Developer Documentation for the F-Series Firewall REST API

https://campus.barracuda.com/doc/49058894/

The following list shows the REST API for the Barracuda NextGen Firewall. Authentication has to be done using HTTP basic authentication with the username and password of one of the administrators with the appropriate permissions set. Allowed roles for server access are *external* and *internal*.

Servers

- **/rest/control/v1/servers [GET]**
  Returns all configured virtual servers.
  Response
  200
  Comment JSON
  `{ "servers": [ // List of server names "S1", "S2" ] }`
  Response
  200
  Comment JSON
  `{ "servers": [// List of servers { "ips": [// IPs assigned to this service { "ip": "127.0.0.9", // IP address "available": true // IP is available and reachable }], "state": , // State of the server "name": "S1", // Name of the server "type": "primary", // Type of the "current" server (in a HA setup) "otherType": "" // Type of the "other" server (in a HA setup) }] }`

- **/rest/control/v1/servers/{server} [GET]**
  Returns the state and configuration of the specified server:
  - Server IP address
  - State (Inactive, OK, Warning, Error)
  Response
  200
  Comment JSON
  `{ "ips": [// IPs assigned to this service { "ip": "127.0.0.9", // IP address "available": true // IP is available and reachable }], "state": , // State of the server "name": "S1", // Name of the server "type": "primary", // Type of the "current" server (in a HA setup) "otherType": "" // Type of the "other" server (in a HA setup) }`

- **/rest/control/v1/servers/{server}/start [POST]**
  Starts a service manually. If the service is not blocked, it is started automatically by the control daemon.
- **/rest/control/v1/servers/{server}/stop [POST]**
  Stops a service on a specific server. If the service has not been blocked, it is later started

automatically by the control daemon.

- **/rest/control/v1/servers/{server}/restart [POST]**
  Restarts a service on a specific server. You may need to restart a service after making manual configuration file changes.
- **/rest/control/v1/servers/{server}/block [POST]**
  Blocks a service so that is not started automatically by the control daemon.

Server services

- **/rest/control/v1/servers/{server}/services [GET]**
  Returns all configured services running on a specific virtual server.
  Response with ?expand=false
  200
  Comment JSON
  ```
  { "services": [ // List of service names "NGFW", "HTTP", "control", "restd" ] }
  ```

  Response with ?expand=true
  200
  Comment JSON
  ```
  { "services": [ // List of services { "name": "NGFW", // Name of the service "server": "S1", // Name of the server (not available for box services) "state": , // State of the service "processes": 1, // Number of processes "fileDescriptors": 3, // Number of open file descriptors "memory": 107352, // Memory usage in kB "moduleName": "Firewall", // Module name "info": "" // Additional information (if available) } ] }
  ```

- **/rest/control/v1/servers/{server}/services/{service} [GET]**
  Returns all servers and their running services on a Barracuda NextGen Firewall F-Series.
  Response
  200
  Comment JSON
  ```
  { "name": "NGFW", // Name of the service "server": "S1", // Name of the server (not available for box services) "state": , // State of the service "processes": 1, // Number of processes "fileDescriptors": 3, // Number of open file descriptors "memory": 107352, // Memory usage in kB "moduleName": "Firewall", // Module name "info": "" // Additional information (if available) }
  ```

- **/rest/control/v1/servers/{server}/services/{service}/start [POST]**
  Starts a service manually. If the service is not blocked, it is started automatically by the control daemon.
- **/rest/control/v1/servers/{server}/services/{service}/stop [POST]**
  Stops a service on a specific server. If the service has not been blocked, it is later started

automatically by the control daemon.

- **/rest/control/v1/servers/{server}/services/{service}/block [POST]**
  Blocks a service so that is not started automatically by the control daemon.
- **/rest/control/v1/servers/{server}/services/{service}/restart [POST]**
  Restarts a service on a specific server. You may need to restart a service after making manual configuration file changes.

Box services

- **/rest/control/v1/box/services [GET]**
  Returns all configured services running on a box level.
  Response with ?expand=false
  200
  Comment JSON
  ```
  { "services": [ // List of service names "NGFW", "HTTP", "control", "restd" ] }
  ```

  Response with ?expand=true
  200
  Comment JSON
  ```
  { "services": [ // List of services { "name": "NGFW", // Name of the service "server": "S1", // Name of the server (not available for box services) "state": , // State of the service "processes": 1, // Number of processes "fileDescriptors": 3, // Number of open file descriptors "memory": 107352, // Memory usage in kB "moduleName": "Firewall", // Module name "info": "" // Additional information (if available) } ] }
  ```

- **/rest/control/v1/box/services/{service} [GET]**
  Returns a specific service running on a box level.
  Response
  200
  Comment JSON
  ```
  { "name": "NGFW", // Name of the service "server": "S1", // Name of the server (not available for box services) "state": , // State of the service "processes": 1, // Number of processes "fileDescriptors": 3, // Number of open file descriptors "memory": 107352, // Memory usage in kB "moduleName": "Firewall", // Module name "info": "" // Additional information (if available) }
  ```

- **/rest/control/v1/box/services/{service}/start [POST]**
  Starts a box service. If the box service is not blocked, it is started automatically by the control daemon.
- **/rest/control/v1/box/services/{service}/stop [POST]**
  Stops a box service. If the box service has not been blocked, it is later started automatically by

the control daemon.

- **/rest/control/v1/box/services/{service}/block [POST]**
  Blocks a box service so that is not started automatically by the control daemon.
- **/rest/control/v1/box/services/{service}/restart [POST]**
  Restarts a box service. You may need to restart a box service after making manual configuration file changes.

General data

- **/rest/control/v1/box [GET]**
  Returns the general box status.
  Response
  200
  Comment JSON
  ```
  { "serverState": , // State of servers and server services "procState": , // State of resource usage "diskState": , // State of disk usage "netState": , // State of networking "eventState": 0, // Number of pending events "hasBoxAction": true, "licState": , // State of licenses "hasBoxnet": true, "hasKernel": true }
  ```

- **/rest/control/v1/box/info [GET]**
  Returns the following general information:
  - State of virtual servers (Inactive, OK, Warning, Error)
  Response
  200
  Comment JSON
  ```
  { "cpuLoad": { // System load averages "minute1": 0.85, // System load average of the last minute "minute5": 8.35, // System load average of the last 5 minutes "minute15": 5.48 // System load average of the last 15 minutes }, "memory": { // Memory usage "usage": 12, // Memory usage in % "free": 3452, // Free memory in MB "total": 3965, // Total memory available in MB "used": 513 // Used memory in MB }, "uptime": 5876, // Uptime of the box in s "time": "Sun May 1 00:00:00 2016", // Current time of the box "model": "vf1000", // Model "release": "GWAY-7.0.0-140", // Release name "serialNumber": "123456", // Serial number "cpuCores": 2, // Number of CPU cores "hostname": "box", // Hostname "users": 0, // Number of active users "appliance": "VM", // Appliance name "hypervisor": "VMWare" // Hypervisor name }
  ```

- **/rest/control/v1/box/motd [GET]**
  Shows the Message Board.
- **/rest/control/v1/box/tips [GET]**
  Shows the Product Tips.
  Response

200
Comment JSON
```
{ "timestamp": 1461310255, // Timestamp of the product tips "version":
"7.0.0", // Version this product tips belong to "content": "" // Actual
content as HTML }
```

- **/rest/control/v1/box/reboot [POST]**
  Reboots the Barracuda NextGen Firewall F-Series subsystem (operating system) and its servers and services.
- **/rest/control/v1/box/shutdown [POST]**
  Shuts down the Barracuda NextGen Firewall F-Series subsystem (operating system) and its servers and services.
- **/rest/control/v1/box/restart [POST]**
  Restarts the Barracuda NextGen Firewall F-Series subsystem (operating system) and its servers and services.

Resource operative data

- **/rest/control/v1/box/disks [GET]**
  Returns information about disk usage.
  Response
  200
  Comment JSON
```
{ "disks": [ // List of mounted disks { "watermarks": { // Watermark
levels "yellow": 30, // Yellow watermark level in % "red": 10 // Red
watermark level in % }, "mountpoint": "/", // Mountpoint the disk is
mounted to "state": , // State of the disk "size": 8254272, // Size of
the disk in kB "free": 6039204, // Free space on the disk in kB
"inodesMax": 524288, // Total number of inodes available "inodesFree":
487324 // Number of free inodes } ] }
```

- **/rest/control/v1/box/processes [GET]**
  Returns the process list.
  Response Response with ?expand=false
  200
  Comment JSON
```
{ "processes": [ // List of processes names "controld", "restd" ] }
```

  Response with ?expand=true
  200
  Comment JSON
```
{ "processes": [ // List of processes { "sockets": { // Number of
sockets in different states "listening": 2, // Number of listening
sockets "established": 0, // Number of established socket connections
```

```
"udp": 60, // Number of UDP sockets "synSent": 0, // Number of sockets
with SYN sent "close": 0, // Number of sockets closing "lastAck": 0 //
Number of sockets waiting for last ACK }, "state": , // State of the
process "name": "controld", // Process name "procs": 8, // Number of
processes "fileDescriptors": 46, // Number of open file descriptors
"memory": 124121088, // Memory usage in bytes "memoryShared": 4362240,
// Shared memory usage in bytes "usage": 0 // CPU usage } ] }
```

- **/rest/control/v1/box/processes/{name} [GET]**
  Returns specific process details.
  Response
  200
  Comment JSON

```
{ "listeningSockets": [ // List of listening sockets { "ip": "10.0.0.1",
// IP address "port": 801 // Port } ], "establishedSockets": [ // List
of established sockets { "localAddress": { // Local address "ip":
"10.0.0.1", // IP address "port": 801 // Port }, "remoteAddress": { //
Remote address "ip": "10.0.0.1", // IP address "port": 801 // Port } }
], "udpSockets": [ // List of UDP sockets { "ip": "10.0.0.1", // IP
address "port": 801 // Port } ], "processes": [ // List of process IDs
3735, 3749 ], "openFiles": [ // List of open files "/dev/null" ],
"fileDescriptors": 59, // Number of open file descriptors "memory":
155541504, // Memory used (Bytes) "memoryShared": 4808704 // Shared
memory used (Bytes) }
```

- **/rest/control/v1/box/mainboard [GET]**
  Returns the mainboard information.

Network operative data

- **/rest/control/v1/box/net [GET]**
  Returns the interfaces summary.
  Response
  200
  Comment JSON

```
{ "devs": [ // List of network devices { "type": , // Type of the
network device "name": "eth0", // Interface name "bytes": 1234, //
Number of bytes transfered "packets": 2, // Number of packets transfered
"errors": 0, // Number of errors "mac": "11:22:33:44:55:66" // MAC
address } ] }
```

- **/rest/control/v1/box/net/ips [GET]**
  Returns IP address information.
  Response
  200
  Comment JSON

```
{ "ips": [ // List of IP addresses { "network": { // Network the IP
address belongs to "address": "10.0.0.1", // IP address "mask": 24 //
Network mask in CIDR notation }, "interfaces": [ // List of interfaces
this IP is bound to "eth0", "eth1" ], "state": , // State of the IP
address "status": "up", // Status of the IP address "label": "mip0", //
Label of the IP address "pingable": true, // Is the address pingable?
"dup": "11:22:33:44:55:66" // MAC address of duplicate IP } ] }
```

- **/rest/control/v1/box/net/routes [GET]**
  Returns the routing tables.
  Response
  200
  Comment JSON

```
{ "tables": [ // List of routing tables { "routes": [ // List of routes
{ "filter": { // Network this entry applies to "address": "10.0.0.0", //
Network address "mask": 24 // Network mask in CIDR notation }, "state":
, // State of the entry "status": "up", // Status of the entry "type":
"device-boot", // Route type "interface": "eth0", // Interface name
"sourceIp": "10.0.0.1", // Source IP used on this route "preference": 0,
// Route metric "gatewayIp": "10.0.0.1", // IP address of default
gateway "name": "IPAD01" // Name of the route } ], "name": "main", //
Routing table name "from": "all" // Source } ] }
```

- **/rest/control/v1/box/net/interfaces [GET]**
  Returns the network interfaces.
  Response
  200
  Comment JSON

```
{ "interfaces": [ // List of interfaces { "flags": [ // List of flags
for this interface "UP", "BROADCAST" ], "features": [ // List of
features of this interface "HW-CSUM", "HIGH-DMA" ], "name": "eth0", //
Interface name "errors": 0, // Number of errors "bytes": 1234, // Number
of bytes transfered "packets": 2, // Number of packets transfered
"index": 1, // Index of the interface "type": "ETHER", // Type of the
interface "mac": "11:22:33:44:55:66", // MAC address "mtu": 1500, // MTU
size "broadcast": "ff:ff:ff:ff:ff:ff", // Broadcast MAC address
"baseAddress": 0, // Base address of the device "irq": 0, // IRQ used by
the device "realm": "intern", "bridge": "", "link": "", "negotiation":
"Auto", // Link speed negotiation "switch": "", // Switch "speed":
10000, // Speed of the interface in Mbps "duplex": "full" // Duplex
state of the interface } ] }
```

- **/rest/control/v1/box/net/arps [GET]**
  Returns the ARPs.
  Response
  200

Comment JSON

```
{ "arps": [ // List of ARP entries { "state": , // State of the entry
"ip": "10.0.0.1", // IP address "mac": "11:22:33:44:55:66", // MAC
address "vendor": "VMware.-Inc.", // Vendor name "interface": "eth0", //
Interface name "switch": "", // Switch "vlan": "", // VLAN "port": "",
// Port "uplinks": "" // Uplinks } ] }
```

- **/rest/control/v1/box/net/proxyarps [GET]**
  Returns the Proxy ARPs.
  Response
  200
  Comment JSON

```
{ "proxyarps": [ // List of proxy ARPs { "state": , // State of the
entry "ip": "10.0.0.1", // IP address "interface": "eth0", // Interface
name "origin": "", "exclude": "", "sourceRestriction": "" } ] }
```

- **/rest/control/v1/box/net/ndcache [GET]**
  Returns the IPv6 ND Cache.
  Response
  200
  Comment JSON

```
{ "entries": [ // List of cache entries { "state": , // State of the
entry "ip": "fe80::20c:1234:1234:1234", // IP address "mac":
"11:22:33:44:55:66", // MAC address "vendor": "VMware.-Inc.", // Vendor
name "interface": "eth0", // Interface name "switch": "", // Switch
"vlan": "", // VLAN "port": "", // Port "uplinks": "" // Uplinks } ] }
```

- **/rest/control/v1/box/net/netstat [GET]**
  Returns the network statistics.
- **/rest/control/v1/box/net/switches [GET]**
  Returns information on network switches.
  Response
  200
  Comment JSON

```
{ "switches": [ { "ports": [ { "clients": [ { "ips": [ { "ip": "",
"age": 1, "interface": "" } ], "mac": "", "age": 1, "type": 1 } ],
"name": "", "state": , "vlan": 1 } ], "name": "" } ] }
```

- **/rest/control/v1/box/net/ospf [GET]**
  Returns OSPF data.
  Response
  200
  Comment JSON

```
{ "neighbours": [ { "interface": { "name": "", "address": "" }, "name":
"", "prio": 1, "state": "", "deadTime": 1, "address": "" } ],
"interfaces": [ { "status": [ ], "name": "" } ] }
```

- **/rest/control/v1/box/net/bgp [GET]**

Returns BGP data.
Response
200
Comment JSON
```
{ "neighbours": [ { "ip": "", "as": 1, "receivedMessages": 1,
"sentMessages": 1, "upDownTime": 1, "prefixesReceived": 1 } ],
"prefixes": [ { "network": { "address": "", "mask": 1 }, "path": [ ],
"nextHop": "", "metric": 1, "localPref": "", "weight": 1, "origin": "" }
], "as": 1 }
```

- **/rest/control/v1/box/net/rip [GET]**
Returns RIP data.
Response
200
Comment JSON
```
{ "networks": [ { "network": { "address": "", "mask": 1 }, "nextHop":
"", "metric": 1, "fromVia": "", "tag": "", "validTime": 1 } ], "status":
[ ] }
```

License operative data

- **/rest/control/v1/box/licenses [GET]**
Returns the state of active licenses on the NextGen Firewall.
Response
200
Comment JSON
```
{ "licenses": [ // List of licenses { "state": , // State of the license
"module": "base-bnvf500", // Module this license is for "license":
"00000123-BN-VF500-1234", // License name "hostId":
"CPU-1234-5678-0000-0000-0000-0000", // Host ID this license is bound to
"status": "Valid-Host-ID", // Status of the license "expires":
1893456000 // Timestamp of license expiry } ] }
```

- **/rest/control/v1/box/licensevalues [GET]**
Returns the license values.
- **/rest/control/v1/box/versions [GET]**
Returns the version status of the NextGen Firewall.
Response
200
Comment JSON
```
{ "entries": [ // List of module entries { "state": , // Module state
"module": "NGFirewall-OS", // Module name "type": "package", // Module
type "version": "phionnet_release-10.0.0-142.noarch", // Module version
```

```
"comment": "GWAY-10.0.0-142", // Module comment "status": "Valid-Host-
ID" // Module status } ] }
```

- **/rest/control/v1/box/hostids [GET]**
  Returns the license host IDs.
- **/rest/control/v1/box/securitysubscriptions [GET]**
  Returns the security subscription.
  Response
  200
  Comment JSON

```
{ "subscriptions": [ // List of security subscriptions { "attributes": [
// List of additional attributes (subscription dependent) { "name": "DB
Version", // Attribute name "value": "4.764" // Attribute value } ],
"name": "AppID", // Subscription name "description": "Application
Control 2.0", // Subscription description "state": , // Subscription
state "status": "Licensed (Energize Update)", // Subscription status
"lastUpdate": 1461143002, // Timestamp of last update "expires":
1893456000 // Timestamp of expiry } ] }
```

Administrative session data

- **/rest/control/v1/box/sessions [GET]**
  Returns all sessions that are active on the NextGen Firewall.
  Response
  200
  Comment JSON

```
{ "sessions": [ // Session list { "type": , // Session type "pid":
11438, // Process ID "name": "firewall_NGFW", // Process name "peer":
"10.0.0.1:12345", // Peer address "start": 4766, // Time ago the session
was started (s) "idle": 2992, // Time the session has been idle (s)
"admin": "root" // User name of the administrator } ] }
```

Firewall data

URL Parameters

Name	Type	Example	Description
forward	boolean	true	Filter for forwarded connections
loopback	boolean	false	Filter for loopback connections

localIn	boolean	true	Filter for local terminating connections
localOut	boolean	true	Filter for local originating connections
ipv4	boolean	true	Filter for IPv4 connections
ipv6	boolean	true	Filter for IPv6 connections
closing	boolean	true	Filter for closing connections
established	boolean	true	Filter for established connections
failing	boolean	true	Filter for failing connections
pending	boolean	true	Filter for pending connections
source	string	10.0.0.1	Filter for source IP address
sourceDestination	string	10.0.0.1	Filter for source or destination IP address
destination	string	10.0.0.1	Filter for destination IP address
port	string	80	Filter for port
dev	string	eth0	Filter for device
reverseDev	string	eth0	Filter for reverse device
forwardDev	string	eth0	Filter for forward device
rule	string	MGMT-ACCESS	Filter for rule name
protocol	number	6	Filter for (numeric) IP Protocol (TCP = 6, UDP = 17)
realm	number	-	-
protocol	string	HTTP*	Filter for protocol name
application	string	Web*	Filter for application name
target	string	www.barracuda.com	Filter for application target/context
content	string	-	-
user	string	root	Filter for user name
sourceGeo	string	-	-
destinationGeo	string	-	-
urlCategory	string	*	Filter for URL category
idleTime	number	60	Filter for idle time (s)
full	boolean	false	Request overview or full data
geo	boolean	false	Request geographic data
count	number	1000	Number of results to return

- **/rest/firewall/v1/live [GET]**
  Returns all live connections.
  Request
  `?full=false`

Response
200
Comment JSON
{ "traffic": { // Traffic statistics "forward": { // Forwarded traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "local": { // Local traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "loopback": { // Loopback traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second } }, "connections": [// Listing of live connections { "source": { // Source address "ip": "10.0.0.1", // IP Address "port": 80 // Port }, "destination": { // Destination address "ip": "10.0.0.1", // IP Address "port": 80 // Port }, "forward": { // Forward interface "interface": "eth0", // Interface name "bytes": 1266 // Bytes transfered }, "reverse": { // Reverse interface "interface": "eth0", // Interface name "bytes": 1266 // Bytes transfered }, "index": 1, // ID of connection "activeTtid": 1, // Active TI index "user": "root", // User name "state": , // State of the connection "status": "LOC-EST", // Connection status "ruleName": "MGMT-ACCESS", // Rule name "type": "LIN", // Type of the connection (LB, LIN, LOUT, FWD) "appName": "", "ipProtocol": "TCP", // IP protocol name "protocol": "NGF-MGMT", // Protocol (service) name "application": "Web browsing", // Application name "target": "www.barracuda.com", // Application target/context "speed": 6992, // Connection speed (Bytes/s) "idleTime": 405 // Time the connection has been idle (s) }], "limited": true, // True if the output has been truncated "total": 1234 // Number of total connections }

Request
?full=true
Response
200
Comment JSON
{ "traffic": { // Traffic statistics "forward": { // Forwarded traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "local": { // Local traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "loopback": { // Loopback traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "band0": { // Band 0 traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "band1": { // Band 1 traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "band2": { // Band 2 traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "band3": { // Band 3 traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "band4": { // Band 4 traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "band5": { // Band 5 traffic "bps": 123456, // Bytes per second "packets": 47 // Packets per second }, "band6": { // Band 6 traffic "bps": 123456, // Bytes per second

```
"packets": 47 // Packets per second }, "band7": { // Band 7 traffic
"bps": 123456, // Bytes per second "packets": 47 // Packets per second }
}, "connections": [ // Listing of live connections { "source": { //
Connection source "geo": { // Geographic data "shortName": "AT", //
Short country name "fullName": "Austria", // Long country name "region":
"Europe-EU" // Region name }, "nat": { // NAT address "ip": "10.0.0.1",
// IP Address "port": 80 // Port }, "quarantineType": "", "ip":
"10.0.0.1", // IP Address "port": 80 // Port }, "destination": { //
Connection destination "geo": { // Geographic data "shortName": "AT", //
Short country name "fullName": "Austria", // Long country name "region":
"Europe-EU" // Region name }, "nat": { // NAT address "ip": "10.0.0.1",
// IP Address "port": 80 // Port }, "quarantineType": "", "ip":
"10.0.0.1", // IP Address "port": 80 // Port }, "forward": { // Forward
interface "shapeConnector": "Internet", // QoS Band
"ingressShapeConnector": "eth0", // Inbound interface
"outgressShapeConnector": "eth0", // Outbound interface "interface":
"eth0", // Interface name "bytes": 1266 // Bytes transfered },
"reverse": { // Reverse interface "shapeConnector": "Internet", // QoS
Band "ingressShapeConnector": "eth0", // Inbound interface
"outgressShapeConnector": "eth0", // Outbound interface "interface":
"eth0", // Interface name "bytes": 1266 // Bytes transfered },
"urlCategories": [ // List of URL categories ], "configureTtid": 1, //
Configured TI index "evaluatedOnReverse": true, "protocolId": 1,
"applicationId": 1, "contentId": 1, "vpnRoute": 1, "agentId": 1,
"content": "", "startTime": 51, // Time ago the connection started (s)
"index": 1, // ID of connection "activeTtid": 1, // Active TI index
"user": "root", // User name "state": , // State of the connection
"status": "LOC-EST", // Connection status "ruleName": "MGMT-ACCESS", //
Rule name "type": "LIN", // Type of the connection (LB, LIN, LOUT, FWD)
"appName": "", "ipProtocol": "TCP", // IP protocol name "protocol":
"NGF-MGMT", // Protocol (service) name "application": "Web browsing", //
Application name "target": "www.barracuda.com", // Application
target/context "speed": 6992, // Connection speed (Bytes/s) "idleTime":
405 // Time the connection has been idle (s) } ], "limited": true, //
True if the output has been truncated "total": 1234 // Number of total
connections }
```

- **/rest/firewall/v1/history [GET]**
  Returns the connection history.
  Request
  `?full=false`
  Response
  200
  Comment JSON

```
{ "connections": [ // List of connections { "source": { // Connection
source "ip": "10.0.0.1", // IP address "dev": "eth0" // Interface name
}, "destination": { // Connection destination "ip": "10.0.0.1", // IP
```

address "port": 80, // Port "dev": "eth0" // Interface name }, "index": 1, // ID of the connection "type": , // Type of the entry "reasonId": 1, "reasonParam1": 1, "reasonParam2": 1, "count": 25, // Number of time this entry matched "lastTime": 4, // Time ago this entry last matched (s) "ruleName": "LAN-2-LAN", // Rule name "ipProtocol": "TCP", // IP protocol name "user": "root", // User name "nextHop": "10.0.0.1", // IP address of next hop "reasonText": "Block Broadcast" // Reason for the entry }] }

Request
?full=true
Response
200
Comment JSON
{ "connections": [// List of connections { "source": { // Connection source "geo": { // Geographic data "shortName": "AT", // Short country name "fullName": "Austria", // Long country name "region": "Europe-EU" // Region name }, "ip": "10.0.0.1", // IP address "name": "", // Name "mac": "11:22:33:44:55:66", // MAC address "dev": "eth0" // Interface name }, "destination": { // Connection destination "geo": { // Geographic data "shortName": "AT", // Short country name "fullName": "Austria", // Long country name "region": "Europe-EU" // Region name }, "ip": "10.0.0.1", // IP address "name": "", // Name "port": 80, // Port "dev": "eth0" // Interface name }, "origin": "LIN", // Origin of the connection (LB, LIN, LOUT, FWD) "bindIp": "10.0.0.1", // Local IP address "connectionIp": "1.2.3.4", // Remote IP address "routeType": "unicast", // Route type "protocol": "TCP", // IP protocol name "protocolId": 1, "application": "Web browsing", // Application name "applicationId": 1, "target": "www.barracuda.com", // Application target/context "urlCategory": "", // URL category "index": 1, // ID of the connection "type": , // Type of the entry "reasonId": 1, "reasonParam1": 1, "reasonParam2": 1, "count": 25, // Number of time this entry matched "lastTime": 4, // Time ago this entry last matched (s) "ruleName": "LAN-2-LAN", // Rule name "ipProtocol": "TCP", // IP protocol name "user": "root", // User name "nextHop": "10.0.0.1", // IP address of next hop "reasonText": "Block Broadcast" // Reason for the entry }] }

Firewall Custom External Objects

- **/rest/firewall/v1/objects/networks/dynamic/externals/{id} [GET]**
  Returns the list of IP addresses in this custom external object.
  Response

200
Comment JSON
```
{ "ips": [ // List of IP addresses "10.0.0.1", "10.0.0.2" ] }
```

- **/rest/firewall/v1/objects/networks/dynamic/externals/{id} [POST]**
  Adds one or more IP addresses to this custom external object.
  Request
  Append
  Comment JSON
  ```
  { "ips": [ // List of IP addresses "10.0.0.1", "10.0.0.2" ] }
  ```
- **/rest/firewall/v1/objects/networks/dynamic/externals/{id} [PUT]**
  Sets the list of IP addresses in this custom external object.
  Request
  Replace
  Comment JSON
  ```
  { "ips": [ // List of IP addresses "10.0.0.1", "10.0.0.2" ] }
  ```
- **/rest/firewall/v1/objects/networks/dynamic/externals/{id} [DELETE]**
  Removes all IP addresses from this custom external object.
- **/rest/firewall/v1/objects/networks/dynamic/externals/{id}/{ip} [PUT]**
  Replaces one IP address in this custom external object.
  Request
  Replace
  Comment JSON
  ```
  { "ip": "10.0.0.1" // IP Address }
  ```

- **/rest/firewall/v1/objects/networks/dynamic/externals/{id}/{ip} [DELETE]**
  Removes one IP address from this custom external object.