

Wireshark Display Filter Cheat Sheet

www.cellstream.com

Operators and Logic

eq or ==	lt or <	and or && Logical AND	not or ! Logical NOT
ne or !=	ge or >=	or or Logical OR	[n] [] Substring operator
gt or >	le or <=	xor or ^^ Logical XOR	

LAYER 1

frame	frame.ignored	frame.number	frame.time_delta
frame.cap_len	frame.len	frame.p2p_dir	frame.time_delta_displayed
frame.coloring_rule.name	frame.link_nr	frame.protocols	frame.time_epoch
frame.coloring_rule.string	frame.marked	frame.ref_time	frame.time_invalid
frame.file_off	frame.md5_hash	frame.time	frame.time_relative

LAYER 2

Ethernet

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

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	

802.1Q VLAN

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

PPP

ppp.address	ppp.direction
ppp.control	ppp.protocol

VLAN Trunking Protocol

vtp.code	vtp.version
vtp.conf_rev_num	vtp.vlan_info.802_10_index
vtp.followers	vtp.vlan_info.isl_vlan_id
vtp.md	vtp.vlan_info.len
vtp.md5_digest	vtp.vlan_info.mtu_size
vtp.md_len	vtp.vlan_info.status.vlan_susp
vtp.neighbor	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

DTP

dtp.neighbor	dtp.tlv_type
dtp.tlv_len	dtp.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.aom.bip16	mpls.ttl

Frame Relay

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

LAYER 3

IP v4

ip.addr	ip.fragment.overlap.conflict
ip.checksum	ip.fragments
ip.checksum_bad	ip.fragment.toolongfragment
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.fragment	ip.tos.precedence
ip.frag_offset	ip.tos.reliability
ip.fragment.error	ip.tos.throughput
ip.fragment.multipletails	ip.ttl
ip.fragment.overlap	ip.version

ICMP

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

IP v6

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.id	ipv6.plen
ipv6.fragment.more	ipv6.reassembled_in
ipv6.fragment.multipletails	ipv6.routing_hdr
ipv6.fragment.offset	ipv6.routing_hdr.addr
ipv6.fragment.overlap	ipv6.routing_hdr.left
ipv6.fragment.overlap.conflict	ipv6.routing_hdr.type
ipv6.fragment.toolongfragment	ipv6.src
ipv6.fragments	ipv6.src_host
ipv6.hlim	ipv6.version

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.haad_addrs	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	

LAYER 4**TCP**

tcp.ack	tcp.flags
tcp.analysis.ack_lost_segment	tcp.flags.ack
tcp.analysis.ack_rtt	tcp.flags.cwr
tcp.analysis.acks_frame	tcp.flags.ecn
tcp.analysis.bytes_in_flight	tcp.flags.fin
tcp.analysis.duplicate_ack	tcp.flags.push
tcp.analysis.duplicate_ack_frame	tcp.flags.reset
tcp.analysis.duplicate_ack_num	tcp.flags.syn
tcp.analysis.fast_retransmissions	tcp.flags.urg
tcp.analysis.flags	tcp.hdr_len
tcp.analysis.keep_alive	tcp.len > 0
tcp.analysis.keep_alive_ack	tcp.nxtseq
tcp.analysis.lost_segment	tcp.options
tcp.analysis.out_of_order	tcp.options.cc
tcp.analysis.retransmission	tcp.options.ccecho

TCP – continued

tcp.options.wscale_val	tcp.segment.toolongfragment
tcp.pdu.last_frame	tcp.segments
tcp.pdu.size	tcp.seq
tcp.pdu.time	tcp.srcport
tcp.port	tcp.time_delta
tcp.reassembled_in	tcp.time_relative
tcp.segment	tcp.urgent_pointer
tcp.segment.error	tcp.window_size
tcp.segment.multipletails	
tcp.segment.overlap	
tcp.segment.overlap.conflict	
tcp.time_delta > 1	
tcp.len > 0 && !(tcp.analysis.keep_alive==1)	

tcp.analysis.reused_ports	tcp.options.ccnew
tcp.analysis.rto	tcp.options.echo
tcp.analysis.rto_frame	tcp.options.echo_reply
tcp.analysis.window_full	tcp.options.md5
tcp.analysis.window_update	tcp.options.mss
tcp.analysis.zero_window	tcp.options.mss_val
tcp.analysis.zero_window_probe	tcp.options.qs
tcp.analysis.zero_window_probe_ack	tcp.options.sack
tcp.checksum	tcp.options.sack_le
tcp.checksum_bad	tcp.options.sack_perm
tcp.checksum_good	tcp.options.sack_re
tcp.continuation_to	tcp.options.time_stamp
tcp.dstport	tcp.options.wscale

UDP

udp.checksum	udp.length
udp.checksum_bad	udp.port
udp.checksum_good	udp.srcport
udp.dstport	

LAYER 5 – Applications and Routing Protocols

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.time > 1
http.last_modified	http.transfer_encoding
http.location	http.user_agent
http.notification	http.www_authenticate
http.proxy_authenticate	http.x_forwarded_for

RIPv2

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

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

OSPF and OSPFv2

ospf.advrouter	ospf.mpls.routerid
ospf.dbd	ospf.msg
ospf.dbd.i	ospf.msg.dbdesc
ospf.dbd.m	ospf.msg.hello
ospf.dbd.ms	ospf.msg.lsack
ospf.dbd.r	ospf.msg.lsreq
ospf.lls.ext.options	ospf.msg.lsupdate
ospf.lls.ext.options.lr	ospf.oid.local_node_id
ospf.lls.ext.options.rs	ospf.oid.remote_node_id
ospf.lsa	ospf.srcrouter
ospf.lsa.asbr	ospf.v2.grace
ospf.lsa.asext	ospf.v2.grace.ip
ospf.lsa.attr	ospf.v2.grace.period

OSPFv3 (IP v6)

ospf.v3.as.external.flags	ospf.v3.lls.willingness.tlv
ospf.v3.as.external.flags.e	ospf.v3.options
ospf.v3.as.external.flags.f	ospf.v3.options.af
ospf.v3.as.external.flags.t	ospf.v3.options.dc
ospf.v3.lls.drop.tlv	ospf.v3.options.e
ospf.v3.lls.ext.options.lr	ospf.v3.options.f
ospf.v3.lls.ext.options.rs	ospf.v3.options.i
ospf.v3.lls.ext.options.tlv	ospf.v3.options.l
ospf.v3.lls.fsf.tlv	ospf.v3.options.mc
ospf.v3.lls.relay.added	ospf.v3.options.n
ospf.v3.lls.relay.options	ospf.v3.options.r
ospf.v3.lls.relay.options.a	ospf.v3.options.v6
ospf.v3.lls.relay.options.n	ospf.v3.prefix.options

ospf.lsa.member	ospf.v2.grace.reason	ospf.v3.lls.relay.tlv	ospf.v3.prefix.options.la
ospf.lsa.mpls	ospf.v2.options	ospf.v3.lls.rf.tlv	ospf.v3.prefix.options.mc
ospf.lsa.network	ospf.v2.options.dc	ospf.v3.lls.state.options	ospf.v3.prefix.options.nu
ospf.lsa.nssa	ospf.v2.options.dn	ospf.v3.lls.state.options.a	ospf.v3.prefix.options.p
ospf.lsa.opaque	ospf.v2.options.e	ospf.v3.lls.state.options.n	ospf.v3.router.lsa.flags
ospf.lsa.router	ospf.v2.options.l	ospf.v3.lls.state.options.r	ospf.v3.router.lsa.flags.b
ospf.lsa.summary	ospf.v2.options.mc	ospf.v3.lls.state.scs	ospf.v3.router.lsa.flags.e
ospf.lsid_opaque_type	ospf.v2.options.mt	ospf.v3.lls.state.tlv	ospf.v3.router.lsa.flags.v
ospf.lsid_te_lsa.instance	ospf.v2.options.np	ospf.v3.lls.willingness	ospf.v3.router.lsa.flags.w
ospf.mpls.bc	ospf.v2.options.o		
ospf.mpls.linkcolor	ospf.v2.router.lsa.flags		
ospf.mpls.linkid	ospf.v2.router.lsa.flags.b		
ospf.mpls.linktype	ospf.v2.router.lsa.flags.e		
ospf.mpls.local_addr	ospf.v2.router.lsa.flags.n		
ospf.mpls.local_id	ospf.v2.router.lsa.flags.v		
ospf.mpls.remote_addr	ospf.v2.router.lsa.flags.w		
ospf.mpls.remote_id			

Other

smb2.cmd==3 or smb2.cmd==5