

“Configure Storage Directors” MORE message

- Location of MORE message: Directly below the “Configure Storage Directors” header

Content of MORE message:

This section of the Configurator is used for the configuration of the Backend directors types.

Back-end directors:

- The VSP 5000 series support four types of back-end directors:
 - Standard SAS backend director
 - Encrypting SAS backend director
 - Standard NVMe backend director
 - Encrypted NVMe backend director
- Only one type of back-end director may be configured behind a VSP 5000 Series Node Pair. However you may mix SAS and NVMe node pairs in a single system as long as they are common in type, either all standard BED or all Encrypting BED. You may not have both standard back-end directors and encrypting back-end directors installed in the same VSP 5000 series system
 - Standard SAS back-end director:
 - Four standard backend director cards are required per VSP 5000 series node. Each channel board has 2 SAS ports, each with 12Gbps SAS links.
 - Controls the data transfer between the cache memory and internal drives
 - A maximum of eight of these features may be installed in a node pair thus a maximum of 24 cards configured in a VSP 5000 6 Node system
 - This feature **DOES NOT** support encryption
 - Encrypting SAS back-end director:
 - Four encrypting backend director cards are required per VSP 5000 series node. Each channel board has 2 SAS ports, each with 12Gbps SAS links.
 - Controls the data transfer between the cache memory and internal drives. In writing data to the internal drive the data is encrypted and when reading data from the internal drive the data is de-encrypted.
 - A maximum of eight of these features may be installed in a node pair thus a maximum of 24 cards configured in a VSP 5000 6 Node system
 - This feature **supports encryption**.
 - The Configurator will automatically include the Hitachi Back-end Director Encryption License Key that must be installed to enable the encryption functionality for all encrypting back-end directors installed in the system.
 - Data encryption is implemented per disk per parity group and must be enabled before any of the LDEVs are created
 - Standard NVMe back-end director:
 - Four standard backend director cards are required per VSP 5000 series node. Each channel board has 2 NVMe ports, each with 8Gbps NVMe links.
 - Controls the data transfer between the cache memory and internal drives
 - A maximum of eight of these features may be installed in a node pair thus a maximum of 24 cards configured in a VSP 5000 6 Node system
 - This feature **DOES NOT** support encryption
 - Encrypting NVMe back-end director:
 - Four encrypting backend director cards are required per VSP 5000 series node. Each channel board has 2 NVMe ports, each with 8Gbps NVMe links.
 - Controls the data transfer between the cache memory and internal drives. In writing data to the internal drive the data is encrypted and when reading data from the internal drive the data is de-encrypted.

- A maximum of eight of these features may be installed in a node pair thus a maximum of 24 cards configured in a VSP 5000 6 Node system
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