What do SLC, MLC, TLC, and QLC mean?

Validated. This solution has been verified by our customers to fix the issue with these environment variables

Knowledge

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What are you seeing?
Review differences between SLC, MLC, TLC and QLC.

Environment:
This information applies for solid state drives based on NAND flash technology.

How to fix it:
NAND flash cells are categorized depending on the number of bits they can store:

Single-Level Cell (SLC) can store one bit per cell.

Multi-Level Cell (MLC) can store two bits per cell.

Triple-Level Cell (TLC) can store three bits per cell.

Quad-Level Cell (QLC) can store four bits per cell.

Drive's endurance is better towards SLC technology, while capacity is higher towards QLC SSDs technology.

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