NetApp

netinet6 events

ONTAP 9.13.1 EMS reference

NetApp
February 12, 2024

Table of Contents

netinet6 events

netinet6.frag events

netinet6.frag.bytes.overlap

Severity

ERROR

Description

This message occurs when the incoming fragment overlaps some of the existing previous fragment in the reassembly queue.

Corrective Action

(None).

Syslog Message

%d bytes of a fragment from %s overlapped the %s fragment

Parameters

bytes (INT): Number of bytes.
ipAddress (STRING): Printable that is loggable representation of IP address.
message (STRING): String passed as "previous" or "succeeding".

netinet6.icmp events

netinet6.icmp.chksum

Severity

ERROR

Description

This message occurs when the system receives an Internet Control Message Protocol(ICMP) message, and while processing the ICMP message it finds a checksum error.

Corrective Action

(None).

Syslog Message

ICMP6 checksum error (%d|%x) %s.

Parameters

icmpType (INT): ICMP header type field.
checksum (INTHEX): Checksum value.
ipAddress (STRING): Printable that is a loggable representation of IP address.

netinet6.icmp.redirect

Severity

NOTICE

Description

This message occurs when an ICMPv6 redirect message is received. The redirect might be received due to either a misconfigured route or a man-in-the-middle ICMP redirect attack.

Corrective Action

When enabled, ICMP redirects can be disabled using the "network tuning icmp6 modify -is-v6-redirect -accepted false" command. However, disabling ICMP redirects might lead to connectivity problems or longer delays of data transfers.

Syslog Message

Received %lu ICMPv6 redirect messages for IPspace "%s".

Parameters

no_of_redirects (LONGINT): Total number of ICMPv6 redirects received for the specific IPspace.
ipspace (STRING): The IPspace for which the redirect packets are received.

netinet6.icmp.reject.equal

Severity

ERROR

Description

This message occurs when the system rejects a redirect because both router case and on-link destination case are equal.

Corrective Action

(None).

Syslog Message

ICMP6 redirect rejected; neither router case nor onlink case: %s.

Parameters

addressBuff (STRING): Contains IP6 addresses.

netinet6.icmp.reject.length

Severity

INFORMATIONAL

Description

This message occurs when there is a lladdrlen mismatch for the specified IP6 address.

Corrective Action

(None).

Syslog Message

icmp6_redirect_input: lladdrlen mismatch for %s (if %d, icmp6 packet %d): %s.

Parameters

    ip6address (STRING): Printable that is a loggable representation of the IP address.
    mediaAddrlen (INT): Media address length.
    lladdrlen (INT): Address length.
    addressBuff (STRING): Contains IP6 addresses.

netinet6.icmp.reject.link

Severity

    ERROR

Description

    This message occurs when the system rejects an Internet Control Message Protocol6 (ICMP6) redirect.

Corrective Action

    (None).

Syslog Message

    ICMP6 redirect sent from %s rejected;It must be from the linklocal address.

Parameters

    ipAddress (STRING): Printable that is a loggable representation of the IP address.

netinet6.icmp.reject.ndopt

Severity

    INFORMATIONAL

Description

    This message occurs because of invalid neighbor discovery options.

Corrective Action

    (None).

Syslog Message

    icmp6_redirect_input: Invalid neighbor discovery option, rejected: %s.

Parameters

    addressBuff (STRING): Contains IP6 addresses.

netinet6.in6 events

netinet6.in6.invlid.prfxLen1

Severity

    ERROR

Description

    This message occurs because of equal prefix length.

Corrective Action

(None).

Syslog Message

in6_are_prefix_equal: Invalid prefix length (%d).

Parameters

prfxLen (INT): Prefix length.

netinet6.in6.invlid.prfxLen2

Severity

ERROR

Description

This message occurs because of invalid prefix length.

Corrective Action

(None).

Syslog Message

in6_prefixlen2mask: Invalid prefix length (%d).

Parameters

prfxLen (INT): Prefix length.

netinet6.input events

netinet6.input.addr.notReady

Severity

INFORMATIONAL

Description

This message occurs when the destination address is not ready, so the packet is discarded.

Corrective Action

(None).

Syslog Message

ip6_input: packet was sent to an unready address %s→%s.

Parameters

srcAddr (STRING): Source IP6 address.
dstAddr (STRING): Destination IP6 address.

netinet6.input.opt.payload

Severity

ERROR

Description

This message occurs when the length of the payload option in the header is inconsistent.

Corrective Action

(None).

Syslog Message

Length of jumbopayload option is inconsistent(%d).

Parameters

option (INT): Length of option.

netinet6.input.opt.rtrAlert

Severity

ERROR

Description

This message occurs when the length of the router alert option in the header is inconsistent.

Corrective Action

(None).

Syslog Message

Length of router alert option is inconsistent(%d).

Parameters

option (INT): Length of option.

netinet6.mld6 events

netinet6.mld6.illegal.type

Severity

ERROR

Description

This message occurs when the system discovers an illegal Internet Control Message Protocol (ICMP) type field in a multicast listener discovery structure.

Corrective Action

(None).

Syslog Message

mld6_input: Illegal ICMP type field (%d).

Parameters

type (INT): ICMP type field.

netinet6.mld6.srcAdr.invld

Severity

ERROR

Description

This message occurs during validation of the source address, when the system finds that the source address is a non-linked local address.

Corrective Action

(None).

Syslog Message

mld6_input: Source address %s is not link-local.

Parameters

srcAddr (STRING): Source IP6 address.

netinet6.nbr events

netinet6.nbr.bad.addr

Severity

ERROR

Description

This message occurs when ONTAP receives unexpected Neighbor Discovery (ND) packets. The packets could come from various sources, but usually they come from a source IP address. The EMS message shows the information from the packet. If something specific is wrong, another EMS message with more information will display with this EMS message.

Corrective Action

ONTAP received an invalid Neighbor Discovery (ND) packet. If the condition persists, check your network infrastructure, such as switches, routers, or other connected equipment.

Syslog Message

nd6_ns_input: src=%s, dst=%s, tgt=%s.

Parameters

srcIpAddress (STRING): Source IPv6 address.
dstIpAddress (STRING): Destination IPv6 address.
tgtIpAddress (STRING): Target IPv6 address.

netinet6.nbr.bad.tgtAddr

Severity

INFORMATIONAL

Description

This message occurs when the target address packet is found to be multicast.

Corrective Action

(None).

Syslog Message

nd6_ns_input: Bad NS target (multicast).

Parameters

(None).

netinet6.nbr.badDstAddr.pkt1

Severity

INFORMATIONAL

Description

This message occurs when the destination address packet is bad due to a wrong destination IP6 address.

Corrective Action

(None).

Syslog Message

nd6_ns_input: Bad DAD packet (wrong ip6 dst).

Parameters

(None).

netinet6.nbr.badDstAddr.pkt2

Severity

INFORMATIONAL

Description

This message occurs when the destination address packet is bad due to link-layer address option.

Corrective Action

(None).

Syslog Message

nd6_ns_input: Bad DAD packet (link-layer address option).

Parameters

(None).

netinet6.nbr.dad.complete

Severity

ALERT

Description

This message occurs when Duplicate address Detection (DAD) for the specified interface address is completed, and duplicate address is found.

Corrective Action

(None).

Syslog Message

%s: DAD complete for %s - duplicate found.

Parameters

ifAddress (STRING): Interface address.
ip6address (STRING): Printable that is a loggable representation of the IP address.

netinet6.nbr.dad.ignrNS

Severity

INFORMATIONAL

Description

This message occurs when Duplicate address Detection (DAD) ignores Neighbor Solicitation (NS) packet for the specified interface address.

Corrective Action

(None).

Syslog Message

nd6_dad_ns_input: Ignoring DAD NS packet for address %s(%s).

Parameters

targetAddress (STRING): Printable that is loggable representation of target IPv6 address.
ifAddress (STRING): Interface address.

netinet6.nbr.dad.memAlcFail

Severity

ALERT

Description

This message occurs when Duplicated Address Detection (DAD) is started and memory allocated fails for the specified interface address.

Corrective Action

(None).

Syslog Message

nd6_dad_start: Memory allocation failed for %s(%s).

Parameters

ip6address (STRING): Printable that is a loggable representation of an IP6 address.
ifAddress (STRING): Interface address.

netinet6.nbr.dad.timeout

Severity

NOTICE

Description

This message occurs during Duplicated Address Detection (DAD), when number of tries or count to transmit DAD packet exceeds the predefined maximum number of tries.

Corrective Action

(None).

Syslog Message

%s: could not run DAD, driver or link problem?

Parameters

ifAddress (STRING): Interface address.

netinet6.nbr.dadtmr.duplcAdr

Severity

NOTICE

Description

This message occurs when Duplicated Address Detection (DAD) timer is called, and the parameter passed to it, is a duplicated interface address.

Corrective Action

(None).

Syslog Message

nd6_dad_timer: Called with duplicated address %s(%s).

Parameters

ip6address (STRING): Printable that is a loggable representation of an IP6 address.
ifAddress (STRING): Interface address.

netinet6.nbr.dadTmr.nTntvAdr

Severity

NOTICE

Description

This message occurs when Duplicated Address Detection (DAD) Timer is called with non tentative interface address.

Corrective Action

(None).

Syslog Message

nd6_dad_timer: Called with non-tentative address %s(%s).

Parameters

    ip6address (STRING): Printable that is a loggable representation of an IP6 address.
    ifAddress (STRING): Interface address.

netinet6.nbr.dadtmr.nullPrm

Severity

    NOTICE

Description

    This message occurs when Duplicated Address Detection (DAD) timer is called and the interface address passed to it is NULL.

Corrective Action

    (None).

Syslog Message

    nd6_dad_timer: Called with null parameter.

Parameters

    (None).

netinet6.nbr.duplcte.taddr

Severity

    ALERT

Description

    This message occurs when there is a duplicate target IP6 address.

Corrective Action

    (None).

Syslog Message

    nd6_na_input: Duplicate IP6 address %s.

Parameters

    targetAddress (STRING): Printable that is a loggable representation of target IP6 address.

netinet6.nbr.duplcteSrc.addr

Severity

    INFORMATIONAL

Description

    This message occurs when there is duplicate source IP6 address.

Corrective Action

    (None).

netinet6.nbr.invld.ndOpt1

Severity

INFORMATIONAL

Description

This message occurs because of invalid Neighbor Discovery (ND)option.

Corrective Action

(None).

Syslog Message

nd6_ns_input: Invalid ND option; ignored.

Parameters

(None).

netinet6.nbr.invld.ndOpt2

Severity

INFORMATIONAL

Description

This message occurs because of an invalid Neighbour Discovery (ND) option during neighbor advertising input handling.

Corrective Action

(None).

Syslog Message

nd6_na_input: Invalid ND option; ignored.

Parameters

(None).

netinet6.nbr.invld.tgtAddr

Severity

NOTICE

Description

This message occurs during Neighbor Advertising (NA)input handling, because of invalid target address.

Corrective Action

    (None).

Syslog Message

    nd6_na_input: Invalid target address %s.

Parameters

    targetAddress (STRING): Target IP6 address.

netinet6.nbr.manl.intvtnReq

Severity

    ERROR

Description

    This message occurs when 'dad_duplicated' is called and manual intervention is required.

Corrective Action

    (None).

Syslog Message

    %s: Manual intervention required.

Parameters

    ifAddress (STRING): Interface address.

netinet6.nbr.misMth.lladrln1

Severity

    INFORMATIONAL

Description

    This message occurs when there is a lladdrlen mismatch for the specified IP6 address.

Corrective Action

    (None).

Syslog Message

    nd6_ns_input: lladdrlen mismatch for %s (if %d, NS packet %d).

Parameters

    ip6address (STRING): Printable that is a loggable representation of an IP address.
    ifAddrlen (INT): Interface address length.
    lladdrlen (INT): Address length.

netinet6.nbr.misMth.lladrln2

Severity

    INFORMATIONAL

Description

This message occurs during Neighbor Advertising (NA) input handling, when there is a lladdrlen mismatch for the specified IP6 address.

Corrective Action

(None).

Syslog Message

nd6_na_input: lladdrlen mismatch for %s (if %d, NA packet %d).

Parameters

ip6address (STRING): Printable that is a loggable representation of target IP address.
ifAddrlen (INT): Interface address length.
lladdrlen (INT): Address length.

netinet6.nbr.solAdv.mlticstd

Severity

NOTICE

Description

This message occurs during Neighbor Advertising(NA) input handling, as solicited advertising is multicast.

Corrective Action

(None).

Syslog Message

nd6_na_input: A solicited advertising is multicast.

Parameters

(None).

netinet6.nd6 events

netinet6.nd6.setmtu.small

Severity

NOTICE

Description

This message occurs when the port MTU (Maximum Transmission Unit) is set to a smaller value than the IPv6 minimum MTU of 1280. If you set the port MTU value to less than 1280, which is not recommended, IPv6 packets larger than the set value cannot be sent from or received by the controller.

Corrective Action

Use the 'broadcast-domain modify' command with the '-mtu' option to increase MTU of all ports in the domain to at least the IPv6 minimum MTU of 1280.

Syslog Message

nd6_setmtu: new port MTU '%lu' on the port '%s' is too small for IPv6.

Parameters

> **linkmtu** (LONGINT): Configured MTU value for the port.
> **ifName** (STRING): Name of the port on which the MTU is being set.

netinet6.rtr events

netinet6.rtr.high.mtu

Severity

> INFORMATIONAL

Description

> This message occurs when the Maximum Transmission Unit (MTU) size of the Router Advertisement (RA) message, sent from the specified source IPv6 address, is higher than the upper bound of the Link MTU.

Corrective Action

> (None).

Syslog Message

> nd6_ra_input: MTU option mtu=%d sent from %s; exceeds the maxmtu %d on '%s'; ignoring.

Parameters

> **mtu** (INT): MTU size.
> **ip6Address** (STRING): Printable that is a loggable representation of the source IPv6 address.
> **maxmtu** (INT): Upper bound of the Link MTU.
> **ifName** (STRING): Interface name.

netinet6.rtr.invld.ndOpt1

Severity

> INFORMATIONAL

Description

> This message occurs because of an invalid Neighbor Discovery(ND) option.

Corrective Action

> (None).

Syslog Message

> nd6_rs_input: Invalid ND option; ignored.

Parameters

> (None).

netinet6.rtr.invld.ndOpt2

Severity

> INFORMATIONAL

Description

This message occurs because of an invalid Neighbor Discovery(ND) option in the receiving Router Advertising (RA)message.

Corrective Action

(None).

Syslog Message

nd6_ra_input: Invalid ND option; ignored.

Parameters

(None).

netinet6.rtr.invld.optLength

Severity

INFORMATIONAL

Description

This message occurs because of an invalid option length for a prefix information option, when receiving a Router Advertising (RA)message. The option length must be equal to 4. This invalid option length is ignored.

Corrective Action

(None).

Syslog Message

nd6_ra_input: Invalid option length %d for prefix information option; ignored.

Parameters

optLength (INT): Option length.

netinet6.rtr.invld.prefix

Severity

INFORMATIONAL

Description

This message occurs because of an invalid prefix in the prefix information structure, when receiving Router Advertising(RA) message.

Corrective Action

(None).

Syslog Message

nd6_ra_input: Invalid prefix %s; ignored.

Parameters

prefix (STRING): Prefix.

netinet6.rtr.invld.prfxLen1

Severity

INFORMATIONAL

Description

This message occurs because of an invalid prefix length for prefix information option, when receiving Router Advertising(RA) message. The prefix length must be less than 128.

Corrective Action

(None).

Syslog Message

nd6_ra_input: Invalid prefix length %d for prefix information option; ignored.

Parameters

prfxLength (INT): Prefix length.

netinet6.rtr.low.mtu

Severity

INFORMATIONAL

Description

This message occurs when the Maximum Transmission Unit (MTU) size is lower than 1,280, which is the minimal MTU and reassembly size.

Corrective Action

(None).

Syslog Message

nd6_ra_input: MTU option mtu=%d sent from %s is less than the minimum Link MTU on '%s'; ignoring.

Parameters

mtu (INT): MTU size.
ip6Address (STRING): Printable that is a loggable representation of the source IPv6 address.
ifName (STRING): Interface name.

netinet6.rtr.misMth.lladrln1

Severity

INFORMATIONAL

Description

This message occurs when there is a lladdrlen mismatch for the specified IP6 address of the Router Solicitation (RS) packet.

Corrective Action

(None).

Syslog Message

nd6_rs_input: lladdrlen mismatch for %s (if %d, RS packet %d).

Parameters

ip6address (STRING): Printable that is a loggable representation of source IPv6 address.
ifAddrlen (INT): Interface address length.
lladdrlen (INT): Address length.

netinet6.rtr.misMth.lladrln2

Severity

INFORMATIONAL

Description

This message occurs when there is a lladdrlen mismatch for the specified IPv6 address of the Router Advertising (RA) packet.

Corrective Action

(None).

Syslog Message

nd6_ra_input: lladdrlen mismatch for %s (if %d, RA packet %d).

Parameters

ip6address (STRING): Printable that is a loggable representation of source IPv6 address.
ifAddrlen (INT): Interface address length.
lladdrlen (INT): Address length

netinet6.rtr.srcAdr.invld

Severity

NOTICE

Description

This message occurs during the validation of source address in the received Router Solicitation (RS) message, when it is found that the source address is a non-link local address.

Corrective Action

(None).

Syslog Message

nd6_ra_input: Source %s is not a link-local address.

Parameters

srcAddr (STRING): Source IPv6 address.