



# **Audit message categories**

## **StorageGRID**

NetApp  
March 01, 2022

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# Audit message categories

You should be familiar with the various categories within which audit messages are grouped. These groups are organized based on the class of activity that the message represents.

## System audit messages

You should be familiar with audit messages belonging to the system audit category. These are events related to the auditing system itself, grid node states, system-wide task activity (grid tasks), and service backup operations, so that you can address potential issues.

Code	Message title and description	See
ECMC	Missing Erasure Coded Data Fragment: Indicates that a missing erasure coded data fragment has been detected.	<a href="#">ECMC: Missing Erasure Coded Data Fragment</a>
ECOC	Corrupt Erasure Coded Data Fragment: Indicates that a corrupt erasure coded data fragment has been detected.	<a href="#">ECOC: Corrupt Erasure Coded Data Fragment</a>
ETAF	Security Authentication Failed: A connection attempt using Transport Layer Security (TLS) failed.	<a href="#">ETAF: Security Authentication Failed</a>
GNRG	GNDS Registration: A service updated or registered information about itself in the StorageGRID system.	<a href="#">GNRG: GNDS Registration</a>
GNUR	GNDS Unregistration: A service has unregistered itself from the StorageGRID system.	<a href="#">GNUR: GNDS Unregistration</a>
GTED	Grid Task Ended: The CMN service finished processing the grid task.	<a href="#">GTED: Grid Task Ended</a>
GTST	Grid Task Started: The CMN service started to process the grid task.	<a href="#">GTST: Grid Task Started</a>
GTSU	Grid Task Submitted: A grid task was submitted to the CMN service.	<a href="#">GTSU: Grid Task Submitted</a>

Code	Message title and description	See
IDEL	ILM Initiated Delete: This audit message is generated when ILM starts the process of deleting an object.	<a href="#">IDEL: ILM Initiated Delete</a>
LKCU	Overwritten Object Cleanup. This audit message is generated when an overwritten object is automatically removed to free up storage space.	<a href="#">LKCU: Overwritten Object Cleanup</a>
LLST	Location Lost: This audit message is generated when a location is lost.	<a href="#">LLST: Location Lost</a>
OLST	Object Lost: A requested object cannot be located within the StorageGRID system.	<a href="#">OLST: System Detected Lost Object</a>
ORLM	Object Rules Met: Object data is stored as specified by the ILM rules.	<a href="#">ORLM: Object Rules Met</a>
SADD	Security Audit Disable: Audit message logging was turned off.	<a href="#">SADD: Security Audit Disable</a>
SADE	Security Audit Enable: Audit message logging has been restored.	<a href="#">SADE: Security Audit Enable</a>
SVRF	Object Store Verify Fail: A content block failed verification checks.	<a href="#">SVRF: Object Store Verify Fail</a>
SVRU	Object Store Verify Unknown: Unexpected object data detected in the object store.	<a href="#">SVRU: Object Store Verify Unknown</a>
SYSD	Node Stop: A shutdown was requested.	<a href="#">SYSD: Node Stop</a>
SYST	Node Stopping: A service initiated a graceful stop.	<a href="#">SYST: Node Stopping</a>
SYSU	Node Start: A service started; the nature of the previous shutdown is indicated in the message.	<a href="#">SYSU: Node Start</a>

Code	Message title and description	See
VLST	User Initiated Volume Lost: The <code>/proc/CMSI/Volume_Lost</code> command was run.	<a href="#">VLST: User Initiated Volume Lost</a>

#### Related information

[LKCU: Overwritten Object Cleanup](#)

## Object storage audit messages

You should be familiar with audit messages belonging to the object storage audit category. These are events related to the storage and management of objects within the StorageGRID system. These include object storage and retrievals, grid-node to grid-node transfers, and verifications.

Code	Description	See
APCT	Archive Purge from Cloud-Tier: Archived object data is deleted from an external archival storage system, which connects to the StorageGRID through the S3 API.	<a href="#">APCT: Archive Purge from Cloud-Tier</a>
ARCB	Archive Object Retrieve Begin: The ARC service begins the retrieval of object data from the external archival storage system.	<a href="#">ARCB: Archive Object Retrieve Begin</a>
ARCE	Archive Object Retrieve End: Object data has been retrieved from an external archival storage system, and the ARC service reports the status of the retrieval operation.	<a href="#">ARCE: Archive Object Retrieve End</a>
ARCT	Archive Retrieve from Cloud-Tier: Archived object data is retrieved from an external archival storage system, which connects to the StorageGRID through the S3 API.	<a href="#">ARCT: Archive Retrieve from Cloud-Tier</a>
AREM	Archive Object Remove: A content block was successfully or unsuccessfully deleted from the external archival storage system.	<a href="#">AREM: Archive Object Remove</a>

Code	Description	See
ASCE	Archive Object Store End: A content block has been written to the external archival storage system, and the ARC service reports the status of the write operation.	<a href="#">ASCE: Archive Object Store End</a>
ASCT	Archive Store Cloud-Tier: Object data is stored to an external archival storage system, which connects to the StorageGRID through the S3 API.	<a href="#">ASCT: Archive Store Cloud-Tier</a>
ATCE	Archive Object Store Begin: Writing a content block to an external archival storage has started.	<a href="#">ATCE: Archive Object Store Begin</a>
AVCC	Archive Validate Cloud-Tier Configuration: The account and bucket settings provided were successfully or unsuccessfully validated.	<a href="#">AVCC: Archive Validate Cloud-Tier Configuration</a>
CBSE	Object Send End: The source entity completed a grid-node to grid-node data transfer operation.	<a href="#">CBSE: Object Send End</a>
CBRE	Object Receive End: The destination entity completed a grid-node to grid-node data transfer operation.	<a href="#">CBRE: Object Receive End</a>
SCMT	Object Store Commit: A content block was completely stored and verified, and can now be requested.	<a href="#">SCMT: Object Store Commit</a>
SREM	Object Store Remove: A content block was deleted from a grid node, and can no longer be requested directly.	<a href="#">SREM: Object Store Remove</a>

## Client read audit messages

Client read audit messages are logged when an S3 or Swift client application makes a request to retrieve an object.

Code	Description	Used by	See
SGET	<p>S3 GET: Logs a successful transaction to retrieve an object or list the objects in a bucket.</p> <p><b>Note:</b> If the transaction operates on a subresource, the audit message will include the field S3SR.</p>	S3 client	<a href="#">SGET: S3 GET</a>
SHEA	S3 HEAD: Logs a successful transaction to check for the existence of an object or bucket.	S3 client	<a href="#">SHEA: S3 HEAD</a>
WGET	Swift GET: Logs a successful transaction to retrieve an object or list the objects in a container.	Swift client	<a href="#">WGET: Swift GET</a>
WHEA	Swift HEAD: Logs a successful transaction to check for the existence of an object or container.	Swift client	<a href="#">WHEA: Swift HEAD</a>

## Client write audit messages

Client write audit messages are logged when an S3 or Swift client application makes a request to create or modify an object.

Code	Description	Used by	See
OVWR	Object Overwrite: Logs a transaction to overwrite one object with another object.	<p>S3 clients</p> <p>Swift clients</p>	<a href="#">OVWR: Object Overwrite</a>
SDEL	<p>S3 DELETE: Logs a successful transaction to delete an object or bucket.</p> <p><b>Note:</b> If the transaction operates on a subresource, the audit message will include the field S3SR.</p>	S3 client	<a href="#">SDEL: S3 DELETE</a>

Code	Description	Used by	See
SPOS	S3 POST: Logs a successful transaction to restore an object from AWS Glacier storage to a Cloud Storage Pool.	S3 client	<a href="#">SPOS: S3 POST</a>
SPUT	<p>S3 PUT: Logs a successful transaction to create a new object or bucket.</p> <p><b>Note:</b> If the transaction operates on a subresource, the audit message will include the field S3SR.</p>	S3 client	<a href="#">SPUT: S3 PUT</a>
SUPD	S3 Metadata Updated: Logs a successful transaction to update the metadata for an existing object or bucket.	S3 client	<a href="#">SUPD: S3 Metadata Updated</a>
WDEL	Swift DELETE: Logs a successful transaction to delete an object or container.	Swift client	<a href="#">WDEL: Swift DELETE</a>
WPUT	Swift PUT: Logs a successful transaction to create a new object or container.	Swift client	<a href="#">WPUT: Swift PUT</a>

## Management audit message

The Management category logs user requests to the Management API.

Code	Message title and description	See
MGAU	Management API audit message: A log of user requests.	<a href="#">MGAU: Management audit message</a>



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