NPM Packet Capture [DEPRECATED] v2.0

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Resource: job

Information about a capture job

http://{device}/api/npm.packet_capture/2.0/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": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   },
   "packets_written": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   }
  },
  "status": {
   "capture_disk_space": integer,
   "capture_size": integer,
   "packet_end_time": string,
   "packet_start_time": string,
   "state": string
  }
 }
}
```

Property Name	Type	Description	Notes
job	*<object>*	Information about a capture job	Required properties: [config];
job.config	*<object>*	Configuration of a capture job	Required properties: [name, enabled, vifgs];
job.config.capture_from_all_vifgs	*<boolean>*	If enabled, this capture job will ignore the field 'vifgs' and will capture from all existing VIFGs	Optional;
job.config.enabled	*<boolean>*	Whether the capture job is configured to run or not	
job.config.filter	*<input_filter>*	Packet filter configuration	
job.config.indexing	*<job_indexing>*	Parameters for Microflow indexing	
job.config.name	*<string>*	Name of the job	
job.config.retention_rules	*<packet_retention>*	Packet storage retention rules	
job.config.snap_len	*<integer>*	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	Optional; Default is 65535;
job.config.vifgs	*<array of <integer>>*	List of VIFGs the capture job is collecting packets from	
job.config.vifgs[items]	*<integer>*	ID of the VIFG that this capture job captures from	
job.id	*<string>*	The UUID of the capture job	Read-only; Optional;
job.state	*<object>*	Information about the state of a capture job	Read-only; Required properties: [stats, status]; Optional;
job.state.stats	*<object>*	Capture job statistics	Read-only; Required properties: [packets_written, bytes_written];
bytes_written	*<object>*	Number of bytes written to disk (packets only, without overhead)	Read-only; Required properties: [total];
bytes_written.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
bytes_written.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;

bytes_written.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
bytes_written.total	*<integer>*	Total number of the statistic	Read-only;
packets_written	*<object>*	Number of packets written to disk	Read-only; Required properties: [total];
packets_written.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
packets_written.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
packets_written.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
packets_written.total	*<integer>*	Total number of the statistic	Read-only;
job.state.status	*<object>*	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];
job.state.status.capture_disk_space	*<integer>*	The actual size of the capture job on disk (including overhead)	Read-only;
job.state.status.capture_size	*<integer>*	The size of all the packets of the capture job (packets only, without overhead)	Read-only;
job.state.status.packet_end_time	*<string>*	The timestamp of the last packet of the capture job. The string represents a decimal value of seconds since epoch	Read-only;
job.state.status.packet_start_time	*<string>*	The timestamp of the first packet of the capture job. The string represents a decimal value of seconds since epoch	Read-only;
job.state.status.state	*<string>*	State of a capture job	Read-only; Values: UNKNOWN, STOPPED, RUNNING;

Links

job: clear_packets

Used to clear capture job data

```
POST http://{device}/api/npm.packet_capture/2.0/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/2.0/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/2.0/jobs/items/{id}
```

Response Body

Returns a job data object.

job: set

```
PUT http://{device}/api/npm.packet_capture/2.0/jobs/items/{id}
```

Request Body

Provide a job data object.

Response Body

Returns a job data object.

Resource: job_defaults

Default values to use when creating a new capture job

http://{device}/api/npm.packet_capture/2.0/info/job_defaults

JSON

```
{
  "capture_from_all_vifgs": boolean,
  "enabled": boolean,
  "indexing": job_indexing,
  "name": string,
  "retention_rules": packet_retention,
  "snap_len": integer
}
```

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

Links

job_defaults: get

GET http://{device}/api/npm.packet_capture/2.0/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/2.0/jobs

JSON

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

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

Links

jobs: create

POST http://{device}/api/npm.packet_capture/2.0/jobs

Request Body

Provide a job data object.

Response Body

Returns a job data object.

jobs: get

```
GET http://{device}/api/npm.packet_capture/2.0/jobs
```

Response Body

Returns a jobs data object.

Resource: packet_broker_types

Information about supported packet brokers

```
http://{device}/api/npm.packet_capture/2.0/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/2.0/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/2.0/interfaces/items/{name}
```

JSON

```
{
 "config": {
  "description": string,
  "enabled": boolean,
  "speed_duplex": phys_interface_capabilities_enum
 },
 "name": string,
 "state": {
  "interface_type": string,
  "mtu": integer,
  "speed_duplex": phys_interface_capabilities_enum,
  "stats": {
   "bytes_total": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   },
   "packets_dropped": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   },
   "packets_total": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   }
  },
  "status": string
 }
}
```

Property Name	Type	Description	Notes
phys_interface	*<object>*	Information about a monitoring interface	Required properties: [config];
phys_interface.config	*<object>*	Configuration of a monitoring interface	Required properties: [enabled, description, speed_duplex];
phys_interface.config.description	*<string>*	A description of the monitoring interface	
phys_interface.config.enabled	*<boolean>*	Used to enable/disable a monitoring interface	
phys_interface.config.speed_duplex	*<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;
phys_interface.name	*<string>*	The name of the monitoring interface	Read-only; Optional;
phys_interface.state	*<object>*	Information about the state of a monitoring interface	Read-only; Required properties: [status, interface_type, mtu, speed_duplex, stats]; Optional;
phys_interface.state.interface_type	*<string>*	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, FILE, UNKNOWN;
phys_interface.state.mtu	*<integer>*	The Maximum Transmission Unit (MTU) of the interface	Read-only;
phys_interface.state.speed_duplex	*<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;
phys_interface.state.stats	*<object>*	Statistics for a monitoring interface	Read-only; Required properties: [bytes_total, packets_total, packets_dropped];
bytes_total	*<object>*	Total number of bytes received by the interface (including drops)	Read-only; Required properties: [total];
bytes_total.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
bytes_total.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
bytes_total.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
bytes_total.total	*<integer>*	Total number of the statistic	Read-only;

packets_dropped	*<object>*	Number of packets dropped by the interface	Read-only; Required properties: [total];
packets_dropped.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
packets_dropped.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
packets_dropped.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
packets_dropped.total	*<integer>*	Total number of the statistic	Read-only;
packets_total	*<object>*	Total number of packets received by the interface (including drops)	Read-only; Required properties: [total];
packets_total.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
packets_total.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
packets_total.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
packets_total.total	*<integer>*	Total number of the statistic	Read-only;
phys_interface.state.status	*<string>*	The state of the interface. UP and DOWN provide link status information. MISSING is used when the interace is no longer detected on the system. DISABLED is used for interfaces that have been manually disabled.	Read-only; Values: UP, DOWN, MISSING, DISABLED, UNKNOWN;

Links

phys_interface: delete

```
DELETE http://{device}/api/npm.packet_capture/2.0/interfaces/items/{name}
```

Response Body

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

phys_interface: get

```
GET http://{device}/api/npm.packet_capture/2.0/interfaces/items/{name}
```

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/2.0/interfaces/items/{name}/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/2.0/interfaces/items/{name}
```

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/2.0/interfaces/items/{name}/capabilities

JSON

```
{
  "name": 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: [name, speed_duplex];
*phys_interface_capabilities.*name	*<string>*	The name 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/2.0/interfaces/items/{name}/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/2.0/interfaces

JSON

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

Property Name	Type	Description	Notes
phys_interfaces	*<object>*	Monitoring interfaces detected on the system	Required properties: [items];
*phys_interfaces.*items	*<array of <phys_interface>>*	List of monitoring interfaces	
*phys_interfaces.*items[items]	*<phys_interface>*	Information about a monitoring interface	

Links

phys_interfaces: get

GET http://{device}/api/npm.packet_capture/2.0/interfaces

Response Body

Returns a phys_interfaces data object.

Resource: settings

Global settings for packet capture

http://{device}/api/npm.packet_capture/2.0/settings

JSON

```
{
  "deduplication": {
    "entries": integer,
    "esp_alg_enabled": boolean,
    "esp_timeout": string,
    "tcp_syn_ack_enabled": boolean,
    "tcp_syn_ack_timeout": string,
    "timeout": string,
    "udp_alg_enabled": boolean,
    "udp_timeout": string
  },
  "packet_broker": {
    "type": packet_broker_types_type_enum
  },
  "packet_export_acceleration": {
    "read_enabled": boolean,
    "write_enabled": boolean
  }
}
```

Property Name	Type	Description	Notes
settings	*<object>*	Global settings for packet capture	Required properties: [packet_broker, deduplication, packet_export_acceleration];
*settings.*deduplication	*<object>*	Packet deduplication advanced settings	Required properties: [entries, timeout, udp_timeout, udp_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_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.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_broker	*<object>*	Packet Broker settings	Required properties: [type];
*settings.*packet_broker.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;
*settings.*packet_export_acceleration	*<object>*	Settings related to the Packet Export Acceleration feature	Required properties: [read_enabled, write_enabled];

settings.packet_export_acceleration.read_enabled	*<boolean>*	Enable acceleration engine during read operations (if indexs are present)	
settings.packet_export_acceleration.write_enabled	*<boolean>*	Enable generation of indexes while writing packets to disk	

Links

settings: get

```
GET http://{device}/api/npm.packet_capture/2.0/settings
```

Response Body

Returns a settings data object.

settings: set

```
PUT http://{device}/api/npm.packet_capture/2.0/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/2.0/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": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   },
   "packets_duped": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   },
   "packets_received": {
    "last_hour": integer,
    "last_minute": integer,
    "last_second": integer,
    "total": integer
   }
  }
 }
}
```


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, members, enabled];
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)	Optional;
vifg.config.dedup	*<boolean>*	Whether or not packet deduplication is enabled on this VIFG	Optional;
vifg.config.description	*<string>*	Description of the VIFG	Optional;
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'	Optional;
vifg.config.members	*<array of <string>>*	List of members associated with this VIFG	
vifg.config.members[items]	*<string>*	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-seperated list of integers to represent QinQ (1:4:5), or 'UNTAGGED'	
vifg.config.name	*<string>*	Unique name of the VIFG	
vifg.id	*<integer>*	The unique ID of the Virtual Interface Group (VIFG)	Read-only; Optional;
vifg.state	*<object>*	Information about the state of a Virtual Interface Group (VIFG)	Read-only; Required properties: [stats, bandwidth_capacity, mtu]; Optional;
vifg.state.bandwidth_capacity	*<integer>*	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;
vifg.state.mtu	*<integer>*	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;

vifg.state.stats	*<object>*	Statistics of a Virtual Interface Group (VIFG)	Read-only; Required properties: [bytes_received, packets_received, packets_duped];
bytes_received	*<object>*	Number of bytes correctly received by VIFG (including duplicates)	Read-only; Required properties: [total];
bytes_received.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
bytes_received.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
bytes_received.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
bytes_received.total	*<integer>*	Total number of the statistic	Read-only;
packets_duped	*<object>*	Number of duplicate packets	Read-only; Required properties: [total];
packets_duped.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
packets_duped.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
packets_duped.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
packets_duped.total	*<integer>*	Total number of the statistic	Read-only;
packets_received	*<object>*	Number of packets correctly received by VIFG (including duplicates)	Read-only; Required properties: [total];
packets_received.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
packets_received.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
packets_received.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
packets_received.total	*<integer>*	Total number of the statistic	Read-only;

Links

vifg: delete

```
DELETE http://{device}/api/npm.packet_capture/2.0/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/2.0/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/2.0/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/2.0/vifgs/items/{id}
```

Request Body

Provide a vifg data object.

Response Body

Returns a vifg data object.

Resource: vifg_global_state

Global state for Virtual Interface Groups (VIFGs)

```
http://{device}/api/npm.packet_capture/2.0/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];
vifg_global_state.autodiscovery	*<object>*	Information about the status of VIFG autodiscovery	Read-only;
vifg_global_state.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; Optional;

Links

vifg_global_state: get

```
GET http://{device}/api/npm.packet_capture/2.0/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/2.0/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
vifg_settings	*<object>*	Global settings for Virtual Interface Groups (VIFGs)	Required properties: [grouping_type, supported_grouping_types, enable_aggregation, autodiscovery];
vifg_settings.autodiscovery	*<object>*	Global settings for the VIFG autodiscovery feature	Required properties: [enabled, default];
vifg_settings.autodiscovery.default	*<object>*	Default values for VIFGs created by autodiscovery	Required properties: [filter, dedup, flow_export];
vifg_settings.autodiscovery.default.dedup	*<boolean>*	Enable or disable packet deduplication on VIFGs created by autodiscovery	
vifg_settings.autodiscovery.default.filter	*<input_filter>*	Packet filter configuration	
vifg_settings.autodiscovery.default.flow_export	*<flow_export_filter>*	Filter settings used for Flow Export	

*vifg_settings.*autodiscovery.enabled	*<boolean>*	Enable or disable VIFG autodiscovery	
*vifg_settings.*enable_aggregation	*<boolean>*	Enable or disable VIFG aggregation in downstream processing	
*vifg_settings.*grouping_type	*<string>*	The type of grouping used for incoming packets	
*vifg_settings.*supported_grouping_types	*<array of <string>>*	Valid values for the field 'grouping_types'	Read-only;
*vifg_settings.*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/2.0/vifgs/settings

Response Body

Returns a vifg_settings data object.

vifg_settings: set

PUT http://{device}/api/npm.packet_capture/2.0/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/2.0/vifgs{?sort,is_other_vifg,limit,sortby,offset}

JSON

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

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

Links

vifgs: create

POST http://{device}/api/npm.packet_capture/2.0/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/2.0/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
flow_export_filter	*<object>*	Filter settings used for Flow Export	Required properties: [enabled, filter];
*flow_export_filter.*enabled	*<boolean>*	Enable or disable Flow Export filtering	
*flow_export_filter.*filter	*<input_filter>*	Packet filter configuration	

Type: input_filter

Packet filter configuration

JSON

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

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

Type: job_indexing

Parameters for Microflow indexing

JSON

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

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

Type: packet_broker_types_type_enum

Enumerative for supported packet brokers

JSON

string

Property Name	Type	Description	Notes
packet_broker_types_type_enum	*<string>*	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
packet_retention	*<object>*	Packet storage retention rules	
*packet_retention.*max_disk_space	*<integer>*	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 paramter will be ignored	Optional;
*packet_retention.*max_retention_time	*<string>*	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 velue of seconds since epoch. If equal to zero or not set, the parameter will be ignored	Optional;
*packet_retention.*min_disk_space	*<integer>*	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	Optional;
*packet_retention.*min_retention_time	*<string>*	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	Optional;

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
phys_interface_capabilities_enum	*<string>*	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
recent_stats	*<object>*	Statistics about last second/minute/hour (and total)	Read-only; Required properties: [total];
recent_stats.last_hour	*<integer>*	The value of the statistics in the last hour	Read-only; Optional;
recent_stats.last_minute	*<integer>*	The value of the statistics in the last minute	Read-only; Optional;
recent_stats.last_second	*<integer>*	The value of the statistic in the last second	Read-only; Optional;
recent_stats.total	*<integer>*	Total number of the statistic	Read-only;