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98.1 OSPF/4/ALL_NBR_FULL_EXIT

Message

OSPF/4/ALL_NBR_FULL_EXIT:OSPF [process-id] exited GR successfully.

Description

The OSPF process successfully exited from GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The OSPF process successfully exited from GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.2 OSPF/4/AUTO_CHG_RTRID

Message

OSPF/4/AUTO_CHG_RTRID: OSPF automatically changes the router ID when detecting router ID conflict in the area. (ProcessId=[USHORT], NewRouterId=[IPADDR], OldRouterId=[IPADDR], ConflictRtrIdNum=[ULONG])

Description

OSPF automatically changed the router ID when two or more same IDs were detected for a router in an area.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Process ID
NewRouterId	New ID for a router
OldRouterId	Original ID for a router
ConflictRtrIdNum	Number of conflict router IDs

Possible Causes

The same router ID was configured for at least two indirectly connected routers within one area, which caused the router LSA to be refreshed frequently. As a result, route flapping occurred.

Procedure

Step 1 If the **undo ospf router-id auto-recover disable** command is enabled by default, the system will be automatically restored after two or more same router IDs are detected.

Step 2 If the system cannot be restored automatically, change a router ID manually.

----End

98.3 OSPF/6/ADD_NBR_PRLIST_VLINK

Message

OSPF/6/ADD_NBR_PRLIST_VLINK:OSPF [process-id] adds virtual neighbor to pre-restart neighbor list. (RouterId=[IPADDR], TransitAreaId=[IPADDR], HelperVirtNbrCount=[ULONG], HelperShamLinkNbrCount=[ULONG], HelperNormalNbrCount=[ULONG])

Description

OSPF detected a pre-restart neighbor on the virtual link.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
TransitAreaid	Indicates the ID of the transit area.
HelperVirtNbrCount	Indicates the number of neighbors that establish the virtual link with the Helper.
HelperShamLinkNbrCount	Indicates the number of the sham link.
HelperNormalNbrCount	Indicates the number of normal neighbors.

Possible Causes

OSPF detected a pre-restart neighbor on the virtual link.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.4 OSPF/6/BACKUP_AFTER_CFM

Message

OSPF/6/BACKUP_AFTER_CFM:OSPF backed up data in batches after CFM.

Description

OSPF backed up the data in batches.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

OSPF received the backup invoking message from the RM.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.5 OSPF/6/BACKUP_BEFORE_CFM

Message

OSPF/6/BACKUP_BEFORE_CFM:OSPF backed up data in batches before CFM.

Description

OSPF backed up the data in batches.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

OSPF received the backup callback message from the RM.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.6 OSPF/6/BACKUP_LENGTH_ERR

Message

OSPF/6/BACKUP_LENGTH_ERR:The data length was unidentifiable in the restoration process. (Type=[STRING], Length=[USHORT])

Description

During data restoration on the SMB, the length of TLV messages cannot be recognized.

Parameters

Parameter Name	Parameter Meaning
Type	Indicates the type of the data.

Parameter Name	Parameter Meaning
Length	Indicates the length of the data.

Possible Causes

The length of TLV messages was inconsistent.

Procedure

- Step 1** Run the **display current-configuration ospf** command to check whether configurations on the AMB and SMB are the same. If so, go to Step 3; if not, go to Step 2.
- Step 2** If some commands are only used on the AMB, configure them on the SMB.
- Step 3** Contact technical support personnel.

----End

98.7 OSPF/6/BACKUP_TYPE_ERR

Message

OSPF/6/BACKUP_TYPE_ERR:The data type was unidentifiable in the restoration process. (Type=[USHORT])

Description

During data restoration on the SMB, the type of TLV messages cannot be recognized.

Parameters

Parameter Name	Parameter Meaning
Type	Indicates the type of the data.

Possible Causes

The types of TLV messages were inconsistent.

Procedure

- Step 1** Run the **display current-configuration ospf** command to check whether configurations on the AMB and SMB are the same. If so, go to Step 3; if not, go to Step 2.
- Step 2** Configure inconsistent commands on the SMB.

Step 3 Contact technical support personnel.

----End

98.8 OSPF/6/BAD_LSA

Message

OSPF/6/BAD_LSA: Received the first bad LSA within an interval of 15 minutes.
(**ErrorType**=[STRING], **ErrorInformation**=[STRING], **ProcessId**=[USHORT],
InterfaceName=[STRING], **LsaType**=[USHORT], **AdvertisingRouter**=[IPADDR],
LinkStatId=[IPADDR], **Count**=[ULONG], **LsaContent**=[STRING])

Description

The first incorrect LSA was received within 15 minutes. Each packet error type has a specific suppression measure, and suppression measures do not affect each other.

Parameters

Parameter Name	Parameter Meaning
ErrorType	Packet error type
ErrorInformation	Key packet error information
ProcessId	Process ID
InterfaceName	Interface name
LsaType	LSA type
AdvertisingRouter	LSA advertising router
LinkStatId	Link state ID
Count	Number of error packets (The number is reset after being displayed. This means that the number of incorrect packets displayed in the log only indicates the number of incorrect packets generated since the last time the number of incorrect packets was displayed.)
LsaContent	LSA contents, in the hexadecimal format.

Possible Causes

This log is displayed if the router receives an incorrect LSA (for example, the checksum of the LSA is incorrect). Incorrect LSAs of the same type are suppressed for 15 minutes.

Procedure

Step 1 Check the device that sends the incorrect LSAs.

Step 2 Contact technical support personnel.

----End

98.9 OSPF/4/CHG_LSA_HELPER_FAIL

Message

OSPF/4/CHG_LSA_HELPER_FAIL:OSPF [process-id] can not enter helper mode, changed LSA in retransmission list for restarting neighbor [neighbor-ip-address].

Description

OSPF cannot enter the helper mode because the LSA was changed in the retransmission list of the restarting neighbor.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-ip-address]	Indicates the IP address of an interface.

Possible Causes

OSPF cannot enter the helper mode because the LSA was changed in the retransmission list of the restarting neighbor.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.10 OSPF/4/CONFLICT_IP_ADDRESS

Message

OSPF/4/CONFLICT_IP_ADDRESS: OSPF interface IP address conflict is detected on intra-area. (ProcessId=[USHORT], RouterId=[IPADDR], Areaid=[IPADDR], InterfaceName=[STRING], IpAddr=[IPADDR], AdvertiseRouterId=[IPADDR])

Description

Conflicting interface addresses were detected in an OSPF area.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of a process.
RouterId	Indicates the router ID of a device.
AreaId	Indicates the ID of an area.
InterfaceName	Indicates the name of an interface.
IpAddr	Indicates an IP address.
AdvertiseRouterId	Indicates the ID of the advertising router.

Possible Causes

Two indirectly connected routers in an area were configured with the same IP address, and one of the routers functioned as the DR and advertised network LSAs, causing constant route flapping.

Procedure

Step 1 Modify the IP addresses of the routers to ensure that each router in the area is configured with a unique IP address.

----End

98.11 OSPF/6/CONFLICT_ROUTERID_INTER

Message

OSPF/6/CONFLICT_ROUTERID_INTER: OSPF Router id conflict maybe occur on inter-area. (ProcessId=[USHORT], RouterId=[IPADDR])

Description

The router IDs of OSPF devices in different areas might conflict because external routes were constantly refreshed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of a process.
RouterId	Indicates the ID of a router.

Possible Causes

The same router ID was configured for devices in different areas, causing route flapping.

This log is generated in the following scenarios:

- **Normal scenario:** Device A generates a Type 5 LSA and floods it to Device B. Due to a fault, Device A restarts and reestablishes the neighbor relationship with Device B. Then, Device A receives the Type 5 LSA generated by itself from Device B. Because the router ID in the LSA conflicts with the local one, the log is generated. A large number of Type 5 LSAs may exist in the system. Therefore, this scenario is common. The log generated in this scenario requires no action.
- **Conflict scenario:** The same router ID is configured for devices in different areas, causing route flapping.

Procedure

Step 1 Run the **ospf router-id *router-id*** command to change the router ID.

Step 2 End.

----End

98.12 OSPF/4/CONFLICT_ROUTERID_INTF

Message

OSPF/4/CONFLICT_ROUTERID_INTF: OSPF Router id conflict is detected on interface. (ProcessId=[USHORT], RouterId=[IPADDR], AreaId=[IPADDR], InterfaceName=[STRING], IpAddr=[IPADDR], PacketSrcIp=[IPADDR])

Description

A router ID conflict was detected on an OSPF interface.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of a process.
RouterId	Indicates the ID of a router.
AreaId	Indicates the ID of an area.
InterfaceName	Indicates the name of an interface.
IpAddr	Indicates an IP address.

Parameter Name	Parameter Meaning
PacketSrcIp	Indicates the source address of a packet.

Possible Causes

- Cause 1: The router IDs of directly connected interfaces conflicted.
- Cause 2: Due to a routing loop on the network, the OSPF routes advertised by the local device are learned by the local OSPF process again, causing a router ID conflict.

Procedure

Step 1 Cause1: Run the **ospf router-id *router-id*** command to change the router ID.

Step 2 Cause2: Rectify the configuration of the network device that causes the routing loop to break the routing loop.

Step 3 End.

----End

98.13 OSPF/4/CONFLICT_ROUTERID_INTRA

Message

OSPF/4/CONFLICT_ROUTERID_INTRA:OSPF Router id conflict is detected on intra-area. (ProcessId=[USHORT], RouterId=[IPADDR], AreaId=[IPADDR], NbrInterfaceIp1=[IPADDR], NbrInterfaceIp2=[IPADDR])

Description

A router ID conflict was detected in an OSPF area.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of a process.
RouterId	Indicates the router ID of a router.
AreaId	Indicates the ID of an area.
NbrInterfaceIp1	Indicates the IP address of the neighbor's interface.
NbrInterfaceIp2	Indicates the IP address of the neighbor's interface.

Possible Causes

At least two indirectly routers were configured with the same router ID, causing router LSAs to be constantly refreshed. As a result, route flapping occurs.

Procedure

Step 1 Run the **ospf router-id *router-id*** command to change the router ID.

Step 2 End.

----End

98.14 OSPF/6/DEL_NBR_PRLIST

Message

OSPF/6/DEL_NBR_PRLIST:OSPF [process-id] deletes neighbor from pre-restart neighbor list. (RouterId=[IPADDR], IpAddress=[IPADDR], HelperVirtNbrCount=[ULONG], HelperShamLinkNbrCount=[ULONG], HelperNormalNbrCount=[ULONG])

Description

The OSPF process deleted the neighbor from the pre-restart neighbor list.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of the neighboring router.
IpAddress	Indicates the IP address of the interface performing GR on the local router.
HelperVirtNbrCount	Indicates the number of virtual-link neighbors functioning as GR Helpers.
HelperShamLinkNbrCount	Indicates the number of shame-link neighbors functioning as GR Helpers.
HelperNormalNbrCount	Indicates the number of normal neighbors functioning as GR Helpers.

Possible Causes

For a GR Restarter, when the status of the neighbor relationship between the Restarter and the Helper is Full, its Helper neighbors are deleted from the pre-restart neighbor list.

For a partly GR Restarter, when it fails to perform GR and exits from GR, all the Helper neighbors of this Restarter are deleted from the pre-restart neighbor list.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.15 OSPF/4/ENTER_HELPER_MODE

Message

OSPF/4/ENTER_HELPER_MODE:OSPF [process-id] neighbor [neighbor-information] enters helper on interface [interface-ip-address].

Description

The OSPF neighbor entered the helper mode.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-information]	Indicates the IP address of an interface.
[interface-ip-address]	Indicates the IP address of a neighbor.

Possible Causes

The OSPF process on the interface entered the helper mode.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.16 OSPF/6/FINISH_ADD_NSSA

Message

OSPF/6/FINISH_ADD_NSSA:OSPF [process-id] finished flooding of NSSA LSAs.



Only the AR6300 series support NSR.

Description

The helper received a 1-way Hello packet from the neighbor and then discarded the packet.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

OSPF needs to flood NSSA LSAs before the partial GR finishes.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.17 OSPF/6/FLSH_STL_AS_LSA

Message

OSPF/6/FLSH_STL_AS_LSA:Finish flushing stale As-external-LSAs and NSSA LSAs.
(ProcessId=[USHORT])

Description

Finished discarding stale AS-external-LSAs and NSSA LSAs.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.

Possible Causes

Stale AS-external-LSAs and NSSA LSAs were discarded.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.18 OSPF/6/FLUSH_STAL_AREA_LSA

Message

OSPF/6/FLUSH_STAL_AREA_LSA:Flush stale area LSAs. (ProcessId=[USHORT])

Description

Started to discard stale area LSAs.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.

Possible Causes

Stale area LSAs were discarded.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.19 OSPF/6/GR_ADD_NBR_PRLIST

Message

OSPF/6/GR_ADD_NBR_PRLIST:OSPF [process-id] adds neighbor to pre-restart neighbor list. (RouterId=[IPADDR], IPAddress=[IPADDR], HelperVirtNbrCount=[ULONG], HelperShamLinkNbrCount=[ULONG], HelperNormalNbrCount=[ULONG])

Description

The OSPF process added the neighbor to the pre-restart neighbor list.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of the OSPF process.
RouterId	Indicates the ID of the neighboring router.
IpAddress	Indicates the IP address of the interface performing GR on the local router.
HelperVirtNbrCount	Indicates the number of virtual-link neighbors functioning as GR Helpers.
HelperShamLinkNbrCount	Indicates the number of shame-link neighbors functioning as GR Helpers.
HelperNormalNbrCount	Indicates the number of normal neighbors functioning as GR Helpers.

Possible Causes

The OSPF process added the neighbor to the pre-restart neighbor list.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.20 OSPF/4/GR_END_SUCCESS

Message

OSPF/4/GR_END_SUCCESS:OSPF [process-id] GR period expired. Exit GR successfully as pre-restart neighbor list being empty.

Description

GR period expired. Succeeded in exiting from GR because the pre-restarted neighbor list was empty.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

Succeeded in exiting from GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.21 OSPF/3/GR_EXIT_GR_UNSU

Message

OSPF/3/GR_EXIT_GR_UNSU:OSPF [process-id] exited GR Unsuccessfully.

Description

The OSPF process failed to exit from GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The OSPF process failed to exit from GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.22 OSPF/4/GR_EXIT_HLP_SU

Message

OSPF/4/GR_EXIT_HLP_SU:OSPF [process-id] neighbor [neighbor-information] exits helper successfully on interface [interface-ip-address].

Description

The OSPF neighbor successfully exited from GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-information]	Indicates the IP address of an interface.
[interface-ip-address]	Indicates the IP address of a neighbor.

Possible Causes

The OSPF process successfully exited from GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.23 OSPF/3/GR_IF_CHANGE

Message

OSPF/3/GR_IF_CHANGE:OSPF [process-id] exited GR mode as interface status changed. (InterfaceName=[STRING], IpAddress=[IPADDR])

Description

The OSPF process exited from GR because the interface status changed.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
InterfaceName	Indicates the name of interface.
IpAddress	Indicates the IP address.

Possible Causes

The OSPF process exited from GR because the interface status changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.24 OSPF/4/GR_NOTIFYRM_EXIT_GR

Message

OSPF/4/GR_NOTIFYRM_EXIT_GR:OSPF [process-id] notified that RM process exited GR.

Description

The OSPF exited from GR and instructed RM to exit from GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The OSPF exited from GR and instructed RM to exit from GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.25 OSPF/4/HLP_EXIT_RECV_LSA

Message

OSPF/4/HLP_EXIT_RECV_LSA:OSPF [process-id] exits the helper mode because flooding received changed LSA. (InterfaceName=[STRING], LsaType=[USHORT], AdvertisingRouter=[IPADDR], LinkId=[IPADDR]).

Description

The OSPF process exited from the helper mode after receiving changed LSAs.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
InterfaceName	Indicates the name of an interface.
LsaType	Indicates the type of an LSA.
AdvertisingRouter	Indicates the advertising router.
LinkId	Indicates the ID of the link.

Possible Causes

The topology changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.26 OSPF/6/IF_CHG_E

Message

OSPF/6/IF_CHG_E:Interface [interface-address] received event [interface-event], interface state changed from [interface-previous-state] to [interface-current-state]. (ProcessId=[process-id])

Description

The interface status changed.

Parameters

Parameter Name	Parameter Meaning
[interface-address]	indicates the IP address of a neighbor.
[interface-event]	Indicates the events on the interface.
[interface-previous-state]	Indicates the previous status of the interface.
[interface-current-state]	Indicates the current status of the interface.
ProcessId	Indicates the ID of an OSPF process.

Possible Causes

The interface status changed.

Procedure

Step 1 Run the **display ospf interface** command to check status of the interface.

Step 2 Contact technical support personnel.

----End

98.27 OSPF/6/IF_TYPE_CHG

Message

OSPF/6/IF_TYPE_CHG:Physical interface type changed. (InterfaceName=[STRING], InterfaceIndex=[STRING], PreviousPhysicalInterfaceType=[ULONG], CurrentPhysicalInterfaceType=[ULONG])

Description

Information on the OSPF physical interface changed.

Parameters

Parameter Name	Parameter Meaning
InterfaceName	Indicates the name of an interface.

Parameter Name	Parameter Meaning
InterfaceIndex	Indicates the index of an interface.
PreviousPhysicalInterfaceType	Indicates the previous physical type of an interface.
CurrentPhysicalInterfaceType	Indicates the current physical type of an interface.

Possible Causes

The type of the physical interface changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.28 OSPF/3/INTF_EXIT_HLP_FAIL

Message

OSPF/3/INTF_EXIT_HLP_FAIL:OSPF [process-id] exiting interface level helper mode unsuccessfully for Interface [interface-ip-address] due to [neighbor-information].

Description

The OSPF interface failed to exit from the interface-level helper mode.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[interface-ip-address]	Indicates the IP address of an interface.
[neighbor-information]	Indicates the information of a neighbor.

Possible Causes

The OSPF interface failed to exit from the interface-level helper mode.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.29 OSPF/6/ISSU_SMB_CMD_ERR

Message

OSPF/6/ISSU_SMB_CMD_ERR:The SMB failed to run Command ([command]).

Description

Failed to run the command on the SMB.

Parameters

Parameter Name	Parameter Meaning
[command]	Indicates the command fails to be run.

Possible Causes

Failed to run the command on the SMB.

Procedure

Step 1 Run the **display current-configuration ospf** command to check whether configurations on the AMB and SMB are the same. If so, go to Step 3; if not, go to Step 2.

Step 2 If some commands are only used on the AMB, configure them on the SMB.

Step 3 Contact technical support personnel.

----End

98.30 OSPF/3/ISSU_SMOOTH_ACROSS

Message

OSPF/3/ISSU_SMOOTH_ACROSS:The OSPF backup module received the ISSU_SMOOTH_ACROSS event from the ISSU management module.

Description

The message that recorded the ISSU_SMOOTH_ACROSS event was received during the OSPF ISSU upgrade.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

The message that recorded the ISSU_SMOOTH_ACROSS event was received during the ISSU backup.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.31 OSPF/3/ISSU_SMOOTH_INSIDE

Message

OSPF/3/ISSU_SMOOTH_INSIDE:The OSPF backup module received the ISSU_SMOOTH_INSIDE event from the ISSU management module.

Description

The message that recorded the ISSU_SMOOTH_INSIDE event was received during the OSPF ISSU upgrade.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

The message that recorded the ISSU_SMOOTH_INSIDE event was received during the ISSU backup.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.32 OSPF/3/ISSU_SMOOTH_OVER

Message

OSPF/3/ISSU_SMOOTH_OVER:The OSPF backup module received the ISSU_SMOOTH_OVER event from the ISSU management module.

Description

The message that recorded the ISSU_SMOOTH_OVER event was received during the OSPF ISSU upgrade.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

The message that recorded the ISSU_SMOOTH_OVER event was received during the ISSU backup.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.33 OSPF/6/JOIN_MULGRP_FAIL

Message

OSPF/6/JOIN_MULGRP_FAIL:Failed to join the multicast group. (MulticastGroupAddress=[IPADDR], ReturnValue=[STRING], InterfaceNetworkIndex=[ULONG], PhysicalIndex=[ULONG], InterfaceName=[STRING])

Description

The OSPF interface failed to join the multicast group.

Parameters

Parameter Name	Parameter Meaning
Multicast group address	Indicates the multicast group address.
ReturnValue	Indicates the returned value.

Parameter Name	Parameter Meaning
InterfaceNetworkIndex	Indicates the index of the network where an interface resides.
PhysicalIndex	Indicates the index of a physical interface.
InterfaceName	Indicates the name of an interface.

Possible Causes

Failed to add an interface to the multicast group.

Procedure

Step 1 Check whether the multicast function on the interface was available.

----End

98.34 OSPF/5/LSA_CHANGE_FREQUENT

Message

OSPF/5/LSA_CHANGE_FREQUENT: LSAs change frequently now.
(ProcessId=[USHORT], AdvertiseRouterId=[IPADDR], TotalCount=[ULONG],
BeginTime=[STRING], EndTime=[STRING], Type-1LsaCount=[ULONG],
Type-2LsaCount=[ULONG], Type-3LsaCount=[ULONG], Type-4LsaCount=[ULONG],
Type-5LsaCount=[ULONG], Type-7LsaCount=[ULONG], Type-9LsaCount=[ULONG],
Type-10LsaCount=[ULONG], Type-11LsaCount=[ULONG])

Description

LSAs were frequently updated.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Process ID
AdvertiseRouterId	Advertising router ID
TotalCount	Total number of LSA updates
BeginTime	Begin time for counting
EndTime	End time for counting
Type-1LsaCount	Number of updates for a router LSA
Type-2LsaCount	Number of updates for a network LSA
Type-3LsaCount	Number of updates for a summary-network LSA

Parameter Name	Parameter Meaning
Type-4LsaCount	Number of updates for a summary-ASBR LSA
Type-5LsaCount	Number of updates for an ASE LSA
Type-7LsaCount	Number of updates for type-7 LSA
Type-9LsaCount	Number of updates for type-9 LSA
Type-10LsaCount	Number of updates for type-10 LSA
Type-11LsaCount	Number of updates for type-11 LSA

Possible Causes

An advertising router calculated the number of updates for LSAs and the results were recorded once an hour. Select the top 10 history records based on the number of updates for LSAs. The total number of updates for LSAs exceeded 100.

Procedure

Step 1 This trap message is informational only, and no action is required.

----End

98.35 OSPF/6/LDP_INIT_EVENT

Message

OSPF/6/LDP_INIT_EVENT:Interface [interface-name] initial LDP synchronization state [initial-state].

Description

The initial LDP synchronization state is recorded in this log message.

Parameters

Parameter Name	Parameter Meaning
[interface-name]	Indicates the name of an interface.
[initial-state]	Indicates the initial LDP synchronization state.

Possible Causes

The LDP synchronization is initialized.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.36 OSPF/6/LDP_SYNC_CREA

Message

OSPF/6/LDP_SYNC_CREA:Interface [STRING] LDP synchronization hold maximum cost timer created.

Description

The LDP synchronization hold max cost timer was created.

Parameters

Parameter Name	Parameter Meaning
[STRING]	Indicates the name of an interface.

Possible Causes

The LDP synchronization hold max cost timer was created.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.37 OSPF/6/LDP_SYNC_EVENT

Message

OSPF/6/LDP_SYNC_EVENT:Interface [interface-name] received [ldp-synchronization-message] from RM, LDP synchronization state [previous-state] change to [current-state].

Description

The LDP synchronization state changed.

Parameters

Parameter Name	Parameter Meaning
[interface-name]	Indicates the name of an interface.

Parameter Name	Parameter Meaning
[ldp-synchronization-message]	Indicates an LDP synchronization message.
[previous-state]	Indicates the previous status of the local device.
[current-state]	Indicates the current status of the local device.

Possible Causes

The LDP synchronization state changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.38 OSPF/6/LDP_SYNC_FIRE

Message

OSPF/6/LDP_SYNC_FIRE:Interface [interface-name] LDP synchronization hold maximum cost timer expired.

Description

LDP synchronization hold max cost timer timed out.

Parameters

Parameter Name	Parameter Meaning
[interface-name]	Indicates the name of an interface.

Possible Causes

The hold max cost timer timed out.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.39 OSPF/6/LEAVE_MULGRP_FAIL

Message

OSPF/6/LEAVE_MULGRP_FAIL:Failed to leave the multicast group.
(MulticastGroupAddress=[IPADDR], ReturnValue=[STRING],
InterfaceNetworkIndex=[ULONG], PhysicalIndex=[ULONG],
InterfaceName=[STRING])

Description

The OSPF interface failed to leave the multicast group.

Parameters

Parameter Name	Parameter Meaning
MulticastGroupAddress	Indicates the multicast group address.
ReturnValue	Indicates the returned value.
InterfaceNetworkIndex	Indicates the index of the network where an interface resides.
PhysicalIndex	Indicates the index of a physical interface.
InterfaceName	Indicates the name of an interface.

Possible Causes

The interface failed to leave the multicast group.

Procedure

Step 1 Check whether the multicast function on the interface was available.

----End

98.40 OSPF/4/NBR_CHANGE_E

Message

OSPF/4/NBR_CHANGE_E:Neighbor changes event: neighbor status changed.
(ProcessId=[process-id], NeighborAddress=[neighbor-address],
NeighborEvent=[neighbor-event], NeighborPreviousState=[neighbor-previous-state],
NeighborCurrentState=[neighbor-current-state])

Description

The neighbor status changed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
NeighborAddress	Indicates the IP address of a neighbor.
NeighborEvent	Indicates the neighbor event.
NeighborPreviousState	Indicates the previous status of a neighbor.
NeighborCurrentState	Indicates the current status of a neighbor.

Possible Causes

The neighbor status changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.41 OSPF/3/NBR_DOWN_REASON

Message

OSPF/3/NBR_DOWN_REASON:Neighbor state leaves full or changed to Down.
(ProcessId=[USHORT], NeighborRouterId=[IPADDR], NeighborAreaId=[ULONG],
NeighborInterface=[STRING], NeighborDownImmediate reason=[STRING],
NeighborDownPrimeReason=[STRING], NeighborChangeTime=[STRING])

Description

The neighbor went Down.

Parameters

Parameter Name	Parameter Meaning
ProcessId	ID of an OSPF process
NeighborRouterId	ID of a neighbor
NeighborAreaId	IP address of an area
NeighborInterface	Neighbor's interface

Parameter Name	Parameter Meaning
NeighborDownImmediate reason	<p>Direct cause for the OSPF neighbor to go Down:</p> <ul style="list-style-type: none">• Neighbor Down Due to Inactivity: indicates that no Hello packet is received from the OSPF neighbor within the dead time.• Neighbor Down Due to LL Down LLDown: indicates that no LLD packet is received from the OSPF neighbor within the dead time.• Neighbor Down Due to Kill Neighbor: indicates that the interface is Down, the BFD session is Down, or the reset ospf process command is run. To check the detailed cause, see the NeighborDownPrimeReason field.• Neighbor Down Due to 1-WayHello Received or Neighbor Down Due to SequenceNum Mismatch: indicates that the remote end sends a 1-Way Hello packet to the local end after the OSPF status is Down on the remote end, causing the OSPF status on the local end to go Down.• Neighbor Down Due to AdjOK?: indicates that the AdjOK event times out.• Neighbor Down Due to BadLSreq: indicates that the BadLSReq event times out in the neighbor state machine.

Parameter Name	Parameter Meaning
NeighborDownPrimeReason	<p>Primary reason that the neighbor goes Down:</p> <ul style="list-style-type: none">• Hello Not Seen: indicates that no Hello packet is received.• Interface Parameter Mismatch: indicates that the parameters set on both ends of the link do not match.• Logical Interface State Change: indicates that the status of the logical interface changes.• Physical Interface State Change: indicates that the status of the physical interface changes.• OSPF Process Reset: indicates that the OSPF process restarts.• Area reset: indicates that the area restarts because the area type changes.• Area Option Mis-match: indicates that the area options of the interfaces on both ends of the link do not match.• Vlink Peer Not Reachable: indicates that the neighbor on the virtual link is not reachable.• Sham-Link Unreachable: indicates that the neighbor on the sham link is not reachable.• Undo Network Command: indicates that the network command is deleted.• Undo NBMA Peer: indicates that the neighbor configuration on the NBMA interface is deleted.• Passive Interface Down: indicates that the neighbor relationship goes Down because the silent-interface command is configured on the local interface.• Opaque Capability Enabled: indicates that Opaque capability is enabled.• Opaque Capability Disabled: indicates that Opaque capability is disabled.

Parameter Name	Parameter Meaning
	<ul style="list-style-type: none">Virtual Interface State Change: indicates that the status of a virtual link interface changes.BFD Session Down: indicates that the BFD session goes Down.Down Retransmission Limit Exceed: indicates that the number of retransmission times reaches the limit.1-Wayhello Received: indicates that the device receives 1-way hello packets.Router State Change from DR or BDR to DROTHER: indicates that the interface state machine changes to DROTHER from DR or BDR.Neighbor State Change from DR or BDR to DROTHER: indicates that the neighbor state machine changes to DROTHER from DR or BDR.NSSA Area Configure Change: indicates that the configuration of the NSSA area changes.Stub Area Configure Change: indicates that the configuration of the Stub area changes.Received Invalid DD Packet: indicates that invalid DD packets are received.Not Received DD during RouterDeadInterval: indicates that no DD packet is received during the time when the Dead timer starts.M,I,MS bit or SequenceNum Incorrect: indicates that the M, I, and MS bits do not comply with specifications in the protocol.Unable Opaque Capability,Find 9,10,11 Type Lsa: indicates that Type9, Type10, and Type11 LSAs are received and that Opaque capability is disabled.Not NSSA,Find 7 Type Lsa in Summary List: indicates that this area is not an NSSA and that Type 7 LSAs are found in the summary table.

Parameter Name	Parameter Meaning
	<ul style="list-style-type: none">• LSrequest Packet,Unknown Reason: indicates that LSR packets are received with an unknown reason.• NSSA or STUB Area,Find 5 ,11 Type Lsa: indicates that this area is an NSSA or a Stub area and that Type 5 and Type11 LSAs are found.• LSrequest Packet,Request Lsa is Not in the Lsdb: indicates that the neighbor sends an LSR to this process or area to request an LSA and that this LSA does not exist in the LSDB of this process.• LSrequest Packet, exist same lsa in the Lsdb: indicates that this process receives an LSA that is same as that in the LSDB and that the LSA is found in the request list of the neighbor.• LSrequest Packet, exist newer lsa in the Lsdb: indicates that this process receives a new LSA that exists in the local LSDB and that the LSA is found in the request list of the neighbor.• Neighbor state was not full when LSDB overflow: indicates that the LSDB overflows and that the neighbor state machine is not Full.• Filter LSA configuration change: indicates that the configuration of LSA filter changes.• ACL changed for Filter LSA: indicates that the ACL configuration of LSA filter changes.• Reset Ospf Peer: indicates that the OSPF neighbor is restarted.
NeighborChangeTime	Time when the neighbor status changed

Possible Causes

The neighbor status changed because the neighbor received an OSPF message or an event affecting the neighbor relationship occurred.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.42 OSPF/4/NOTIFYRM_ENTER_GR

Message

OSPF/4/NOTIFYRM_ENTER_GR:OSPF [process-id] notified RM that it started GR.

Description

OSPF notified RM that it started GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

OSPF started GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.43 OSPF/6/NSSA_STATE_ELECT

Message

OSPF/6/NSSA_STATE_ELECT:The status of the NSSA translator is set to [STRING].
(ProcessId=[USHORT], Areald=[IPADDR])

Description

The state of the Not-So-Stubby Area (NSSA) translator was set to elected, enable, or disable.

Parameters

Parameter Name	Parameter Meaning
[STRING]	The state of the Not-So-Stubby Area (NSSA) translator was set to elected, enable, or disable.
Process ID	Indicates the ID of an OSPF process.
Area ID	Indicates the ID of an area.

Possible Causes

A router was elected as the translator in the NSSA.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.44 OSPF/6/ONE_IF_EXIT_WAITING

Message

OSPF/6/ONE_IF_EXIT_WAITING:OSPF [process-id] Interface [interface-name] exits waiting state, interface in waiting state count is [waiting-state-count].

Description

The OSPF interface exited from the Waiting state, and the number of interfaces in the Waiting state is X.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[Interface-name]	Indicates the name of an interface.
[waiting-state-count]	Indicates the number of nodes in the Waiting state.

Possible Causes

The OSPF process finished GR with the neighbor on the sham link.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.45 OSPF/4/ONEIF_ENTER_WAITING

Message

OSPF/4/ONEIF_ENTER_WAITING:OSPF [process-id] interface [interface-name] enters waiting state, waiting state count is [interface-in-waiting-state-number].

Description

The interface entered the Waiting state. The number of the interfaces in the Waiting state is recorded in this log.

Parameters

Parameter Name	Parameter Meaning
[interface-name]	Indicates the name of an interface.
[interface-in-waiting-state-number]	Indicates the number of the interfaces that enter the Waiting state.
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The interface received the Hello packet or the Waiting timer timed out.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.46 OSPF/4/OSPF_NBR_REACH_LIMIT_E

Message

OSPF/4/OSPF_NBR_REACH_LIMIT_E: The number of OSPFv2 peers in single process has reached the upper limit. (ProcessId=[USHORT], PeerCount=[UINT32])

Description

The number of OSPFv2 single-process neighbors reached the upper limit.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Process ID
PeerCount	Number of existing neighbors

Possible Causes

The number of OSPFv2 single-process neighbors reached the upper limit.

Procedure

Step 1 Run the **display ospf peer** command to check the number of OSPFv2 neighbors in the process.

- If the number of OSPFv2 neighbors in the process has reached the upper limit, delete some OSPFv2 neighbors of the process so that the number of neighbors falls below the upper limit.
- If the number of OSPFv2 neighbors in the process has not reached the upper limit, go to Step 2.

Step 2 Please contact technical support personnel.

----End

98.47 OSPF/3/PAF_TYPE_LOSS_ISSU

Message

OSPF/3/PAF_TYPE_LOSS_ISSU:OSPF performs lossy upgrade because of the inconsistent PAF [paf] file.

Description

A PAF item that affected the upgrade was detected during the OSPF ISSU upgrade.

Parameters

Parameter Name	Parameter Meaning
[paf]	Indicates a configuration item in the PAF file.

Possible Causes

The inconsistent PAF configuration item was detected during the ISSU checking.

Procedure

Step 1 Record PAF items that affect system upgrade and contact technical support personnel.

----End

98.48 OSPF/4/PEER_FLAPPING_SUPPRESS

Message

OSPF/4/PEER_FLAPPING_SUPPRESS: The status of peer flapping suppress is changed.(ProcessId=[USHORT], Areald=[IPADDR], ifName=[STRING], SuppressPreviousStatus=[STRING], SuppressCurrentStatus=[STRING])

Description

The status of OSPF neighbor relationship flapping suppression changed on the local interface.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Process ID
Areald	Area ID
ifName	Interface name
SuppressPreviousStatus	Suppression previous status
SuppressCurrentStatus	Suppression current status

Possible Causes

OSPF neighbor relationship flapping suppression started on the local interface, or the interface exited from the suppression.

Procedure

Step 1 Check whether frequent interface flapping occurs.

- If frequent interface flapping occurs, this trap message is informational only and no action is required.
- If no frequent interface flapping occurs, go to Step 2.

Step 2 Run the **reset ospf process-id suppress-flapping peer** [*interface-type interface-number*] [**notify-peer**] command to force the interface to exit from OSPF neighbor relationship flapping suppression.

Step 3 End.

----End

98.49 OSPF/4/RECV_DIFF_GRACE_LSA

Message

OSPF/4/RECV_DIFF_GRACE_LSA:OSPF [process-id] receives a grace LSA different from the one in LSDB on interface [interface-ip-address].

Description

The interface received a Grace LSA during GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[interface-ip-address]	Indicates the IP address of a neighbor.

Possible Causes

When performing GR, the restarter received a grace LSA different from the one in the LSDB from the other router or the helper received a grace LSA different from the one in the LSDB from its neighbor router.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.50 OSPF/4/RECV_FIRST_GLSA

Message

OSPF/4/RECV_FIRST_GLSA:OSPF [process-id] attempted to enter helper mode and received first grace LSA from neighbor [neighbor-ip-address], on interface [interface-ip-address].

Description

The helper received a grace LSA from the restarter.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-ip-address]	Indicates the IP address of an interface.
[interface-ip-address]	Indicates the IP address of a neighbor.

Possible Causes

The restarter wanted to perform GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.51 OSPF/6/RECV_SMB_DOWN_RM

Message

OSPF/6/RECV_SMB_DOWN_RM:OSPF backup receives slave mainboard Down event from RM. (SlaveHsbState=[ULONG])

Description

OSPF backed up the message received from the RM. The message notified that data smooth finished.

Parameters

Parameter Name	Parameter Meaning
SlaveHsbState	Indicates the hot standby state of the slave board.

Possible Causes

OSPF backed up the message received from the RM. The message notified that data smooth finished.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.52 OSPF/6/RECV_SMOOTH_OVER_RM

Message

OSPF/6/RECV_SMOOTH_OVER_RM:OSPF backup receives smooth over event from RM. (SlaveHsbState=[ULONG])

Description

OSPF backed up the synchronization-cross event received from the RM.

Parameters

Parameter Name	Parameter Meaning
SlaveHsbState	Indicates the hot standby state of the slave board.

Possible Causes

OSPF backed up the synchronization-cross messages received from the RM.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.53 OSPF/6/RECV_SWITCH_RM

Message

OSPF/6/RECV_SWITCH_RM:OSPF backup receives switch event from RM. (SlaveHsbState=[ULONG])

Description

OSPF backed up the event received from the RM. The message notified that the slave board was Down.

Parameters

Parameter Name	Parameter Meaning
SlaveHsbState	Indicates the hot standby state of the slave board.

Possible Causes

OSPF backed up the message received from the RM. The message notified that the slave board was Down.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.54 OSPF/6/RECV_SYNC_ACROSS_RM

Message

OSPF/6/RECV_SYNC_ACROSS_RM:OSPF backup receives synchronization across event from RM. (SlaveHsbState=[ULONG])

Description

RM returned an error code.

Parameters

Parameter Name	Parameter Meaning
SlaveHsbState	Indicates the hot standby state of the slave board.

Possible Causes

RM returned an error code.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.55 OSPF/6/RESET_SCHEDULE

Message

OSPF/6/RESET_SCHEDULE:OSPF [USHORT] reset schedule table.
(ScheduleType=[STRING])

Description

OSPF reset the schedule table.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Indicates the OSPF process.
ScheduleType	Indicates the schedule type.

Possible Causes

OSPF reset the schedule table.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.56 OSPF/6/RESTORE_AFTER_CFM

Message

OSPF/6/RESTORE_AFTER_CFM:OSPF restored data in batches after CFM.

Description

OSPF started to restore the data in batches.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

OSPF received the backup invoking message from the RM.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.57 OSPF/6/RESTORE_BEFORE_CFM

Message

OSPF/6/RESTORE_BEFORE_CFM:OSPF restored data in batches before CFM.

Description

OSPF started to restore data in batches before the data was restored by using command lines.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

OSPF received the backup invoking message from the RM.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.58 OSPF/6/RM_GETROUTERID

Message

OSPF/6/RM_GETROUTERID:Invoking the RM GetRouterID failed. (FID=[STRING], LN=[ULONG], ReturnValue=[STRING])

Description

Failed to invoke the RM GetRouterID.

Parameters

Parameter Name	Parameter Meaning
FID	Indicates the ID of a file.
LN	Indicates the row ID.
ReturnValue	Indicates the returned value.

Possible Causes

Failed to invoke the RM GetRouterID.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.59 OSPF/6/RM_IM

Message

OSPF/6/RM_IM:Invoking the RM IM failed. (FID=[STRING], LN=[ULONG],
ReturnValue=[STRING])

Description

Failed to invoke the RM IM.

Parameters

Parameter Name	Parameter Meaning
FID	Indicates the ID of a file.
LN	Indicates the row ID.
ReturnValue	Indicates the returned value.

Possible Causes

Failed to invoke the RM IM.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.60 OSPF/4/RST_NBR_IN_PTIAL_GR

Message

OSPF/4/RST_NBR_IN_PTIAL_GR:OSPF [process-id] entered the partial GR mode
and exited GR for neighbor [neighbor-information] on [network-type] interface
[interface-name].

Description

The OSPF process entered the partial GR mode and exited GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-information]	Indicates the IP address of a neighbor.

Parameter Name	Parameter Meaning
[network-type]	Indicates the type of a network.
[Interface-name]	Indicates the name of an interface.

Possible Causes

The OSPF process entered the partial GR mode and exited GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.61 OSPF/4/RTRLSA_BACKLINK_FAIL

Message

OSPF/4/RTRLSA_BACKLINK_FAIL:OSPF [process-id] exits GR mode as Back link checking failed on neighbor [neighbor-ip-address], on interface [interface-name].

Description

The OSPF process exited from GR after the back link check of the LSA received from the neighbor failed.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-ip-address]	Indicates the IP address of a neighbor.
[interface-name]	Indicates the name of an interface.

Possible Causes

The topology changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.62 OSPF/4/SHAMLINK_NBR_CHG_E

Message

OSPF/4/SHAMLINK_NBR_CHG_E:Shamlink peer event: neighbor status changed.
(ProcessId=[USHORT], ShamlinkNeighborAddress=[IPADDR],
NeighborEvent=[STRING], NeighborPreviousState=[STRING],
NeighborCurrentState=[STRING])

Description

The status of the neighboring node on the sham link changed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
ShamlinkNeighborAddress	Indicates the IP addresses of neighboring nodes on the sham link.
NeighborEvent	Indicates the events received by the neighboring node.
NeighborPreviousState	Indicates the previous status of the neighboring node.
NeighborCurrentState	Indicates the current status of the neighboring node.

Possible Causes

The status of the neighboring node on the sham link changed.

Procedure

Step 1 Run the **display ospf peer** command to check the status of the neighbor.

Step 2 Contact technical support personnel.

----End

98.63 OSPF/6/STUB_RT_STUB_ALW

Message

OSPF/6/STUB_RT_STUB_ALW:OSPF [USHORT] deletes the stub router timer, as new configuration is always stub.

Description

The OSPF process deleted the stub router timer.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Indicates the ID of an OSPF process.

Possible Causes

The OSPF process deleted the stub router timer.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.64 OSPF/6/STUB_RT_TM_FIRE

Message

OSPF/6/STUB_RT_TM_FIRE:OSPF [process-id] quits stub router state for overtime.

Description

The local device left the Stub state.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The local device left the Stub state.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.65 OSPF/6/TRAP_AGE_LSA

Message

OSPF/6/TRAP_AGE_LSA:Notify LSA aged out. (ProcessId=[USHORT], RouterId=[IPADDR], LsdbAreaId=[IPADDR], LsdbType=[ULONG], LsdbLsId=[IPADDR], LsdbRouterId=[IPADDR])

Description

OSPF notified that the LSA aged out.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
LsdbAreaId	Indicates the area ID of the LSDB.
LsdbType	Indicates the type of the LSDB.
LsdbLsId	Indicates the ID of an LSA in the LSDB.
LsdbRouterId	Indicates the ID of a router in the LSDB.

Possible Causes

OSPF notified that the LSA aged out.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.66 OSPF/6/TRAP_HELPER_CHG

Message

OSPF/6/TRAP_HELPER_CHG:Notify the change in restart helper. (ProcessId=[USHORT], RouterId=[IPADDR], NeighborIpAddress=[IPADDR], NeighborAddressLessIndex=[ULONG], NeighborRouterId=[IPADDR], NeighborRestartHelperStatus=[ULONG], NeighborRestartHelperAge=[ULONG], NeighborRestartHelperExitReason=[ULONG])

Description

OSPF notified that the status of the GR helper changed.

Parameters

Parameter Name	Parameter Meaning
Process ID	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
NeighborIpAddress	Indicates the IP address of a neighbor.
NeighborAddressLessIndex	Indicates the index of the IP address of a neighbor.
NeighborRouterId	Indicates the ID of the neighboring router.
NeighborRestartHelperStatus	Indicates the status of the neighbor GR helper.
NeighborRestartHelperAge	Indicates the duration of the neighbor GR helper.
NeighborRestartHelperExitReason	Indicates the reason why the neighbor exits from the GR helper.

Possible Causes

OSPF notified that the status of the GR helper changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.67 OSPF/4/TRAP_INTF_AUTH_FAIL

Message

OSPF/4/TRAP_INTF_AUTH_FAIL:Interface authentication has failed.
(ProcessId=[USHORT], RouterId=[IPADDR], IpAddress=[IPADDR],
AddressLessIndex=[ULONG], PacketSource=[IPADDR], ErrorType=[ULONG],
PacketType=[ULONG])

Description

The interface authentication failed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
IpAddress	Indicates the IP address.
AddressLessIndex	Indicates the index of the IP address.
PacketSource	Indicates the source address of a packet.
ErrorType	Indicates the error type.
PacketType	Indicates the packet type.

Possible Causes

The interface authentication failed.

Procedure

Step 1 Run the **display ospf interface** command to check the authentication configuration of the virtual interface and the neighbor router.

Step 2 Contact technical support personnel.

----End

98.68 OSPF/6/TRAP_INTF_BAD_RX

Message

OSPF/6/TRAP_INTF_BAD_RX:Interface received bad packet. (ProcessId=[USHORT], RouterId=[IPADDR], IpAddress=[IPADDR], AddressLessIndex=[ULONG], PacketSource=[IPADDR], PacketType=[ULONG])

Description

An error packet was received on the interface.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
IpAddress	Indicates the IP address.
AddressLessIndex	Indicates the index of the IP address.
PacketSource	Indicates the source address of a packet.
PacketType	Indicates the packet type.

Possible Causes

An error packet was received on the interface.

Procedure

Step 1 Check the source address of the error packet.

Step 2 Contact technical support personnel.

----End

98.69 OSPF/4/TRAP_INTF_CFG_ERR

Message

OSPF/4/TRAP_INTF_CFG_ERR:Interface configuration error has occurred.
(ProcessId=[USHORT], RouterId=[IPADDR], IpAddress=[IPADDR],
AddressLessIndex=[ULONG], PacketSource=[IPADDR], ErrorType=[ULONG],
PacketType=[ULONG])

Description

The interface was incorrectly configured.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.

Parameter Name	Parameter Meaning
RouterId	Indicates the ID of a router.
IpAddress	Indicates the IP address.
AddressLessIndex	Indicates the index of the IP address.
PacketSource	Indicates the source address of a packet.
ErrorType	Indicates the error type.
PacketType	Indicates the packet type.

Possible Causes

The interface was incorrectly configured.

Procedure

- Step 1 Run the **display ospf interface** command to check the configuration of the interface.
- Step 2 Contact technical support personnel.

----End

98.70 OSPF/6/TRAP_INTF_CHG

Message

OSPF/6/TRAP_INTF_CHG:Interface state has changed. (ProcessId=[USHORT], RouterId=[IPADDR], IpAddress=[IPADDR], InterfaceIndex=[ULONG], InterfaceState=[ULONG])

Description

The interface status changed.

Parameters

Parameter Name	Parameter Meaning
Process Id	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
IpAddress	Indicates the IP address.

Parameter Name	Parameter Meaning
InterfaceIndex	Indicates the index of an interface.
InterfaceState	Indicates the status of an interface.

Possible Causes

The interface status changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.71 OSPF/6/TRAP_INTF_RETX

Message

OSPF/6/TRAP_INTF_RETX:Interface has retransmitted. (ProcessId=[USHORT], RouterId=[IPADDR], IpAddress=[IPADDR], AddressLessIndex=[ULONG], NeighborRouterId=[IPADDR], PacketType=[ULONG], NeighborIpAddress=[IPADDR], NeighborAddressLessIndex=[ULONG], LsdbAreaId=[IPADDR], LsdbType=[ULONG], LsdbLsId=[IPADDR], LsdbRouterId=[IPADDR])

Description

Packets were resent through the interface.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
IpAddress	Indicates the IP address.
AddressLessIndex	Indicates the index of the IP address.
NeighborRouterId	Indicates the ID of the neighboring router.
PacketType	Indicates the type of the packet.
NeighborIpAddress	Indicates the IP address of a neighbor.
NeighborAddressLessIndex	Indicates the index of the IP address of a neighbor.
LsdbAreaId	Indicates the area ID of an LSA in the Link-State DataBase (LSDB).

Parameter Name	Parameter Meaning
LsdbType	Indicates the type of an LSA in the LSDB.
LsdbLsId	Indicates the ID of an LSA in the LSDB.
LsdbRouterId	Indicates the router ID in the LSDB.

Possible Causes

Packets were resent through the interface.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.72 OSPF/6/TRAP_LSDB_APP_OFLOW

Message

OSPF/6/TRAP_LSDB_APP_OFLOW:Notify LSDB approaching overflow.
(ProcessId=[USHORT], RouterId=[IPADDR], ExtLsdbLimit=[ULONG])

Description

OSPF notified that the LSDB would overflow soon.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
ExtLsdbLimit	Indicates the limit of LSDB extension.

Possible Causes

OSPF notified that the LSDB would overflow soon.

Procedure

Step 1 Contact technical support personnel.

----End

98.73 OSPF/6/TRAP_LSDB_OVERFLOW

Message

OSPF/6/TRAP_LSDB_OVERFLOW:Notify LSDB overflow. (ProcessId=[USHORT], RouterId=[IPADDR], ExtLsdbLimit=[ULONG])

Description

OSPF notified that the LSDB overflowed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
ExtLsdbLimit	Indicates the limit of LSDB extension.

Possible Causes

OSPF notified that the LSDB overflowed.

Procedure

Step 1 Contact technical support personnel.

----End

98.74 OSPF/6/TRAP_NBR_CHG

Message

OSPF/6/TRAP_NBR_CHG:Neighbor state has changed. (ProcessId=[USHORT], RouterId=[IPADDR], NeighborIpAddress=[IPADDR], NeighborAddressLessIndex=[ULONG], NeighborRouterId=[IPADDR], NeighborState=[ULONG])

Description

The status of the neighbor changed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
NeighborIpAddress	Indicates the IP address of a neighbor.
NeighborAddressLessIndex	Indicates the index of the IP address of a neighbor.
NeighborRouterId	Indicates the ID of the neighboring router.
NeighborState	Indicates the status of the neighbor.

Possible Causes

The status of the neighbor changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.75 OSPF/6/TRAP_NSSA_TRANS_CHG

Message

OSPF/6/TRAP_NSSA_TRANS_CHG:Notify the change in NSSA translator role.
(ProcessId=[USHORT], RouterId=[IPADDR], Areaid=[IPADDR],
NssaTranslatorState=[ULONG])

Description

OSPF notified that the NSSA translator role changed.

Parameters

Parameter Name	Parameter Meaning
Process ID	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
Areaid	Indicates the ID of an area.
NssaTranslatorState	Indicates the reason why the NSSA role changes.

Possible Causes

OSPF notified that the NSSA translator role changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.76 OSPF/6/TRAP_ORG_LSA

Message

OSPF/6/TRAP_ORG_LSA:Router originating LSA. (ProcessId=[USHORT], RouterId=[IPADDR], LsdbAreald=[IPADDR], LsdbType=[ULONG], LsdbLsId=[IPADDR], LsdbRouterId=[IPADDR])

Description

The router generated an LSA.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
LsdbAreald	Indicates the area ID of the LSDB.
LsdbType	Indicates the type of the LSDB.
LsdbLsId	Indicates the ID of an LSA in the LSDB.
LsdbRouterId	Indicates the router ID in the LSDB.

Possible Causes

The router generated an LSA.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.77 OSPF/6/TRAP_RESTART_CHG

Message

OSPF/6/TRAP_RESTART_CHG:Notify the change in restart. (ProcessId=[USHORT], RouterId=[IPADDR], RestartStatus=[ULONG], RestartInterval=[ULONG], RestartExitReason=[ULONG])

Description

OSPF notified that GR status changed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
RestartStatus	Indicates the status of Graceful Restart (GR).
RestartInterval	Indicates the interval for GR.
RestartExitReason	Indicates the reason why the router exits from GR.

Possible Causes

OSPF notified that GR status changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.78 OSPF/4/TRAP_VIF_AUTH_FAIL

Message

OSPF/4/TRAP_VIF_AUTH_FAIL:Virtual interface authentication has failed. (ProcessId=[USHORT], RouterId=[IPADDR], Area=[IPADDR], Neighbor=[IPADDR], ErrorType=[ULONG], PacketType=[ULONG])

Description

The virtual interface authentication failed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
Area	Indicates the ID of an area.
Neighbor	Indicates the IP address of a neighbor.
ErrorType	Indicates the error type.
PacketType	Indicates the packet type.

Possible Causes

The virtual interface authentication failed.

Procedure

- Step 1** Run the **display ospf interface** command to check the authentication configuration of the virtual interface and the neighbor router.
- Step 2** Contact technical support personnel.

----End

98.79 OSPF/4/TRAP_VIF_CFG_ERR

Message

OSPF/4/TRAP_VIF_CFG_ERR:Virtual interface configuration error has occurred.
(ProcessId=[USHORT], RouterId=[IPADDR], Area=[IPADDR], Neighbor=[IPADDR], ErrorType=[ULONG], PacketType=[ULONG])

Description

The virtual interface was incorrectly configured.

Parameters

Parameter Name	Parameter Meaning
Process ID	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.

Parameter Name	Parameter Meaning
Area	Indicates the ID of an area.
Neighbor	Indicates the IP address of a neighbor.
ErrorType	Indicates the error type.
PacketType	Indicates the packet type.

Possible Causes

The virtual interface was incorrectly configured.

Procedure

Step 1 Run the **display ospf vlink** command to check the authentication configuration of the virtual interface.

Step 2 Contact technical support personnel.

----End

98.80 OSPF/6/TRAP_VIF_RX_BAD

Message

OSPF/6/TRAP_VIF_RX_BAD:Virtual interface received bad packet.
(ProcessId=[USHORT], RouterId=[IPADDR], Area=[IPADDR], Neighbor=[IPADDR],
PacketType=[ULONG])

Description

An error packet was received on the virtual interface.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
Area	Indicates the ID of an area.
Neighbor	Indicates the IP address of a neighbor.

Parameter Name	Parameter Meaning
PacketType	Indicates the packet type.

Possible Causes

An error packet was received on the virtual interface.

Procedure

Step 1 Check the source address of the error packet.

Step 2 Contact technical support personnel.

----End

98.81 OSPF/6/TRAP_VIR_HELPER_CHG

Message

OSPF/6/TRAP_VIR_HELPER_CHG:Notify the change in virtual neighbor restart helper. (ProcessId=[USHORT], RouterId=[IPADDR], VirtualNeighborArea=[IPADDR], VirtualNeighborRouterId=[IPADDR], VirtualNeighborRestartHelperStatus=[ULONG], VirtualNeighborRestartHelperAge=[ULONG], VirtualNeighborRestartHelperExitReason=[ULONG])

Description

The status of the virtual neighbor changed.

Parameters

Parameter Name	Parameter Meaning
Process ID	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
VirtualNeighborArea	Indicates the area ID of a virtual neighbor.
VirtualNeighborRouterId	Indicates the router ID of a virtual neighbor.
VirtualNeighborRestartHelperStatus	Indicates the status of the virtual neighbor GR helper.
VirtualNeighborRestartHelperAge	Indicates the duration of the virtual neighbor GR helper.
VirtualNeighborRestartHelperExitReason	Indicates the reason why the virtual neighbor exits from the GR helper.

Possible Causes

The link status changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.82 OSPF/6/TRAP_VIR_INTF_CHG

Message

OSPF/6/TRAP_VIR_INTF_CHG:Virtual interface state has changed.
(ProcessId=[USHORT], RouterId=[IPADDR], Areaid=[IPADDR],
NeighborId=[IPADDR], InterfaceState=[ULONG])

Description

The status of the virtual interface changed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
Areaid	Indicates the ID of area.
NeighborId	Indicates the ID of the neighbor router.
InterfaceState	Indicates the status of an interface.

Possible Causes

The status of the virtual interface changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.83 OSPF/6/TRAP_VIR_INTF_RETX

Message

OSPF/6/TRAP_VIR_INTF_RETX:Virtual interface has retransmitted.
(ProcessId=[USHORT], RouterId=[IPADDR], Area=[IPADDR], Neighbor=[IPADDR],

PacketType=[ULONG], LsdbAreaId=[IPADDR], LsdbType=[ULONG],
LsdbLsId=[IPADDR], LsdbRouterId=[IPADDR])

Description

Packets were resent through the virtual interface.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
Area	Indicates the ID of an area.
Neighbor	Indicates the IP address of a neighbor.
PacketType	Indicates the packet type.
LsdbAreaId	Indicates the area ID of an LSA in the LSDB.
LsdbType	Indicates the type of an LSA in the LSDB.
LsdbLsId	Indicates the ID of an LSA in the LSDB.
LsdbRouterId	Indicates the router ID in the LSDB.

Possible Causes

Packets were resent through the virtual interface.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.84 OSPF/6/TRAP_VIR_NBR_CHG

Message

OSPF/6/TRAP_VIR_NBR_CHG:Virtual neighbor state has changed.
(ProcessId=[USHORT], RouterId=[IPADDR], Area=[IPADDR],
VirtualNeighborRouterId=[IPADDR], VirtualNeighborState=[ULONG])

Description

The status of the virtual neighbor changed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
Area	Indicates the ID of an area.
VirtualNeighborRouterId	Indicates the IP address of a virtual neighbor.
VirtualNeighborState	Indicates the status of a virtual neighbor.

Possible Causes

The status of the virtual neighbor changed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.85 OSPF/4/VLINK_NBR_CHG_E

Message

OSPF/4/VLINK_NBR_CHG_E:Virtual link peer event: neighbor status changed.
(ProcessId=[USHORT], VirtualLinkNeighborAddress=[IPADDR],
NeighborEvent=[STRING], NeighborPreviousState=[STRING],
NeighborCurrentState=[STRING])

Description

The status of the neighboring node on the virtual link changed.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
VirtualLinkNeighborAddress	Indicates the IP addresses of neighboring nodes on the virtual link.
NeighborEvent	Indicates the events received by the neighboring node.

Parameter Name	Parameter Meaning
NeighborPreviousState	Indicates the previous status of the neighboring node.
NeighborCurrentState	Indicates the current status of the neighboring node.

Possible Causes

The status of the neighboring node on the virtual link changed.

Procedure

Step 1 Run the **display ospf peer** command to check the status of the neighbor.

Step 2 Contact technical support personnel.

----End

98.86 OSPF/6/DEL_NBR_PRLIST_VLINK

Message

OSPF/6/DEL_NBR_PRLIST_VLINK:OSPF [process-id] deletes virtual neighbor from pre-restart neighbor list. (RouterId=[IPADDR], TransitAreaid=[IPADDR], HelperVirtNbrCount=[ULONG], HelperShamLinkNbrCount=[ULONG], HelperNormalNbrCount=[ULONG])

Description

The OSPF process deleted the neighbor on the virtual link from the pre-restart neighbor list.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
RouterId	Indicates the ID of a router.
TransitAreaid	Indicates the ID of the transit area.
HelperVirtNbrCount	Indicates the virtual link of the helper neighbor.
HelperShamLinkNbrCount	Indicates the sham link.
HelperNormalNbrCount	Indicates the number of normal links.

Possible Causes

The OSPF process deleted the neighbor on the virtual link from the pre-restart neighbor list.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.87 OSPF/3/DR_ELECT_FAILED

Message

OSPF/3/DR_ELECT_FAILED:OSPF [process-id] DR election failed. Exit GR unsuccessfully as DR election failed.

Description

Exit from GR because the DR election failed.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The DR election during GR failed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.88 OSPF/3/END_GR_NODE_IN_LIST

Message

OSPF/3/END_GR_NODE_IN_LIST:OSPF [process-id] GR period expired. Exit GR unsuccessfully as pre-restart neighbor list still has [prerestart-neighbor-count] node(s).

Description

GR period expired. Failed to exit from GR because the pre-restarted neighbor list was not empty.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[prerestart-neighbor-count]	Indicates the number of pre-started neighbor nodes.

Possible Causes

No pre-restarted neighbor was found during GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.89 OSPF/6/FIND_NBR_SHAMLINK

Message

OSPF/6/FIND_NBR_SHAMLINK:OSPF [process-id] finds pre-restart neighbor [prerestart-neighbor-id], on sham-link source=[sham-link-ip-address] destination=[destination-ip-address]. Route to destination is found.

Description

The OSPF process found the pre-restarted neighbor on the sham link.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[prerestart-neighbor-id]	Indicates the ID of a pre-restarted neighbor.
[sham-link-ip-address]	Indicates the source address of the sham link.
[destination-ip-address]	Indicates the destination IP address.

Possible Causes

The OSPF process found the pre-restarted neighbor on the sham link.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.90 OSPF/6/FINISH_ADD_ASE

Message

OSPF/6/FINISH_ADD_ASE:OSPF [process-id] finished flooding of AS-external LSAs.

Description

The helper received a 1-way Hello packet from the neighbor and then discarded the packet.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

OSPF needs to flood AS-external before the partial GR finishes.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.91 OSPF/4/GR_HLP_TIMER_FIRED

Message

OSPF/4/GR_HLP_TIMER_FIRED:OSPF [process-id] helper waits for timer to be fired, because grace period expired on interface [interface-name].

Description

The helper waited for the timer to be activated for an interface.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[interface-name]	Indicates the name of an interface.

Possible Causes

The helper waited for the timer to be activated for an interface.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.92 OSPF/4/GR_RECV_1WAY_HELLO

Message

OSPF/4/GR_RECV_1WAY_HELLO:OSPF [process-id] exits GR mode as 1-way hello is received from neighbor [neighbor-ip-address], on interface [interface-name].

Description

The OSPF process exited from GR after receiving a 1-way Hello packet from the neighbor.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-ip-address]	Indicates the IP address of a neighbor.
[interface-name]	Indicates the name of an interface.

Possible Causes

The OSPF process received a 1-way Hello packet.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.93 OSPF/4/GR_START_GR

Message

OSPF/4/GR_START_GR:OSPF [process-id] starting IETF GR.....

Description

The OSPF process started GR.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The OSPF process started GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.94 OSPF/6/HELLO_SEND_TIMESTAMP

Message

OSPF/6/HELLO_SEND_TIMESTAMP: OSPF hello packet sending timestamp record when neighbor state leaves full or changes to down. (ProcessId=[USHORT], NeighborRouterId=[IPADDR], NeighborAreaId=[ULONG], NeighborInterface=[STRING], SendTimestamp1=[STRING], SendTimestamp2=[STRING], SendTimestamp3=[STRING], SendTimestamp4=[STRING], SendTimestamp5=[STRING], SendTimestamp6=[STRING], SendTimestamp7=[STRING], SendTimestamp8=[STRING], CurrentTimestamp=[STRING])

Description

The OSPF route tasks were not scheduled in time and delayed the sending of the OSPF Hello packets. As a result, the neighbor state changed. When the neighbor state was Full, the timestamp of sending Hello packets for the last eight times in the log [OSPF_NBR_DOWN_REASON](#) was also recorded.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Process ID
NeighborRouterId	Neighbor router ID
NeighborAreaId	Neighbor area ID
NeighborInterface	Name of an interface
SendTimestamp1	Sending timestamp 1
SendTimestamp2	Sending timestamp 2
SendTimestamp3	Sending timestamp 3

Parameter Name	Parameter Meaning
SendTimestamp4	Sending timestamp 4
SendTimestamp5	Sending timestamp 5
SendTimestamp6	Sending timestamp 6
SendTimestamp7	Sending timestamp 7
SendTimestamp8	Sending timestamp 8
CurrentTimestamp	Current timestamp

Possible Causes

In the OSPF operation process, the abnormal packet interaction caused the neighbor state to be "Full".

Procedure

Step 1 This trap message is informational only, and no action is required.

----End

98.95 OSPF/6/INTF_NSR_EVENT

Message

OSPF/6/INTF_NSR_EVENT: Interface of the [STRING] received event [STRING], and NSR state changed from [STRING] to [STRING]. (IfName=[STRING], IpAddr=[IPADDR], ProcessId=[USHORT], Areaid=[STRING])

NOTE

Only the AR6300 series support NSR.

Description

The NSR state on an OSPF interface on the AMB or SMB changed.

Parameters

Parameter Name	Parameter Meaning
[STRING]	AMB or SMB to which an interface belongs
[STRING]	Event causing the NSR state of the interface to change
[STRING]	Previous NSR status of the interface

Parameter Name	Parameter Meaning
[STRING]	New NSR status of the interface
IfName	Interface name
IpAddr	Interface IP address
ProcessId	ID of the process to which the interface belongs
AreaId	ID of the area to which the interface belongs

Possible Causes

When the data on OSPF NSR interfaces was backed up, an OSPF interface on the AMB communicated with an OSPF interface on the SMB or the communication between the two interfaces was interrupted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.96 OSPF/4/INTF_NSR_OVERTIME_LIMIT

Message

OSPF/4/INTF_NSR_OVERTIME_LIMIT: The interface go on process, as slave's ack didn't come for [ULONG] seconds. (IfName=[STRING1], IpAddr=[IPADDR], ProcessId=[USHORT], AreaId=[STRING2])

Description

If the OSPF interface on the active board receives no response from the standby board within a specified interval, the active board considers that the standby board has responded and does not require retransmission of backup messages.

Parameters

Parameter Name	Parameter Meaning
[ULONG]	Total time that the interface waits for the response from the standby board, in seconds

Parameter Name	Parameter Meaning
IfName	Interface name
IpAddr	IP address of the interface
ProcessId	Process ID to which the interface belongs
AreaId	Area ID to which the interface belongs

Possible Causes

After the OSPF interface on the active board initiates a handshake with the standby board, the interface waits for a response from the standby board. If the total waiting time exceeds the upper limit (equal to or less than 600 seconds, generally 40 times of the retransmission interval), it may be caused by inconsistent OSPF interface statuses on the active board and the standby board, blocked backup channel, or loss of backup messages.

Procedure

Step 1 Run the **display ospf interface** command to check whether the statuses of OSPF interfaces on the active board and the standby board are consistent.

- If they are consistent, ignore this log message.
- If they are inconsistent, contact technical support personnel.

----End

98.97 OSPF/3/MISMATCH_HELPER_FAIL

Message

OSPF/3/MISMATCH_HELPER_FAIL:OSPF [process-id] can not enter helper mode, neighbor-ID mismatch with restarting neighbor [interface-name].

Description

The OSPF process cannot enter the helper mode because the neighbor ID saved on the local side did not match the neighbor ID contained in the grace LSA sent by the restarter.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[interface-name]	Indicates the interface name.

Possible Causes

The OSPF process cannot enter the helper mode because the neighbor ID did not match the neighbor ID contained in the grace LSA sent by the restarter.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.98 OSPF/3/NBR_CHG_DOWN

Message

OSPF/3/NBR_CHG_DOWN: Neighbor event: neighbor state changed to Down.
(ProcessId=[USHORT], NeighborAddress=[IPADDR], NeighborEvent=[STRING],
NeighborPreviousState=[STRING], NeighborCurrentState=[STRING])

Description

The neighbor turned Down.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
NeighborAddress	Indicates the IP address of a neighbor.
NeighborEvent	Indicates the event triggered by a neighbor.
NeighborPreviousState	Indicates the previous status of a neighbor.
NeighborCurrentState	Indicates the current status of a neighbor.

Possible Causes

The neighbor status changed because the neighbor received an OSPF message or the event affecting the neighbor relationship occurred.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.99 OSPF/4/NBR_STATE_HELPER_F

Message

OSPF/4/NBR_STATE_HELPER_F:OSPF [process-id] cannot enter the helper mode because neighbor status of the restarting neighbor [neighbor-ip-address] is not FULL.

Description

The OSPF process cannot enter the helper mode because the restarter status is not Full.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-ip-address]	Indicates the IP address of an interface.

Possible Causes

The OSPF process cannot enter the helper mode because the restarter status is not Full.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.100 OSPF/6/NOTIFY_DEL_FINISHED

Message

OSPF/6/NOTIFY_DEL_FINISHED: OSPF has finished deleting all routes and notified route management. (Instance ID=[USHORT])

Description

The OSPF instance notified the routing management module that all routes had been deleted.

Parameters

Parameter Name	Parameter Meaning
Instance ID	Indicates the instance ID.

Possible Causes

The limit on the maximum number of route prefixes was changed, and the number of route prefixes exceeded the limit.

Procedure

Step 1 This log is informational only, and no action is required.

----End

98.101 OSPF/6/NSR_AMB_BAKOVER_INFO

Message

OSPF/6/NSR_AMB_BAKOVER_INFO: The AMB received acknowledgement from the SMB, and then notified RM that batch backup was complete.

Description

The AMB received acknowledgement from the SMB, and then notified RM that batch backup was complete.

Parameters

Parameter Name	Parameter Meaning
None.	None.

Possible Causes

The AMB received acknowledgement from the SMB, and then notified RM that batch backup was complete.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.102 OSPF/6/NSR_AMB_BCHOVER_INFO

Message

OSPF/6/NSR_AMB_BCHOVER_INFO: The AMB notified the SMB that all processes finished batch backup, and then waited for the acknowledgement.

Description

The AMB notified the SMB that all processes finished batch backup, and then waited for the acknowledgement.

Parameters

Parameter Name	Parameter Meaning
None.	None.

Possible Causes

The AMB notified the SMB that all processes finished batch backup, and then waited for the acknowledgement.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.103 OSPF/6/NSR_AMB_ENWARM_INFO

Message

OSPF/6/NSR_AMB_ENWARM_INFO: RM was notified that process [USHORT] entered the NSR-WarmUp phase.



Only the AR6300 series support NSR.

Description

An OSPF process notified RM that it entered the NSR-WarmUp phase.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Process ID

Possible Causes

After an AMB/SMB switchover, the new AMB started the NSR-WarmUp process.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.104 OSPF/6/NSR_AMB_EXWARM_INFO

Message

OSPF/6/NSR_AMB_EXWARM_INFO: RM was notified that process [USHORT] exited the NSR-WarmUp phase.

NOTE

Only the AR6300 series support NSR.

Description

An OSPF process notified RM that it exited from the NSR-WarmUp phase.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Process ID

Possible Causes

After an AMB/SMB switchover, the new AMB completed the NSR-WarmUp process.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.105 OSPF/6/NSR_AMB_GROVER_INFO

Message

OSPF/6/NSR_AMB_GROVER_INFO: Instance [USHORT] received the notification from RM that WarmUp was complete.

Description

An instance received a notification from RM that the NSR-WarmUp process was complete.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Instance ID

Possible Causes

RM notified the instance that the NSR-WarmUp process was complete.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.106 OSPF/6/NSR_AMB_RM_INFO

Message

OSPF/6/NSR_AMB_RM_INFO: OSPF NSR received [STRING] notification from RM.



Only the AR6300 series support NSR.

Description

OSPF NSR received a series of notifications from RM.

Parameters

Parameter Name	Parameter Meaning
[STRING]	Type of notifications received from RM

Possible Causes

During normal operation, OSPF NSR received a series of notifications from RM.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.107 OSPF/6/NSR_AMB_RMCHK_INFO

Message

OSPF/6/NSR_AMB_RMCHK_INFO: OSPF notified RM that batch backup check is finished.

Description

OSPF notified RM that batch backup check was finished.

Parameters

Parameter Name	Parameter Meaning
None.	None.

Possible Causes

OSPF notified RM that batch backup check was finished.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.108 OSPF/6/NSR_AREARECV_DATA

Message

OSPF/6/NSR_AREARECV_DATA: The AMB notified SMB that area [ULONG]'s data is acceptable now. (InstanceId=[USHORT], ProId=[USHORT])



Only the AR6300 series support NSR.

Description

The AMB notified the SMB that the area's data can be accepted.

Parameters

Parameter Name	Parameter Meaning
[ULONG]	Area ID

Parameter Name	Parameter Meaning
Instanceld	Instance ID
Proclid	Process ID

Possible Causes

NSR was enabled and the OSPF area was restarted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.109 OSPF/6/NSR_AREARECV_INFO

Message

OSPF/6/NSR_AREARECV_INFO: The SMB received the notification from the AMB. Now area [ULONG]'s data is acceptable. (Instanceld=[USHORT], Proclid=[USHORT])

NOTE

Only the AR6300 series support NSR.

Description

The SMB received a notification from the AMB that the area's data can be accepted.

Parameters

Parameter Name	Parameter Meaning
[ULONG]	Area ID
Instanceld	Instance ID
Proclid	Process ID

Possible Causes

NSR was enabled and the OSPF area was restarted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.110 OSPF/6/NSR_AREARESET_INFO

Message

OSPF/6/NSR_AREARESET_INFO: The AMB received the notification from the SMB. Now area [ULONG] can be activated or freed. (Instanceld=[USHORT], Proclid=[USHORT])



Only the AR6300 series support NSR.

Description

The AMB received a notification from the SMB that the area can be activated or released.

Parameters

Parameter Name	Parameter Meaning
[ULONG]	Area ID
Instanceld	Instance ID
Proclid	Process ID

Possible Causes

NSR was enabled and the OSPF area was restarted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.111 OSPF/6/NSR_PROCRCV_DATA

Message

OSPF/6/NSR_PROCRCV_DATA: The AMB notified the SMB that process [USHORT]'s data is acceptable now . (Instanceld=[USHORT])

 NOTE

Only the AR6300 series support NSR.

Description

The AMB notified the SMB that the process's data can be accepted.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Process ID
Instanceld	Instance ID

Possible Causes

NSR was enabled and the OSPF area was restarted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.112 OSPF/6/NSR_PROCRECV_INFO

Message

OSPF/6/NSR_PROCRECV_INFO: The SMB received the notification from the AMB. Now process [USHORT]'s data is acceptable. (Instanceld=[USHORT])

 NOTE

Only the AR6300 series support NSR.

Description

The SMB received a notification from the AMB that the process's data can be accepted.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Process ID
Instanceld	Instance ID

Possible Causes

NSR was enabled and the OSPF area was restarted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.113 OSPF/6/NSR_PROCRESET_INFO

Message

OSPF/6/NSR_PROCRESET_INFO: The AMB received the notification from the SMB. Now process [USHORT] can be activated or freed. (InstanceId=[USHORT])



Only the AR6300 series support NSR.

Description

The AMB received a notification from the SMB that the process can be activated or released.

Parameters

Parameter Name	Parameter Meaning
[USHORT]	Process ID
InstanceId	Instance ID

Possible Causes

NSR was enabled and the OSPF area was restarted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.114 OSPF/6/NSR_SMB_BATCH_INFO

Message

OSPF/6/NSR_SMB_BATCH_INFO: The SMB received the notification from the AMB that batch backup is complete.

Description

The SMB received a notification from the AMB that batch backup was complete.

Parameters

Parameter Name	Parameter Meaning
None.	None.

Possible Causes

The AMB notified the SMB that batch backup was complete.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.115 OSPF/6/NSR_SMB_GLOBAL_INFO

Message

OSPF/6/NSR_SMB_GLOBAL_INFO: The SMB received the notification from the AMB that global data backup is complete.

Description

The SMB received a notification from the AMB that global data backup was complete.

Parameters

Parameter Name	Parameter Meaning
None.	None.

Possible Causes

The AMB notified the SMB that global data backup was complete.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.116 OSPF/4/PLCY_FAIL_HELPER_F

Message

OSPF/4/PLCY_FAIL_HELPER_F:OSPF [process-id] cannot enter the helper mode because configuring policies for restarting peer [interface-name] failed.

Description

The OSPF cannot enter the helper mode because configuring policies for the restarting peer failed.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[interface-name]	Indicates the name of an interface.

Possible Causes

The OSPF cannot enter the helper mode because configuring policies for the restarting peer failed.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.117 OSPF/6/RCV_MEM_RESTORE

Message

OSPF/6/RCV_MEM_RESTORE:OSPF received memory restoration notification.

Description

OSPF received the memory restoration notification.

Parameters

Parameter Name	Parameter Meaning
None	None

Possible Causes

Memory shortage was restored.

Procedure

Step 1 Check the memory usage on the router.

----End

98.118 OSPF/6/RCV_RM_EVNT

Message

OSPF/6/RCV_RM_EVNT:OSPF(AMB) backup process receive [RM-backup-event] event from RM. (SlaveHsbState=[slave-hsb-state])

Description

OSPF received a backup event from the RM.

Parameters

Parameter Name	Parameter Meaning
[RM-backup-event]	Indicates the backup events received from the RM.
SlaveHsbState	Indicates the hot standby state of the slave board.

Possible Causes

The slave board started to backing up data.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.119 OSPF/6/RECV_ROUT_LIMIT_MSG

Message

OSPF/6/RECV_ROUT_LIMIT_MSG: OSPF received route limit message from route management. (Instance ID=[USHORT], Message Type=[STRING])

Description

The routing management module notified the OSPF instance to delete or re-add routes.

Parameters

Parameter Name	Parameter Meaning
Instance ID	Indicates the instance ID.
Message Type	Indicates the message type.

Possible Causes

The limit on the maximum number of route prefixes was changed, and the number of route prefixes exceeded the limit.

Procedure

Step 1 This log is informational only, and no action is required.

----End

98.120 OSPF/3/RECV_TWO_GRACELSA

Message

OSPF/3/RECV_TWO_GRACELSA:OSPF [process-id] exited GR mode as grace LSA received from neighbor [neighbor-ip-address], on interface [interface-name].

Description

The OSPF process exited from GR after receiving a grace LSA from a neighbor.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[neighbor-ip-address]	Indicates the IP address of a neighbor.
[interface-name]	Indicates the name of an interface.

Possible Causes

The OSPF process successfully exited from GR.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.121 OSPF/6/SHAMLINK_IF_CHG_E

Message

OSPF/6/SHAMLINK_IF_CHG_E:Shamlink interface [shamlink-interface-address] received event [interface-event], interface state changed from [interface-previous-state] to [interface-current-state]. (ProcessId=[USHORT])

Description

The interface on the sham link [Slink-int] changed from the state [pre-state] to the state [cur-state] after receiving an event [event].

Parameters

Parameter Name	Parameter Meaning
[shamlink-interface-address]	Indicates the IP address of the interface on the sham link.
[interface-event]	Indicates the events on the interface.
[interface-previous-state]	Indicates the previous status of the interface.
[interface-current-state]	Indicates the current status of the interface.
ProcessId	Indicates the ID of an OSPF process.

Possible Causes

The status of the interface on the shame link changed.

Procedure

Step 1 Run the **display ospf interface** command to check status of the interface.

Step 2 Contact technical support personnel.

----End

98.122 OSPF/3/SHAMLINK_NBR_DOWN

Message

OSPF/3/SHAMLINK_NBR_DOWN:Shamlink neighbor event: neighbor state changed to Down. (ProcessId=[USHORT], NeighborAddress=[IPADDR], NeighborEvent=[STRING], NeighborPreviousState=[STRING], NeighborCurrentState=[STRING])

Description

The neighbor turned Down.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
NeighborAddress	Indicates the IP address of a neighbor.
NeighborEvent	Indicates the event triggered by a neighbor.
NeighborPreviousState	Indicates the previous status of a neighbor.
NeighborCurrentState	Indicates the current status of a neighbor.

Possible Causes

The neighbor on the sham link turned Down because the neighbor received an OSPF message or the event affecting the neighbor relationship occurred.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.123 OSPF/6/SINTF_NSR_EVENT

Message

OSPF/6/SINTF_NSR_EVENT: Shamlink interface of the [board-name] received event [event], and NSR state changed from [previous-state] to [current-state]. (DestIp=[STRING], Sourcelp=[IPADDR], ProcessId=[USHORT], Areaid=[STRING])



Only the AR6300 series support NSR.

Description

The NSR state of an interface over a sham link on a master or slave main control board changed.

Parameters

Parameter Name	Parameter Meaning
[board-name]	Indicates the master or slave main control board on which the interface over the sham link resides.
[event]	Indicates the event that triggers the NSR state change of the interface over the sham link.
[previous-state]	Indicates the original NSR state.
[current-state]	Indicates the new NSR state.
DestIp	Indicates the destination IP address of the sham link.
SourceIp	Indicates the source IP address of the sham link.
ProcessId	Indicates the ID of the process to which the interface over the sham link belongs.
AreaId	Indicates the ID of the area to which the interface over the sham link belongs.

Possible Causes

Packets were exchanged or the exchange was disabled during data backup between the interfaces over sham links on the master and slave main control boards.

Procedure

Step 1 This log is informational only, and no action is required.

----End

98.124 OSPF/4/SINTF_NSR_OVERTIME_LIMIT

Message

OSPF/4/SINTF_NSR_OVERTIME_LIMIT: The shamlink interface go on process, as slave's ack didn't come for [ULONG] seconds. (DestIp=[STRING], Sourcelp=[IPADDR], ProcessId=[USHORT], Areald=[STRING])

Description

If the OSPF sham link interface on the active board receives no response from the standby board within a specified interval, the active board considers that the standby board has responded and does not require retransmission of backup messages.

Parameters

Parameter Name	Parameter Meaning
[ULONG]	Total time that the sham link interface waits for the response from the standby board, in seconds
DestIp	Destination IP address of the sham link interface
Sourcelp	IP address of the sham link interface
ProcessId	Process ID to which the sham link interface belongs
Areald	Area ID to which the sham link interface belongs

Possible Causes

After the sham link interface on the active board initiates a handshake with the standby board, the interface waits for a response from the standby board. If the total waiting time exceeds the upper limit (equal to or less than 600 seconds, generally 40 times of the retransmission interval), it may be caused by inconsistent OSPF interface statuses on the active board and the standby board, blocked backup channel, or loss of backup messages.

Procedure

Step 1 Run the **display ospf sham-link** command to check whether the statuses of sham link interfaces on the active board and the standby board are consistent.

- If they are consistent, ignore this log message.
- If they are inconsistent, contact technical support personnel.

----End

98.125 OSPF/6/SMB_GETSESSION_ERR

Message

OSPF/6/SMB_GETSESSION_ERR: The SMB failed to get the destination of backup information. (SessionType=[USHORT], DataLen=[USHORT], Key1=[ULONG], Key2=[ULONG], Key3=[ULONG], Key4=[ULONG], Key5=[ULONG], ErrCode=[ULONG])

Description

The SMB failed to get the destination of backup information.

Parameters

Parameter Name	Parameter Meaning
SessionType	Backup data type
DataLen	Backup data length
Key1	Key word 1 of backup data
Key2	Key word 2 of backup data
Key3	Key word 3 of backup data
Key4	Key word 4 of backup data
Key5	Key word 5 of backup data
ErrCode	Error code

Possible Causes

The SMB failed to get the destination of backup data and cannot accept the backup data.

Procedure

Step 1 No action is required generally. If an exception occurs, the log message can be used as a reference.

----End

98.126 OSPF/6/SMB_NSR_AREA_INFO

Message

OSPF/6/SMB_NSR_AREA_INFO: The SMB notified the AMB to activate or free area [ULONG]. (Instanceld=[USHORT], ProclId=[USHORT])

 **NOTE**

Only the AR6300 series support NSR.

Description

The SMB notified the AMB that the area can be activated or released.

Parameters

Parameter Name	Parameter Meaning
[ULONG]	Area ID
Instanceld	Instance ID
ProclId	Process ID

Possible Causes

NSR was enabled and the OSPF area was restarted.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.127 OSPF/6/SMB_NSR_PROC_INFO

Message

OSPF/6/SMB_NSR_PROC_INFO: The SMB notified the AMB to activate or free process [process-id]. (Instanceld=[USHORT])

 **NOTE**

Only the AR6300 series support NSR.

Description

The slave main control board notified the master main control board to activate or release an OSPF process.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates a process ID.
Instanceld	Indicates the instance ID.

Possible Causes

The OSPF process was restarted during NSR.

Procedure

Step 1 This log is informational only, and no action is required.

----End

98.128 OSPF/6/STUB_RT_EX_UD_STUB

Message

OSPF/6/STUB_RT_EX_UD_STUB:OSPF [process-id] quits stub router state by undoing stub.

Description

The local device left the Stub state.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Possible Causes

The local device left the Stub state.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.129 OSPF/6/STUB_RT_ONBT_TM_CRT

Message

OSPF/6/STUB_RT_ONBT_TM_CRT:OSPF [process-id] creates TIMER of [interval-for-stub-state] seconds to measure stub router state.

Description

The local device became a stub router.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.
[interval-for-stub-state]	Indicates the timeout period of the timer of stub router status.

Possible Causes

The local device entered the Stub state.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.130 OSPF/4/UPLAN_MATCH_HLPFAIL

Message

OSPF/4/UPLAN_MATCH_HLPFAIL:OSPF [process-id] can not enter helper, unplanned configuration mismatch with restart peer [interface-name].

Description

The OSPF process cannot enter the helper mode because the helper GR configurations did not match information contained in the grace LSA sent by the restarter.

Parameters

Parameter Name	Parameter Meaning
[process-id]	Indicates the ID of an OSPF process.

Parameter Name	Parameter Meaning
[interface-name]	Indicates the name of an interface.

Possible Causes

The OSPF process cannot enter the helper mode because the helper GR configurations did not match information contained the grace LSA sent by the restarter.

Procedure

Step 1 This log message is informational only, and no action is required.

----End

98.131 OSPF/6/VINTF_NSR_EVENT

Message

OSPF/6/VINTF_NSR_EVENT: Virtual link interface of the [STRING] received event [STRING], and NSR state changed from [STRING] to [STRING]. (NbrID=[STRING], IpAddr=[IPADDR], ProcessId=[USHORT], TransitAreaId=[STRING])

 **NOTE**

Only the AR6300 series support NSR.

Description

The NSR state on an OSPF virtual-link interface on the AMB or SMB changed.

Parameters

Parameter Name	Parameter Meaning
[STRING]	AMB or SMB to which a virtual-link interface belongs
[STRING]	Event causing the NSR state of the virtual-link interface to change
[STRING]	Previous NSR status of the virtual-link interface
[STRING]	New NSR status of the virtual-link interface
NbrID	ID of a neighboring router

Parameter Name	Parameter Meaning
IpAddr	IP address of the virtual-link interface
ProcessId	ID of the process to which the virtual-link interface belongs
TransitAreaid	ID of the transit area to which the virtual-link interface belongs.

Possible Causes

When the data on OSPF NSR interfaces was backed up, an OSPF virtual-link interface on the AMB communicated with an OSPF virtual-link interface on the SMB or the communication between the two interfaces was interrupted.

Procedure

Step 1 This log message is informational only, and no action is required.

-----End

98.132 OSPF/4/VINTF_NSR_OVERTIME_LIMIT

Message

OSPF/4/VINTF_NSR_OVERTIME_LIMIT: The virtual link interface go on process, as slave's ack didn't come for [ULONG] seconds. (NbrID=[STRING], IpAddr=[IPADDR], ProcessId=[USHORT], TransitAreaid=[STRING])

Description

If the OSPF virtual interface on the active board receives no response from the standby board within a specified interval, the active board considers that the standby board has responded and does not require retransmission of backup messages.

Parameters

Parameter Name	Parameter Meaning
[ULONG]	Total time that the virtual interface waits for the response from the standby board, in seconds
NbrID	Name of the virtual interface
IpAddr	IP address of the virtual interface
ProcessId	Process ID to which the virtual interface belongs

Parameter Name	Parameter Meaning
TransitAreaid	Area ID to which the virtual interface belongs

Possible Causes

After the virtual interface on the active board initiates a handshake with the standby board, the interface waits for a response from the standby board. If the total waiting time exceeds the upper limit (equal to or less than 600 seconds, generally 40 times of the retransmission interval), it may be caused by inconsistent OSPF interface statuses on the active board and the standby board, blocked backup channel, or loss of backup messages.

Procedure

Step 1 Run the **display ospf vlink** command to check whether the statuses of virtual interfaces on the active board and the standby board are consistent.

- If they are consistent, ignore this log message.
- If they are inconsistent, contact technical support personnel.

----End

98.133 OSPF/6/VLINK_IF_CHG_E

Message

OSPF/6/VLINK_IF_CHG_E:Virtual link interface [vlink-interface-address] received event [interface-event], interface state changed from [interface-previous-state] to [interface-current-state]. (ProcessId=[USHORT])

Description

The status of the interface on the virtual link changed.

Parameters

Parameter Name	Parameter Meaning
[vlink-interface-address]	Indicates the IP address of the interface on the virtual link.
[interface-event]	Indicates the events on the interface.
[interface-previous-state]	Indicates the previous status of the interface.

Parameter Name	Parameter Meaning
[interface-current-state]	Indicates the current status of the interface.
ProcessId	Indicates the ID of an OSPF process.

Possible Causes

The status of the interface on the virtual link changed.

Procedure

Step 1 Run the **display ospf interface** command to check status of the interface.

Step 2 Contact technical support personnel.

----End

98.134 OSPF/3/VLINK_NBR_CHG_DOWN

Message

OSPF/3/VLINK_NBR_CHG_DOWN:Virtual link peer event: neighbor state changed to Down. (ProcessId=[USHORT], NeighborAddress=[IPADDR], NeighborEvent=[STRING], NeighborPreviousState=[STRING], NeighborCurrentState=[STRING])

Description

The neighbor turned Down.

Parameters

Parameter Name	Parameter Meaning
ProcessId	Indicates the ID of an OSPF process.
NeighborAddress	Indicates the IP address of a neighbor.
NeighborEvent	Indicates the event triggered by a neighbor.
NeighborPreviousState	Indicates the previous status of a neighbor.
NeighborCurrentState	Indicates the current status of a neighbor.

Possible Causes

The neighbor on the virtual link turned Down because the neighbor received an OSPF message or the event affecting the neighbor relationship occurred.

Procedure

Step 1 This log message is informational only, and no action is required.

----End