.indexes</i>	<i><number></i>	Time spent reading indexes in seconds	Optional;
<i>read_operation.state.duration.total</i>	<i><number></i>	Total duration of the read operation in seconds	Optional;
<i>read_operation.state.progress</i>	<i><number></i>	Progress of the read operation when reading packets (0 when reading indexes)	
<i>read_operation.state.start_time</i>	<i><string></i>	The time when the read operation was started. It's a string representing a decimal value of seconds since Unix epoch	
<i>read_operation.state.stats</i>	<i><object></i>	Packet read statistics	Required properties: [start_time, end_time, read_bytes, read_packets];
<i>read_operation.state.stats.end_time</i>	<i><string></i>	The timestamp of the last packet of read packets. The string represents a decimal value of seconds since epoch	
<i>read_operation.state.stats.read_bytes</i>	<i><integer></i>	The number of actual bytes read by the read operation as instructed by the filter	
<i>read_operation.state.stats.read_packets</i>	<i><integer></i>	The number of actual packets read by the read operation as instructed by the filter	
<i>read_operation.state.stats.start_time</i>	<i><string></i>	The timestamp of the first packet of read packets. The string represents a decimal value of seconds since epoch	
<i>read_operation.state.status</i>	<i><string></i>	The state of a read operation	Values: UNKNOWN, STARTING, READING_INDEXES, READING_PACKETS, COMPLETED, STOPPED;

Links

read_operation: delete

Used to delete packet reads that have already completed

```
DELETE http://{device}/api/npm.packet_capture/4.0/read_operations/items/{id}
```

Response Body

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

read_operation: get

```
GET http://{device}/api/npm.packet_capture/4.0/read_operations/items/{id}
```

Response Body

Returns a [read_operation](#) data object.

Resource: read_operations

List of ongoing packet reads

```
http://{device}/api/npm.packet_capture/4.0/read_operations{?running}
```

JSON

```
{
  "items": [ read\_operation ]
}
```

Property Name	Type	Description	Notes
<i>read_operations</i>	<i><object></i>	List of ongoing packet reads	Required properties: [items];
<i>read_operations.items</i>	<i><array of <read_operation>></i>	Array of read operations	
<i>read_operations.items[items]</i>	<i><read_operation></i>	Information about a packet read	

Links

read_operations: clear

Remove packet reads that have already completed

```
POST http://{device}/api/npm.packet_capture/4.0/read_operations/clear
```

Request Body

Do not provide a request body.

Response Body

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

read_operations: get

```
GET http://{device}/api/npm.packet_capture/4.0/read_operations{?running}
```

Response Body

Returns a [read_operations](#) data object.

Resource: settings

Global settings for packet capture

JSON

```
{
  "deduplication": {
    "entries": integer,
    "esp_alg_enabled": boolean,
    "esp_timeout": string,
    "tcp_alg_enabled": boolean,
    "tcp_syn_ack_enabled": boolean,
    "tcp_syn_ack_timeout": string,
    "tcp_timeout": string,
    "timeout": string,
    "udp_alg_enabled": boolean,
    "udp_timeout": string
  },
  "packet_breaker": {
    "type": packet_breaker_types_type_enum
  }
}
```

Property Name	Type	Description	Notes
settings	<object>	Global settings for packet capture	Required properties: [packet_breaker, deduplication];
settings.deduplication	<object>	Packet deduplication advanced settings	Required properties: [entries, timeout, udp_timeout, tcp_timeout, udp_alg_enabled, tcp_alg_enabled, tcp_syn_ack_timeout, tcp_syn_ack_enabled, esp_timeout, esp_alg_enabled];
settings.deduplication.entries	<integer>	Size of internal queues used by packet deduplication engine	
settings.deduplication.esp_alg_enabled	<boolean>	Enable/Disable deduplication on ESP packets with IP identification equal to 0	
settings.deduplication.esp_timeout	<string>	Time window used for ESP packets (with IP identification equal to 0) instead of the global 'timeout'. The string represents a decimal value of seconds	
settings.deduplication.tcp_alg_enabled	<boolean>	Enable/Disable deduplication on TCP packets with IP identification equal to 0	
settings.deduplication.tcp_syn_ack_enabled	<boolean>	Enable/Disable deduplication on TCP SYN/ACK packets with IP identification equal to 0	
settings.deduplication.tcp_syn_ack_timeout	<string>	Time window used for TCP SYN/ACK packets (with IP identification equal to 0) instead of the global 'timeout'. The string represents a decimal value of seconds	
settings.deduplication.tcp_timeout	<string>	Time window used for TCP packets (with IP identification equal to 0) instead of the global 'timeout'. The string represents a decimal value of seconds	
settings.deduplication.timeout	<string>	Time window within which packet deduplication is guaranteed. If two duplicate packets are received further apart than this timeout, they will not be considered duplicates. The string represents a decimal value of seconds	
settings.deduplication.udp_alg_enabled	<boolean>	Enable/Disable deduplication on UDP packets	
settings.deduplication.udp_timeout	<string>	Time window used for UDP packets instead of the global 'timeout'. The string represents a decimal value of seconds	
settings.packet_breaker	<object>	Packet Broker settings	Required properties: [type];
settings.packet_breaker.type	<packet_breaker_types_type_enum>	Enumerative for supported packet brokers	Values: NONE, UNKNOWN, CPACKET_TS_ONLY, CPACKET_TS_AND_SLICE, GIGAMON_HEADER, GIGAMON_TRAILER, GIGAMON_TRAILER_X12, ANUE, ARISTA, ARISTA_BEFORE_FCS;

Links

settings: get

GET http://{device}/api/npm.packet_capture/4.0/settings

Response Body

Returns a [settings](#) data object.

settings: set

PUT http://{device}/api/npm.packet_capture/4.0/settings

Request Body

Provide a [settings](#) data object.

Response Body

Returns a [settings](#) data object.

Resource: vifg

Information about a Virtual Interface Group (VIFG)

http://{device}/api/npm.packet_capture/4.0/vifgs/items/{id}

JSON

```
{
  "config": {
    "bandwidth_capacity": integer,
    "dedup": boolean,
    "description": string,
    "enabled": boolean,
    "filter": input_filter,
    "flow_export": flow_export_filter,
    "is_other_vifg": boolean,
    "members": [
      string
    ],
    "name": string
  },
  "id": integer,
  "state": {
    "bandwidth_capacity": integer,
    "mtu": integer,
    "stats": {
      "bytes_received": recent_stats,
      "packets_duped": recent_stats,
      "packets_received": recent_stats
    }
  }
}
```

Property Name	Type	Description	Notes
vifg	<object>	Information about a Virtual Interface Group (VIFG)	Required properties: [config];
vifg.config	<object>	Configuration of a Virtual Interface Group (VIFG)	Required properties: [name, description, enabled, members, is_other_vifg, bandwidth_capacity, filter, dedup, flow_export];
vifg.config.bandwidth_capacity	<integer>	Custom value for the capacity of the VIFG (in Mbps). If set to zero, it will use default values (see the field bandwidth_capacity in the 'state' object)	
vifg.config.dedup	<boolean>	Whether or not packet deduplication is enabled on this VIFG	
vifg.config.description	<string>	Description of the VIFG	
vifg.config.enabled	<boolean>	Whether or not the VIFG is enabled (disabled VIFGs will drop all the their traffic)	
vifg.config.filter	<input_filter>	Packet filter configuration	
vifg.config.flow_export	<flow_export_filter>	Filter settings used for Flow Export	
vifg.config.is_other_vifg	<boolean>	Whether or not this VIFG is the 'other vifg'	
vifg.config.members	<array of <string>>	List of members associated with this VIFG	

<code>vifg.config.members[items]</code>	<code><string></code>	A monitoring interface (in PHYSICAL_INTERFACE mode) or a VLAN ID (in VLAN mode) that belongs to the VIFG. The VLAN ID can be one of: an integer (0-4095), a colon-separated list of integers to represent QinQ (1:4:5), or 'UNTAGGED'	
<code>vifg.config.name</code>	<code><string></code>	Unique name of the VIFG	
<code>vifg.id</code>	<code><integer></code>	The unique ID of the Virtual Interface Group (VIFG)	Read-only; Optional;
<code>vifg.state</code>	<code><object></code>	Information about the state of a Virtual Interface Group (VIFG)	Read-only; Required properties: [mtu, bandwidth_capacity, stats]; Optional;
<code>vifg.state.bandwidth_capacity</code>	<code><integer></code>	The (read-only) capacity of the VIFG in Mbps. In PHYSICAL_INTERFACE mode, it's the sum of the speeds of the interfaces that the VIFG collects. In VLAN mode, the sum of the speeds of all interfaces. It can also be configured to a custom value (see the field bandwidth_capacity in the 'config' object)	Read-only;
<code>vifg.state.mtu</code>	<code><integer></code>	In PHYSICAL_INTERFACE mode, the max Maximum Transmission Unit (MTU) of the interfaces that the VIFG collects. In VLAN mode, the max MTU of all interfaces	Read-only;
<code>vifg.state.stats</code>	<code><object></code>	Statistics of a Virtual Interface Group (VIFG)	Read-only; Required properties: [bytes_received, packets_received, packets_duped];
<code>vifg.state.stats.bytes_received</code>	<code><recent_stats></code>	Statistics about last second/minute/hour (and total)	Read-only;
<code>vifg.state.stats.packets_duped</code>	<code><recent_stats></code>	Statistics about last second/minute/hour (and total)	Read-only;
<code>vifg.state.stats.packets_received</code>	<code><recent_stats></code>	Statistics about last second/minute/hour (and total)	Read-only;

Links

vifg: delete

```
DELETE http://{device}/api/npm.packet_capture/4.0/vifgs/items/{id}
```

Response Body

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

vifg: get

```
GET http://{device}/api/npm.packet_capture/4.0/vifgs/items/{id}
```

Response Body

Returns a [vifg](#) data object.

vifg: reset_stats

Used to reset the statistics of the Virtual Interface Group (VIFG)

```
POST http://{device}/api/npm.packet_capture/4.0/vifgs/items/{id}/reset_stats
```

Request Body

Do not provide a request body.

Response Body

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

vifg: set

```
PUT http://{device}/api/npm.packet_capture/4.0/vifgs/items/{id}
```

Request Body

Provide a [vifg](#) data object.

Response Body

Returns a [vifg](#) data object.

Resource: vifg_defaults

Default values to use when creating a new capture vifg

http://{device}/api/npm.packet_capture/4.0/info/vifg_defaults

JSON

```
{
  "bandwidth_capacity": integer,
  "dedup": boolean,
  "description": string,
  "enabled": boolean,
  "filter": input_filter,
  "flow_export": flow_export_filter,
  "is_other_vifg": boolean,
  "members": [
    string
  ],
  "name": string
}
```

Property Name	Type	Description	Notes
vifg_defaults	<object>	Default values to use when creating a new capture vifg	Read-only; Required properties: [name, description, enabled, members, is_other_vifg, bandwidth_capacity, filter, dedup, flow_export];
vifg_defaults.bandwidth_capacity	<integer>	Default bandwidth_capacity	Read-only;
vifg_defaults.dedup	<boolean>	Default value for dedup	Read-only;
vifg_defaults.description	<string>	Default description of the VIFG	Read-only;
vifg_defaults.enabled	<boolean>	Default value for VIFG "enabled"	Read-only;
vifg_defaults.filter	<input_filter>	Packet filter configuration	
vifg_defaults.flow_export	<flow_export_filter>	Filter settings used for Flow Export	
vifg_defaults.is_other_vifg	<boolean>	Default value for is_other_vifg	Read-only;
vifg_defaults.members	<array of <string>>	Default member list	Read-only;
vifg_defaults.members[items]	<string>		Read-only;
vifg_defaults.name	<string>	Default name of the VIFG	Read-only;

Links

vifg_defaults: get

GET http://{device}/api/npm.packet_capture/4.0/info/vifg_defaults

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

Resource: vifg_global_state

Global state for Virtual Interface Groups (VIFGs)

http://{device}/api/npm.packet_capture/4.0/vifgs/state

JSON

```
{
  "autodiscovery": {
    "maximum_reached": boolean
  }
}
```

Property Name	Type	Description	Notes
vifg_global_state	<object>	Global state for Virtual Interface Groups (VIFGs)	Read-only; Required properties: [autodiscovery];

<i>vifg_global_state</i> .autodiscovery	<object>	Information about the status of VIFG autodiscovery	Read-only; Required properties: [maximum_reached];
<i>vifg_global_state</i> .autodiscovery.maximum_reached	<boolean>	True if the maximum number of VIFGs has already been automatically discovered and no more VIFGs will be created. False, otherwise. The maximum is currently set to 2000 (including the 'other vifg')	Read-only;

Links

vifg_global_state: get

GET http://{device}/api/npm.packet_capture/4.0/vifgs/state

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

Resource: vifg_settings

Global settings for Virtual Interface Groups (VIFGs)

http://{device}/api/npm.packet_capture/4.0/vifgs/settings

JSON

```
{
  "autodiscovery": {
    "default": {
      "dedup": boolean,
      "filter": input_filter,
      "flow_export": flow_export_filter
    },
    "enabled": boolean
  },
  "enable_aggregation": boolean,
  "grouping_type": string,
  "supported_grouping_types": [
    string
  ]
}
```

Property Name	Type	Description	Notes
<i>vifg_settings</i>	<object>	Global settings for Virtual Interface Groups (VIFGs)	Required properties: [grouping_type, supported_grouping_types, enable_aggregation, autodiscovery];
<i>vifg_settings</i> .autodiscovery	<object>	Global settings for the VIFG autodiscovery feature	Required properties: [enabled, default];
<i>vifg_settings</i> .autodiscovery.default	<object>	Default values for VIFGs created by autodiscovery	Required properties: [filter, dedup, flow_export];
<i>vifg_settings</i> .autodiscovery.default.dedup	<boolean>	Enable or disable packet deduplication on VIFGs created by autodiscovery	
<i>vifg_settings</i> .autodiscovery.default.filter	<input_filter>	Packet filter configuration	
<i>vifg_settings</i> .autodiscovery.default.flow_export	<flow_export_filter>	Filter settings used for Flow Export	
<i>vifg_settings</i> .autodiscovery.enabled	<boolean>	Enable or disable VIFG autodiscovery	
<i>vifg_settings</i> .enable_aggregation	<boolean>	Enable or disable VIFG aggregation in downstream processing	
<i>vifg_settings</i> .grouping_type	<string>	The type of grouping used for incoming packets	
<i>vifg_settings</i> .supported_grouping_types	<array of <string>>	Valid values for the field 'grouping_types'	Read-only;
<i>vifg_settings</i> .supported_grouping_types [items]	<string>	Supported grouping types	Read-only; Values: UNKNOWN, PHYSICAL_INTERFACE, VLAN;

Links

vifg_settings: get

```
GET http://{device}/api/npm.packet_capture/4.0/vifgs/settings
```

Response Body

Returns a [vifg_settings](#) data object.

vifg_settings: set

```
PUT http://{device}/api/npm.packet_capture/4.0/vifgs/settings
```

Request Body

Provide a [vifg_settings](#) data object.

Response Body

Returns a [vifg_settings](#) data object.

Resource: vifgs

Virtual Interface Groups (VIFGs) configured on the system

```
http://{device}/api/npm.packet_capture/4.0/vifgs{?sort,is_other_vifg,limit,sortby,offset}
```

JSON

```
{
  "count": integer,
  "items": [ vifg ]
}
```

Property Name	Type	Description	Notes
<i>vifgs</i>	<i><object></i>	Virtual Interface Groups (VIFGs) configured on the system	Required properties: [items, count];
<i>vifgs.count</i>	<i><integer></i>	The total number of Virtual Interface Groups (VIFGs)	
<i>vifgs.items</i>	<i><array of <vifg>></i>	List of Virtual Interface Groups (VIFGs)	
<i>vifgs.items[items]</i>	<i><vifg></i>	Information about a Virtual Interface Group (VIFG)	

Links

vifgs: create

```
POST http://{device}/api/npm.packet_capture/4.0/vifgs{?sort,is_other_vifg,limit,sortby,offset}
```

Request Body

Provide a [vifg](#) data object.

Response Body

Returns a [vifg](#) data object.

vifgs: get

```
GET http://{device}/api/npm.packet_capture/4.0/vifgs{?sort,is_other_vifg,limit,sortby,offset}
```

Response Body

Returns a [vifgs](#) data object.

Type: flow_export_filter

Filter settings used for Flow Export

JSON

```
{
  "enabled": boolean,
  "filter": input_filter
}
```

Property Name	Type	Description	Notes
<i>flow_export_filter</i>	<i><object></i>	Filter settings used for Flow Export	Required properties: [enabled, filter];
<i>flow_export_filter.enabled</i>	<i><boolean></i>	Enable or disable Flow Export filtering	
<i>flow_export_filter.filter</i>	<i><input_filter></i>	Packet filter configuration	

Type: input_filter

Packet filter configuration

JSON

```
{
  "type": string,
  "value": string
}
```

Property Name	Type	Description	Notes
<i>input_filter</i>	<i><object></i>	Packet filter configuration	Required properties: [type, value];
<i>input_filter.type</i>	<i><string></i>	The type of filter to be processed	Values: UNKNOWN, STEELFILTER, BPF;
<i>input_filter.value</i>	<i><string></i>	String representation of the filter	

Type: job_indexing

Parameters for Microflow indexing

JSON

```
{
  "enabled": boolean,
  "retention_rules": packet_retention
}
```

Property Name	Type	Description	Notes
<i>job_indexing</i>	<i><object></i>	Parameters for Microflow indexing	Required properties: [enabled, retention_rules];
<i>job_indexing.enabled</i>	<i><boolean></i>	Enable or disable Microflow indexing on the capture job	
<i>job_indexing.retention_rules</i>	<i><packet_retention></i>	Packet storage retention rules	

Type: packet_broker_types_type_enum

Enumerative for supported packet brokers

JSON

```
string
```

Property Name	Type	Description	Notes
<i>packet_broker_types_type_enum</i>	<i><string></i>	Enumerative for supported packet brokers	Values: NONE, UNKNOWN, CPACKET_TS_ONLY, CPACKET_TS_AND_SLICE, GIGAMON_HEADER, GIGAMON_TRAILER, GIGAMON_TRAILER_X12, ANUE, ARISTA, ARISTA_BEFORE_FCS;

Type: packet_retention

Packet storage retention rules

JSON

```
{
  "max_disk_space": integer,
  "max_retention_time": string,
  "min_disk_space": integer,
  "min_retention_time": string
}
```

Property Name	Type	Description	Notes
<i>packet_retention</i>	<i><object></i>	Packet storage retention rules	Required properties: [min_retention_time, max_retention_time, min_disk_space, max_disk_space];
<i>packet_retention.max_disk_space</i>	<i><integer></i>	Maximum disk space for captured packets (i.e. the capture job cannot store more than N bytes worth of packets). Value in bytes. If equal to zero or not set, the parameter will be ignored	
<i>packet_retention.max_retention_time</i>	<i><string></i>	Maximum retention time for captured packets (i.e. the capture job cannot store more than N seconds worth of packets). The string represents a decimal value of seconds since epoch. If equal to zero or not set, the parameter will be ignored	
<i>packet_retention.min_disk_space</i>	<i><integer></i>	Minimum disk space for captured packets (i.e. best effort to have at least N bytes worth of packets in the capture job). Value in bytes. If equal to zero or not set, the parameter will be ignored	
<i>packet_retention.min_retention_time</i>	<i><string></i>	Minimum retention time for captured packets (i.e. best effort to have at least N seconds worth of packets in the capture job). The string represents a decimal value of seconds since epoch. If equal to zero or not set, the parameter will be ignored	

Type: phys_interface_capabilities_enum

The types of supported speed/duplex configurations. AUTONEG_* values will try to autonegotiate the corresponding speed in Mbps (AUTNEG will negotiate them all). All other values will force a specific speed in Mbps (FD full duplex, HD half duplex)

JSON

```
string
```

Property Name	Type	Description	Notes
<i>phys_interface_capabilities_enum</i>	<i><string></i>	The types of supported speed/duplex configurations. AUTONEG_* values will try to autonegotiate the corresponding speed in Mbps (AUTNEG will negotiate them all). All other values will force a specific speed in Mbps (FD full duplex, HD half duplex)	Values: UNKNOWN, AUTONEG, AUTONEG_10, AUTONEG_100, AUTONEG_1000, 10_HD, 10_FD, 100_HD, 100_FD, 1000_FD, 10000_FD, 40000_FD, 100000_FD;

Type: recent_stats

Statistics about last second/minute/hour (and total)

JSON

```
{
  "last_hour": integer,
  "last_minute": integer,
  "last_second": integer,
  "total": integer
}
```

Property Name	Type	Description	Notes
<i>recent_stats</i>	<i><object></i>	Statistics about last second/minute/hour (and total)	Read-only; Required properties: [total, last_second, last_minute, last_hour];
<i>recent_stats.last_hour</i>	<i><integer></i>	The value of the statistics in the last hour	Read-only;
<i>recent_stats.last_minute</i>	<i><integer></i>	The value of the statistics in the last minute	Read-only;
<i>recent_stats.last_second</i>	<i><integer></i>	The value of the statistic in the last second	Read-only;
<i>recent_stats.total</i>	<i><integer></i>	Total number of the statistic	Read-only;