



## Fabric Messages

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This section contains all Fabric (hardware and software both) related System Error Messages.

### FAB\_SVR Messages

#### Error Message

```
%FABRIC-FAB_SVR-7-ERR_ASIC_INIT Failed to initialize the CPU control ASIC interface to [chars]: [chars]. Exiting...
```

**Explanation** Fabric server encountered an error while initializing the CPU control ASIC to either receive packets from the fabricq ASIC or transmit packets from the ingressq ASIC. This is crucial for the process and is automatically restarted on this failure.

**Recommended Action** If problem either persists (following a process restart) then Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FAB_SVR-7-ERR_EVENT_CONN_CREATE Failed to create event connection to EVM, Reason: [chars]([dec]). Exiting...
```

**Explanation** Fabric server encountered an error while trying to create a connection to event manager to manage the posix message queue. This facility is deemed crucial and the process automatically restarts on this failure.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FAB\_SVR-7-ERR\_EVENT\_CONN\_EVM\_HANDLER Failed to register event handler, Reason: [chars]([dec]). Exiting...

**Explanation** Fabric server encountered an error while trying to register event handler for the posix message queue. This facility is deemed crucial and the process automatically restarts on this failure.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FAB\_SVR-7-ERR\_EVENT\_CONN\_NOTIFY Failed to register handler for disconnection with EVM, Reason: [chars]([dec]). Exiting...

**Explanation** Fabric server encountered an error while trying to register event handler for disconnection or connection error event. This facility is deemed crucial and the process automatically restarts on this failure.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FAB\_SVR-7-ERR\_EVENT\_CONN\_OPEN Failed to open connection with EVM, Reason: [chars]([dec]). Exiting...

**Explanation** Fabric server encountered an error while trying to open connection with event manager. This facility is deemed crucial and the process automatically restarts on this failure.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FAB\_SVR-7-ERR\_EVM\_CREATE Failed to create the event manager. Reason: [chars]. Exiting...

**Explanation** Fabric server encountered an error while attempting to create an event manager. This failure affects the ability of the process to service various messages / pulses from other threads / processes. This facility is deemed crucial and the process automatically restarts on this failure. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FAB_SVR-7-ERR_INIT [chars] during the initialization. Reason: [chars].  
Exiting...
```

**Explanation** Fabric server encountered the specified error during the initialization sequence. This facility is deemed crucial and hence the process is automatically restarted on this failure. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FAB_SVR-7-ERR_THREAD_ATTRIBUTE Failed to set the thread attribute:  
[chars]. Exiting...
```

**Explanation** Fabric server encountered an error while setting the thread attribute during the process initialization sequence. This is crucial for the process and is automatically restarted on this failure.

**Recommended Action** If the problem is experienced only by this process in the system, restart the fabric server process by executing the following command at the CLI of the active RP: process restart fab\_svr location loc If problem either persists (following a process restart) or also noticed on other processes then Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FAB_SVR-7-ERR_THREAD_MUTEX_INIT Failed to initialize a mutex for client  
with ID [dec]: [chars]. Exiting...
```

**Explanation** Fabric server encountered an error while creating a mutex for use by a client with the specified ID. This is crucial for the process and is automatically restarted on this failure.

**Recommended Action** If the problem is experienced only by this process in the system, restart the fabric server process by executing the following command at the CLI of the active RP: process restart fab\_svr location loc If problem either persists (following a process restart) or also noticed on other processes then Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# FABQ Messages

## Error Message

`%FABRIC-FABQ-0-PRP3_FAULT_RECOVERY_ERR` The fault recovery procedure for the ToFab component of the fabric driver has failed. The root fault was: [chars]

**Explanation** When a hardware fault occurs and the device driver cannot correct it, the Platform Manager is required to reset the ASICs. This error indicates that the Platform Manager failed to reset the ASICs and the hardware on the PRP may not be in an operational state. This condition affects the functionality of the entire router. %s is the Interrupt Source.

**Recommended Action** If the system has not failed over automatically and a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured you will need to reboot the router by issuing the reload command. Call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

`%FABRIC-FABQ-2-PRP3_DRVR_INIT_ERROR` Process initialization failed: ([chars]%s)

**Explanation** PRP fabric queue process failed to initialize. The fabric driver process handles fabric connectivity. It initializes the packet FPGA and coordinates with that fabric DLLs that allow applications to send and receive packets via the fabric. An unrecoverable failure of the process may prevent this route processor from communicating with other cards in the chassis. %s - indicates the reason for the failure. %s - is the error reason.

**Recommended Action** If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-2-PRP3_PKT_INIT_ERROR Packet carving failed to initialize:
([chars]%s)
```

**Explanation** Initial carving of a packet particle pool failed. Platform specific memory region, packet header and particle pool configuration information are required by the generic packet manager process (PAKMAN) to operate. A failure in packet carving initialization may prevent this route processor from communicating with other cards in the chassis. %s - indicates the reason for the failure. %s - is the error reason.

**Recommended Action** If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-FATAL FABQ: fatal error encountered, reason equals [chars]
```

**Explanation** Fabric Queue Driver encountered a fatal error and is not able recover from the error. A reason text will be supplied. Call support with this text.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-INIT_ERROR Process initialization failed: ([chars]%s)
```

**Explanation** PRP fabric queue process failed to initialize. The fabric queue process handles fabric connectivity. It initializes and starts up the threads in ToFab and FrFab components. An unrecoverable failure of the process may prevent this route processor from communicating with other cards in the chassis. %s - indicates the reason for the failure. %s - is the error reason.

**Recommended Action** If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PKT_INIT_ERROR Packet carving failed to initialize: ([chars]%)s)
```

**Explanation** Initial carving of a packet particle pool failed. Platform specific memory region, packet header and particle pool configuration information are required by the generic packet manager process (PAKMAN) to operate. A failure in packet carving initialization may prevent this route processor from communicating with other cards in the chassis. %s - indicates the reason for the failure. %s - is the error reason.

**Recommended Action** If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PKT_INIT_FAIL PKT_INIT: [chars] failed, rc equals [dec],
reason: [chars]
```

**Explanation** Packet carving function has failed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PKT_INIT_POOL PKT_INIT: particle_multi_pool_define failed
([chars]), rc equals [dec], reason:[chars]
```

**Explanation** Initial carving of a packet particle pool has failed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PRP3_FABMSG Fabric messaging infrastructure error: ([chars]%)s)
```

**Explanation** PRP fabric messaging infrastructure failed. The fabric driver process handles fabric connectivity. It initializes the packet FPGA and coordinates with that fabric DLLs that allow applications to send and receive packets via the fabric. An unrecoverable failure of the process may prevent this route processor from communicating with other cards in the chassis. %s - indicates the reason for the failure. %s - is the error reason.

**Recommended Action** If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where

x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

### Error Message

```
%FABRIC-FABQ-3-PRP3_FRFAB_PKT_NO_STREAM Client([dec]) Port([dec]) From Fabric Packet from slot [dec] has invalid Stream ID([dec])
```

**Explanation** The packet received from the fabric begins with a header with Stream ID not initialized. The issue can happen due to hardware issue or the sender of the packet encoded invalid information in the packet header. %d - Client ID. Every process that uses the fabric API has a unique Client ID. %d - Port number (0 to 15) %d - Sender's slot number (0 to 15) %d - Stream ID encoded in the packet's header

**Recommended Action** If the error recurs very frequently call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

### Error Message

```
%FABRIC-FABQ-3-PRP3_FRFAB_PKT_STARTOFFSET Client([dec]) Port([dec]) From Fabric Packet from slot [dec] has invalid Start Offset([dec])
```

**Explanation** The packet received from the fabric begins with a header with Start Offset less than the required. This suggests the packet is corrupted. The issue can happen due to hardware issue or the sender of the packet encoded invalid information in the packet header. %d - Client ID. Every process that uses the fabric API has a unique Client ID. %d - Port number (0 to 15) %d - Sender's slot number (0 to 15) %d - Start Offset encoded in the packet's header

**Recommended Action** If the error recurs very frequently call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

### Error Message

```
%FABRIC-FABQ-3-PRP3_FRFAB_TAIL_PAR_ERR Client([dec]) Port([dec]) Fabric FPGA detects parity error from a packet received from the fabric
```

**Explanation** The Hummer detects a parity error on a packet received from the fabric. This is likely due to a hardware issue, or software misconfigured the hardware. %d - Client ID. Every process that uses the fabric API has a unique Client ID. %d - Port number (0 to 15)

**Recommended Action** The prp3\_fabric\_driver process should be able to detect the error and decide to reset fabric FPGA if necessary. If the error is persistent, and router traffic is affected, and if the system has not failed over automatically and a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is

configured you will need to reboot the router by issuing the reload command. Call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FABQ-3-PRP3_HW_IRQ_ERR Port([dec]) Interrupt([dec]) - [chars]: [chars]
```

**Explanation** An error is detected when the software is trying to service an interrupt from the Hummer FPGA. Hummer is the fabric packet processing FPGA on the route processor. There are 16 bidirectional ports for 16 different traffic streams. A Hummer port needs to be enabled in the hardware level in order to function. A failure in servicing the Hummer interrupt may prevent this route processor from communicating with other cards in the chassis. %d - indicates the port number (0 to 15) %d - interrupt number that identifies the type %s - a description of the interrupt event failure %s - is the error reason

**Recommended Action** Try restarting the process where the error message was found. Otherwise, try the following: If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FABQ-3-PRP3_IRQ_ERR Fabric FPGA Error Interrupt: [chars]
```

**Explanation** An error is detected when the software is trying to service an interrupt from the Hummer fabric FPGA. Hummer is the fabric packet processing FPGA on the route processor. There are 16 bidirectional ports for 16 different traffic streams. A Hummer port needs to be enabled in the hardware level in order to function. An error status interrupt may indicate a hardware condition that may prevent this route processor from communicating with other cards in the chassis.

**Recommended Action** If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FABQ-3-PRP3_PORT_DISABLE_ERR Cannot disable port([dec]): [chars]
```

**Explanation** Failed to disable Hummer port. Hummer is the fabric packet processing FPGA on the route processor. There are 16 bidirectional ports for 16 different traffic streams. A Hummer port needs to be enabled in the hardware level in order to function. A failure in disabling the Hummer



port may prevent this route processor from communicating with other cards in the chassis. It points to a HW issue or a serious software defects. %d - indicates the port number (0 to 15) %s - is the error reason.

**Recommended Action** Try restarting the process where the error message was found. Otherwise, try the following: If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

### Error Message

```
%FABRIC-FABQ-3-PRP3_PORT_ENABLE_ERR Cannot enable port([dec]): [chars]
```

**Explanation** Failed to enable Hummer port. Hummer is the fabric packet processing FPGA on the route processor. There are 16 bidirectional ports for 16 different traffic streams. A Hummer port needs to be enabled in the hardware level in order to function. A failure in enabling the Hummer port may prevent this route processor from communicating with other cards in the chassis. %d - indicates the port number (0 to 15) %s - is the error reason.

**Recommended Action** Try restarting the process where the error message was found. Otherwise, try the following: If a redundant route processor card has been configured: 1 - force a failover with the following command in admin mode: 'redundancy switchover' 2 - reload the route processor card that failed with the following command in admin mode: 'reload location RP/0/x/CPU0' where x is the slot of route processor that generated the error. If no redundant RP is configured, you will need to reboot the router by issuing the reload command. If the error recurs call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

### Error Message

```
%FABRIC-FABQ-3-PRP3_REUSE_NO_BUFFER Client([dec]) Port([dec]) Packet passed to client cannot be reused since there is no buffer
```

**Explanation** The packet processing code formats packets from the fabric and passes them to the clients. When the client finished with the packet, the packet processing code cannot reuse the packet buffer because none is found associated with the packet. The issue can happen due to a software issue with the client. %d - Client ID. Every process that uses the fabric API has a unique Client ID. %d - Port number (0 to 15)

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PRP3_SHM shared memory failed during [chars]: [chars]
```

**Explanation** An internal software error occurred that prevented the fabric interface from working properly with shared memory.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PRP3_TOFAB_CREDIT_CNT_EXCEEDED RP To Fabric Credit Count([dec])
for destination slot [dec] is greater than the limit. Port([dec])
```

**Explanation** PRP3 fabric hardware requires software to track To Fabric hardware resources for each chassis slot. During the update of this shared per slot information, software detected the resources for this slot exceeded that actual maximum available. This is likely the side affect of a packet resource management event in the fabric driver DLL. %d To Fabric count that exceeds maximum %d The slot associated with the error %d The fabric application port that detected the error (but not necessarily the port that caused the error.

**Recommended Action** The error is likely a software bug in tofab packet error or process restart handling. Copy the error message exactly as it appears and report it to your Cisco technical representative together with the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PRP3_TOFAB_QUEUE_BLOCKED RP To Fabric Queue slot:[dec] is
blocked, report fault to sysldr
```

**Explanation** The PRP3 to fabric queue of the particular priority and slot is blocked. This means packets that go that slot of that priority will fail. In addition, at least one of the multicast queues (high or low priority) is blocked as well. This likely means the particular slot is failing to accept packets and will cause back pressure on the PRP to fabric queue. Because of hardware design, if a multicast packet includes the one faulty slot then it will be stuck in the tofab multicast queue, and subsequent multicast packets will be stuck even if they do not include the faulty slot in their slotmask. Having the unicast queue blocked is somewhat allowable, but having the multicast queue blocked is not acceptable. This error message is raised when both unicast and multicast are blocked. In order to alleviate this problem, the fault is sent to sysldr, for sysldr to decide to reload the slot. It is very likely that the problem slot was not accepting packets. slot:%d is the slot that is back pressuring to the PRP

**Recommended Action** The slot should be reloaded to correct the problem, if not done already by sysldr. Copy the error message exactly as it appears and report it to your Cisco technical representative together with the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-PRP3_TX_DONE_RING  RP To Fabric Tx Done Ring. Port:[dec] Index:
[dec]: [chars]
```

**Explanation** While servicing To Fabric packets which the PRP3 Fabric FPGA indicates have been transmitted, software detects differences between hardware packet list and software cache of what was to be transmitted. Port:%d the PRP3 hardware fabric port that reported the issue Index:%d the index of the Tx Done Ring when error reported %s a description of the To Fabric event failure

**Recommended Action** Copy the error message exactly as it appears and report it to your Cisco technical representative together with the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-3-SHOW_ERR  FABQ_SHOW: fatal error encountered: [chars]
```

**Explanation** Error while executing a show command

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABQ-6-PKT_INIT_INFO  PKT_INIT: pak mem size:[hex], pak mem start: [hex],
pak scaling:[dec]
```

**Explanation** Information on packet memory carving

**Recommended Action** This is information and does not require any correction.

**Error Message**

```
%FABRIC-FABQ-7-PKT_INIT_INFO  Packet initialization: pak mem size:[hex], pak mem
start: [hex], pak scaling:[dec]
```

**Explanation** Information on packet memory carving.

**Recommended Action** This is informational and does not require any correction.

**Error Message**

```
%FABRIC-FABQ-7-PRP3_PKT_INIT_INFO  Packet initialization: pak mem size:[hex], pak
mem start: [hex], pak scaling:[dec]
```

**Explanation** Information on packet memory carving.

**Recommended Action** This is informational and does not require any correction.

# FABRIC\_DRIVER\_LITE Messages

## Error Message

%FABRIC-FABRIC\_DRIVER\_LITE-3-ERR\_ASIC\_ACCESS\_EXCEPTION Fabric ASIC access timed out (reported by lite process)

**Explanation** This indicates that the fabric ASIC failed to acknowledge an access request from the CPU. This can happen if the host CPU tries to access an address that is out of range for the ASIC. Also, accessing a register from a block that is still in the logic reset state could stall this access and subsequent accesses to the ASIC.

**Recommended Action** If this condition is noticed for every access to the ASIC, then the ASIC is possibly wedged. Resetting the ASIC or reloading the fabric card will help to recover from this condition. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FABRIC\_DRIVER\_LITE-3-ERR\_DRIVER\_INIT Initialization of fabric driver lite failed: [chars] ; exiting...

**Explanation** Fabric driver encountered the announced error during the driver initialization. The System Manager process (sysmgr) will automatically respawn the (sfe\_drvr\_lite) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FABRIC\_DRIVER\_LITE-3-ERR\_EVM\_CREATE Failed to create event manager for '[chars]'

**Explanation** The Fabric driver was unable to create an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr\_lite) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRIVER\_LITE-3-ERR\_SHMEM\_INIT Shared Memory Error: [chars]

**Explanation** Attempt to init/open the shared memory fails

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRIVER\_LITE-3-ERR\_THREAD\_ATTRIBUTE FABRIC driver lite failed to change interrupt thread to an IO thread: [chars]

**Explanation** The Fabric driver was unable to change the interrupt thread to an IO thread. Because of this failure, the interrupt thread will not be able to receive the interrupt thread events. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr\_lite) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRIVER\_LITE-4-ERR\_LTRACE\_INIT Fabric driver lite failed to initialize the ltrace - rc equals [chars]

**Explanation** The Fabric driver could not open/initialize the ltrace buffer. The Fabric driver and the system should still function as normal, with the exception that ltrace will not be available for sfe\_drvr process.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRIVER\_LITE-6-ASIC\_INITIALIZED Fabric ASICs initialized (reported by lite process)

**Explanation** This indicates Fabric ASICs are initialized and is expected during normal operation.

**Recommended Action** No action is required.

# FABRIC\_DRV Messages

## Error Message

`%FABRIC-FABRIC_DRV-2-ERR_MAINTENANCE_MODE Failed to put card in maintenance mode by sysmgr. error code([hex]) - [chars]`

**Explanation** Fabric driver detected hardware errors and requested sysmgr to place the card in maintenance mode. But sysmgr failed to do so. The card and its fabric ASICs should have been isolated from the system before attempting going to maintenance mode.

**Recommended Action** Check the health of the sysmgr process on the node. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

`%FABRIC-FABRIC_DRV-2-ERR_SHUTDOWN Failed to shutdown by shelfmgr. error code([hex]) - [chars]`

**Explanation** Fabric driver detected hardware errors and requested shelfmgr to shut down the node. But shelfmgr failed to do so. The card and its fabric ASICs should have been isolated from the system before the shutdown attempt.

**Recommended Action** Check the health of the shelfmgr process on the RP in its rack. If shelfmgr is healthy, and the card cannot self reload, then reload the card with the following command in admin mode: 'hw shut loc y/SMx/sp', where x is the SM module number that generated the error, y is the rack that it is in. If manual shutdown does not work, or if the error recurs, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

`%FABRIC-FABRIC_DRV-3-ERRRATE_EXCEED_GLACIAL [chars] ; Node Key equals [hex]`

**Explanation** The Fabric driver encountered the annunciated error. For Error Node Keys - 0x1050016; 0x1050018; 0x105001A : This indicates a hardware problem in Fabric ASIC. If the displayed error is one of the following 'Correctable Single-Bit Error in Cell Reference FIFO' 'Correctable Single-Bit Error in Reference Count Table' 'Correctable Single-Bit Error in Cell Store SRAM' The data will be corrected. The number of correctable single-bit errors occur on reading these memory is aggregated, When the aggregate count exceeds threshold (2 in 2 days), This ios msg is reported. The shelf-mgr reloads the fabric card.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRVR-3-ERR\_BOARD\_PLD\_VERSION Fabric Board PLD Version ([dec]) not supported. Upgrade to latest.

**Explanation** This indicates that the fabric board is running with PLD version that is not supported. Version lower than (0x1c) is not supported. Please upgrade to the latest PLD Version.

**Recommended Action** Shut down the plane associated to this fabric card, and upgrade the PLD Version of this board. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRVR-3-ERR\_DRV\_INIT Initialization of fabric driver failed: [chars] ; exiting...

**Explanation** Fabric driver encountered the announced error during the driver initialization. The System Manager process (sysmgr) will automatically respawn the (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRVR-3-ERR\_EVM\_CREATE Failed to create event manager for '[chars]'

**Explanation** The Fabric driver was unable to create an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRVR-3-ERR\_FGID\_ACCESS Fabric Board Going down. FGID access being aborted.

**Explanation** One or more ASICs for the stage on the fabric card are being reset. Hence this multicast FGID access operation for the specified stage is aborted. This may be seen on any SM node going down, during asic reset cleanup process.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRV R-3-ERR\_FGID\_REFRESH Request [dec] to refresh FGID entry [hex].

**Explanation** An FGID entry is disabled following a parity error. A request to refresh the entry is issued.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRV R-3-ERR\_FGID\_REFRESH\_RETRY Failed to refresh FGID entry. Reload the fabric card.

**Explanation** An FGID entry is disabled following a parity error. Request to refresh the entry wasn't entertained. This will reload the fabric card to recover.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRV R-3-ERR\_FGID\_WRITE Device(s) being reset. [chars] FGID write to offset [hex] aborted.

**Explanation** One or more ASICs for the stage on the fabric card are in being reset. Hence this multicast FGID write operation for the specified stage is aborted.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRV R-3-ERR\_MAX\_TOPO\_TIME\_OUT Maximum attempts to receive topology information exceeded. Restarting sfe\_drv r ...

**Explanation** This indicates that the maximum tries for the driver to receive the necessary topology information to initialize the asic has exceeded. The driver will not continually re-request topology information.

**Recommended Action** Check if all the required fabric cards are UP and running.



**Error Message**

```
%FABRIC-FABRIC_DRVР-3-ERR_POD_INIT Failed to initialize POD for node: [hex],  
error : [chars]; exiting...
```

**Explanation** Fabric Driver failed to initialize one of the POD hardware modules. The System Manager process (sysmgr) will automatically respawn the (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABRIC_DRVР-3-ERR_RELOAD Failed to reload. [chars]
```

**Explanation** Fabric driver encountered an error when trying to reload. The card cannot be reloaded at the time of the message. Fabric driver may retry again when resources and conditions are met. The card and its fabric ASICs should have been isolated from the system.

**Recommended Action** Check the health of the shelfmgr process on the dSC RP. If shelfmgr is healthy, and the card does not reload after waiting for minutes, reload the card with the following command in admin mode: 'reload loc 0/SMx/sp', where x is the SM module number that generated the error. If manual reload does not work, or if the error recurs, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FABRIC_DRVР-3-ERR_SELF_RELOAD Failed to reload by shelfmgr. error  
code([hex]) Self-reloading...
```

**Explanation** Fabric driver encountered a system error which shelfmgr cannot reload the node. The fabric driver self-reloads instead. The card and its fabric ASICs should have been isolated from the system before the self-reload.

**Recommended Action** Check the health of the shelfmgr process on the dSC RP. If shelfmgr is healthy, and the card cannot self reload, then reload the card with the following command in admin mode: 'reload loc y/SMx/sp', where x is the SM module number that generated the error, and y is the rack that it is in. If manual reload does not work, or if the error recurs, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRV-3-ERR\_STUCK\_BARRIER\_FLOW Barriers stuck for type [dec] at phase [dec] [curr: [hex] prev: [hex]] on [chars].

**Explanation** Barrier flow of certain type is stuck at identified phase on the specified ASIC.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRV-3-ERR\_THREAD\_ATTRIBUTE FABRIC driver failed to change interrupt thread to an IO thread: [chars]

**Explanation** The Fabric driver was unable to change the interrupt thread to an IO thread. Because of this failure, the interrupt thread will not be able to receive the interrupt thread events. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRV-3-ERR\_TIMER\_START Leaf Timer Failed to start. Timer Type: [dec].

**Explanation** Fabric driver could not start timer.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRV-3-ERR\_WAITING\_FOR\_TOPO\_TIMED\_OUT Driver timed out waiting for topology information. Attempt re-request for topology.

**Explanation** This indicates that the driver has not received the necessary topology information to initialize the asic. The driver will continually re-request topology. This message can also be seen in a multichassis system when a fabric card is pulled out or powered down and the other end is still up and running or if the plane config for this card is missing.

**Recommended Action** Check if all the required fabric cards are UP and running.

**Error Message**

%FABRIC-FABRIC\_DRVR-4-ERR\_LTRACE\_INIT Fabric driver failed to initialize the ltrace - rc equals [chars]

**Explanation** The Fabric driver could not open/initialize the ltrace buffer. The Fabric driver and the system should still function as normal, with the exception that ltrace will not be available for sfe\_drvr process.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRVR-6-ASIC\_INITIALIZED Fabric ASICs initialized

**Explanation** This indicates Fabric ASICs are initialized and is expected during normal operation.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRVR-6-BARRIER\_FLOW\_STARTED Barrier flow started on all ASICs

**Explanation** Barriers started flowing on all the nodes/types.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRVR-6-DLL\_LOAD SEA ASIC driver loaded

**Explanation** Fabric driver loaded for the SEA asics.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_DRVR-6-MISSING\_PLANE\_CONFIG Plane config is missing or inconsistent.

**Explanation** Missing admin plane configuration for this module.

**Recommended Action** Check the admin plane configuration to ensure that it corresponds with the actual physical topology of the system. If this configuration looks correct then contact support, otherwise correct the configuration and the system should recover.

**Error Message**

%FABRIC-FABRIC\_DRVR-7-ERRRATE\_EXCEED\_DEBUG [chars]

**Explanation** The fabric driver encountered the annunciated error. If the displayed error is one of the following 'Multicast High Priority Acknowledge Barrier Timeout' 'Multicast Low Priority Acknowledge Barrier Timeout' 'Unicast High Priority Acknowledge Barrier Timeout' 'Unicast Low Priority Acknowledge Barrier Timeout' 'Multicast High Priority Request Barrier Timeout'

'Multicast Low Priority Request Barrier Timeout' 'Unicast High Priority Request Barrier Timeout' 'Unicasts Low Priority Request Barrier Timeout' The Fabric driver and the System should still continue to function as normal. The affected link will be identified and taken offline momentarily. These errors are expected during OIR operations. If the error happens during steady state, investigation should be done for other unexpected oir events. If there is no other unexpected oir or anything, and the issue happened 2 in 2 days, then some effort should be done to identify the source link.

**Recommended Action** No action is required.

#### Error Message

```
%FABRIC-FABRIC_DRV-7-ERR_BP_CFG [chars]: Error in Back pressure configuration,
BP Groups : [dec], [dec], [dec]
```

**Explanation** The Fabric driver encountered an error in back pressure configuration. This indicates BP configuration received from the fabric control software is incorrect. If this condition prevails, it could impact data traffic when fabric gets congested.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FABRIC_DRV-7-ERR_DEBUG_REG Fabric driver failed to register with the
debug; rc equals [chars]
```

**Explanation** The Fabric driver was unable to register with the debug. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FABRIC_DRV-7-ERR_INTERNAL_SW [chars]
```

**Explanation** The Fabric driver encountered the announced internal SW error. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRV-7-ERR\_LINK\_TOPO Topology mismatch for [chars]

**Explanation** The upstream information received from idle cells on this link does not match with FSDB information.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_DRV-7-LINK\_SHUT\_DOWN Fabric Link: [chars] - Shutdown: [chars]

**Explanation** The Fabric driver encountered an error on the announced Fabric Switching Element link and the link is brought down.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FABRIC\_SRVR Messages

**Error Message**

%FABRIC-FABRIC\_SRVR-3-ERR\_ANNOUNCE EES announcement failed, rc equals [chars]

**Explanation** EES domain enabling failed. This will prevent ucd/mcd messages to be exchanged between the applications and driver.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_SRVR-3-ERR\_DRV\_INIT Initialization of fabric driver failed:  
[chars] ; exiting...

**Explanation** Fabric driver encountered the announced error during the driver initialization. The System Manager process (sysmgr) will automatically respawn the (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-3-ERR\_EES\_REG EES registration failed, rc equals [chars]

**Explanation** EES domain enabling failed. This will prevent ucd/mcd messages to be exchanged between the applications and driver.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_SRVR-3-ERR\_ENABLE [chars] failed for [dec], rc equals [chars]

**Explanation** The driver failed to enable/disable inter-process communication with fgid\_server. This will prevent ucd/mcd messages to be exchanged between fgid\_server and driver.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-3-ERR\_EVM\_CREATE Failed to create event manager for '[chars]'

**Explanation** The Fabric driver was unable to create an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-3-ERR\_FGID\_CONS\_THREAD Process sfe\_drvr will be restarted. Asic status(oper\_up/avl\_map) equals [hex]/[hex]. Cfg availability (topo/oob/bpe) equals [hex]/[hex]/[hex].

**Explanation** This is an error message and is seen in the abnormal condition when the fgid consumer thread fails to start successfully. Fgid consumer thread will successfully start if all the asics are operationally up. If the asics do not report oper-up within the timeout period fgid\_consumer thread cannot be started. As a consequence SFE Driver is restarted. avl\_map is a bitmap representing all the asics that are required to be operationally up to successfully start the fgid consumer thread. The oper\_up bitmap indicates the asics that are currently operationally up. The topo/oob/bpe information indicates which of the asics have received the specific (topo/oob/bpe) configuration.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_SRVR-3-ERR\_FGID\_DOWNLOAD\_FAILED Initial FGID Download failed (after total delay of [dec] secs)

**Explanation** The message is seen when initial FGID download from the FGID server to SFE driver does not get completed even after multiple attempts to reset the EES connection. This means the communication between SFE driver and FGID driver is broken and indicates a EES transport issue.

**Recommended Action** Capture the output of the CLIs as specified in required\_info and contact your Cisco technical support representative. Once the required information is captured, a restart of sfe\_drvr process on the affected fabric card, followed by a restart of fgid\_server process on the appropriate RP/DRP can be attempted to recover from this error.

**Error Message**

%FABRIC-FABRIC\_SRVR-3-RESET\_ALL\_ASICS FDI request to reset all the ASICs on the fabric board.

**Explanation** Process a request received from FSDB to reset all the ASICs on the fabric card.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_SRVR-4-ERR\_ECM\_CREATE Failed to create Event Connection Manager : [chars]

**Explanation** The Fabric driver was unable to create an event connection manager for EDM. Fabric driver and the System should continue to function as normal, with the exception that the 'show' commands for Fabric driver will not be available.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-4-ERR\_ECM\_NOTIFY Failed to register with ECM to receive notifications : [chars]

**Explanation** The Fabric driver was unable register with ECM to receive notifications when the connection to Sysdb goes down/up/closed. Fabric driver and the System should continue to function as normal, with the exception that the 'show' commands for Fabric driver will not be available.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-4-ERR\_FGID\_DOWNLOAD Initial FGID Download did not complete within timeout period ([dec] secs). Retrying.

**Explanation** The message is seen when initial FGID download from the FGID server to SFE driver does not get completed. Generally this indicates a transient EES transport issue. The SFE driver will try to recover from this error by resetting the EES connection to FGID server.

**Recommended Action** There is no specific manual intervention needed to be taken by the customer for this message. As mentioned in the explanation, SFE driver will try to recover from this situation on its own. However, if this message is being seen often, then please capture the output of the CLIs mentioned in the required\_info, and contact Cisco technical support representative.

**Error Message**

%FABRIC-FABRIC\_SRVR-4-ERR\_LTRACE\_INIT Fabric driver failed to initialize the ltrace - rc equals [chars]

**Explanation** The Fabric driver could not open/initialize the ltrace buffer. The Fabric driver and the system should still function as normal, with the exception that ltrace will not be available for sfe\_drvr process.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_SRVR-6-ASIC\_RESET\_REASONS Asics being reset, Respawn Count equals [dec] Checkpoint status equals [dec] Interrupt Status equals [hex] ASICs are ready equals [dec]

**Explanation** This message is seen when fabric ASICs are being reset. The status reported here provide information about the reason for the reset.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_SRVR-6-FAB\_MODULE [chars]

**Explanation** This is to give information regarding fabric module type.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FABRIC\_SRVR-6-INVALID\_CARD\_TYPE\_ERROR Cannot find board revision

**Explanation** The message is seen when we fail to read the EEPROM for board revision. Check platform libraries and i2c bus connectivity.

**Recommended Action** Check the EEPROM programming, environmental condition and the type of board that is inserted.



**Error Message**

%FABRIC-FABRIC\_SRVR-7-ERR\_BAG\_REG [chars]

**Explanation** The Fabric driver was unable to register Fabric driver bags. The Fabric driver and the System should continue to function as normal, with the exception that the 'show' commands for Fabric driver will not be available.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-7-ERR\_DEBUG\_INIT Fabric driver failed to initialize the debug; rc equals [chars]

**Explanation** The Fabric driver was unable to initialize debug. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-7-ERR\_DEBUG\_REG Fabric driver failed to register with the debug; rc equals [chars]

**Explanation** The Fabric driver was unable to register with the debug. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-7-ERR\_INTERNAL\_SW [chars]

**Explanation** The Fabric driver encountered the announced internal SW error. The System Manager process (sysmgr) will automatically respawn this (sfe\_drvr) process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRIC\_SRVR-7-ERR\_SYSDB\_EDM\_REG [chars]

**Explanation** The Fabric driver was unable to become an external data manager (EDM) despite having a connection to SysDB. The operation will be retried. The Fabric driver and the System should continue to function as normal, with the exception that the 'show' commands for Fabric driver will not be available.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FABRICQ\_MGR Messages

**Error Message**

%FABRIC-FABRICQ\_MGR-3-ERR\_FBP\_CFG Fabricq received an invalid FBP config.  
[chars]

**Explanation** The Fabricq received an invalid FBP configuration. This could lead in traffic drops and Out of Resources condition on MSCs. The process is restarted to attempt a recovery.

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ\_MGR-3-ERR\_INIT Initialization Error: [chars] Reason: [chars].  
Exiting.

**Explanation** Fabricq manager encountered a fatal error and is not able recover from the error. A reason text will be supplied call support with this text.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-3-ERR\_MEM\_ALLOC Error Allocating [dec] bytes of memory

**Explanation** Fabricq encountered a fatal memory allocation error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-4-ERR\_CHKPT\_INIT Checkpoint Initialization failed. Reason: [chars]

**Explanation** Fabricq Checkpoint Init error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_BAG\_REG Bag register failed for rules. Reason: [chars]

**Explanation** EDM Bags are used to share information between components using sysdb. This Error indicates that bag registration failed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_CLIENT\_REG Client [chars] failed. Reason: [chars]

**Explanation** Fabricq Manager client Registration/Unregistration error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_DLL\_INIT Dll Initialization for [chars] failed.  
Reason: [chars]

**Explanation** Fabricq driver tried to register for a dll but it encountered an error. The driver might lose some of its functionality.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_EVM\_CREATE Event Manager create failed for [chars].  
Reason: [chars]

**Explanation** Fabricq Event Manager create error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_EVM\_NOTIFY Event Manager notify failed for [chars].  
Reason: [chars]

**Explanation** Fabricq Event Manager notify error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_LWM\_EVENT\_BLOCK LWM Event Manager event block failed.  
Reason: [chars]

**Explanation** Fabricq Event Manager event block error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_LWM\_REPLY An error occurred during LWM message reply.  
Reason: [chars]

**Explanation** Fabricq LWM reply error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ\_MGR-7-ERR\_SYSDB\_EDM\_REG Sysdb Register EDM failed. Reason:  
[chars]

**Explanation** Fabricq Sysdb Register EDM error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# FABRICQ Messages

## Error Message

%FABRIC-FABRICQ-3-ERR\_ASIC\_FCRAM\_ASSERT Assert error in Fabricq ASIC [dec].  
FCRAM Channel [dec].

**Explanation** Fabricq ASIC encountered a FCRAM Channel error

**Recommended Action** \*SUPPORT\*

## Error Message

%FABRIC-FABRICQ-3-ERR\_BIST Error during [chars] BIST

**Explanation** Fabricq BIST error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FABRICQ-3-ERR\_INIT Instance: [dec]. Error: [chars]

**Explanation** Fabricq Asic driver encountered a fatal error and is not able recover from the error. A reason text will be supplied call support with this text.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FABRICQ-3-ERR\_RX\_FBP Fabricq ASIC received incorrect FBP bitmap. [chars]

**Explanation** The Fabricq ASIC is configured to expect fabric back pressure information for a particular set of groups on a small set of links. This error indicates that incoming back pressure information doesn't match the expected config. The process restarts itself to attempt a recovery.

**Recommended Action** \*SUPPORT\*

## Error Message

%FABRIC-FABRICQ-3-PCL\_CCNT\_ERR Major error in PCL of fabricq asic [dec]: [chars]  
data.

**Explanation** Sponge encountered a PCL cell count mismatch error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-3-PCL\_CSLOT\_SYNC Major internal error in PCL of fabricq asic [dec]: [chars].

**Explanation** Sponge encountered a PCL internal error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-3-PCL\_PKT Minor error in PCL of fabricq asic [dec]. [chars]

**Explanation** Sponge encountered a PCL Packet error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-3-PCL\_XCELL\_ERR Major error in PCL of fabricq asic [dec]: [chars]

**Explanation** Sponge encountered a PCL extra cell error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-3-RESET Resetting Fabricq ASIC Device [dec]. Reason: [chars]

**Explanation** Resetting Fabricq ASIC on detecting fatal error.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ-4-ERR\_ASIC\_MBE Fabricq Asic [dec] detected multibit error(s). Details: [chars]

**Explanation** Fabricq Asic encountered a memory uncorrectable error

**Recommended Action** The multi-bit errors can happen in one of many blocks of the fabricq ASIC. One of them is the Fabric Interface (FI). If these error messages are generated for short intervals for FI links when a fabric card is disabled / reloaded / OIR'ed, then they are harmless. If these messages continue for more than 2 minutes, with incrementing uncorrectable error (UCE) counters, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ-4-ERR\_ASIC\_PARITY Fabricq Asic [dec] detected parity error(s).  
Details: [chars]

**Explanation** Fabricq Asic encountered a parity error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-4-ERR\_ASIC\_SN\_LINK Fabricq ASIC [dec] encountered a CpuCtrl  
[chars] error

**Explanation** Fabricq ASIC encountered a CpuCtrl CRC/Sync error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-4-FI\_LINK\_ALARM Link Alarm on Fabricq ASIC [dec] link [dec]

**Explanation** Fabricq ASIC encountered a link alarm

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-4-FI\_LINK\_BRINGDOWN Fabric link [dec] on ASIC [dec] may be  
brought down due to too many errors

**Explanation** A fabric link was brought down due to too many UCE or parity errors.

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-4-FI\_TOPOLOGY Fabric topology inconsistency detected for ASIC  
[unsigned int] link [unsigned int] (observed topology information: [hex],  
expected: [hex])

**Explanation** An inconsistency between the expected and observed topologies of the fabric was  
detected.

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-4-MI\_WEDGE Major error in Fabricq ASIC [dec]. MI [chars] Wedged

**Explanation** Fabricq ASIC encountered a MI Unicast/Multicast Wedge error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-4-PSN\_WRAP Major error in PCL of Fabricq ASIC [dec]: [chars] .  
[hex] spo\_pcl\_mem\_ppbr [hex][hex]%08x[hex]%08x[hex]%08x[hex]

**Explanation** Fabricq encountered a PCL Packet Sequence Wrap error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-5-ERR\_RES\_PROG Error during Resource Programming [chars]  
[unsigned int] Reason: [chars]

**Explanation** An error occurred while the Fabricq driver was trying to create queues for an interface. This may leave one or more interfaces out of operation.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FABRICQ-5-MI\_BPDECODE Major error in Fabricq ASIC [dec]. MI [chars]  
Backpressure decode error

**Explanation** Fabricq ASIC encountered a MI Unicast/Multicast BP Decode error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-6-ERR\_ASIC\_EOP Minor error in Fabricq ASIC [dec]. [chars] End of  
Packet error

**Explanation** Fabricq ASIC encountered a Unicast/Multicast Unexpected/Missing End Of Packet error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-6-ERR\_ASIC\_GENERIC Fabricq ASIC [dec] encountered generic  
error(s). Details: [chars]

**Explanation** Fabricq encountered an interrupt that has exceeded its threshold value. Software takes appropriate action to log and fix the error.

**Recommended Action** No action is required.



**Error Message**

%FABRIC-FABRICQ-6-ERR\_ASIC\_OOR Fabricq Asic [dec] encountered [chars] Out Of Resources error.

**Explanation** Fabricq encountered an out of resources error.

**Recommended Action** Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

**Error Message**

%FABRIC-FABRICQ-6-ERR\_ASIC\_SBE Fabricq Asic [dec] detected single bit error(s). Details: [chars]

**Explanation** Fabricq Asic encountered a memory correctable error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-6-SPI\_FBP Minor error: Cluster: [dec] in Fabricq ASIC [dec] has SPI FBP [chars] error

**Explanation** The Fabricq asic encountered a fabric back pressure error. These sort of errors are to be expected during bootup or during OIR events, and are harmless for the vast majority of the time. The only time they would signify a serious error is if they recur for long periods.

**Recommended Action** If these messages are recurring and/or you're seeing other faults (such as traffic loss) then contact your support agent.

**Error Message**

%FABRIC-FABRICQ-6-URG\_CTX Minor error in PCL of Fabricq asic [dec]. Urgent Context exceeded 5 equals [hex]

**Explanation** Fabricq encountered a PCL Urgent Context error

**Recommended Action** \*SUPPORT\*

**Error Message**

%FABRIC-FABRICQ-7-ERR\_DMA Error during DMA transfer: Source Addr [hex], Dest Addr [pointer]. Reason: [chars]

**Explanation** An error occurred while a DMA transfer initiated by the FQM process was taking place. This means certain data requested by the FQM process will not be available.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# FDI Messages

## Error Message

```
%FABRIC-FDI-2-ERR_CONNECTION [chars]; Conn_id equals [dec] Conn_name equals [chars]
```

**Explanation** The FDI library encountered the announced connection error.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

```
%FABRIC-FDI-2-ERR_INTERNAL_SW [chars] ; rc equals [chars]
```

**Explanation** The FDI encountered the announced internal sw error.

**Recommended Action** No action is required.

## Error Message

```
%FABRIC-FDI-2-ERR_MSG_TYPE FDI received incorrect message type - [dec] from mid ([dec]:[dec]:[dec])
```

**Explanation** FDI received incorrect message type and failed to process the message. The System Manager process (sysmgr) will automatically respawn the process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

```
%FABRIC-FDI-3-EES_ANNOUNCEMENT_ERR EES Announcement Failed: [chars]
```

**Explanation** This process encountered an internal software error. [chars] provide detailed information about this error Process will restart to recover from this error.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FDI-3-ERR_BUFF_Q  FDI Buffers are full; Conn_id [dec]. Data_Size [dec].  
Buffer_states ([dec] [dec])
```

**Explanation** FDI buffers are full and FDI can't buffer any more messages. Buffer will fill up for 2 main reasons: 1. Receiver is blocked and not able to return ack 2. Some kind of transport problem. In such cases, FDI would flap the connection and flush the buffers hoping that conditions 1 or 2 were transient.

**Recommended Action** Examine the state of GSP on the node of the FDI application. Collect gsp statistics for the sender and receiver application. Also determine if receiver application was ever blocked during the time buffer went full. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FDI-3-ERR_CORRUPT_MSG  Possible Corrupt Msg Returned By GSP Case ([chars])
```

**Explanation** --

**Recommended Action** Examine the state of GSP on the node of the FDI application. Collect gsp statistics for the sender and receiver application. Also determine if receiver application was ever blocked during the time buffer went full. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FDI-3-ERR_SEND_FAIL  Unable to send message to peer [dec]-[hex]-[dec]:  
[chars]
```

**Explanation** An unexpected error occurred while sending an message. Process will restart to recover from this error.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FDI-7-ERR_COMM_SYSTEM_ERROR  IPC non blocking communication failed to  
group id: [dec], tag [hex] - id [dec], seq [dec], status [dec]: [chars]
```

**Explanation** The FDI Library uses gsp\_group\_memberset\_nb ( non blocking api ). Any errors are communicated back via a callback. These errors are considered bad, since it is likely a member did not receive a message. These errors returned are communicated via this msg. This may indicate some transport issue.

**Recommended Action** Restart application may be required, if messages continued to be logged.

**Error Message**

%FABRIC-FDI-7-ERR\_DEBUG\_CLEAN FDI library failed to cleanup FDI debug info in debug infrastructure ; rc equals [chars]

**Explanation** The FDI library was unable to cleanup FDI debug info in debug infrastructure. The System should still continue to function as normal.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FDI-7-ERR\_DEBUG\_INIT FDI library failed to initialize debug for fdi - [chars]; rc equals [chars]

**Explanation** The FDI library was unable to initialize debug. The FDI component and the System should still continue to function as normal, with the exception that the debugs will not be available for FDI.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FDI-7-ERR\_DEBUG\_REG FDI library failed to register with debug infrastructure ; rc equals [chars]

**Explanation** The FDI library was unable to register with debug infrastructure. The FDI component and the System should still continue to function as normal, with the exception that the debugs will not be available for FDI.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FDI-7-ERR\_EDM\_INIT [chars]; rc equals [chars]

**Explanation** The FDI Library encountered the announced EDM Initialization error. The System should still continue to function as normal, with the exception that the 'show' commands for FDI will not be available.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FDI-7-ERR_GROUP_MEMBER_ALREADY_EXISTS Group ([dec]) Member ([dec]:[dec]:[dec]) already exists overriding with latest member info([dec]:[dec]:[dec]).
```

**Explanation** A member is attempting to be added to a group with an entry already present. The member likely did not get cleaned up correctly. Assumed latest member info is correct, and override existing entry.

**Recommended Action** No action is required.

**Error Message**

```
%FABRIC-FDI-7-ERR_MEMBER_ALREADY_EXISTS Member [chars] entry already exists and registered. Updating with new member info.
```

**Explanation** The FDI Library has received a new member notification for a member that already exists in the FDI db, and registered. Possible that we failed to cleanup old member, or a delayed new member msg. There should be no system impact as FDI will just update with the latest info.

**Recommended Action** No action is required.

**Error Message**

```
%FABRIC-FDI-7-ERR_MEM_ALLOC FDI failed to allocate [dec] bytes
```

**Explanation** The FDI was unable to allocate memory.

**Recommended Action** Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

**Error Message**

```
%FABRIC-FDI-7-ERR_MSG_SEQ_GT Out of sequence (greater than) message received from [chars] [chars] reset connection.
```

**Explanation** The FDI Library encountered an internal error with a message received. Since one message is active at one time, the message received should be the next expected seqnum. This may indicate system resource issue, or a period where system is heavily loaded. If message persists, application may need to be restarted.

**Recommended Action** Restart application may be required, if messages continued to be logged.

# FEATURE\_LPTS Messages

## Error Message

%FABRIC-FEATURE\_LPTS-3-ERR\_DOUBLE\_FREE Double free of FGID [dec]

**Explanation** --

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FEATURE\_LPTS-3-ERR\_FGID\_DB\_RETRIES\_EXCEEDED Number of unknown errors from FGID-DB ([dec]) has exceeded maximum

**Explanation** A software error occurred, when the PA attempted to allocate FGID's from the FGID aggregator.

**Recommended Action** The process will attempt to recover by restarting. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FEATURE\_LPTS-3-ERR\_UNALLOCATED\_FREE Attempt to free unallocated FGID [dec]

**Explanation** --

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FEATURE\_LPTS-3-ERR\_UNKNOWN\_FGID\_DB\_ERROR Unknown error from FGID-DB, [chars] FGID [dec] [[dec]]([dec], [dec]): [chars]

**Explanation** --

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# FGID\_AGG Messages

## Error Message

```
%FABRIC-FGID_AGG-3-ERR_DEBUG_INIT fgid_aggregator unable to initialize dbg ; rc equals [chars]
```

**Explanation** The FGID Aggregator was unable to initialize debug. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

```
%FABRIC-FGID_AGG-3-ERR_EVM_CREATE FGID Aggregator failed to create [chars] evm ; rc equals [chars]
```

**Explanation** The FGID aggregator was unable to create an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

```
%FABRIC-FGID_AGG-3-ERR_EVM_SYNC_ATTACH FGID Aggregator failed to attach [chars] to evm ; rc equals [chars]
```

**Explanation** The FGID Aggregator was unable to attach the indicated event handler to the event manager. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_AGG-3-ERR_GSP [chars]: rc equals [chars]
```

**Explanation** The FGID Aggregator was unable to create/join GSP group. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_AGG-3-ERR_INTERNAL_SW [chars]; [chars]
```

**Explanation** The FGID Aggregator encountered the annunciated SW error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_AGG-3-ERR_MEM_ALLOC FGID Aggregator unable to allocate [dec] bytes
```

**Explanation** The FGID Aggregator was unable to allocate memory. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_AGG-3-ERR_SYSMGR [chars]; rc equals [chars]
```

**Explanation** The FGID Aggregator encountered the annunciated sysmgr error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.



**Error Message**

```
%FABRIC-FGID_AGG-7-ERR_LTRACE_INIT  FGID Aggregator failed to initialize the  
ltrace file [chars] : [chars]
```

**Explanation** The FGID Aggregator Could not open the announced ltrace buffer. The FGID component and the system should still function as normal, with the exception that ltrace will not be available for fgid\_aggregator process.

**Recommended Action** No action is required.

## FGID\_ALLOC Messages

**Error Message**

```
%FABRIC-FGID_ALLOC-3-ERR_EVM_CREATE  FGID Allocator failed to create [chars] evm;  
rc equals [chars]
```

**Explanation** The FGID allocator was unable to create an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-3-ERR_GSP  [chars]: rc equals [chars]
```

**Explanation** The FGID Allocator encountered the announced GSP error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-3-ERR_INTERNAL_SW [chars] ; rc equals [chars]
```

**Explanation** The FGID Allocator encountered the annunciated internal SW error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-3-ERR_MEM_ALLOC FGID Allocator failed to allocate [dec] bytes
```

**Explanation** The FGID Allocator was unable to allocate memory. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-3-ERR_SYSMGR [chars]; rc equals [chars]
```

**Explanation** The FGID Allocator encountered the annunciated sysmgr error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-7-ERR_BAG_REG FGID allocator failed to register FGID bags; rc equals [chars]
```

**Explanation** The FGID allocator was unable to register FGID bags. The FGID component and the System should continue to function as normal, with the exception that the 'show' commands for FGID allocator will not be available.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-7-ERR_CHKPT_INIT  FGID Allocator failed to initialize the
checkpoint library ; rc equals [chars]
```

**Explanation** The FGID Allocator was unable to initialize the checkpoint library. The fgid\_allocator process may need restarting, if the errors persist.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-7-ERR_CHKPT_ITERATE_START  FGID Allocator failed to start to
iterate Checkpoint table [chars]; rc equals [chars]
```

**Explanation** The FGID Allocator was unable to start to iterate checkpoint table. The fgid\_allocator process may need restarting, if the errors persist.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-7-ERR_CHKPT_REG  FGID Allocator failed to register the
Checkpoint table [chars] ; rc equals [chars]
```

**Explanation** The FGID Allocator was unable to register the checkpoint table. The fgid\_allocator process may need restarting, if the errors persist.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_ALLOC-7-ERR_DEBUG_INIT  FGID Allocator failed to initialize debug ;
rc equals [chars]
```

**Explanation** The FGID Allocator failed to initialize debug. The FGID component and the System should still continue to function as normal, with the exception that the debugs will not be available fgid\_allocator process.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FGID\_ALLOC-7-ERR\_LTRACE\_INIT FGID Allocator failed to initialize the ltrace file [chars]; rc equals [chars]

**Explanation** The FGID Allocator could not open the announced ltrace buffer. The FGID component and the system should function as normal, with the exception that ltrace will not be available for fgid\_aggregator process.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FGID\_ALLOC-7-ERR\_SYSDB\_BIND FGID Allocator failed to bind to Sysdb name space [chars]; rc equals [chars]

**Explanation** The FGID-DB allocator unable to bind to sysdb name space. The fgid\_allocator may need restarting if the errors persist.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FGID\_ALLOC-7-ERR\_SYSDB\_EDM\_REG FGID allocator failed to perform EDM registration; rc equals [chars]

**Explanation** The FGID allocator was unable to become an external data manager (EDM) despite having a connection to SysDB. The operation will be retried. The FGID component and the System should continue to function as normal, with the exception that the 'show' commands for FGID allocator will not be available.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FGID\_BCDL\_CONSUMER Messages

**Error Message**

%FABRIC-FGID\_BCDL\_CONSUMER-3-ERR\_BCDL [chars] ; rc equals [chars]

**Explanation** The BCDL Consumer process has encountered the announced BCDL error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_BCDL_CONSUMER-3-ERR_BOARD_TYPE  FGID BCDL Consumer failed to get hardware board type: rc equals [chars]
```

**Explanation** The FGID BCDL Consumer was unable to get the board type.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_BCDL_CONSUMER-3-ERR_DEBUG_INIT  The FGID BCDL Consumer Failed to initialize debug; rc equals [chars]
```

**Explanation** The FGID BCDL Consumer was unable to initialize debug. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_BCDL_CONSUMER-3-ERR_EVM  [chars] : [chars]
```

**Explanation** The FGID BCDL consumer encountered the announced Event Manager Error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_BCDL_CONSUMER-3-ERR_FDI_CLIENT_REG  Unable to perform FDI client registration; rc equals [chars]
```

**Explanation** The FGID BCDL Consumer was unable to register with the FDI client. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FGID\_BCDL\_CONSUMER-3-ERR\_FGID\_DOWNLOAD\_DONE\_NOTIF FGID BCDL Consumer failed to notify SFE driver about FGID download complete; rc equals [chars]

**Explanation** The FGID BCDL Consumer encountered an error while notifying the SFE driver about FGID download completion. This indicates a problem with communication between SFE\_DRV and FGID BCDL consumer. Restart SFE driver manually.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FGID\_BCDL\_CONSUMER-3-ERR\_FGID\_SET FGID BCDL Consumer failed to set FGID [chars] bitmap; rc equals [chars]

**Explanation** The FGID BCDL Consumer encountered an error while setting S2 or S3 bitmap. This indicates a problem with the communication between the SFE driver and the FGID BCDL consumer. The FGID BCDL consumer and/or SEA driver may need restarting if the errors persist.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FGID\_BCDL\_CONSUMER-3-ERR\_RACK\_NUM FGID BCDL Consumer failed to get the rack value; rc equals [chars]

**Explanation** The FGID BCDL Consumer encountered an error while retrieving the rack value from nodeid. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FGID\_BCDL\_CONSUMER-3-ERR\_USAGE Invalid argument. USAGE: [chars]

**Explanation** The FGID BCDL consumer process was invoked with an unknown argument. The BCDL Consumer process was started with an invalid parameter. This is not an expected field event and details about software versions and the .startup file should be returned to engineering.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_BCDL_CONSUMER-7-ERR_LTRACE_INIT  FGID BCDL Consumer failed to
initialize the ltrace file [chars] : rc equals [chars]
```

**Explanation** The FGID BCDL Consumer could not open the announced ltrace buffer. The FGID component and the system should function as normal, with the exception that ltrace will not be available for FGID BCDL Consumer process.

**Recommended Action** No action is required.

## FGID\_LIB Messages

**Error Message**

```
%FABRIC-FGID_LIB-7-ERR_DEBUG_INIT  FGID library failed to initialize the debug ;
rc equals [chars].
```

**Explanation** The FGID library failed to initialize debug. The FGID component and the system should still function as normal, with the exception that the debugs will not be available for FGID library.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_LIB-7-ERR_LTRACE_INIT  FGID library failed to initialize the ltrace
; rc equals [chars].
```

**Explanation** The FGID library failed to initialize ltrace. The FGID component and the system should still function as normal, with the exception that the ltrace will not be available for FGID library.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FGID\_SVR Messages

**Error Message**

```
%FABRIC-FGID_SVR-2-ERR_EES_INIT  Rack num could not be determined, rc equals
[chars]
```

**Explanation** Rack number could not be determined because platform\_get\_my\_nodeid failed.

**Recommended Action** Whenever this happens, fgid\_server will dump a core file. No action is required.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_BCDL [chars]; rc equals [chars]
```

**Explanation** The FGID Server encountered the annunciated BCDL error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_DSC Failed to register for DSC notification; rc equals [chars]
```

**Explanation** The FGID Server encountered DSC error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_EES [chars], rc equals [chars]
```

**Explanation** Issue with EES

**Recommended Action** No action is required.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_EVM_CREATE FGID Server failed to create [chars] evm; rc equals [chars]
```

**Explanation** The FGID Server was unable to create an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.



**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_EVM_SYNC_ATTACH FGID Server failed to attach [chars] evm;  
rc equals [chars]
```

**Explanation** The FGID Server was unable to attach the indicated event handler to the event manager. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_GSP [chars] ; rc equals [chars]
```

**Explanation** The FGID-DB server encountered the annunciated GSP error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_INTERNAL_SW [chars]; [chars]
```

**Explanation** The FGID Server encountered the annunciated SW error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_MEM_ALLOC FGID Server unable to allocate [dec] bytes
```

**Explanation** The FGID Server was unable to allocate memory. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-3-ERR_USAGE  FGID Server : Server Id requested [chars] is not a
allowed server_id
```

**Explanation** Incorrect command line parameters were passed to the FGID Server, and so it failed to start.

**Recommended Action** Check the startup arguments passed to FGID-DB. A default configuration will be used if no parameters are passed. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-4-WARNING_INTERNAL_SW  [chars]; [chars]
```

**Explanation** The FGID Server encountered the announced SW error.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FGID_SVR-7-ERR_LTRACE_INIT  FGID Server failed to initialize the ltrace
file [chars]; rc equals [chars]
```

**Explanation** The FGID Server Could not open the announced ltrace buffer. The FGID component and the system should function as normal, with the exception that ltrace will not be available for fgid\_server process.

**Recommended Action** No action is required.

**Error Message**

```
%FABRIC-FGID_SVR-7-ERR_SYSMGR  [chars] ; rc equals [chars]
```

**Explanation** The FGID-DB server failed in sysmgr API

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# FIA\_API Messages

## Error Message

%FABRIC-FIA\_API-7-ERR\_ECM Event Connection Manager (ECM) Error: [chars] : [chars]

**Explanation** The FIA driver client library encountered the announced error condition. There are 3 types of this failure. - ECM create failure: In this case the FIA driver client library will not be able to connect to the FIA driver. - Register notification handler failure: In this case the FIA driver client library will not receive notification of ECM events. - Failure to open a connection:

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# FIA Messages

## Error Message

%FABRIC-FIA-0-ASIC\_FATAL\_FAULT Fabric interface asic ASIC[dec] encountered fatal fault [hex] - [chars]

**Explanation** Fabric Interface Asic encountered an internal fatal fault. Card reload is the only way to recover from this error. The format string would display which of the internal fatal error resulted in this alarm.

**Recommended Action** The board would get reloaded. On reload of board, run following commands from RSP ksh to decode PCDS information - pcds\_decode -c FIA .pcds file pcds\_decode -c PFM\_NODE .pcds file. If users has auto reset option disabled in admin config, then the board would not get reloaded on its own. At this stage collect the output of 'show asic-errors fia inst all location loc'.

## Error Message

%FABRIC-FIA-1-ARB\_SERDES\_0\_FAIL\_0 Arbitration Serdes Link 0 Failure on FIA 0

**Explanation** Arbitration serdes link 0 failure on FIA 0.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-ARB_SERDES_0_FAIL_1 Arbitration Serdes Link 0 Failure on FIA 1
```

**Explanation** Arbitration serdes link 0 failure on FIA 1.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-ARB_SERDES_1_FAIL_0 Arbitration Serdes Link 1 Failure on FIA 0
```

**Explanation** Arbitration serdes link 1 failure on FIA 0.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-ARB_SERDES_1_FAIL_1 Arbitration Serdes Link 1 Failure on FIA 1
```

**Explanation** Arbitration serdes link 1 failure on FIA 1.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-ASIC_INIT_ERR_0 Crossbar fabric interface ASIC-0 init error
```

**Explanation** Crossbar fabric interface ASIC-0 failed during init.

**Recommended Action** Reboot the board. If the error persists, contact TAC. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-ASIC_INIT_ERR_1 Crossbar fabric interface ASIC-1 init error
```

**Explanation** Crossbar fabric interface ASIC-1 failed during init.

**Recommended Action** Reboot the board. If the error persists, contact TAC. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_0\_FAIL\_0 Data Serdes Link 0 Failure on FIA 0

**Explanation** Data serdes link 0 failure on FIA 0.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_0\_FAIL\_1 Data Serdes Link 0 Failure on FIA 1

**Explanation** Data serdes link 0 failure on FIA 1.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_1\_FAIL\_0 Data Serdes Link 1 Failure on FIA 0

**Explanation** Data serdes link 1 failure on FIA 0.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_1\_FAIL\_1 Data Serdes Link 1 Failure on FIA 1

**Explanation** Data serdes link 1 failure on FIA 1.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_2\_FAIL\_0 Data Serdes Link 2 Failure on FIA 0

**Explanation** Data serdes link 2 failure on FIA 0.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_2\_FAIL\_1 Data Serdes Link 2 Failure on FIA 1

**Explanation** Data serdes link 2 failure on FIA 1.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_3\_FAIL\_0 Data Serdes Link 3 Failure on FIA 0

**Explanation** Data serdes link 3 failure on FIA 0.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-DATA\_SERDES\_3\_FAIL\_1 Data Serdes Link 3 Failure on FIA 1

**Explanation** Data serdes link 3 failure on FIA 1.

**Recommended Action** Wait a few minutes. If it doesn't recover, please reload the board using command 'reload location '. Make sure board is seated properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-PKT\_INT\_ERR\_AT\_DDRIF\_0\_0 Pkt Integrity Error at DDR interface from Punt/Bridge-0 FPGA on FIA 0

**Explanation** Packet Integrity Error at DDR interface from Punt/Bridge-0 FPGA on FIA 0.

**Recommended Action** Verify correct version of Punt/Bridge FPGA is loaded. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-1-PKT\_INT\_ERR\_AT\_DDRIF\_0\_1 Pkt Integrity Error at DDR interface from Punt/Bridge-0 FPGA on FIA 1

**Explanation** Packet Integrity Error at DDR interface from Punt/Bridge-0 FPGA on FIA 0.

**Recommended Action** Verify correct version of Punt/Bridge FPGA is loaded. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-PKT_INT_ERR_AT_DDRIF_1_0 Pkt Integrity Error at DDR interface from Punt/Bridge-1 FPGA on FIA 0
```

**Explanation** Packet Integrity Error at DDR interface from Punt/Bridge-1 FPGA on FIA 0.

**Recommended Action** Verify correct version of Punt/Bridge FPGA is loaded. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-PKT_INT_ERR_AT_DDRIF_1_1 Pkt Integrity Error at DDR interface from Punt/Bridge-1 FPGA on FIA 1
```

**Explanation** Packet Integrity Error at DDR interface from Punt/Bridge-1 FPGA on FIA 1.

**Recommended Action** Verify correct version of Punt/Bridge FPGA is loaded. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-SUSTAINED_CRC_ERR Fabric interface ASIC-[dec] has sustained CRC errors
```

**Explanation** Fabric interface ASIC is reporting a sustained rate of CRC errors.

**Recommended Action** Check for other failures like online diags. Reload the board to see if the error goes away. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-TEMP_TOO_HIGH_0 Crossbar fabric interface ASIC-0 temperature is too high
```

**Explanation** Crossbar fabric interface ASIC-0 is reporting a very high temperature.

**Recommended Action** Check if board is reporting temperature alarm. If not, it is due to Crossbar fabric interface heat sink not being installed properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-1-TEMP_TOO_HIGH_1 Crossbar fabric interface ASIC-1 temperature is too high
```

**Explanation** Crossbar fabric interface ASIC-1 is reporting a very high temperature.

**Recommended Action** Check if board is reporting temperature alarm. If not, it is due to Crossbar fabric interface heat sink not being installed properly. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-2-FIAHW_INT_FIFO [chars] [chars] ([hex])
```

**Explanation** This error usually indicates an internal hardware problem on the card. The internal parity error affects the communication bus between adjacent ASICs on the hardware data path. The From Fabric or To Fabric direction, the detailed error string and the slot number are provided as part of the message.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait at least 3 minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-2-FIAHW_INT_PARITY [chars] [chars] ([hex])
```

**Explanation** This error usually indicates an internal hardware problem on the card. The internal parity error affects the communication bus between adjacent ASICs on the hardware data path. The From Fabric or To Fabric direction, the detailed error string and the slot number are provided as part of the message.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait at least 3 minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-CPP_ERR [chars]:[dec] [chars] - [chars]
```

**Explanation** FIA and CPP SPI interface error

**Recommended Action** Report the error



**Error Message**

%FABRIC-FIA-3-ERR\_BRIDGE Initialization Error: FIA-driver failed to create Bridge interface. Exiting

**Explanation** FIA driver could not create Bridge instance.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_BRIDGE\_EVM Initialization Error: Bridge-driver failed to create Event Manager. Exiting

**Explanation** Fabric Bridge driver Event Manager create error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_BRIDGE\_INIT Initialization Error: Bridge-driver failed to initialize [chars]. Reason: [chars]. Exiting

**Explanation** Fabric Bridge driver subsystem initialization error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_BRIDGE\_OS Initialization Error: Bridge-driver failed to invoke OS [chars] service. Exiting

**Explanation** Fabric Bridge driver Event Manager create error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_CLIENT\_EVM Initialization Error: FIA-driver client failed to create Event Manager. Exiting.

**Explanation** FIA-driver Event Manager create error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_CLIENT_INIT Initialization Error: FIA-driver client failed to initialize [chars]. . Exiting
```

**Explanation** Fabric driver subsystem initialization error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_ECM_CREATE Failed to create Event Connection Manager[[chars]]: [chars], exiting....
```

**Explanation** The FIA driver encountered an event connection manager error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_ECM_REG Failed to register [chars] connection notification handler with the Event Connection Manager: [chars], exiting....
```

**Explanation** The FIA driver encountered an event connection manager error. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_EIO_TRAIN EIO link training failure threshold reached. Link will not be re-trained. ASIC instance: [dec], EIO link ID: [dec]
```

**Explanation** Repeated attempts to train the EIO links between the FIA and Ingressq/Fabric ASIC has failed. No further attempts to retrain the link will be made. This is indicative of a hardware failure on the serial link between the ASICs or an inter-process communication error between the driver processes.

**Recommended Action** Collect the required information indicated below. Also, run the field diags and the health check. If the health check or diags fail, then initiate the RMA process. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_ENS\_LIB Initialization Error: FIA-driver failed to initialize client library on [chars]. Reason: [chars]. Exiting

**Explanation** FIA driver ENS client library initialization error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_ENS\_MSG Initialization Error: FIA-driver failed to send message to [chars]. Reason: [chars]. Exiting

**Explanation** FIA driver ENS message communication error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_EVM\_CREATE Initialization Error: FIA-driver failed to create Event Manager. Exiting.

**Explanation** FIA-driver Event Manager create error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-ERR\_EVM\_INIT Failed to initialize the event manager: [chars], exiting...

**Explanation** The FIA driver was unable to initialize an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_INIT Initialization Error [[chars]]: [chars], exiting....
```

**Explanation** The FIA driver failed to initialize the device resulting in the restart of the FIA driver process. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** Verify that the fia\_driver is up and running by executing the following command at the CLI of the active RP: 'show process fia\_driver location' If it is still non-operational, enable the following debugs of the FIA driver process: eio All EIO library events error Errors in the driver fatal Fatal errors which cause driver to exit info All informational events init Initialization events Restart the driver by executing the following command at the CLI of the active RP: process restart fia\_driver loc loc. If the problem persists, this could be indicative of a hardware failure and it is recommended to run the field diagnostics on the failing MSC.

**Error Message**

```
%FABRIC-FIA-3-ERR_INIT Initialization Error: FIA-driver failed to initialize [chars]. Reason: [chars]. Exiting
```

**Explanation** Fabric driver subsystem initialization error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_INIT_XAUI Initialization Error: FIA-driver failed to initialize XAUI interface with NP.[dec]. Exiting.
```

**Explanation** FIA driver encountered a fatal error during interface initialization and is not able recover from the error after retries. A reason text will be supplied. Call support with this text.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_MEM Initialization Error: FIA-driver could not map device memory
```

**Explanation** FIA driver encountered a fatal memory allocation error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_MEM_ALLOC Memory allocation failed for internal data structures
```

**Explanation** Memory was not available for an internal data structure. The requested operation could not be accomplished because of a low memory condition. The LC will not boot up successfully and will not be able to participate in data forwarding.

**Recommended Action** Run the debug show commands, gather data and contact tac. Also ensure the LC is populated with the minimum amount of memory required for proper operation. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_MEM_ALLOC Memory allocation failed for internal data structures
```

**Explanation** Memory was not available for an internal data structure. The requested operation could not be accomplished because of a low memory condition. The LC will not boot up successfully and will not be able to participate in data forwarding.

**Recommended Action** Run the debug show commands, gather data and contact tac. Also ensure the LC is populated with the minimum amount of memory required for proper operation. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_MEM_ALLOC Memory allocation failed for internal data structures
```

**Explanation** Memory was not available for an internal data structure. The requested operation could not be accomplished because of a low memory condition. The LC will not boot up successfully and will not be able to participate in data forwarding.

**Recommended Action** Run the debug show commands, gather data and contact tac. Also ensure the LC is populated with the minimum amount of memory required for proper operation. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_MEM_MAP Failed to map ASIC instance [dec] into memory (PROT flags: [dec], MAP flags: [dec]): [chars]
```

**Explanation** The FIA driver was unable to map the hardware of the specified ASIC instance into its memory space and therefore failed to initialize. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_PLL Failed to lock TX slice PLL after [unsigned int] retries (ASIC instance: [dec], slice ID: [unsigned int]).
```

**Explanation** While initializing the transmit slices of the FIA, the driver failed to lock the PLL. This is caused due to a clock synchronization problem between the MSC and the fabric board. This would result in loss of connectivity and bandwidth to affected fabric board.

**Recommended Action** Collect the required information indicated below. Also, run the field diags and the health check. If the health check or diags fail, then initiate the RMA process. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_REGISTER Initialization Error: [chars] failed to register with [chars]. Exiting
```

**Explanation** Fabric driver subsystem initialization error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-ERR_RESTART Initialization Error: FIA-driver exhausted maximum restart attempts to initialize. Exiting.
```

**Explanation** FIA driver encountered a persistence fatal error during initialization and subsequent restarts. A reason text will be supplied. Call support with this text.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FFIAHW_ERR_FIFO [chars]: [chars] [hex]
```

**Explanation** This error usually indicates an internal hardware problem on the card. The internal parity error affects the communication bus between adjacent ASICs on the hardware data path. In this case parity error was detected in the FFIA internal memory. This error will trigger a recovery operation. The LC may not be able to forward data packets and traffic loss may be observed due to this error.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait several minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FFIAHW_ERR_FIFO [chars]: [chars] [hex]
```

**Explanation** This error usually indicates an internal hardware problem on the card. The internal parity error affects the communication bus between adjacent ASICs on the hardware data path. In this case parity error was detected in the FFIA internal reassembly memory. This error will trigger a recovery operation. The LC may not be able to forward data packets and traffic loss may be observed due to this error.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait several minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FFIAHW_ERR_PARITY [chars]: [chars] [hex]
```

**Explanation** This error usually indicates an internal hardware problem on the card. The internal parity error affects the communication bus between adjacent ASICs on the hardware data path. In this case the back pressure signals between FFIA and Tx PSE is having signal integrity issue. This error will trigger a recovery operation. The LC may not be able to forward data packets and traffic loss may be observed due to this error.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait several minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_CHIP Failed to configure [chars] config value : [hex] in hardware, fc\_mask equals [hex], status equals [hex]

**Explanation** The low level FIA driver was unable to complete its write operation. Possible cause is hardware failure. Error recovery will be triggered for this error. The direction value of fia\_config passed and status returned of the failure are indicated in the message.

**Recommended Action** Wait at least 3 minutes for corrective action to occur. Look for error reports about the switch fabric (CSC/SFC.)

**Error Message**

%FABRIC-FIA-3-FIAHW\_CRC16 Too many CRC errors on fabric serial line (from fabric plane [dec])

**Explanation** This error indicates a problem in the interface between the card reporting error and the switch fabric card in the indicated fabric plane. Data corruption is imminent.

**Recommended Action** Wait several minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, Move the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_CRC16 Too many CRC errors on fabric serial line (from slot [dec])

**Explanation** This error indicates a problem in the interface between the card reporting error and the switch fabric card in the indicated slot. Data corruption is imminent.

**Recommended Action** Wait several minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, Move the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_CRC16 Too many CRC errors on fabric serial line (from fabric plane [dec])

**Explanation** This error indicates a problem in the interface between the card reporting error and the switch fabric card in the indicated fabric plane. Data corruption is imminent.

**Recommended Action** Wait atleast 3 minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, you can try moving the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.



**Error Message**

```
%FABRIC-FIA-3-FIAHW_DEVCTL FIA device access (read) failed for [chars]
```

**Explanation** The low level fabric interface ASIC driver was unable to complete its hardware access operation. Hardware configuration may not have been successfully completed. This may result in traffic loss. The output of the show command may not be valid. The direction of the error is indicated in the message.

**Recommended Action** Restart the fiad process on the LC. If the error persists, reload the LC using 'hw-module' command.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_EMPTY_DEST_SOFTREQ [chars] Empty destination software request error [hex]
```

**Explanation** An unexpected error has occurred. This error typically means that a unicast or a multicast packet was received by the fabric interface ASIC to be forwarded across the switching fabric without any destination slot set in the header of the data packet. The direction of the error and the slot are indicated by the parameter in the message.

**Recommended Action** None, this is a transient error and can be safely ignored. However multiple occurrences of this error indicates a software problem. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_EXT_FIFO [chars] [chars] ([hex])
```

**Explanation** This error indicates a (possibly temporary) problem in the interface between the card reporting error and the switch fabric. Either the switch fabric is not able source or drain the data packets to this LC. This error is traffic affecting. Error recovery will be triggered. The From Fabric or To Fabric direction, the detailed error string and the slot number are provided as part of the message.

**Recommended Action** Wait atleast 3 minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, you can try moving the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_EXT_PARITY [chars] [chars] ([hex])
```

**Explanation** This error indicates a (possibly temporary) problem in the interface between the card reporting error and the switch fabric. The error recovery will be triggered and the process should recover after a reset of the affected ASIC. The From Fabric or To Fabric direction, the detailed error string and the slot number are provided as part of the message.

**Recommended Action** Wait atleast 3 minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, you can try moving the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_INT Unexpected [chars] interrupt
```

**Explanation** An unexpected error has occurred. This error will trigger an error recovery and is traffic affecting. The direction in which the error occurred is specified as part of the message. This error message indicates a masked interrupt occurred, even though its handled by the driver, this error should not have happened.

**Recommended Action** Wait atleast 3 minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.)

**Error Message**

```
%FABRIC-FIA-3-FIAHW_LOS Persistent LOS on serial link (from slot [dec])
```

**Explanation** This error indicates a problem (Loss of Sync) in the interface between the card reporting error and the switch fabric card in the indicated slot. This error is traffic affecting. Error recovery is triggered by this error.

**Recommended Action** Wait several minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, Move the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_LOS Persistent LOS on serial link (from fabric plane [dec])
```

**Explanation** This error indicates a problem (Loss of Sync) in the interface between the card reporting error and the switch fabric card in the indicated fabric plane. This error is traffic affecting. Error recovery is triggered by this error.

**Recommended Action** Wait atleast 3 minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, you can try moving the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_LOS Persistent LOS on serial link (from fabric plane [dec])

**Explanation** This error indicates a problem (Loss of Sync) in the interface between the card reporting error and the switch fabric card in the indicated fabric plane. This error is traffic affecting. Error recovery is triggered by this error.

**Recommended Action** Wait several minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.) If errors persist, Move the card to another slot. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_LOS\_CLEAR LOS cleared on serial link (from fabric plane [dec])

**Explanation** An earlier reported error (Loss of Sync) is now cleared. Normal operations can resume.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FIA-3-FIAHW\_LOS\_CLEAR LOS cleared on serial link (from slot [dec])

**Explanation** An earlier reported error (Loss of Sync) is now cleared. Normal operations can resume.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FIA-3-FIAHW\_LOS\_CLEAR LOS cleared on serial link (from fabric plane [dec])

**Explanation** An earlier reported error (Loss of Sync) is now cleared. Normal operations can resume.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FIA-3-FIAHW\_MULTI\_DEST\_SOFTREQ [chars] Multi destination unicast software request error [hex]

**Explanation** An unexpected error has occurred. This error typically means that a unicast data packet was received by the fabric interface ASIC to be forwarded across the switching fabric with more than one destination slot. The direction of the error and the slot are indicated by the parameter in the message.

**Recommended Action** None, this is a transient error and can be safely ignored. However multiple occurrences of this error indicates a software problem. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_NOHALT Unexpected [chars] interrupt without halt
```

**Explanation** An unexpected error has occurred. This error will trigger an error recovery procedure & is traffic affecting. The direction in which the error occurred is specified as part of the message.

**Recommended Action** Wait atleast 3 minutes for the corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.)

**Error Message**

```
%FABRIC-FIA-3-FIAHW_RATE Error report timer wheel failure detected
```

**Explanation** An internal data structure was missing a field. Some errors may not be reported to the fabric control software. This error indicates data corruption in internal structures.

**Recommended Action** The system will normally recover from this error without intervention. If the frequency with which this error is occurring increases substantially, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_RATE Error report timer wheel failure detected
```

**Explanation** An internal data structure was missing a field. Some errors may not be reported to the fabric control software. This error indicates data corruption in internal structures.

**Recommended Action** The system will normally recover from this error without intervention. If the frequency with which this error is occurring increases substantially, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-FIAHW_RATE Error report timer wheel failure detected
```

**Explanation** An internal data structure was missing a field. Some errors may not be reported to the fabric control software. This error indicates data corruption in internal structures.

**Recommended Action** The system will normally recover from this error without intervention. If the frequency with which this error is occurring increases substantially, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_TMR Forced timeout of an internal timer failed, error [chars]

**Explanation** The library call failed. This indicates internal data corruption on the LC. Certain errors may not be reported to the fabric control software.

**Recommended Action** The system will normally recover from this error without intervention. If the frequency with which this error is occurring increases substantially, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_TMR Forced timeout of an internal timer failed, error [chars]

**Explanation** The library call failed. This indicates internal data corruption on the LC. Certain errors may not be reported to the fabric control software.

**Recommended Action** The system will normally recover from this error without intervention. If the frequency with which this error is occurring increases substantially, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_TMR Forced timeout of an internal timer failed, error [chars]

**Explanation** The library call failed. This indicates internal data corruption on the LC. Certain errors may not be reported to the fabric control software. The error string as returned by the library call is included in the message.

**Recommended Action** The system will normally recover from this error without intervention. If the frequency with which this error is occurring increases substantially, call your Cisco technical support representative and provide the gathered information. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-FIAHW\_UNHANDLED Unexpected error case

**Explanation** An unexpected error has occurred. This error will trigger an error recovery and is traffic affecting.

**Recommended Action** Wait several minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.)

**Error Message**

%FABRIC-FIA-3-FIAHW\_UNHANDLED Unexpected error case

**Explanation** An unexpected error has occurred. This error will trigger an error recovery and is traffic affecting.

**Recommended Action** Wait several minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.)

**Error Message**

%FABRIC-FIA-3-FIAHW\_UNHANDLED Unexpected error case

**Explanation** An unexpected error has occurred. This error will trigger an error recovery and is traffic affecting. An error other than the CRC or LOS has occurred.

**Recommended Action** Wait atleast 3 minutes for corrective action to occur. Ignore repeats of this error while corrective action is taking place. Look for error reports about the switch fabric (CSC/SFC.)

**Error Message**

%FABRIC-FIA-3-TFIAHW\_ERR\_PACKET [chars]: [chars] [hex]

**Explanation** This error usually indicates an internal hardware problem on the card. The internal parity error affects the communication bus between adjacent ASICs on the hardware data path. The LC may not be able to forward data packets and traffic loss may be observed due to this error. The From Fabric or To Fabric direction, the detailed error string and the slot number are provided as part of the message.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait several minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-3-TFIAHW\_ERR\_PACKET [chars]: [chars] [hex]

**Explanation** This error usually indicates an internal hardware problem on the card. A corrupted packet was received from the Rx BMA, this indicates communication bus between the FIA and Rx BMA on the hardware data path may have signal integrity issues. This error will trigger an error recovery. The LC may not be able to forward data packets and traffic loss may be observed due to this error.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait several minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-TFIAHW_ERR_PARITY [chars]: [chars] [hex]
```

**Explanation** This error usually indicates an internal hardware problem on the card. The internal parity error affects the communication bus between adjacent ASICs on the hardware data path. The LC may not be able to forward data packets and traffic loss may be observed due to this error. The From Fabric or To Fabric direction, the detailed error string and the slot number are provided as part of the message.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait several minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-3-TFIAHW_ERR_PARITY [chars]: [chars] [hex]
```

**Explanation** This error usually indicates an internal hardware problem on the card. A corrupted packet was received from the SCA, this indicates communication bus between the FIA and SCA on the hardware data path may have signal integrity issues. This error will trigger an error recovery. The LC may not be able to forward data packets and traffic loss may be observed due to this error.

**Recommended Action** If there are other error reports about the switch fabric (CSC/SFC) then wait several minutes for corrective action. Otherwise, run diagnostics for slot reporting error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-4-ERR_CHKPT Failed to [chars] checkpoint record: [chars]
```

**Explanation** The FIA driver encountered an error while updating or accessing its checkpoint information. Further high availability of the driver may be impacted.

**Recommended Action** Verify that the fia\_driver process is up and running by executing the following command at the CLI of the active RP: 'show process fia\_driver' If the high availability of the FIA driver is not important, then this message may be ignored. However, if this functionality is necessary then restart the FIA driver by issuing the following command at the CLI of the active RP: 'process restart fia\_driver' Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-4-ERR\_SYSDB\_CONN\_TO\_COID Failed to [chars] (despite connection to SysDB being open): [chars]

**Explanation** The FIA driver was unable to become an external data manager (EDM) despite having a connection to SysDB. The operation will be retried.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-4-ERR\_SYSDB\_EDM\_REG Failed to register [chars] (despite connection to SysDB being open): [chars]

**Explanation** The FIA driver was unable to become an external data manager (EDM) despite having a connection to SysDB. The operation will be retried.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-4-FIAHW\_RGMII\_LINK\_DOWN Warning: The IPC RGMII Link is Down

**Explanation** This warning indicates that the RGMII Link is up after configuration

**Recommended Action** Reconfigure the IPC Path

**Error Message**

%FABRIC-FIA-4-FIAHW\_UNHALT Warning: The FIA is unhalted before programming

**Explanation** This warning indicates that the FIA is not in Halt State for Programming

**Recommended Action** Unhalt the FIA before programming.

**Error Message**

%FABRIC-FIA-4-FIAHW\_WARNING\_UNSUPPORTED\_CARD Warning: This is an unsupported SIP-600 card with lower revision Fabric Interface ASIC

**Explanation** This warning indicates that this is an older version of SIP-600 card which does not have a supported Fabric Interface ASIC (FIA). As a result, any CSC switch-over, RP fail-over or fabric card OIR may result in FIA ASIC errors, and the router may experience abnormal behavior.

**Recommended Action** Replace with a later version of SIP-600.



**Error Message**

```
%FABRIC-FIA-4-FIAHW_WARNING_UNSUPPORTED_CARD Warning: This is an unsupported FABRIC Bandwidth for Chinook card
```

**Explanation** This warning indicates that the Fabric bandwidth is not sufficient for Chinook to come up.

**Recommended Action** Replace the card in 10G or 40G chassis.

**Error Message**

```
%FABRIC-FIA-5-ERR_DEV_NOT_FOUND Driver has not discovered ASIC instance [dec] yet [[chars]], retrying....
```

**Explanation** The FIA driver is polling for the device.

**Recommended Action** If the message appears once and then stops, there is no cause for concern. If it persists or if fia\_driver gets respawned by sysmgr for not returning EOI, then this could indicate a problem.

**Error Message**

```
%FABRIC-FIA-6-PCDS_STATS_TIMESTAMP_FAILURE pcds_get_timestamp failed for superfish stats
```

**Explanation** This is a message indicating failed to get timestamp for superfish statistics.

**Recommended Action** No action is required.

**Error Message**

```
%FABRIC-FIA-6-PCDS_STATS_TIMESTAMP_FAILURE pcds_get_timestamp failed for fia stats
```

**Explanation** This is a message indicating failed to get timestamp for fia statistics.

**Recommended Action** No action is required.

**Error Message**

```
%FABRIC-FIA-7-ERR_CHKPT_INIT Failed to initialize checkpoint library: [chars].
```

**Explanation** The FIA driver failed to initialize the checkpoint library. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-7-ERR\_CHKPT\_REG Failed to register checkpoint table: [chars].

**Explanation** The FIA driver failed to register the checkpoint table. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-7-ERR\_EVM Failed to attach [chars] to event manager:[chars], exiting...

**Explanation** The FIA driver was unable to attach the indicated event / handler to the event manager. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FIA-7-ERR\_EVM\_ASYNC\_ATTACH Failed to attach an asynchronous [chars] handler to event manager: [chars].

**Explanation** The FIA driver was unable to attach the indicated asynchronous handler to the event manager. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-7-ERR_EVM_CREATE Failed to create event manager for '[chars]':  
[chars], exiting...
```

**Explanation** The FIA driver was unable to create an event manager for processing messages and hence failed to initialize. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-7-ERR_LWM_EVENT_BLOCK LWM Event Manager event block failed on [chars]  
thread: [chars]
```

**Explanation** The FIA driver LWM event manager has failed to block on the indicated thread.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-7-ERR_LWM_REPLY Failed to send reply: [chars].
```

**Explanation** The FIA driver failed to send messaging reply.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-7-ERR_MEM_ALLOC Failed to allocate memory.
```

**Explanation** FIA driver memory allocation error.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-7-ERR_SYSDB_EDM_DATALIST Failed to [chars] SYSDB EDM datalist:  
[chars].
```

**Explanation** The FIA driver has failed to either create / add a external data manager data list.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-7-ERR_SYSDB_EDM_OPEN Failed to open EDM event connection manager:  
[chars], exiting...
```

**Explanation** The FIA driver to failed open the SysDB EDM connection by binding to it and registering using the event connection manager.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FIA-7-ERR_THREAD_CREATE Failed to create [chars] thread: [chars],  
exiting....
```

**Explanation** The FIA driver failed to create the specified thread. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger MSC reload. After a certain number of MSC reloads, the shelf manager will permanently shutdown the MSC.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FIFO Messages

**Error Message**

```
%FABRIC-FIFO-2-SW_FATAL_ERROR fatal s/w error encountered - [chars], [chars]
```

**Explanation** An unrecoverable fatal s/w error was encountered, which results in severe board malfunction. The exact cause is appended to the error msg.

**Recommended Action** Reload the board. \*SUPPORT\*

# FSDB Messages

## Error Message

```
%FABRIC-FSDB-0-BARRIER_STALL_RACK_RELOAD Rack [dec] reloading due to fabric barrier stall on the rack. Fabric shutdown log saved in file [chars].
```

**Explanation** Rack is brought down if RPs on the rack are detected stalling on fabric barriers. If the rack is isolated from fabric via CLI, then this is expected. If this message occurs otherwise, it could be due to a software error or an unexpected hw error.

**Recommended Action** If fabric links, fabric cards or fabric chassis connecting to the rack are brought down via CLI, then this is expected. If the problem happens otherwise, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

```
%FABRIC-FSDB-0-BARRIER_STALL_ROUTER_RELOAD Router reloading due to fabric barrier stall. Fabric shutdown log saved in file [chars].
```

**Explanation** Router is brought down if RPs on the dsc rack are detected stalling on fabric barriers. If the dsc rack is isolated from fabric via CLI, then this is expected. If this message occurs otherwise, it could be due to a software error or an unexpected hw error.

**Recommended Action** If fabric links, fabric cards or fabric chassis connecting to the dsc rack are brought down via CLI, then this is expected. If the problem happens otherwise, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

```
%FABRIC-FSDB-0-FABRIC_LOSS_LC_RELOAD [chars] reloading due to loss of fabric connectivity
```

**Explanation** A line-card is reloading after detecting that it has totally lost connectivity to the fabric. If all the fabric boards are OIR'ed or brought down through CLI, this is expected. If this message occurs otherwise, it could be due to a software error.

**Recommended Action** If the fabric planes are brought down or the S3-Sponge links are brought down intentionally, then this is expected. If the problem happens otherwise, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-1-ERR\_PLANE\_CONFIG Fabric hardware found at location [chars] is inconsistent with current configured values : [chars]

**Explanation** The fabric plane configuration for this multi-chassis system cannot be implemented with the hardware that has been discovered. This error may cause one or more fabric planes to stay down which will affect the bring up of the rest of the system. Possible causes could be incorrect admin plane configuration (the configuration states that slot 1 is the first card in a plane whereas slot 0 really is) or an incorrectly sized fiber module is inserted in a slot.

**Recommended Action** Check the admin plane configuration to ensure that it corresponds with the actual physical topology of the system. If this configuration looks correct then contact support, otherwise correct the configuration and the system should recover.

**Error Message**

%FABRIC-FSDB-1-FABRIC\_UPDOWN Fabric [chars] for data traffic

**Explanation** If the fabric is reported down, it means that none of the fabric planes are UP. If the fabric is not UP, system cannot be used for any data traffic.

**Recommended Action** Ensure that fabric cards are installed in the system. For multichassis systems ensure that the fabric racks have booted and the fabric cables are installed. Fabric can come up late if the fabric rack or fabric cards are booted up late. Wait for more time to see if the fabric comes UP. For MC systems, check if plane admin config exists on the router. If not, configure the plane admin config. If condition persists, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-1-PLANE\_UPDOWN Plane [dec] state changed to [chars]%; [chars]

**Explanation** If the plane is reported down other than when administratively brought down, it means that the sprayer cannot reach \*any\* destination on the plane. This a symptom of too many other fabric errors (DESTINATION\_UPDOWN) than an error itself. The plane can no longer be used to send any traffic. If the plane is reported mcast\_down, it means that certain fabric destinations are not reachable on this plane. It is still good for unicast traffic, but for destinations which are reachable on this plane.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-2-ERR_CONTROL_MSG Rack [dec] sent illegal fabric control message - [chars]
```

**Explanation** Fabric control software running in another rack has notified a status change that is impossible or illegal.

**Recommended Action** This error can be caused by an attempt to use the router with in a fabric configuration that is not supported. For example, there may be three or more line card racks that have dual-rack fabric cards installed. Ensure that the correct racks are installed in the router and that software displays the correct rack numbers and rack types for each rack. Ensure that the software fabric configuration is correct. If these steps do not find an error, restart fabric control software on the rack that produced this message, and on the rack sending the illegal message. 'admin process restart fsdb\_server loc loc'. As restart process is disruptive, save output of all the commands mentioned in required\_info before restarting the process. If problem persists, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-2-INVALID_PLANE_SHUT_REQ Plane [dec] is reported to be defective. Unable to shut down the plane: [chars]
```

**Explanation** This indicates that fsdb aserver process has received the request to shut down a fault plane. The plane is not shut down by the fsdb aserver due to the reason mentioned.

**Recommended Action** If the identified plane is not already shut, shut down the plane in admin configuration: controller fabric plane shutdown Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-2-MSG_TO_FSDB_FAILED_CONNECT Cannot connect to fabric management process to report plane [dec] defective
```

**Explanation** This is to indicate that the process has failed to connect to the fabric management process to report that the plane is defective.

**Recommended Action** 1) Get the output from the following commands: 'sh controller fabric trace all' on the dSC sh diagnostic result location this node detail sh diagnostic trace error location all sh diagnostic trace message location all 2) shut down the identified faulty plane in admin configuration: controller fabric plane shutdown 3) restart the process that is seeing the issue Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-2-MSG_TO_FSDB_FAILED_SEND Cannot send report of plane [dec] defective to the fabric management process
```

**Explanation** This is to indicate that the process has failed to send an IPC message to the fabric management process that the plane is defective.

**Recommended Action** 1) Get the output from the following commands: 'sh controller fabric trace all' on the dSC sh diagnostic result location this node detail sh diagnostic trace error location all sh diagnostic trace message location all 2) shut down the identified faulty plane in admin configuration: controller fabric plane shutdown 3) restart the process that is seeing the issue Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ASERVER_DOWNLOAD Fabric configuration download [chars]: [chars]
```

**Explanation** Fabric control software failed to synchronize configuration details between the fsdb\_server and fsdb\_aserver processes. If the affected rack is being added to the system it cannot be brought into service. If the affected rack is already in service, then it cannot respond to fabric failures or changes.

**Recommended Action** No action is necessary. If condition persists, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-DEVCTL_FAIL System failed to read rommon variable [chars]
```

**Explanation** Fabric Status Database server (FSDB) failed to read a rommon variable.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_BUNDLE_LINK [dec] link down in bundle [chars] on plane [dec]
```

**Explanation** This is to indicate that the no. of down links in a bundle has changed from zero to non-zero or vice versa.

**Recommended Action** This message is expected if a cable is inserted or removed, or if a fabric card (or chassis) to which the cable connects is powered on or off, or rebooted. If a change to DOWN is seen in other circumstances it may be due to a hardware failure.



**Error Message**

%FABRIC-FSDB-3-ERR\_BUNDLE\_STATE Bundle [chars] on plane [dec] is [chars]

**Explanation** Bundle state has changed. This can be because the state of one of the bundle ports comprising the bundle has changed. A bundle port is considered down if all the links comprising the bundle port go down.

**Recommended Action** This message is expected if a cable is inserted or removed, or if a fabric card (or chassis) to which the cable connects is powered on or off, or rebooted. If a change to DOWN is seen in other circumstances it may be due to a hardware failure.

**Error Message**

%FABRIC-FSDB-3-ERR\_CHKPT Failed to [chars] checkpoint record: [chars].  
Exiting...

**Explanation** FSDB server encountered an error while updating or accessing its checkpoint information. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-3-ERR\_CHKPT\_INIT Failed to initialize check point library: [chars].  
Exiting...

**Explanation** FSDB was unable to setup the check pointing facility to offer high availability functionality. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-3-ERR\_DEBUG Failed to setup the debugging services: [chars].  
Exiting...

**Explanation** FSDB was unable to initialize the debugging services. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_DSC FSDB Server: DSC Error [[chars]]: [chars]
```

**Explanation** Fabric Status Database server (FSDB) failed to communicate with the DSC server. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_ECM_CREATE Failed to create the event connection manager for [chars]: [chars]. Exiting...
```

**Explanation** FSDB encountered an error while attempting to create an event connection manager for the specified path. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_ECM_NOTIFY Failed to install ECM notification handler for [chars] path: [chars]. Exiting...
```

**Explanation** FSDB encountered an error while attempting to install an ECM notification handler for the specified path. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_EVM_CREATE Failed to create the event manager: [chars]. Exiting...
```

**Explanation** FSDB encountered an error while attempting to create an event manager. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_GET_NODEID  FSDB Server: Failed to [chars]: [chars]
```

**Explanation** FSDB server failed to obtain either its node ID or extract rack/slot/instance information (having obtained the node ID). The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_INTERNAL  [chars] : [chars]
```

**Explanation** An internal error occurred that was expected to succeed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB-3-ERR_PARSE_FILE  Parse error in fabric definition file [chars], line [dec]
```

**Explanation** A file describing switch fabric components has errors. Some fabric components cannot be brought into service.

**Recommended Action** A failed or incomplete software upgrade could cause this error. It could also be caused by corruption of an existing definition file. Ensure that the definition file is not damaged. If the problem persists, re-install the fabric control software.

**Error Message**

```
%FABRIC-FSDB-3-ERR_RESYNC_ASSERT  Restarting to recover from resync timeout
```

**Explanation** During the deferral window, fsdb\_server did not hear from a driver or rack due to some connection/transport issue. Restarting fsdb\_server will try to recover it.

**Recommended Action** This clearly indicates an underlying transport issue.

**Error Message**

`%FABRIC-FSDB-3-ERR_RESYNC_TIMEOUT` Timeout during initial synchronization with [chars]

**Explanation** When FSDB starts up it attempts to resynchronize the state with all current entities. This message indicates that one or more of these entities has not responded within the timeout period. This could lead to FSDB having an inconsistent view of the fabric, and can potentially cause traffic loss.

**Recommended Action** Restarting FSDB process on any racks suffering from traffic loss may help, if not, restart FSDBs on all racks might resolve the issue. 'admin process restart fsdb\_server location loc' Since 'restart process' is a disruptive operation and all the previous state is lost, all the logs for the commands mentioned in required\_info should be saved. If problem persists, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

`%FABRIC-FSDB-3-ERR_SYSDB` FSDB Server: Sysdb failed to [chars]: [chars]

**Explanation** FSDB encountered a Sysdb communication failure. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

`%FABRIC-FSDB-3-ERR_SYSDB_BIND` Connection to the sysdb server failed: [chars]

**Explanation** FSDB failed to open a connection to the Sysdb Server process for one of the paths. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

`%FABRIC-FSDB-3-ERR_SYSDB_EDM_NOTIF_GEN` FSDB Server: Failed generating [chars] notification: [chars]

**Explanation** FSDB external data manager failed to generate a trap notification. Process would continue to run normally.

**Recommended Action** This message indicate that trap notifications of the operational states of planes and bundles would not occur. If snmp manageability is not enabled, this message can be ignored. However, if this functionality is necessary then restart the process by issuing the following command at the CLI of the active RP after collecting all the output of all the specified commands. 'admin

process restart fsdb\_server/fsdb\_aserver loc loc' Restart fsdb\_server if the bundle state traps are missing else if plane state traps are missing restart fsdb\_aserver. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FSDB-3-ERR_SYSDM_EDM_REG Failed to register as an EDM for [chars]:  
[chars], exiting...
```

**Explanation** The FSDB was unable to become an external data manager (EDM) for the specified path. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger respective RP/SC switchover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FSDB-3-ERR_SYSDM_REG_NOTIF FSDB Server: Failed to register notification  
for [chars] path: [chars]. SNMP traps will not be generated for this path
```

**Explanation** FSDB external data manager failed to register for notifications for the specified path. Process would continue to run normally, except that SNMP traps will not be generated for changes in fabric state.

**Recommended Action** This message indicate that trap notifications of the operational states of planes and bundles would not occur. If snmp manageability is not enabled, this message can be ignored. However, if this functionality is necessary then restart the process by issuing the following command at the CLI of the active RP after collecting all the output of all the specified commands. 'admin process restart fsdb\_server/fsdb\_aserver loc loc' Restart fsdb\_server if the bundle state traps are missing else if plane state traps are missing restart fsdb\_aserver. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

#### Error Message

```
%FABRIC-FSDB-3-ERR_UNKNOWN_FAB_DEF Cannot find fabric definition file [chars]
```

**Explanation** A file describing switch fabric components is not present on the router.

**Recommended Action** If the hardware installed in the router has changed, ensure that fabric control software has been upgraded to the correct version. If the correct software has been installed, report the problem to technical support.

**Error Message**

%FABRIC-FSDB-3-OPEN\_FAIL Unable to open [chars] after [dec] retries

**Explanation** Fabric Status Database server (FSDB) failed to open a rommon file.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-4-ERR\_DEST\_CONN Node ([chars]) is not reachable on plane [dec]

**Explanation** This is to indicate that a node has lost connectivity to a plane. Most likely, back plane connectivity between the node and the fabric card has failed.

**Recommended Action** To fix the issue please reinsert the card and make sure it seats well. If that doesn't help than verify the integrity of mid-plane pins.

**Error Message**

%FABRIC-FSDB-4-ERR\_FLED [chars] : [chars], LED(Row [dec], col [dec]),  
corresponding to node [dec]

**Explanation** Fabric LED internal software error occurred. It is possible to continue operation, although some LEDs on fabric led board may incorrectly illuminate. However, if this functionality is necessary then restart the process by issuing the following command at the CLI of the active RP after collecting all the output of all the specified commands. 'admin process restart fsdb\_server loc' \*SUPPORT\*

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-4-ERR\_INTERNAL\_WARN [chars] : [chars]

**Explanation** FSDB encountered a minor internal software error. It is possible that fabric operates normally without any issues.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-4-ERR\_THREAD\_COND\_SIGNAL Failed thread conditional signal on [chars]: [chars].

**Explanation** FSDB encountered an error while attempting to signal a thread conditionally. The operation related to the resource will be affected and the process will continue to run normally.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-4-ERR\_THREAD\_COND\_WAIT Failed thread conditional wait on [chars]: [chars].

**Explanation** FSDB encountered an error while attempting to wait conditionally on a thread. The operation related to the resource will be affected and the process will continue to run normally.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-4-ERR\_THREAD\_MUTEX\_LOCK Failed to lock [chars] mutex : [chars].

**Explanation** FSDB encountered an error while locking a mutex to access the specified shared resource. The operation related to the resource may be affected while the process continues to run normally.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-4-ERR\_THREAD\_MUTEX\_UNLOCK Failed to unlock [chars] mutex : [chars].

**Explanation** FSDB encountered an error while locking unlocking a mutex to access the specified shared resource. The operation related to the resource may be affected while the process continues to run normally.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB-4-PLANE\_SHUTDOWN It is advisable to have [chars] to be up. Shutting down all the planes will leave the router in unrecoverable state.

**Explanation** In a CRS-16 system, at least one odd plane and at least one even plane is required. In others, at least one plane is required. If all the planes are shutdown, the router goes into an unrecoverable state.

**Recommended Action** Try to unshut a plane. If it does not help, the only way out is to reload the router either from the CLI or power cycle.

**Error Message**

%FABRIC-FSDB-6-BOOT\_WITHOUT\_FABRIC FSDB Aserver: System will boot without waiting for fabric to be up

**Explanation** System is booting up without waiting for fabric to be up.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FSDB-6-PLANE\_DEST\_UNREACHABLE Fabric address [dec] unreachable on plane [dec]. [dec] links up. Threshold [dec]

**Explanation** This message gives additional information related to a plane in multicast-down state. It reports the number of operating fabric links from the plane to the destination. The threshold reported is the number of fabric links that are required for the destination to be considered reachable.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FSDB-6-PLANE\_GROUP\_DISABLED Disabled fabric traffic from group [dec] of rack [dec] in plane [dec]. [dec] links up. Threshold [dec]

**Explanation** This message gives additional information related to a plane in multicast-down state. It reports that a group of fabric cards are unable to send traffic to any destination. For CRS-1 16-slot chassis, group 0 is the upper shelf containing line cards 0 to 7. Group 1 is the lower shelf containing line cards 8 to 15 and both RPs. The message reports the number of operating data links from the specified group to the fabric plane that are operating. The reported threshold is the number of data links that should be operating in order to make the fabric group usable.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-FSDB-6-PLANE\_GROUP\_UNREACHABLE All fabric addresses in group [dec] of rack [dec] unreachable on plane [dec]. [dec] links up. Threshold [dec]

**Explanation** This message gives additional information related to a plane in multicast-down state. It reports that a group of fabric addresses have become unreachable. For CRS-1 16-slot chassis, group 0 is the upper shelf containing line cards 0 to 7. Group 1 is the lower shelf containing line cards 8



to 15 and both RPs. The message reports the number of data links that are operating from the fabric plane to the specified group. The threshold is the number of data links that should be operating in order to make the fabric group reachable.

**Recommended Action** No action is required.

#### Error Message

```
%FABRIC-FSDB-6-PLANE_RACK_MCAST_DOWN Plane [dec] reported in multicast-down state by rack(s) [chars]
```

**Explanation** This message gives additional information related to a plane in multicast-down state. The message contains a comma-separated list of the line card racks that reported the multicast-down state.

**Recommended Action** No action is required.

#### Error Message

```
%FABRIC-FSDB-7-ERR_MEM_ALLOC Failed to allocate memory.
```

**Explanation** FSDB has failed to allocate memory for its resources. This would affect proper functioning of fabric.

**Recommended Action** This indicates a low-memory condition. Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

#### Error Message

```
%FABRIC-FSDB-7-ERR_SYSDB_BAG_ENCODE FSDB Server: SYSDB Bag encode[[chars]]:  
[chars]
```

**Explanation** FSDB server encountered error in sysdb bag encode operation. This could affect output of some of the fabric CLI commands.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# FSDB\_FADB\_MAIN Messages

## Error Message

%FABRIC-FSDB\_FADB\_MAIN-3-EVT\_MGR\_CREATE\_FAIL event manager create failed:  
[chars]

**Explanation** FSDB FADB encountered an error while attempting to create an event manager for process fsdb\_fadb

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FSDB\_FADB\_MAIN-3-EXTRACT\_NODE\_ID\_FAIL nodeid\_extract\_fields failed:  
[chars]

**Explanation** FSDB FADB encountered an error while attempting to extract info from node id in process fsdb\_fadb

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FSDB\_FADB\_MAIN-3-GET\_NODE\_ID\_FAIL platform\_get\_my\_nodeid failed:  
[chars]

**Explanation** FSDB FADB encountered an error while attempting to get node id in process fsdb\_fadb

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-FSDB\_FADB\_MAIN-3-RESPAWN\_COUNT\_GET\_FAIL respawn count get failed:  
[chars]

**Explanation** FSDB FADB encountered an error while attempting to attach sync event handler for process fsdb\_fadb

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB\_FADB\_MAIN-3-SYNC\_HDLR\_ATTACH\_FAIL sync event handler attach failed: [chars]

**Explanation** FSDB FADB encountered an error while attempting to attach sync event handler for process fsdb\_fadb

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB\_FADB\_MAIN-3-SYSDB\_BIND\_FAIL sysdb bind failed: [chars]

**Explanation** FSDB FADB encountered an error while attempting to bind to the rack endpoint to get router inventory

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSDB\_FADB\_MAIN-3-SYSDB\_LIST\_FREE\_FAIL sysdb list free failed: [chars]

**Explanation** FSDB FADB encountered an error while attempting to free a list while getting the sysdb inventory

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FSDB\_FADB Messages

**Error Message**

%FABRIC-FSDB\_FADB-3-SHM\_CREATE\_FAIL Shared memory creation failed: [chars]

**Explanation** FSDB FADB encountered an error while attempting to create the FADB shared memory

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB_FADB-3-SHM_OPEN_FAIL  shm_open failed: [chars]
```

**Explanation** FSDB FADB encountered an error while attempting to open the FADB shared memory

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB_FADB-4-SHM_FILE_TRUNCATE_FAIL  [chars]: shared memory file truncate failed: [chars]
```

**Explanation** FSDB FADB encountered an error while attempting to truncate the FADB shared memory file

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSDB_FADB-4-SHM_MMAP_FAIL  [chars]: shared memory mapping failed: [chars]
```

**Explanation** FSDB FADB encountered an error while attempting to map the FADB shared memory

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FSTATSA Messages

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_BAG_REG  Bag register error is detected; [chars].
```

**Explanation** Fabric statistics aggregator process encountered a fatal error to register its bags to bag software. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_DEBUG_INIT_EVENT Debug initialization for the
fstats/server/[chars] event failed; [chars]
```

**Explanation** Fabric statistics aggregator process encountered a fatal error to initialize debug facility and hence failed to initialize. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_DEBUG_REGISTER Debug registration for fabric statistics
server failed; [chars]
```

**Explanation** Fabric statistics aggregator process encountered a fatal error to register debug facility and hence failed to initialize. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_EVM_CREATE Failed to create event manager; [chars]
```

**Explanation** Fabric statistics aggregator process encountered a fatal error to create its event manager for receiving events. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_GSP_GROUP_CREATE GSP group [chars] creation/join was failed; [chars]; rc equals [hex].
```

**Explanation** Fabric statistics aggregator process encountered a fatal error to create group for group communication. This software error will cause process termination to recover. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_INTERNAL Internal software error: [chars]; [chars]
```

**Explanation** Fabric statistics aggregator process encountered a fatal internal software error. This software error will cause process termination to recover. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. \*RECUR\*

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_SYSDB_BIND Can't bind to SysDB at [chars]; [chars]
```

**Explanation** Fabric statistics aggregator process encountered a fatal error to bind to admin plane sysdb server. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSA-3-ERR_SYSDB_EDM_REG Failed to register SysDB EDM at [chars]; [chars]
```

**Explanation** Fabric statistics aggregator process encountered a fatal error to register EDM to admin plane sysdb server. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSTATSA-3-ERR\_SYSMGR\_PROC\_READY Failed to report process ready to sysmgr; [chars]

**Explanation** Fabric statistics aggregator process encountered a fatal error to report process ready to sysmgr. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## FSTATSC Messages

**Error Message**

%FABRIC-FSTATSC-3-ERR\_GSP\_GROUP\_CREATE GSP group [chars] creation/join was failed; [chars].

**Explanation** Fabric statistics client library encountered failure of creating group for GSP group communication.

**Recommended Action** Restart Fabric statistics client manually if the error is persistent.

**Error Message**

%FABRIC-FSTATSC-7-ERR\_DEBUG\_CLEANUP Debug cleanup for fabric statistics client library failed: [chars]

**Explanation** Fabric statistics client library encountered debug facility clean up failure.

**Recommended Action** None.

**Error Message**

%FABRIC-FSTATSC-7-ERR\_DEBUG\_INIT\_EVENT Debug initialization for the fstats/client/[chars] event failed: [chars]

**Explanation** Fabric statistics client library encountered debug facility initialization failure. When this error happens, the library will not be able to enable debug.

**Recommended Action** Restart Fabric statistics client manually if the error is persistent.

**Error Message**

%FABRIC-FSTATSC-7-ERR\_DEBUG\_REG Debug registration for fabric statistics client library failed: [chars]

**Explanation** Fabric statistics client library encountered debug facility registration failure. When this error happens, the library will not be able to enable debug.

**Recommended Action** Restart Fabric statistics client manually if the error is persistent.

**Error Message**

%FABRIC-FSTATSC-7-ERR\_GSP\_LOOKUP\_LWG GSP lightweight group [chars] lookup was failed; [chars].

**Explanation** Fabric statistics client library encountered failure when it looks up Fabric server lightweight group for lightweight group communication. Normally, this is a transient error. It can be a true error if the error is persistent.

**Recommended Action** Restart Fabric statistics client manually if the error is persistent in a specific fabric card. Restart Fabric statistics server manually if the error is persistent in many fabric cards.

## FSTATSS Messages

**Error Message**

%FABRIC-FSTATSS-3-ERR\_BAG\_REG Bag register error is detected; [chars].

**Explanation** Fabric statistics server process encountered a fatal error to register its bags to bag software. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSTATSS-3-ERR\_DEBUG\_INIT\_EVENT Debug initialization for the fstats/server/[chars] event failed; [chars]

**Explanation** Fabric statistics server process encountered a fatal error to initialize debug facility and hence failed to initialize. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.



**Error Message**

%FABRIC-FSTATSS-3-ERR\_DEBUG\_REGISTER Debug registration for fabric statistics server failed; [chars]

**Explanation** Fabric statistics server process encountered a fatal error to register debug facility and hence failed to initialize. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSTATSS-3-ERR\_EVM\_CREATE Failed to create event manager; [chars]

**Explanation** Fabric statistics server process encountered a fatal error to create its event manager for receiving events. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSTATSS-3-ERR\_GSP\_GROUP\_CREATE GSP group [chars] creation/join was failed; [chars]; rc equals [hex].

**Explanation** Fabric statistics server process encountered a fatal error to create group for group communication. This software error will cause process termination to recover. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSTATSS-3-ERR\_INTERNAL Internal software error: [chars]; [chars]

**Explanation** Fabric statistics server process encountered a fatal internal software error. This software error will cause process termination to recover. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-FSTATSS-3-ERR\_MEM\_ALLOC Could not allocate memory for [chars].

**Explanation** Fabric statistics server process encountered memory allocation error for creating statistics database or storing statistics data. This software error will cause process termination to recover during process initialization. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** Memory allocation failures will happen if the router runs out of memory or memory leak in this process or other processes. User needs to do 'process restart memory hog process job id' to recover.

**Error Message**

%FABRIC-FSTATSS-3-ERR\_SYSDB\_BIND Can't bind to SysDB at [chars]: [chars]

**Explanation** Fabric statistics server process encountered a fatal error to bind to admin plane sysdb server. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSS-3-ERR_SYSDM_EDM_REG Failed to register SysDB EDM at [chars]:  
[chars]
```

**Explanation** Fabric statistics server process encountered a fatal error to register EDM to admin plane sysdb server. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSS-3-ERR_SYSMGR_PROC_READY Failed to report process ready to  
sysmgr; [chars]
```

**Explanation** Fabric statistics server process encountered a fatal error to report process ready to sysmgr. This software error will cause process termination for recovery. The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. If the problem continues, sysmgr will trigger node reload. After a certain number of node reloads, the shelf manager will permanently shutdown the node.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-FSTATSS-7-ERR_RSC_REG_INCONSISTENT_VALUE [chars]: fabric resource  
registration error due to inconsistent value.
```

**Explanation** Fabric statistics server process encountered a transient error due to the inconsistent checking of the received message. This error message will be a true error if many error message is logged and the error is persistent.

**Recommended Action** If the error continues, user will need to restart the process for recovery.

## HFR\_FSDB\_FADB\_LTRACE Messages

### Error Message

%FABRIC-HFR\_FSDB\_FADB\_LTRACE-3-ERROR\_INIT\_FAIL ltrace initialization operation failed for error traces: [chars]

**Explanation** The FSDB FADB ltrace lib failed to initialize the error ltrace

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

### Error Message

%FABRIC-HFR\_FSDB\_FADB\_LTRACE-3-EVENT\_INIT\_FAIL ltrace initialization operation failed for events: [chars]

**Explanation** The FSDB FADB ltrace lib failed to initialize the events ltrace

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

### Error Message

%FABRIC-HFR\_FSDB\_FADB\_LTRACE-3-INTERNAL\_INIT\_FAIL ltrace initialization operation failed for internal traces: [chars]

**Explanation** The FSDB FADB ltrace lib failed to initialize the internal ltrace

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## INGRESSQ\_ALARM Messages

### Error Message

%FABRIC-INGRESSQ\_ALARM-2-DEVICE\_HALT INGRESSQ: device halted, sub-block: [chars], halted entity: [chars]

**Explanation** INGRESSQ, ASIC got halted. The halted block and its parent block are provided

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

# INGRESSQ\_DLL Messages

## Error Message

%FABRIC-INGRESSQ\_DLL-2-ERR\_EIO\_TRAIN EIO link training threshold exceeded, link: [dec]

**Explanation** Repeated attempts to train the EIO links to the neighboring Asic have failed. No further attempts to retrain the link will be made.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-INGRESSQ\_DLL-2-TAKING\_NODE\_DOWN Taking the node down, Reason: [chars]

**Explanation** Ingressq DLL encountered a fatal error mentioned above. The driver triggers MSC node-down to recover from the error.

**Recommended Action** This might be a recovery action from a fault. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-INGRESSQ\_DLL-3-BRM\_BARRIER\_SYNCUP\_FAILED BRM Block: Barrier sync up failed for this node. Last sync state equals [dec]

**Explanation** There might be a fabric disconnect in the system.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

%FABRIC-INGRESSQ\_DLL-3-ERR\_ASIC\_FCRAM\_ASSERT Assert Error valid: [dec], block: [dec], debug\_info: [dec]

**Explanation** Ingressq encountered an assert error in the FCRAM. The driver triggers a device reset. The device should be reinitialized.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-ERR\_ASIC\_MBE Multiple Bit Error in Block: [chars] Error: [chars] at Memory Address [hex].

**Explanation** Ingressq encountered a multiple bit error in the mentioned block. This error is an uncorrectable error. Driver takes appropriate action to log and fix the error which may include a device reset.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-ERR\_BIST Error during [chars] BIST

**Explanation** BIST failed for the mentioned block. The driver should trigger a device reset to fix this error.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-ERR\_INIT [chars]

**Explanation** The Ingressq driver failed to initialize the device resulting in the restart of the Ingressq driver process.

**Recommended Action** Collect all the event logs and the output of the following command executed from the CLI of the active RP: 'show process ingressq' Also, collect the fabric snapshot: 'show fabric-snapshot file loc '

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-ERR\_MEM\_ALLOC Error Allocating memory for [chars]

**Explanation** The Ingressq dll Memory Allocation Error message.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-RESET Resetting IQM ASIC Device

**Explanation** Ingressq, cpuctrl net interface encountered a CRC/Sync Error. This will result in the PIO or CDMA failure.

**Recommended Action** If it is possible to isolate the trigger point for the sn link error, collect all the necessary condition that caused the error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-SEQ\_STATE\_POST\_OP\_FAILED Sequencer state: [dec], reason: [chars] : [chars], #retries: [dec]

**Explanation** Ingressq driver state machine encountered a failure in initializing the device above threshold number of times. Driver will continue to initialize the device.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-SEQ\_STATE\_PRE\_OP\_FAILED Exiting. sequencer state: [dec], reason: [chars] : [chars]

**Explanation** Ingressq driver state machine encountered an unrecoverable error. This will result in driver restart.

**Recommended Action** The System Manager process (sysmgr) will automatically respawn this process, up to a fixed number of times the error is encountered, to recover. Verify that the ingressq driver is up and running by executing the following command at the CLI of the active RP: 'show process ingressq location' If it is still non-operational, enable the following debugs of the ingressq driver process: asic error asic fatal asic info and restart the driver by executing the following command at the CLI of the active RP: 'process restart ingressq location' If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-3-WDG\_SEG\_HUNG Spiller Seg blk is hung, resetting spiller - pkt\_fifo [hex], ctrl\_fifo [hex], icf\_fifo [hex]

**Explanation** Watchdog detected that spiller seg block is hung, resetting spiller to recover

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-BRM\_AGGR\_DELTA\_THRSHLD BRM aggr delta, spo link: [dec], cast: [dec], threshold: [unsigned long int]

**Explanation** There might be a fabric disconnect in the system.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-BRM\_DELTA\_THRSHLD BRM delta threshold, spo link: [dec], cast: [dec], threshold: [unsigned long int]

**Explanation** There might be a fabric disconnect in the system.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-BRM\_DID\_CULPRIT BRM double in delta culprit, spo link: [dec], cast: [dec]

**Explanation** There might be a fabric disconnect in the system.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-BRM\_INVALID\_INPUT BRM invalid input; spo: [dec], cast: [dec], current\_barr: [hex] input\_barr: [hex]

**Explanation** There might be a fabric disconnect in the system.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-BRM\_PHASE\_CHANGE\_COUNTER BRM, phase didn't change, spo link: [dec], cast: [dec], phase: [hex], phase to counter: [hex], phase to thr: [hex]

**Explanation** Barrier Manager encountered a phase change error.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.



**Error Message**

```
%FABRIC-INGRESSQ_DLL-4-CDMA_REQ_ERROR CpuCtrl error, addr:([hex],[hex]), dir:
[dec], rc: [dec]
```

**Explanation** CpuCtrl driver was not able to complete the CDMA request for the above specified address location. This may be caused if the device is not initialized correctly or synchronized correctly.

**Recommended Action** If it is possible to isolate the trigger point for the cdma failure, collect all the necessary condition that caused the error. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ_DLL-4-CONFIG_ERR Ingressq received packets in invalid queue(s).
[chars]
```

**Explanation** Ingressq has various queues that are used by Ingress ASICs to send specific stream of traffic. These queues are specifically configured before they are used to forward traffic. Ingressq received a few packets in queues that were misconfigured or not configured at all. The driver will automatically try to recover from the condition.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ_DLL-4-ERR_ASIC_CRC CRC Error: Block:[chars] Error:[chars]
Count: [dec]
```

**Explanation** Ingressq block received a packet with a CRC error. It is primarily caused by either the link errors between the devices or packet corruption in the upstream asic. This error may cause performance degradation.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ_DLL-4-ERR_ASIC_LENGTH Block: [chars] encountered error:
[chars]. It received a packet with length error(s), expected: [dec], received:
[dec]
```

**Explanation** Ingressq received a packet with incorrect length either from cpuctrl or Ingress PSE. It is primarily caused by either the link errors between the devices or packet corruption in the upstream asic.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-ERR\_ASIC\_SN\_LINK CpuCtrl Interface RxFIFO Error: [chars]

**Explanation** Ingressq, cpuctrl net interface Rx FIFO last sync.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-ERR\_CHKPT\_INIT Error encountered during Checkpoint Initialization

**Explanation** Ingressq Checkpoint Init error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-ERR\_CHKPT\_INSERT Error encountered during [chars] Checkpoint Insertion

**Explanation** Ingressq Checkpoint Insert error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-INTR\_ENABLE\_FAIL Interrupt enable at addr: [hex] mask: [hex] failed.

**Explanation** Hardware state is not correct.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-LNS\_CCDF\_OVERFLOW\_ERROR control cell fifo overflow error

**Explanation** Ingressq LNS control cell fifo overflow.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-LNS\_LOP\_DROP Error: Cells dropped due to low availability of planes, aggr cell drop count: [unsigned long long int]

**Explanation** Ingressq dropped a few cells because of unavailability of enough planes to forward the cells to its destination. If the cells are dropped intermittently during system reconfiguration (LC reload, RP fail over, and so forth), then these drops are expected. System will recover after the hardware reprogramming completes. If these drops are seen continuously for long periods, then this indicates that either the node is not programmed correctly, or there is an error in data plane software.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-4-PFI\_PARITY\_ERROR parity error in plane RA, name: [chars], link: [dec], RA: [dec], Addr: [dec]

**Explanation** Ingressq, cpuctrl net interface Rx FIFO last sync.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-5-ERR\_ASIC\_PARITY Block: [chars], entity: [chars] had parity error(s), addr: [dec], parity: [dec]

**Explanation** In the specified block a parity error encountered at mentioned addr offset. If the error exceeds its threshold, the driver trigger a corrective action which may include device reset or MSC reload.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-5-ERR\_ASIC\_SBE Single Bit Error in Block: [chars] Error: [chars] at Memory Address: [hex]

**Explanation** Ingressq encountered a single bit error in the mentioned block. Persistent errors are corrected by the software. Non-persistent errors are automatically corrected by the next write operation.

**Recommended Action** This error is an correctable error. There are no side effects. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-6-BRM\_BARRIER\_SYNCED\_UP BRM Block: Barrier synced up on this node.

**Explanation** This message indicates that system barriers synced on this node. This message is expected during normal operation.

**Recommended Action** No action is required.

**Error Message**

%FABRIC-INGRESSQ\_DLL-6-ERR\_ASIC\_GENERIC Block: [chars], Generic Error [chars] at Memory Address [hex].

**Explanation** Ingressq encountered a device error that has exceeded its threshold value. Driver takes appropriate action to log and fix the error which may include a device reset.

**Recommended Action** If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-6-ERR\_ASIC\_OOR Block: [chars], entity: [chars] had Out Of Resources error(s), count: [dec]

**Explanation** Ingressq block is unable to get packet memory for the incoming packets. This condition is caused by over subscription or hitting the Packet Per Second rate. This will affect the QOS. Thus it is recommended to reduce the packet rate to this MSC.

**Recommended Action** Reduce the incoming packet rate to this MSC as under the OOR condition the QOS. If the OOR is seen in non-oversubscribed case, contact TAC. Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

**Error Message**

%FABRIC-INGRESSQ\_DLL-6-ERR\_TX\_CONN Ingressq links to plane(s) [chars] could not be brought up. Please check the connected planes

**Explanation** Ingressq ASIC has 32 TX links into the fabric planes. This message lists the fabric planes that cannot be used by the Ingressq ASIC for data traffic.

**Recommended Action** If these fabric planes have not been installed, please ignore this message. If these fabric planes have been installed, Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ_DLL-6-SEQ_STATE_THRESHOLD_EXCEEDED sequencer state: [dec],  
threshold: [dec], reason: [chars] [chars], #retries: [dec]
```

**Explanation** Ingressq sequencer state threshold exceeded.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ_DLL-6-WDG_BARRIER_STALLED [chars]: barrier stalled.
```

**Explanation** Ingressq, Barrier stalled on one of the casts

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ_DLL-6-WDG_BARRIER_STALL_CLEARED [chars]: barrier stall cleared.
```

**Explanation** Ingressq, Barrier stall cleared on one of the casts

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ_DLL-7-ERR_REGISTER_GET Register get failed for address [hex],  
Reason: [chars]
```

**Explanation** An attempt to read a Hardware register failed. This could result in inconsistent behavior of the device.

**Recommended Action** Run diags on the board and contact TAC support. If it is possible to isolate the trigger point for the read failure, collect all the necessary condition that caused the error. If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ\_DLL-7-ERR\_RES\_PROG Error during Resource Programming: [chars]  
Reason: [chars]

**Explanation** Ingressq encountered an error during resource programming. If there are no further attempts to reprogram the device, the device behavior may be inconsistent.

**Recommended Action** The driver/client processes try to recover from this error. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## INGRESSQ\_LIB Messages

**Error Message**

%FABRIC-INGRESSQ\_LIB-7-ERR\_LWM\_SEND Ingressq Lib: LWM Message send failed msg:  
[dec], retried: [dec] time(s), errno: [chars]

**Explanation** Unable to send a LWM message to the Ingressq server.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

## INGRESSQ Messages

**Error Message**

%FABRIC-INGRESSQ-2-ASIC\_RESET\_FAILED Ingressq: Error encountered during hw reset  
of sprayer.

**Explanation** Ingressq hw reset error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-3-ERR\_INIT Fatal error encountered, reason equals [chars]

**Explanation** The Ingressq driver failed to initialize the device resulting in the restart of the Ingressq driver process.

**Recommended Action** Collect all the event logs and the output of the following command executed from the CLI of the active RP: 'show process ingressq' Also, collect the fabric snapshot: show fabric-snapshot file loc

**Error Message**

%FABRIC-INGRESSQ-3-ERR\_MEM\_ALLOC Error Allocating [dec] bytes of memory

**Explanation** Ingressq encountered a fatal memory allocation error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-4-ERR\_CHKPT\_INIT Error encountered during Checkpoint Init.  
Exiting

**Explanation** Ingressq Checkpoint Init error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-6-LINK\_DOWN Ingressq: Link [dec] has been administratively shut down.

**Explanation** Ingressq link has been shut down due to admin configuration. Ingressq ASIC won't be able to use this link for data traffic.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_BAG\_REG Bag register failed for rules

**Explanation** EDM Bags are used to share information between components using sysdb. This Error indicates that bag registration failed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_CHKPT\_DELETE Error encountered during [chars] Checkpoint Deletion

**Explanation** Ingressq Checkpoint delete error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_CHKPT\_INSERT Error encountered during [chars] Checkpoint Insertion

**Explanation** Ingressq Checkpoint Insert error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_CLIENT\_REG Client [chars] failed. Error: [chars]

**Explanation** Ingressq client failed to Register/Unregister with Ingressq Server process. This error is also detected from the client's side. Retrial attempts would be made by the client.

**Recommended Action** 1. Verify the connectivity between the client and the Ingressq process. 'show controllers ingressq clients location ' Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_DLL\_REG Dll registration for [chars] failed

**Explanation** Ingressq driver tried to register for a dll but it encountered an error. The driver might lose some of its functionality.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_EVM\_CREATE Event Manager create failed for [chars]

**Explanation** Ingressq Event Manager create error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_EVM\_NOTIFY Event Manager notify failed for [chars]

**Explanation** Ingressq Event Manager notify error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.



**Error Message**

```
%FABRIC-INGRESSQ-7-ERR_LWM_CREATE Event Manager create failed. Error([dec])  
[chars]
```

**Explanation** Ingressq Event Manager create error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ-7-ERR_LWM_EVENT_BLOCK LWM Event Manager event block failed
```

**Explanation** Ingressq Event Manager event block error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ-7-ERR_LWM_REPLY An Error occurred during LWM message reply.  
Reason: [chars]
```

**Explanation** Ingressq LWM reply error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ-7-ERR_RES_PROG Error during Resource Programming: [chars]  
Reason: [chars]
```

**Explanation** Ingressq encountered an error during resource programming. If there are no further attempts to reprogram the device, the device behavior may be inconsistent.

**Recommended Action** The driver/client processes try to recover from this error. If any discrepancies are found in the device functionality, contact TAC Support. Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%FABRIC-INGRESSQ-7-ERR_SYSDB_BIND Sysdb Bind failed.
```

**Explanation** Ingressq Sysdb Bind error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_SYSDB\_EDM\_REG Sysdb Register EDM failed.

**Explanation** Ingressq Sysdb Register EDM error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_SYSDB\_REG\_VERIFY Sysdb Registration verification failed.

**Explanation** Ingressq Sysdb Registration verification error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%FABRIC-INGRESSQ-7-ERR\_SYSDB\_SET Sysdb Item Set Failed : [chars]

**Explanation** Ingressq Sysdb Set error

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.