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# **Designing Storage Architectures for Digital Collections**

**Panel 2**

**Tape Vendors – future**

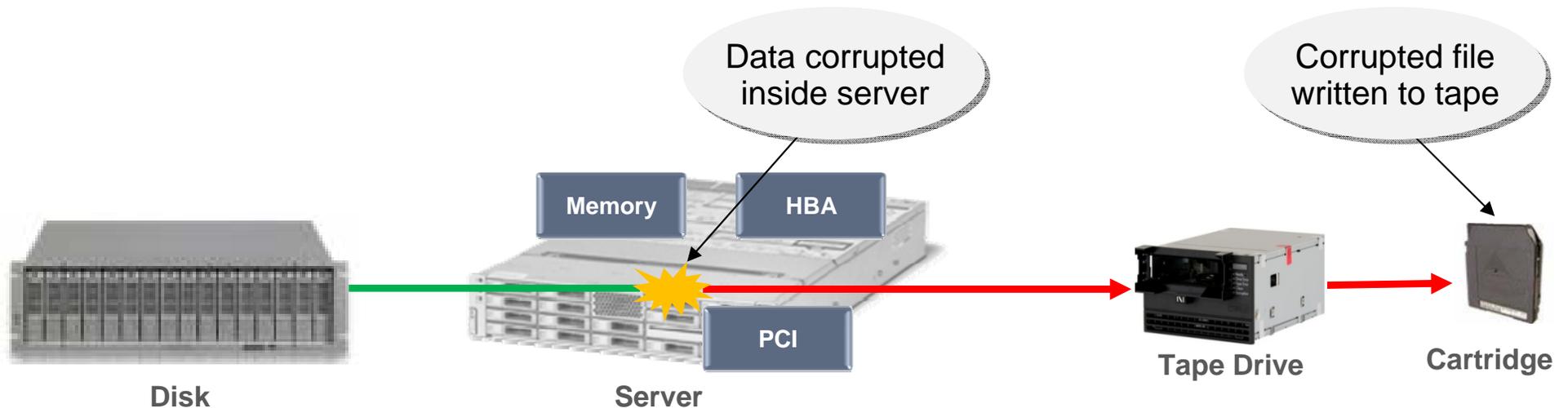
Robert M Raymond

# Emerging Tape Technologies

- Data Integrity Validation (DIV)
- Higher Capacity Tape
  - 5TB today
- LTFS (Linear Tape File System)

# Why is End-to-End Data Protection Necessary?

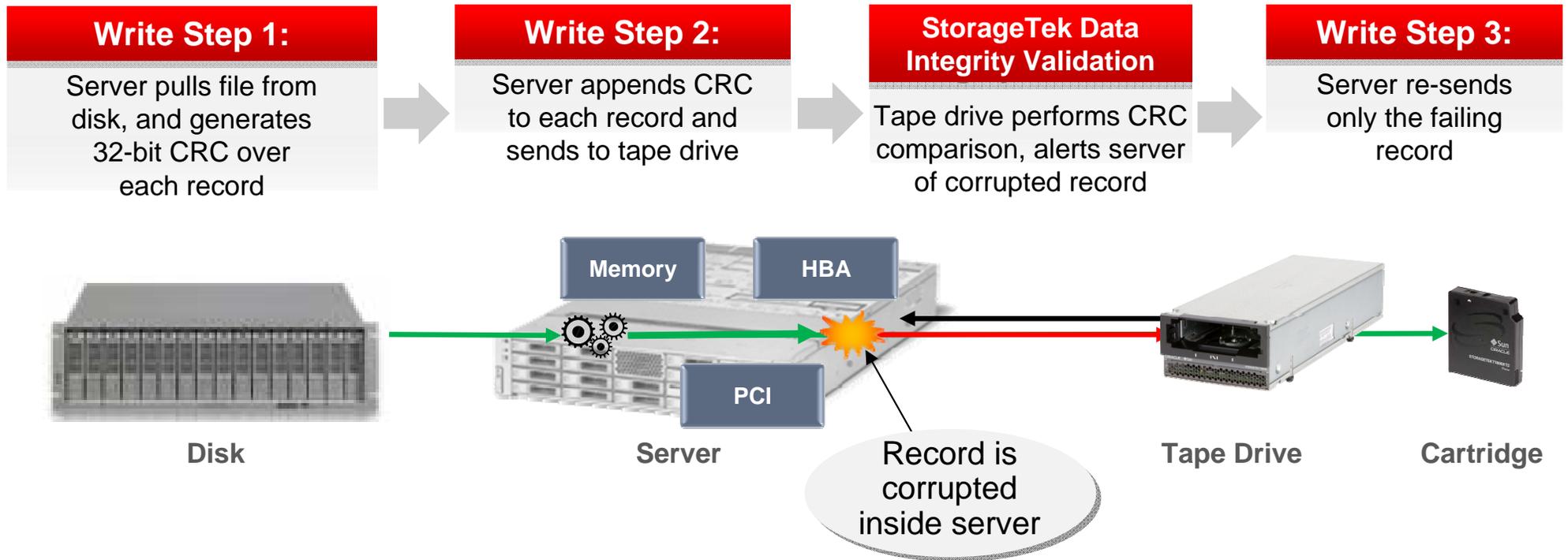
Corrupted Data From the Server Can Be Written to Tape





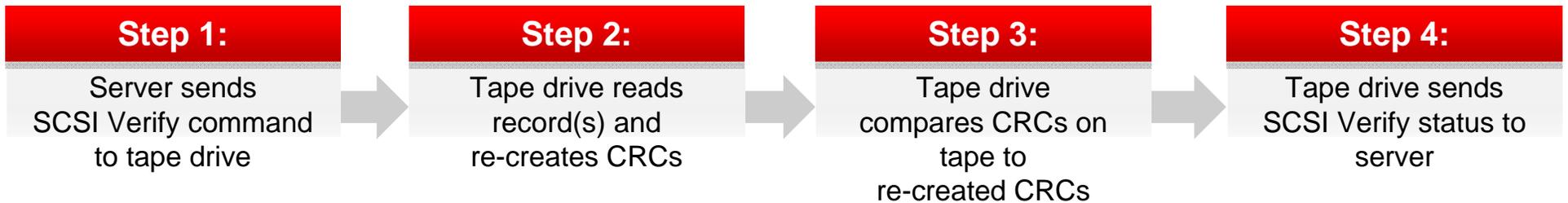
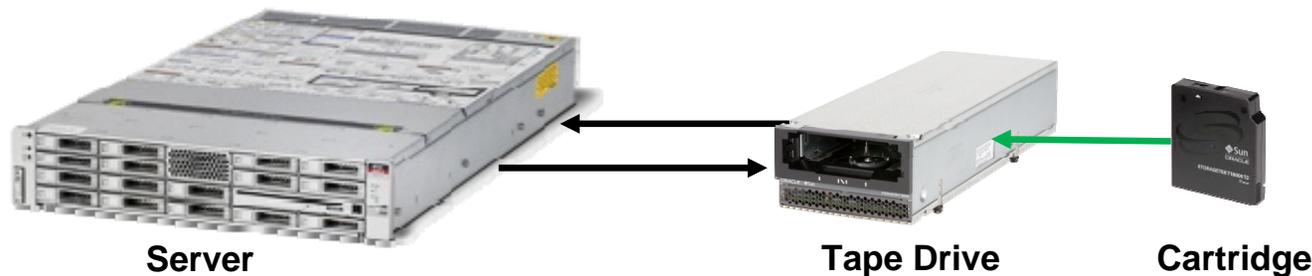
# Data Protection with DIV

Discover Corrupted Records Before They Are Written to Tape



# Fast Verification with SCSI Verify and DIV

SCSI Verify Checks Cartridge CRCs 2.5x Faster



MAXIMUM Time Required:

**9 seconds**

(4GB file, 2:1 compression)

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# Hardware and Software

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# Engineered to Work Together

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