

## ARP

|                    |                    |
|--------------------|--------------------|
| arp.dst.hw_mac     | arp.proto.size     |
| arp.dst.proto_ipv4 | arp.proto.type     |
| arp.hw.size        | arp.src.hw_mac     |
| arp.hw.type        | arp.src.proto_ipv4 |
| arp.opcode         |                    |

## BGP

|                        |                                 |
|------------------------|---------------------------------|
| bgp.aggregator_as      | bgp.mp_reach_nlri_ipv4_prefix   |
| bgp.aggregator_origin  | bgp.mp_unreach_nlri_ipv4_prefix |
| bgp.as_path            | bgp.multi_exit_disc             |
| bgp.cluster_identifier | bgp.next_hop                    |
| bgp.cluster_list       | bgp.nlri_prefix                 |
| bgp.community_as       | bgp.origin                      |
| bgp.community_value    | bgp.originator_id               |
| bgp.local_pref         | bgp.type                        |
| bgp.mp_nlri_tnl_id     | bgp.withdrawn_prefix            |

## DTP

|            |              |              |
|------------|--------------|--------------|
| dtp.data   | dtp.tlv_len  | dtp.senderid |
| dtp.domain | dtp.tlv_type | dtp.version  |

## Ethernet

|          |               |             |
|----------|---------------|-------------|
| eth.addr | eth.len       | eth.src     |
| eth.dst  | eth.lg        | eth.trailer |
| eth.ig   | eth.multicast | eth.type    |

## Filter Operators

|          |         |          |
|----------|---------|----------|
| eq or == | gt or > | ge or >= |
| ne or != | lt or < | le or <= |

## Filter Logic

|           |             |           |                    |
|-----------|-------------|-----------|--------------------|
| and or && | Logical AND | not or !  | Logical NOT        |
| or or     | Logical OR  | [n] [...] | Substring operator |
| xor or ^^ | Logical XOR |           |                    |

## Frame Relay

|                            |                   |
|----------------------------|-------------------|
| fr.becn                    | fr.de             |
| fr.chdlctype               | fr.dlci           |
| fr.control                 | fr.dlcore_control |
| fr.control.f               | fr.ea             |
| fr.control.ftype           | fr.fecn           |
| fr.control.n_r             | fr.lower_dlci     |
| fr.control.n_s             | fr.nlpid          |
| fr.control.p               | fr.second_dlci    |
| fr.control.s_ftype         | fr.snap.oui       |
| fr.control.u_modifier_cmd  | fr.snap.pid       |
| fr.control.u_modifier_resp | fr.snapttype      |
| fr.cr                      | fr.third_dlci     |
| fr.dc                      | fr.upper_dlci     |

## HTTP

|                         |                          |
|-------------------------|--------------------------|
| http.accept             | http.proxy_authorization |
| http.accept_encoding    | http.proxy_connect_host  |
| http.accept_language    | http.proxy_connect_port  |
| http.authbasic          | http.referer             |
| http.authorization      | http.request             |
| http.cache_control      | http.request.method      |
| http.connection         | http.request.uri         |
| http.content_encoding   | http.request.version     |
| http.content_length     | http.response            |
| http.content_type       | http.response.code       |
| http.cookie             | http.server              |
| http.date               | http.set_cookie          |
| http.host               | http.transfer_encoding   |
| http.last_modified      | http.user_agent          |
| http.location           | http.www_authenticate    |
| http.notification       | http.x_forwarded_for     |
| http.proxy_authenticate |                          |

## ICMP

|                   |               |
|-------------------|---------------|
| icmp.checksum     | icmp.mtu      |
| icmp.checksum_bad | icmp.redir_gw |
| icmp.code         | icmp.seq      |
| icmp.ident        | icmp.type     |

## ICMPv6

|                         |                              |
|-------------------------|------------------------------|
| icmpv6.all_comp         | icmpv6.option.name_type.fqdn |
| icmpv6.checksum         | icmpv6.option.name_x501      |
| icmpv6.checksum_bad     | icmpv6.option.rsa.key_hash   |
| icmpv6.code             | icmpv6.option.type           |
| icmpv6.comp             | icmpv6.ra.cur_hop_limit      |
| icmpv6.haad.haadrs      | icmpv6.ra.reachable_time     |
| icmpv6.identifier       | icmpv6.ra.retrans_timer      |
| icmpv6.option           | icmpv6.ra.router_lifetime    |
| icmpv6.option.cga       | icmpv6.recursive_dns_serv    |
| icmpv6.option.length    | icmpv6.type                  |
| icmpv6.option.name_type |                              |

## IEEE 802.1Q

|            |               |
|------------|---------------|
| vlan.cfi   | vlan.len      |
| vlan.etype | vlan.priority |
| vlan.id    | vlan.trailer  |

| IPv4                      |                              |
|---------------------------|------------------------------|
| ip.addr                   | ip.fragment.overlap.conflict |
| ip.checksum               | ip.fragment.toolongfragment  |
| ip.checksum_bad           | ip.fragments                 |
| ip.checksum_good          | ip.hdr_len                   |
| ip.dsfield                | ip.host                      |
| ip.dsfield.ce             | ip.id                        |
| ip.dsfield.dscp           | ip.len                       |
| ip.dsfield.ect            | ip.proto                     |
| ip.dst                    | ip.reassembled_in            |
| ip.dst_host               | ip.src                       |
| ip.flags                  | ip.src_host                  |
| ip.flags.df               | ip.tos                       |
| ip.flags.mf               | ip.tos.cost                  |
| ip.flags.rb               | ip.tos.delay                 |
| ip.frag_offset            | ip.tos.precedence            |
| ip.fragment               | ip.tos.reliability           |
| ip.fragment.error         | ip.tos.throughput            |
| ip.fragment.multipletails | ip.ttl                       |
| ip.fragment.overlap       | ip.version                   |

| IPv6                           |                         |
|--------------------------------|-------------------------|
| ipv6.addr                      | ipv6.hop_opt            |
| ipv6.class                     | ipv6.host               |
| ipv6.dst                       | ipv6.mipv6_home_address |
| ipv6.dst_host                  | ipv6.mipv6_length       |
| ipv6.dst_opt                   | ipv6.mipv6_type         |
| ipv6.flow                      | ipv6.nxt                |
| ipv6.fragment                  | ipv6.opt.pad1           |
| ipv6.fragment.error            | ipv6.opt.padn           |
| ipv6.fragment.more             | ipv6.plen               |
| ipv6.fragment.multipletails    | ipv6.reassembled_in     |
| ipv6.fragment.offset           | ipv6.routing_hdr        |
| ipv6.fragment.overlap          | ipv6.routing_hdr.addr   |
| ipv6.fragment.overlap.conflict | ipv6.routing_hdr.left   |
| ipv6.fragment.toolongfragment  | ipv6.routing_hdr.type   |
| ipv6.fragments                 | ipv6.src                |
| ipv6.fragment.id               | ipv6.src_host           |
| ipv6.hlim                      | ipv6.version            |

| MPLS            |                          |
|-----------------|--------------------------|
| mpls.bottom     | mpls.oam.defect_location |
| mpls.cw.control | mpls.oam.defect_type     |
| mpls.cw.res     | mpls.oam.frequency       |
| mpls.exp        | mpls.oam.function_type   |
| mpls.label      | mpls.oam.ttsi            |
| mpls.oam.bip16  | mpls.ttl                 |

| PPP         |               |
|-------------|---------------|
| ppp.address | ppp.direction |
| ppp.control | ppp.protocol  |

| RIP             |              |                    |
|-----------------|--------------|--------------------|
| rip.auth.passwd | rip.ip       | rip.route_tag      |
| rip.auth.type   | rip.metric   | rip.routing_domain |
| rip.command     | rip.netmask  | rip.version        |
| rip.family      | rip.next_hop |                    |

| TCP                    |                              |
|------------------------|------------------------------|
| tcp.ack                | tcp.options.qs               |
| tcp.checksum           | tcp.options.sack             |
| tcp.checksum_bad       | tcp.options.sack_le          |
| tcp.checksum_good      | tcp.options.sack_perm        |
| tcp.continuation_to    | tcp.options.sack_re          |
| tcp.dstport            | tcp.options.time_stamp       |
| tcp.flags              | tcp.options.wscale           |
| tcp.flags.ack          | tcp.options.wscale_val       |
| tcp.flags.cwr          | tcp.pdu.last_frame           |
| tcp.flags.ecn          | tcp.pdu.size                 |
| tcp.flags.fin          | tcp.pdu.time                 |
| tcp.flags.push         | tcp.port                     |
| tcp.flags.reset        | tcp.reassembled_in           |
| tcp.flags.syn          | tcp.segment                  |
| tcp.flags.urg          | tcp.segment.error            |
| tcp.hdr_len            | tcp.segment.multipletails    |
| tcp.len                | tcp.segment.overlap          |
| tcp.nxtseq             | tcp.segment.overlap.conflict |
| tcp.options            | tcp.segment.toolongfragment  |
| tcp.options.cc         | tcp.segments                 |
| tcp.options.ccecho     | tcp.seq                      |
| tcp.options.ccnew      | tcp.srcport                  |
| tcp.options.echo       | tcp.time_delta               |
| tcp.options.echo_reply | tcp.time_relative            |
| tcp.options.md5        | tcp.urgent_pointer           |
| tcp.options.mss        | tcp.window_size              |
| tcp.options.mss_val    |                              |

| UDP               |             |             |
|-------------------|-------------|-------------|
| udp.checksum      | udp.dstport | udp.srcport |
| udp.checksum_bad  | udp.length  |             |
| udp.checksum_good | udp.port    |             |

| VTP              |                                |
|------------------|--------------------------------|
| vtp.code         | vtp.vlan_info.802_10_index     |
| vtp.conf_rev_num | vtp.vlan_info.isl_vlan_id      |
| vtp.followers    | vtp.vlan_info.len              |
| vtp.md           | vtp.vlan_info.mtu_size         |
| vtp.md5_digest   | vtp.vlan_info.status.vlan_susp |
| vtp.md_len       | vtp.vlan_info.tlv_len          |
| vtp.seq_num      | vtp.vlan_info.tlv_type         |
| vtp.start_value  | vtp.vlan_info.vlan_name        |
| vtp.upd_id       | vtp.vlan_info.vlan_name_len    |
| vtp.upd_ts       | vtp.vlan_info.vlan_type        |
| vtp.version      |                                |