



## **air events**

### **ONTAP 9.11.1 EMS reference**

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# air events

## air.certify events

### air.certify.cancel

#### Severity

ALERT

#### Description

This message occurs when a metadata inconsistency is discovered inside a file system feature that is read-only and therefore cannot be immediately corrected. One or more processes in ONTAP® software might have been canceled when they encountered the inconsistency.

#### Corrective Action

No immediate corrective action is necessary, because the ONTAP process that encountered the inconsistency has been automatically canceled. If the condition persists, contact NetApp technical support for assistance.

#### Syslog Message

AIR certification of %s failed: %s, %s ; message %s canceled for subtype %d

#### Parameters

**fh** (STRING): File handle of the object with an inconsistency.  
**condition** (STRING): Specific metadata validation test that failed.  
**source** (STRING): Location of the failing metadata validation test.  
**msg** (STRING): The ONTAP process that encountered the inconsistency.  
**subtype** (INT): Subtype of the inode encountering the inconsistency.

## air.cleared events

### air.cleared.qtm.entry

#### Severity

NOTICE

#### Description

This message occurs when the Automated Incremental Repair (AIR) subsystem clears an entry in the qtree metafile because of inconsistent data within that entry.

#### Corrective Action

(None).

#### Syslog Message

Qtree entry certification failed at %s. In the qtree metafile %d, AIR cleared an entry that corresponds to the TID %d in volume %s.

#### Parameters

**source** (STRING): Location where qtree entry certification failed.  
**inode** (INT): Inode number of qtree metafile.

**tid** (INT): TID.

**volume** (STRING): Name of the volume.

## air.corrected events

### air.corrected.qtree.tid

#### Severity

NOTICE

#### Description

This message occurs when the Automated Incremental Repair (AIR) subsystem repairs an inode having a corrupted qtree ID.

#### Corrective Action

(None).

#### Syslog Message

Qtree entry certification failed at %s. AIR repaired qtree inode %d: old TID %d, new TID %d, fgindex %d.

#### Parameters

**source** (STRING): Location where qtree entry certification failed.

**inode** (INT): Inode number.

**old\_tid** (INT): Old TID.

**new\_tid** (INT): New TID.

**fgindex** (INT): Fgindex of the qtree root.

## air.disable events

### air.disable.async.delete.cli

#### Severity

ALERT

#### Description

This message occurs when any inconsistency is found with the async delete trashbin directory of a volume.

#### Corrective Action

The "asynchronous directory delete from the client" feature has been disabled on this volume. To re-enable the feature, use the (privilege: advanced) "volume file async-delete client enable" command

#### Syslog Message

The "async directory delete from the client" feature was disabled in volume %s, after an inconsistency was detected with the trashbin directory.

#### Parameters

**volume** (STRING): Name of the volume.

**source** (STRING): Location of the failing metadata validation.

# air.enabled events

## air.enabled.fg.qtree

### Severity

NOTICE

### Description

This message occurs in a FlexGroup, when the qtree support is enabled on the volume, but disabled on one or more constituent volumes. ONTAP® software automatically enabled the qtree support on the relevant constituent volumes.

### Corrective Action

This message indicates that the qtree support is enabled on the volume, but disabled in one or more constituents within the FlexGroup. ONTAP® software automatically enabled the qtree support in the relevant constituent FlexGroup volumes.

### Syslog Message

Enabled qtree support in FlexGroup constituent volume %s after detecting inconsistency in %s.

### Parameters

**volume** (STRING): Name of the volume.

**source** (STRING): Location of the failing metadata validation.

# air.evicted events

## air.evicted.qtm.entry

### Severity

NOTICE

### Description

This message occurs when the Automated Incremental Repair (AIR) subsystem evicts an entry in the qtree metafile because of inconsistent data within that entry.

### Corrective Action

(None).

### Syslog Message

Qtree entry certification failed at %s. In the qtree metafile %d, AIR evicted an entry that corresponds to the TID %d in volume %s.

### Parameters

**source** (STRING): Location where qtree entry certification failed.

**inode** (INT): Inode number of the qtree metafile.

**tid** (INT): TID.

**volume** (STRING): Name of the volume.

## air.fc events

### air.fc.origin.corrupt

#### Severity

ALERT

#### Description

This message occurs when inconsistencies are detected in the origin of this FlexCache® volume. The affected files remain inaccessible from this FlexCache volume until the corrective action is taken.

#### Corrective Action

If the origin of this FlexCache volume is a FlexVol® volume, then run wafliron on the origin FlexVol volume. If the origin is a FlexGroup volume, then list the affected files from a NFS or a CIFS client on the origin volume. For more information or assistance, contact NetApp technical support.

#### Syslog Message

The fh %s in Origin of this FlexCache volume %s%s contains inconsistencies.

#### Parameters

**fh** (STRING): File handle of the affected inode.

**vol** (STRING): FlexCache volume name.

**volident** (STRING): Unique identifier for the volume if volume name alone is insufficient.

## air.qtm events

### air.qtm.rebuild.scan.state

#### Severity

NOTICE

#### Description

This message occurs when the state of a scanner used to rebuild the qtree metafile changes.

#### Corrective Action

(None).

#### Syslog Message

Scanner to rebuild the qtree metafile is %s.

#### Parameters

**state** (STRING): State of the scanner.

## air.removed events

### air.removed.remote.lck.entry

#### Severity

NOTICE

## Description

This message occurs when there is an inconsistency in the remote lock entry metafile. The inconsistent entry is removed upon detection.

## Corrective Action

(None).

## Syslog Message

Remote lock entry %s certification failed: expression %s, source %s, state (%s).

## Parameters

**entry** (STRING): Lock entry type and origin file ID pair describing the entry.

**rlem** (STRING): Describes the metafile to which this lock entry belongs to.

**condition** (STRING): Initial metadata validation test that failed.

**source** (STRING): Location of the failing metadata validation test.

**state** (STRING): Description of the remote lock entry metafile metadata state that was found to be inconsistent.

# air.repaired.events

## air.repaired.bucket.header

### Severity

NOTICE

### Description

This message occurs when ONTAP® discovers an inconsistency in a metadata bucket header record. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

TOC metadata (%s) has an inconsistent record for the bucket upload table (%s). %s.

### Parameters

**toc\_fh** (STRING): File handle of the TOC metadata file.

**upload\_table\_fh** (STRING): File handle of the bucket upload table file.

**state** (STRING): Description of the metadata that was found to be inconsistent.

**condition** (STRING): Initial metadata validation test that failed.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.cbmap

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in the type/subtype of CloudBlockMap metafile. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

CloudBlockMap metafile %s certification failed: %s, %s (%s)

### Parameters

**fh** (STRING): File handle of the affected metafile.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): A description of the CloudBlockMap metafile that was found to be inconsistent.

## air.repaired.cbmap.entry

### Severity

NOTICE

### Description

This message occurs when context mismatch is discovered in any entry of CloudBlockMap metafile. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

%s certification failed: %s, %s (%s)

### Parameters

**fh** (STRING): File handle of the affected metafile.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): A description of the metafile that was found to be inconsistent.

**pvpn** (LONGINT): Inconsistency found in cbmap entry of this PVPN.

## air.repaired.cbmap.header

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in the header of CloudBlockMap metafile. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

%s certification failed: %s, %s (%s)

### Parameters

**fh** (STRING): File handle of the affected metafile.



**condition** (STRING): The initial metadata validation test that failed.  
**source** (STRING): The location of the failing metadata validation test.  
**state** (STRING): A description of the metafile that was found to be inconsistent.

## **air.repaired.chapter.entry**

### **Severity**

NOTICE

### **Description**

This message occurs when an inconsistency is discovered in a metadata record. The inconsistency is automatically repaired immediately upon detection.

### **Corrective Action**

(None).

### **Syslog Message**

Chapter metadata (%s) has inconsistent record for object (%s). Source %s (%s).

### **Parameters**

**chapter\_fh** (STRING): File handle of the metadata file.  
**object\_fh** (STRING): File handle of the object.  
**source** (STRING): Location of the failing metadata validation test.  
**condition** (STRING): Initial metadata validation test that failed.  
**state** (STRING): Description of the metadata that was found to be inconsistent.

## **air.repaired.dir.hole**

### **Severity**

NOTICE

### **Description**

This message occurs when an inconsistency is discovered in the hole list of a directory. The inconsistency is repaired automatically as soon as it is detected.

### **Corrective Action**

(None).

### **Syslog Message**

Directory hole list %s certification failed: %s, %s.

### **Parameters**

**fh** (STRING): File handle of the affected directory.  
**condition** (STRING): Initial metadata validation test that failed.  
**source** (STRING): Location of the failing metadata validation test.

## **air.repaired.dir.inode**

### **Severity**

NOTICE

## Description

This message occurs when an inconsistency is discovered in a directory. The inconsistency is repaired automatically as soon as it is detected.

## Corrective Action

(None).

## Syslog Message

Directory %s certification failed: %s, %s.

## Parameters

**fh** (STRING): File handle of the affected directory.

**condition** (STRING): Initial metadata validation test that failed.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.enc.vvol.info

### Severity

NOTICE

## Description

This message occurs when an inconsistency is discovered in the encryptable aggregate metafile inodes encrypted flexvol information which stores vvol\_bt看id and vvol\_fid. The inconsistency is repaired automatically as soon as it is detected.

## Corrective Action

(None).

## Syslog Message

Inode %s certification failed: %s, %s.

## Parameters

**fh** (STRING): File handle of the affected inode.

**condition** (STRING): Initial metadata validation test that failed.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.fabriclink

### Severity

NOTICE

## Description

This message occurs when a metadata inconsistency is discovered and repaired within an object storage replication data structure.

## Corrective Action

(None).

## Syslog Message

AIR repaired %s, condition %s at %s, object "%s"

## Parameters

**fh** (STRING): File handle of the replication data structure that was found to be inconsistent.  
**expr** (STRING): The nature of the inconsistency that was discovered and repaired.  
**source** (STRING): Location where the metadata inconsistency was detected.  
**object** (STRING): Optionally represents the name of a particular object whose replication state was affected.

## air.repaired.fc.dir

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in any directory in the volume. The inconsistency is repaired automatically as soon as it is discovered.

### Corrective Action

(None).

### Syslog Message

Evicted inconsistent directory with fh %s due to corruption in volume %s.

## Parameters

**fh** (STRING): File handle of the affected inode.  
**volume** (STRING): Name of the volume.

## air.repaired.fc.qtree.id

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in the qtree ID of an inode. The inconsistent inode is evicted automatically as soon as it is discovered.

### Corrective Action

(None).

### Syslog Message

Evicted inconsistent inode with fh %s due to a corrupted qtree ID: qtree ID %d, volume %s.

## Parameters

**fh** (STRING): File handle of the affected inode.  
**tid** (INT): Qtree ID.  
**volume** (STRING): Name of the volume.

## air.repaired.hardlink.i2p

### Severity

NOTICE

## Description

This message occurs when the AIR subsystem repairs an inconsistent inode and previously unreachable hard links are returned to availability.

## Corrective Action

(None).

## Syslog Message

AIR repaired inconsistent hardlink for inode %d: %d %d %s

## Parameters

**inode** (INT): Inode number.  
**parent\_inode** (INT): Parent inode number.  
**link\_count** (INT): Inode link count.  
**volume** (STRING): Name of the volume.

## air.repaired.label.database

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered within a WAFL label database. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

Label database %s certification failed: %s, %s (%s)

### Parameters

**fh** (STRING): File handle of the affected metafile.  
**condition** (STRING): The initial metadata validation test that failed.  
**source** (STRING): The location of the failing metadata validation test.  
**state** (STRING): A description of the metadata that was found to be inconsistent.

## air.repaired.lsm.bfc.lkp

### Severity

NOTICE

### Description

This message occurs when the system detects an inconsistency in the LSM BFC Lookup file. The inconsistency is repaired automatically as soon as it is detected.

### Corrective Action

(None).

### Syslog Message

LSM BFC Lookup file %s was corrected at block %d. Source %s.

## Parameters

**fh** (STRING): File handle of the affected file.

**block** (LONGINT): Block number of the inconsistent block.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.lsm.bloom.file

### Severity

NOTICE

### Description

This message occurs when the system detects an inconsistency in the LSM Bloomfilter file. The inconsistency is repaired automatically as soon as it is detected.

### Corrective Action

(None).

### Syslog Message

LSM Bloomfilter file %s was corrected at block %d. Source %s.

## Parameters

**fh** (STRING): File handle of the affected file.

**block** (LONGINT): Block number of the inconsistent block.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.lsm.info.file

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in the LSM Info file. The inconsistency is repaired automatically as soon as it is detected.

### Corrective Action

(None).

### Syslog Message

LSM Info file %s was corrected at block %d. Source %s.

## Parameters

**fh** (STRING): File handle of the affected file.

**block** (INT): Block number of the inconsistent block.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.lsm.keyspc.file

### Severity

NOTICE

## Description

This message occurs when the system detects an inconsistency in the LSM Keyspace Information file. The inconsistency is repaired automatically as soon as it is detected.

## Corrective Action

(None).

## Syslog Message

Inconsistent LSM Keyspace Information metafile on aggregate "%s" was repaired. Source %s.

## Parameters

**aggregate** (STRING): Name of the aggregate.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.lsm.lookup.file

### Severity

NOTICE

## Description

This message occurs when the system detects an inconsistency in the LSM Lookup file. The inconsistency is repaired automatically as soon as it is detected.

## Corrective Action

(None).

## Syslog Message

LSM Lookup file %s was corrected at block %d. Source %s.

## Parameters

**fh** (STRING): File handle of the affected file.

**block** (LONGINT): Block number of the inconsistent block.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.merkle

### Severity

NOTICE

## Description

This message occurs when an inconsistency is discovered in the metadata (Merkle tree file). Repairs to the Merkle tree file have automatically been started.

## Corrective Action

(None).

## Syslog Message

Merkle file "%s" certification failed: %s, directory ID (%llu), branch ID (%llu), buffer level %d, fbn (%llu), Merkle tree level (%d)

## Parameters

**fh** (STRING): File handle of the Merkle file that needs repairs.  
**condition** (STRING): Initial validation test that failed.  
**dir\_id** (LONGINT): Slice directory ID of the Merkle file.  
**branch\_id** (LONGINT): Slice branch ID of the Merkle file.  
**level** (INT): Buffer level of the Merkle file block.  
**fbn** (LONGINT): File block number (FBN) of the Merkle file.  
**merkle\_level** (INT): Merkle checksum level of the Merkle file.  
**source** (STRING): The location of the failing validation test.

## air.repaired.mpu.catalog

### Severity

NOTICE

### Description

This message occurs when ONTAP® discovers an inconsistency in a multipart upload catalog record of a bucket upload table. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

Bucket upload table (%s) has an inconsistent record for the multipart upload catalog (%s). %s.

## Parameters

**upload\_table\_fh** (STRING): File handle of the bucket upload table file.  
**mp\_catalog\_fh** (STRING): File handle of the multipart catalog file.  
**state** (STRING): Description of the metadata that was found to be inconsistent.  
**condition** (STRING): Initial metadata validation test that failed.  
**source** (STRING): Location of the failing metadata validation test.

## air.repaired.name.info.flags

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in the name information flags of a directory. The inconsistency is repaired automatically as soon as it is detected.

### Corrective Action

(None).

### Syslog Message

Name information flags for directory entry %s corrected at block %d and index %d. Source %s.

## Parameters

**fh** (STRING): File handle of the affected directory.  
**block** (INT): Block number that contains the affected entry  
**index** (INT): Location within the block that holds the affected entry  
**source** (STRING): Location of the failing metadata validation test.

## air.repaired.pct.entry

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in a metadata record. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

PCT metadata has inconsistent record for bucket (%u) file (%u). Source %s (%s, %s).

### Parameters

**bucketid** (INT): Bucket identifier.

**fileid** (INT): File identifier.

**source** (STRING): Location of the failing metadata validation test.

**condition** (STRING): Initial metadata validation test that failed.

**state** (STRING): Description of the metadata that was found to be inconsistent.

## air.repaired.qtree.id

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in the qtree ID of an inode. The inconsistency is repaired automatically as soon as it is discovered.

### Corrective Action

(None).

### Syslog Message

Repaired inconsistent inode with fh %s due to a corrupted qtree ID: Old qtree ID %d, new qtree ID %d, volume %s.

### Parameters

**fh** (STRING): File handle of the affected inode.

**old\_tid** (INT): Old qtree ID.

**new\_tid** (INT): New qtree ID.

**volume** (STRING): Name of the volume.

## air.repaired.qtree.metafile

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in a qtree metafile. The inconsistency is repaired automatically as soon as it is detected.



**Corrective Action**

(None).

**Syslog Message**

Qtree metafile %s

**Parameters**

**details** (STRING): Description of the metadata failure that has been fixed.

**air.repaired.qtree.root****Severity**

NOTICE

**Description**

This message occurs when the system discovers an inconsistency between the qtree file root and a qtree metafile entry. The system repairs this inconsistency automatically, as soon as it detects it.

**Corrective Action**

(None).

**Syslog Message**

Qtree root %s certification failed: %s, %s corrections: %s.

**Parameters**

**fh** (STRING): File handle of the affected qtree root.

**condition** (STRING): Initial metadata validation test that failed.

**source** (STRING): Location of the failing metadata validation test.

**state** (STRING): Description of the metadata that has been fixed.

**air.repaired.rclone.database****Severity**

NOTICE

**Description**

This message occurs when an inconsistency is discovered within the WAFL Remote Clone Database. The inconsistency is automatically repaired immediately upon detection.

**Corrective Action**

(None).

**Syslog Message**

Remote Clone Database %s certification failed: %s, %s (%s)

**Parameters**

**fh** (STRING): File handle of the affected metafile.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): A description of the metafile that was found to be inconsistent.

## **air.repaired.rclone.record**

### **Severity**

NOTICE

### **Description**

This message occurs when an inconsistency is discovered in any record of the WAFL Remote Clone Database. The inconsistency is automatically repaired immediately upon detection.

### **Corrective Action**

(None).

### **Syslog Message**

Remote Clone Record %s certification failed: %s, %s (%s)

### **Parameters**

**fh** (STRING): File handle of the affected record.

**condition** (STRING): The initial record validation test that failed.

**source** (STRING): The location of the failing record validation test.

**state** (STRING): A description of the entry that was found to be inconsistent.

## **air.repaired.remote.index**

### **Severity**

NOTICE

### **Description**

This message occurs when an inconsistency is discovered within the WAFL RAL index. The inconsistency is automatically repaired immediately upon detection.

### **Corrective Action**

(None).

### **Syslog Message**

Remote index %s certification failed: %s, %s (%s)

### **Parameters**

**fh** (STRING): File handle of the affected metafile.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): The RAL index record that was discovered to be incorrect.

## **air.repaired.remote.inode**

### **Severity**

NOTICE

### **Description**

This message occurs when an inconsistency is discovered between a file and its RAL state within WAFL. The inconsistency is automatically repaired immediately upon detection.

**Corrective Action**

(None).

**Syslog Message**

Remote inode %s certification failed: %s, %s (%s)

**Parameters**

**fh** (STRING): File handle of the affected file.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): A description of the RAL state metadata that was found to be inconsistent.

**air.repaired.remote.metafile****Severity**

NOTICE

**Description**

This message occurs when an inconsistency is discovered within a WAFL RAL metafile. The inconsistency is automatically repaired immediately upon detection.

**Corrective Action**

(None).

**Syslog Message**

Remote metafile %s certification failed: %s, %s (%s)

**Parameters**

**fh** (STRING): File handle of the affected metafile.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): A description of the RAL metafile that was found to be inconsistent.

**air.repaired.remote.tallies****Severity**

NOTICE

**Description**

This message occurs when an inconsistency is discovered in the tallies in Remote Entry metafile. The inconsistency is automatically repaired immediately upon detection.

**Corrective Action**

(None).

**Syslog Message**

Remote metafile %s certification failed: %s, %s (%s)

**Parameters**

**fh** (STRING): File handle of the affected metafile.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): A description of the RAL metafile that was found to be inconsistent.

## **air.repaired.rlem.tallies**

### **Severity**

NOTICE

### **Description**

This message occurs when an inconsistency is discovered in the tallies in Remote Lock Entry metafile(RLEM). The inconsistency is automatically repaired immediately upon detection.

### **Corrective Action**

(None).

### **Syslog Message**

Remote lock entry metafile %s certification failed: %s, %s (%s)

### **Parameters**

**fh** (STRING): File handle of the affected metafile.

**rlem** (STRING): Describes the metafile to which this lock entry belongs to.

**condition** (STRING): The initial metadata validation test that failed.

**source** (STRING): The location of the failing metadata validation test.

**state** (STRING): A description of the RLEM that was found to be inconsistent.

## **air.repaired.slice**

### **Severity**

NOTICE

### **Description**

This message occurs when an inconsistency is discovered in the metadata (slice file). Repairs to the slice file from the secondary copy have automatically been started.

### **Corrective Action**

(None).

### **Syslog Message**

Slice file "%s" certification failed: %s, dir ID (%llu), branch ID (%llu), level %d, fbn (%llu)

### **Parameters**

**fh** (STRING): File handle of the slice file that needs repairs.

**condition** (STRING): The initial validation test that failed.

**dir\_id** (LONGINT): Slice directory ID of the slice file.

**branch\_id** (LONGINT): Slice branch ID of the slice file.

**level** (INT): Buffer level of the slice file block.

**fbn** (LONGINT): File block number (FBN) of the slice file.

**source** (STRING): The location of the failing validation test.

## air.repaired.snapinfo.block

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in a Snapinfo metafile block. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

Repaired inconsistent block (%s) found in Snapinfo metafile on volume "%s".

### Parameters

**state** (STRING): Description of the Snapinfo metafile block that was found to be inconsistent.

**volume** (STRING): Name of the volume.

## air.repaired.ssm.iftp.inode

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered in ssm iftp metafile. The inconsistency is repaired automatically as soon as it is detected.

### Corrective Action

(None).

### Syslog Message

AIR vlist metafile %s certification failed: %s, %s.

### Parameters

**fh** (STRING): File handle of the affected metafile.

**condition** (STRING): Initial metadata validation test that failed.

**source** (STRING): Location of the failing metadata validation test.

## air.repaired.toc.entry

### Severity

ALERT

### Description

This message occurs when an inconsistency is discovered in a metadata record. The inconsistency is automatically repaired immediately upon detection. But it can leave behind lost objects that are no longer pointed to by the namespace.

### Corrective Action

The command "object-store-server lost-object-recovery start" under diag privilege can be used to add lost

objects back into namespace. The progress of this command can be monitored using "object-store-server lost-object-recovery show" command.

### Syslog Message

TOC metadata (%s) has inconsistent record for chapter (%s). %s (%s).

### Parameters

**toc\_fh** (STRING): File handle of the TOC metadata file.  
**chapter\_fh** (STRING): File handle of the chapter metadata file.  
**state** (STRING): Description of the metadata that was found to be inconsistent.  
**condition** (STRING): Initial metadata validation test that failed.

## air.repaired.user.ind

### Severity

ERROR

### Description

This message occurs when an inconsistency is discovered in the user indirect block. The inconsistency is repaired automatically immediately upon detection.

### Corrective Action

(None).

### Syslog Message

User indirect %s certification failed: %s (%s)

### Parameters

**fh** (STRING): File handle of the affected file.  
**condition** (STRING): Initial metadata validation test that failed.  
**state** (STRING): Description of the user indirect block that was found to be inconsistent.  
**source** (STRING): Location of the failing metadata validation test.

## air.repaired.vplus

### Severity

NOTICE

### Description

This message occurs when an indexed storage tree is rebuilt to repair a metadata inconsistency that was discovered.

### Corrective Action

(None).

### Syslog Message

AIR vplus rebuild of %s completed for subtype %d

### Parameters

**fh** (STRING): File handle of the storage tree.  
**subtype** (INT): Subtype of the inode encountering the inconsistency.

# air.vplus events

## air.vplus.certify.issue

### Severity

NOTICE

### Description

This message occurs when an inconsistency is discovered inside an indexed storage tree. The inconsistency is automatically repaired immediately upon detection.

### Corrective Action

(None).

### Syslog Message

AIR vplus certification of %s failed: %s, %s for subtype %d

### Parameters

**fh** (STRING): File handle of the storage tree.

**condition** (STRING): Specific metadata validation test that failed.

**source** (STRING): Location of the failing metadata validation test.

**subtype** (INT): Subtype of the inode encountering the inconsistency.

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