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## Troubleshooting a LUN that is extended in size past the 2TB/2047GB limit



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## Symptoms

- Cannot create VMFS-3 datastore.
- Existing VMFS-3 datastore unmounted and no longer mounts.
- Guest operating system cannot access an RDM.

## Resolution

An ESX Server host is limited to a maximum LUN size of 2047GB. This applies to all LUNs being presented to an ESX Server host (VMFS and RDM). Any capacity larger than the limit is not handled. The LUN is not presented as a choice for a data store in the Virtual Infrastructure Client. Attempting to format the LUN from the command line generates an error.

A VMFS-3 data store on a LUN that has been extended past the limit is unmounted. All content on that data store is inaccessible.

Recovery:

- Shrink the LUN back to its original size (if possible).
- Perform a block copy of the old LUN to a new LUN that is within the size limit.
- Destroy the LUN entirely and recreate the LUN within the limit and restore from back.

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