



## **netinet6 events**

### **ONTAP 9.12.1 EMS reference**

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# Table of Contents

- netinet6 events ..... 1
- netinet6.frag events ..... 1
- netinet6.icmp events ..... 1
- netinet6.in6 events ..... 3
- netinet6.input events ..... 4
- netinet6.mld6 events ..... 5
- netinet6.nbr events ..... 6
- netinet6.nd6 events ..... 13
- netinet6.rtr events ..... 14

# 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.srcAddr.invl

### 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).

**Syslog Message**

nd6\_ns\_input: Duplicate IP6 address %s.

**Parameters**

**srcAddress** (STRING): Printable that is a loggable representation of source IP6 address.

**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.lladrIn1****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.lladrIn2****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.invlld.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.invlld.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.lladrIn1

### Severity

INFORMATIONAL

### Description

This message occurs when there is a lladrln 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.lladrIn2

### 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.invlId

### 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.

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