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commit [cf9777be5683c5e55680c089df02ee27d2226aa8](#) (patch)
tree [dc4e68711bf708b859ff69c46b1bd05212d1c79e](#)
parent [ec5cd9189e51e2f898a004dcfa52bca645ce0188](#) (diff)
download [linux-cf9777be5683c5e55680c089df02ee27d2226aa8.tar.gz](#)

diff options

context: ▼
space: ▼
mode: ▼

scsi: mpi3mr: Fix expander node leak in mpi3mr_remove()

[Upstream commit [ce756daa36e1ba271bb3334267295e447aa57a5c](#)]

Add a missing resource clean up in .remove.

Fixes: [e22bae30667a](#) ("scsi: mpi3mr: Add expander devices to STL")
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Diffstat

-rw-r--r--	drivers/scsi/mpi3mr/mpi3mr.h	2
-rw-r--r--	drivers/scsi/mpi3mr/mpi3mr_os.c	7
-rw-r--r--	drivers/scsi/mpi3mr/mpi3mr_transport.c	5

3 files changed, 10 insertions, 4 deletions

diff --git a/drivers/scsi/mpi3mr/mpi3mr.h b/drivers/scsi/mpi3mr/mpi3mr.h

index 68f29ffb05b828..de6914d57402c8 100644

--- a/drivers/scsi/mpi3mr/mpi3mr.h

+++ b/drivers/scsi/mpi3mr/mpi3mr.h

```
@@ -1394,4 +1394,6 @@ void mpi3mr_flush_drv_cmds(struct mpi3mr_ioc *mrioc);
 void mpi3mr_flush_cmds_for_unrecovered_controller(struct mpi3mr_ioc *mrioc);
 void mpi3mr_free_enclosure_list(struct mpi3mr_ioc *mrioc);
 int mpi3mr_process_admin_reply_q(struct mpi3mr_ioc *mrioc);
+void mpi3mr_expander_node_remove(struct mpi3mr_ioc *mrioc,
+ struct mpi3mr_sas_node *sas_expander);
 #endif /*MPI3MR_H_INCLUDED*/
```

diff --git a/drivers/scsi/mpi3mr/mpi3mr_os.c b/drivers/scsi/mpi3mr/mpi3mr_os.c

index 2e546c80d98ce6..6d55698ea4d16c 100644

--- a/drivers/scsi/mpi3mr/mpi3mr_os.c

+++ b/drivers/scsi/mpi3mr/mpi3mr_os.c

```
@@ -5079,6 +5079,7 @@ static void mpi3mr_remove(struct pci_dev *pdev)
     unsigned long flags;
     struct mpi3mr_tgt_dev *tgtdev, *tgtdev_next;
     struct mpi3mr_hba_port *port, *hba_port_next;
+    struct mpi3mr_sas_node *sas_expander, *sas_expander_next;

     if (!shost)
         return;
```

```

@@ -5119,6 +5120,12 @@ static void mpi3mr_remove(struct pci_dev *pdev)
    mpi3mr_cleanup_resources(mrioc);

    spin_lock_irqsave(&mrioc->sas_node_lock, flags);
+   list_for_each_entry_safe_reverse(sas_expander, sas_expander_next,
+   &mrioc->sas_expander_list, list) {
+       spin_unlock_irqrestore(&mrioc->sas_node_lock, flags);
+       mpi3mr_expander_node_remove(mrioc, sas_expander);
+       spin_lock_irqsave(&mrioc->sas_node_lock, flags);
+   }
    list_for_each_entry_safe(port, hba_port_next, &mrioc->hba_port_table_list, list) {
        ioc_info(mrioc,
            "removing hba_port entry: %p port: %d from hba_port list\n",

diff --git a/drivers/scsi/mpi3mr/mpi3mr_transport.c b/drivers/scsi/mpi3mr/mpi3mr_transport.c
index 3b61815979dabe..50263ba4f84286 100644
--- a/drivers/scsi/mpi3mr/mpi3mr_transport.c
+++ b/drivers/scsi/mpi3mr/mpi3mr_transport.c
@@ -9,9 +9,6 @@

#include "mpi3mr.h"

-static void mpi3mr_expander_node_remove(struct mpi3mr_ioc *mrioc,
-    struct mpi3mr_sas_node *sas_expander);
-
/**
 * mpi3mr_post_transport_req - Issue transport requests and wait
 * @mrioc: Adapter instance reference
@@ -2163,7 +2160,7 @@ out_fail:
 *
 * Return nothing.
 */
-static void mpi3mr_expander_node_remove(struct mpi3mr_ioc *mrioc,
+void mpi3mr_expander_node_remove(struct mpi3mr_ioc *mrioc,
    struct mpi3mr_sas_node *sas_expander)
{
    struct mpi3mr_sas_port *mr_sas_port, *next;

```