



## **crypto events**

### **ONTAP 9.15.1 EMS reference**

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# crypto events

## crypto.debug events

### crypto.debug

**Severity**

INFORMATIONAL

**Description**

The Crypto module debug event.

**Corrective Action**

(None).

**Syslog Message**

%s.

**Parameters**

**debug\_string** (STRING): Description of the event being logged.

## crypto.export events

### crypto.export.failed

**Severity**

ALERT

**Description**

This message occurs when the export of a cryptographic key fails.

**Corrective Action**

This message might be seen when attempting to create an encrypted volume. Contact NetApp technical support if further attempts to create the encrypted volume fail.

**Syslog Message**

ERROR: Export of key with key ID %s failed. Additional information: %s.

**Parameters**

**key\_id** (STRING): Key ID for the cryptographic key.

**msg** (STRING): Associated failure message.

## crypto.import events

### crypto.import.failed

**Severity**

ALERT

## Description

This message occurs when the import of a cryptographic key fails.

## Corrective Action

This message might be seen when attempting to bring an encrypted volume online. Contact NetApp technical support if manual attempts to bring the encrypted volume online fail.

## Syslog Message

ERROR: Import of key with key ID %s failed. Additional information: %s.

## Parameters

**key\_id** (STRING): Key ID for the cryptographic key.

**msg** (STRING): Associated failure message.

# crypto.key events

## crypto.key.deleted

### Severity

NOTICE

### Description

This message occurs when a cryptographic key is deleted.

### Corrective Action

(None).

### Syslog Message

Deleted key with key ID %s. Reason %s.

### Parameters

**key\_id** (STRING): Key ID for the cryptographic key.

**reason** (STRING): Reason for deletion.

## crypto.key.stored

### Severity

NOTICE

### Description

This message occurs when a cryptographic key is stored.

### Corrective Action

(None).

### Syslog Message

Stored key with key ID %s. Key digest: %s.

### Parameters

**key\_id** (STRING): Key ID for the cryptographic key.

**key\_digest** (STRING): Key digest for the cryptographic key.

## crypto.okmrecovery events

### crypto.okmrecovery.failed

#### Severity

ALERT

#### Description

This message occurs when the Onboard Key Manager (OKM) recovery command in the boot menu fails to recover the OKM hierarchy. Without the the OKM hierarchy, volumes encrypted using OKM will not come online, and you will not be able to use OKM to encrypt volumes.

#### Corrective Action

This message is usually seen when an incorrect cluster passphrase was entered during a previous boot menu recovery command. Often, using the "security key-manager onboard sync" command will resolve the situation. If that does not fix the problem, the OKM hierarchy can be recovered during the boot process. To recover the OKM hierarchy during the boot process, enter option 10 ("Set Onboard Key Manager recovery secrets.") at the boot menu prompt. You will need to have the cluster passphrase and a copy of the output from the "security key-manager backup show" command. If the boot menu recovery process fails again, contact NetApp technical support.

#### Syslog Message

Import of the Onboard Key Manager (OKM) hierarchy has failed: %s. Additional information: %s.

#### Parameters

**failure\_msg** (STRING): Message describing which operation failed.

**additional\_msg** (STRING): Additional information regarding the failure.

## crypto.ssal events

### crypto.ssal.failed

#### Severity

ALERT

#### Description

This message occurs when a Secure Storage Access Layer(SSAL) operation fails. This might cause import of the onboard key hierarchy to fail and might result in a temporary loss of access to any data secured using the SSAL.

#### Corrective Action

(Call support).

#### Syslog Message

SSAL operation failed: %s. %s

#### Parameters

**failure\_msg** (STRING): Message describing which operation failed.

**additional\_msg** (STRING): Additional information regarding the failure.

## **crypto.ssal.tpm.clear**

### **Severity**

NOTICE

### **Description**

This message occurs when a Trusted Platform Module(TPM) clear operation is performed successfully. A TPM clear operation can happen while reverting to a previous release or when the "security tpm clear" command was executed. A TPM clear operation clears out the TPM and resets it with a new seed for the TPM's storage hierarchy.

### **Corrective Action**

(None).

### **Syslog Message**

A TPM clear operation has been completed successfully.

### **Parameters**

(None).

## **crypto.ssal.tpm.reset**

### **Severity**

NOTICE

### **Description**

This message occurs when a Trusted Platform Module(TPM) reset operation is performed successfully. A TPM reset operation can happen when the node boots up for the first time or when the "security tpm reset" command was executed. A TPM reset operation clears out the TPM and resets it with a new seed for the TPM's storage hierarchy. The TPM then generates a new primary key under the same hierarchy and makes it persistent.

### **Corrective Action**

(None).

### **Syslog Message**

A TPM reset operation has been completed successfully.

### **Parameters**

(None).

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