



What Event Management System events are Active IQ Unified Manager

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What Event Management System events are

The Event Management System (EMS) collects event data from different parts of the ONTAP kernel and provides event forwarding mechanisms. These ONTAP events can be reported as EMS events in Unified Manager. Centralized monitoring and management eases configuration of critical EMS events and alert notifications based on these EMS events.

The Unified Manager address is added as a notification destination to the cluster when you add the cluster to Unified Manager. An EMS event is reported as soon as the event occurs in the cluster.

There are two methods for receiving EMS events in Unified Manager:

- A certain number of important EMS events are reported automatically.
- You can subscribe to receive individual EMS events.

The EMS events that are generated by Unified Manager are reported differently depending on the method in which the event was generated:

| Functionality | Automatic EMS messages | Subscribed EMS messages |
|---|---|--|
| Available EMS events | Subset of EMS events | All EMS events |
| EMS message name when triggered | Unified Manager event name (converted from EMS event name) | Non-specific in the format "Error EMS received". The detailed message provides the dot-notation format of the actual EMS event |
| Messages received | As soon as the cluster has been discovered | After adding each required EMS event to Unified Manager, and after the next 15 minute polling cycle |
| Event life cycle | Same as other Unified Manager events: New, Acknowledged, Resolved, and Obsolete states | The EMS event is made obsolete after the cluster is refreshed, after 15 minutes, from when the event was created |
| Captures events during Unified Manager downtime | Yes, when the system starts up it communicates with each cluster to acquire missing events | No |
| Event details | Suggested corrective actions are imported directly from ONTAP to provide consistent resolutions | Corrective actions not available in Event Details page |



Some of the new automatic EMS events are Informational events that indicate that a previous event has been resolved. For example, the "FlexGroup Constituents Space Status All OK" Informational event indicates that the "FlexGroup Constituents Have Space Issues" Error event has been resolved. Informational events cannot be managed using the same event life cycle as other event severity types, however, the event is obsoleted automatically if the same volume receives another "Space Issues" Error event.

EMS events that are added automatically to Unified Manager

The following ONTAP EMS events are added automatically to Unified Manager. These events will be generated when triggered on any cluster that Unified Manager is monitoring.

The following EMS events are available when monitoring clusters running ONTAP 9.5 or greater software:

| Unified Manager Event name | EMS Event name | Affected resource | Unified Manager severity |
|---|----------------------------|-------------------|--------------------------|
| Cloud Tier Access Denied for Aggregate Relocation | arl.netra.ca.check.failed | Aggregate | Error |
| Cloud Tier Access Denied for Aggregate Relocation During Storage Failover | gb.netra.ca.check.failed | Aggregate | Error |
| FabricPool Mirror Replication Resync Completed | wafl.ca.resync.complete | Cluster | Error |
| FabricPool Space Nearly Full | fabricpool.nearly.full | Cluster | Error |
| NVMe-oF Grace Period Started | nvmf.graceperiod.start | Cluster | Warning |
| NVMe-oF Grace Period Active | nvmf.graceperiod.active | Cluster | Warning |
| NVMe-oF Grace Period Expired | nvmf.graceperiod.expired | Cluster | Warning |
| LUN Destroyed | lun.destroy | LUN | Information |
| Cloud AWS MetaDataConnFail | cloud.aws.metadataConnFail | Node | Error |

| Unified Manager Event name | EMS Event name | Affected resource | Unified Manager severity |
|---------------------------------------|------------------------------|-------------------|--------------------------|
| Cloud AWS IAMCredsExpired | cloud.aws.iamCredsExpired | Node | Error |
| Cloud AWS IAMCredsInvalid | cloud.aws.iamCredsInvalid | Node | Error |
| Cloud AWS IAMCredsNotFound | cloud.aws.iamCredsNotFound | Node | Error |
| Cloud AWS IAMCredsNotInitialized | cloud.aws.iamNotInitialized | Node | Information |
| Cloud AWS IAMRoleInvalid | cloud.aws.iamRoleInvalid | Node | Error |
| Cloud AWS IAMRoleNotFound | cloud.aws.iamRoleNotFound | Node | Error |
| Cloud Tier Host Unresolvable | objstore.host.unresolvable | Node | Error |
| Cloud Tier Intercluster LIF Down | objstore.interclusterlifDown | Node | Error |
| Request Mismatch Cloud Tier Signature | osc.signatureMismatch | Node | Error |
| One of NFSv4 Pools Exhausted | Nblade.nfsV4PoolExhaust | Node | Critical |
| QoS Monitor Memory Maxed | qos.monitor.memory.maxed | Node | Error |
| QoS Monitor Memory Abated | qos.monitor.memory.abated | Node | Information |
| NVMeNS Destroy | NVMeNS.destroy | Namespace | Information |
| NVMeNS Online | NVMeNS.offline | Namespace | Information |
| NVMeNS Offline | NVMeNS.online | Namespace | Information |
| NVMeNS Out of Space | NVMeNS.out.of.space | Namespace | Warning |

| Unified Manager Event name | EMS Event name | Affected resource | Unified Manager severity |
|---|-------------------------------|--------------------------|---------------------------------|
| Synchronous Replication Out Of Sync | sms.status.out.of.sync | SnapMirror relationship | Warning |
| Synchronous Replication Restored | sms.status.in.sync | SnapMirror relationship | Information |
| Synchronous Replication Auto Resync Failed | sms.resync.attempt.failed | SnapMirror relationship | Error |
| Many CIFS Connections | Nblade.cifsManyAuths | SVM | Error |
| Max CIFS Connection Exceeded | Nblade.cifsMaxOpenSameFile | SVM | Error |
| Max Number of CIFS Connection Per User Exceeded | Nblade.cifsMaxSessPerUserConn | SVM | Error |
| CIFS NetBIOS Name Conflict | Nblade.cifsNbNameConflict | SVM | Error |
| Attempts to Connect Nonexistent CIFS Share | Nblade.cifsNoPrivShare | SVM | Critical |
| CIFS Shadow Copy Operation Failed | cifs.shadowcopy.failure | SVM | Error |
| Virus Found By AV Server | Nblade.vscanVirusDetected | SVM | Error |
| No AV Server Connection for Virus Scan | Nblade.vscanNoScannerConn | SVM | Critical |
| No AV Server Registered | Nblade.vscanNoRegdScanner | SVM | Error |
| No Responsive AV Server Connection | Nblade.vscanConnInactive | SVM | Information |
| AV Server too Busy to Accept New Scan Request | Nblade.vscanConnBackPressure | SVM | Error |
| Unauthorized User Attempt to AV Server | Nblade.vscanBadUserPrivAccess | SVM | Error |

| Unified Manager Event name | EMS Event name | Affected resource | Unified Manager severity |
|---|---|-------------------|--------------------------|
| FlexGroup Constituents Have Space Issues | flexgroup.constituents.have.space.issues | Volume | Error |
| FlexGroup Constituents Space Status All OK | flexgroup.constituents.space.status.all.ok | Volume | Information |
| FlexGroup Constituents Have Inodes Issues | flexgroup.constituents.have.inodes.issues | Volume | Error |
| FlexGroup Constituents Inodes Status All OK | flexgroup.constituents.inodes.status.all.ok | Volume | Information |
| Volume Logical Space Nearly Full | monitor.vol.nearFull.increase | Volume | Warning |
| Volume Logical Space Full | monitor.vol.full.increase | Volume | Error |
| Volume Logical Space Normal | monitor.vol.one.ok.increase | Volume | Information |
| WAFL Volume AutoSize Fail | wafl.vol.autoSize.fail | Volume | Error |
| WAFL Volume AutoSize Done | wafl.vol.autoSize.done | Volume | Information |
| WAFL READDIR File Operation Timeout | wafl.readdir.expired | Volume | Error |

Subscribing to ONTAP EMS events

You can subscribe to receive Event Management System (EMS) events that are generated by systems that are installed with ONTAP software. A subset of EMS events are reported to Unified Manager automatically, but additional EMS events are reported only if you have subscribed to these events.

What you'll need

Do not subscribe to EMS events that are already added to Unified Manager automatically as this can cause confusion when receiving two events for the same issue.

You can subscribe to any number of EMS events. All the events to which you subscribe are validated, and only the validated events are applied to the clusters you are monitoring in Unified Manager. The *ONTAP 9 EMS Event Catalog* provides detailed information for all of the EMS messages for the specified version of ONTAP 9

software. Locate the appropriate version of the *EMS Event Catalog* from the ONTAP 9 Product Documentation page for a list of the applicable events.

ONTAP 9 Product Library

You can configure alerts for the ONTAP EMS events to which you subscribe, and you can create custom scripts to be executed for these events.



If you do not receive the ONTAP EMS events to which you have subscribed, there might be an issue with the DNS configuration of the cluster which is preventing the cluster from reaching the Unified Manager server. To resolve this issue, the cluster administrator must correct the DNS configuration of the cluster, and then restart Unified Manager. Doing so will flush the pending EMS events to the Unified Manager server.

Steps

1. In the left navigation pane, click **Storage Management > Event Setup**.
2. In the Event Setup page, click the **Subscribe to EMS events** button.
3. In the Subscribe to EMS events dialog box, enter the name of the ONTAP EMS event to which you want to subscribe.

To view the names of the EMS events to which you can subscribe, from the ONTAP cluster shell, you can use the `event route show` command (prior to ONTAP 9) or the `event catalog show` command (ONTAP 9 or later).

How to configure and receive alerts from ONTAP EMS Event Subscription in Active IQ Unified Manager

4. Click **Add**.

The EMS event is added to the Subscribed EMS events list, but the Applicable to Cluster column displays the status as “Unknown” for the EMS event that you added.

5. Click **Save and Close** to register the EMS event subscription with the cluster.
6. Click **Subscribe to EMS events** again.

The status “Yes” appears in the Applicable to Cluster column for the EMS event that you added.

If the status is not “Yes”, check the spelling of the ONTAP EMS event name. If the name is entered incorrectly, you must remove the incorrect event, and then add the event again.

When the ONTAP EMS event occurs, the event is displayed on the Events page. You can select the event to view details about the EMS event in the Event details page. You can also manage the disposition of the event or create alerts for the event.

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