

# Oracle StorageTek SL8500 Partitioning to Meet User Needs

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**J. Giovanetto**  
Incorporated

Jamie Giovanetto  
Founder, President and Principal Consultant  
J. Giovanetto Incorporated

# About The Speaker...

- **Independent Consultant**
  - **Company formed January 2000**
- **Oracle StorageTek advocate**
- **~47 years in Information Technology**
  - **First IT position was as a programmer June 1968**
  - **First involvement with tape was in July 1968...DR test**



# About The Speaker...

- **~37 years supporting the Oracle StorageTek Mainframe Tape Solutions**
  - **Field Technical Specialist**
    - U.S. and Internationally
  - **International Technical Support Representative on large libraries**
  - **Software Support Representative on hardware enablement software**
  - **Product Manager for Library Content Manager (LCM) product.**



# Agenda

- **The Oracle StorageTek SL8500**

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- The Oracle StorageTek SL8500
- **Why Partition an SL8500?**

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- The Oracle StorageTek SL8500
- Why Partition an SL8500?
- **Hardware Partitioning**

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- The Oracle StorageTek SL8500
- Why Partition an SL8500?
- Hardware Partitioning
- **Software Partitioning**

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- The Oracle StorageTek SL8500
- Why Partition an SL8500?
- Hardware Partitioning
- Software Partitioning
- **What works “best”?...**



## ■ Capacities

- Up to 10 libraries in a subsystem
  - Up to 100,880 cartridges
    - Up to 857.5 PB
- Up to 640 tape drives
  - Up to 580.6TB/hr

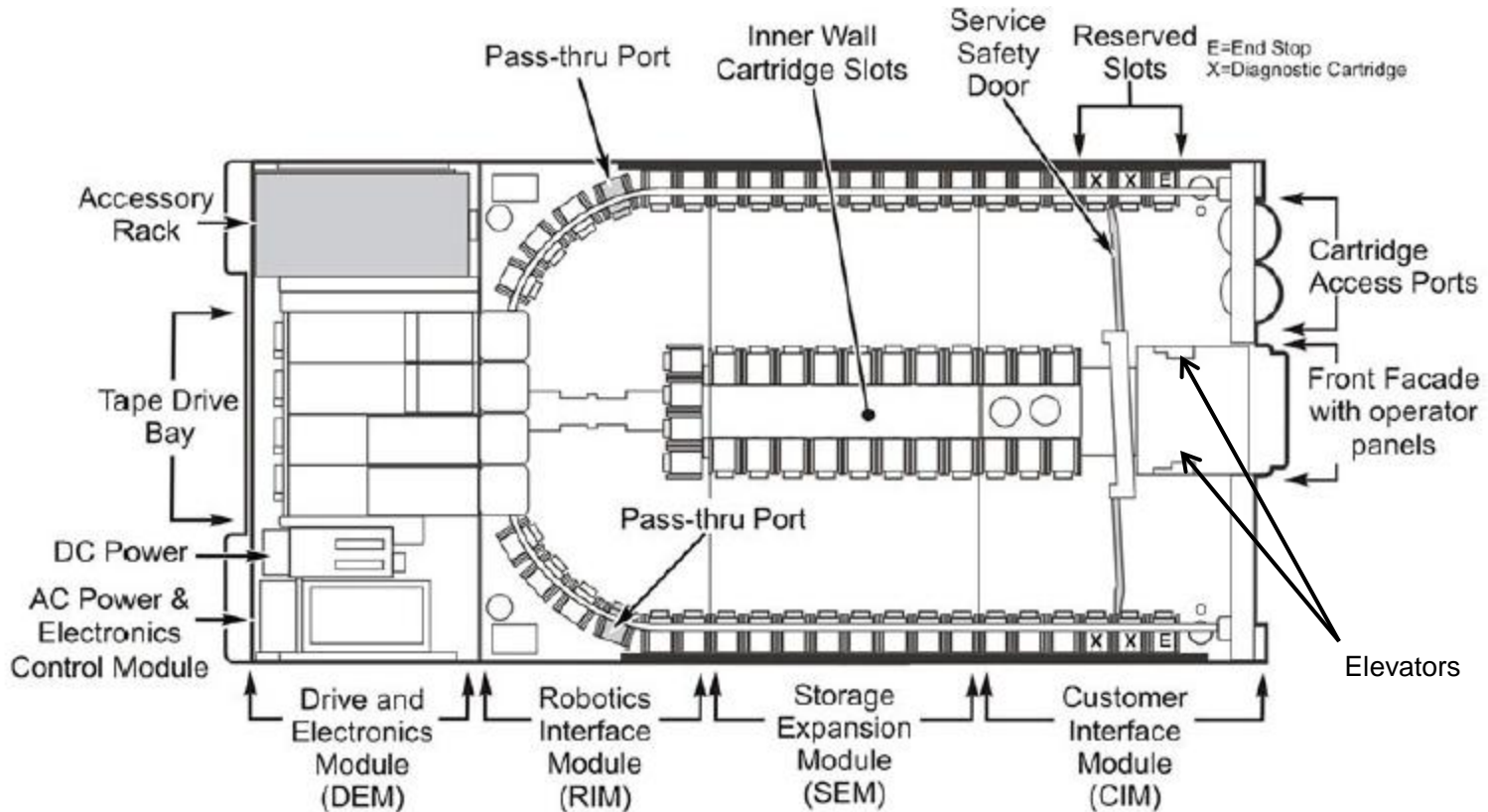


# Oracle StorageTek SL8500

- **Other features**
  - **Up to 80 robots**
  - **Up to 40 Library Storage Modules (LSMs)**
    - Up to 2522 slots per LSM
    - 4 LSMs per SL8500 library
  - **Up to 56 passthru mechanisms**
    - Used for LSM to LSM movement
    - 36 Horizontal (PTP)
    - 20 Vertical (Elevator)
  - **Up to 20 Cartridge Access Ports (CAPs)**

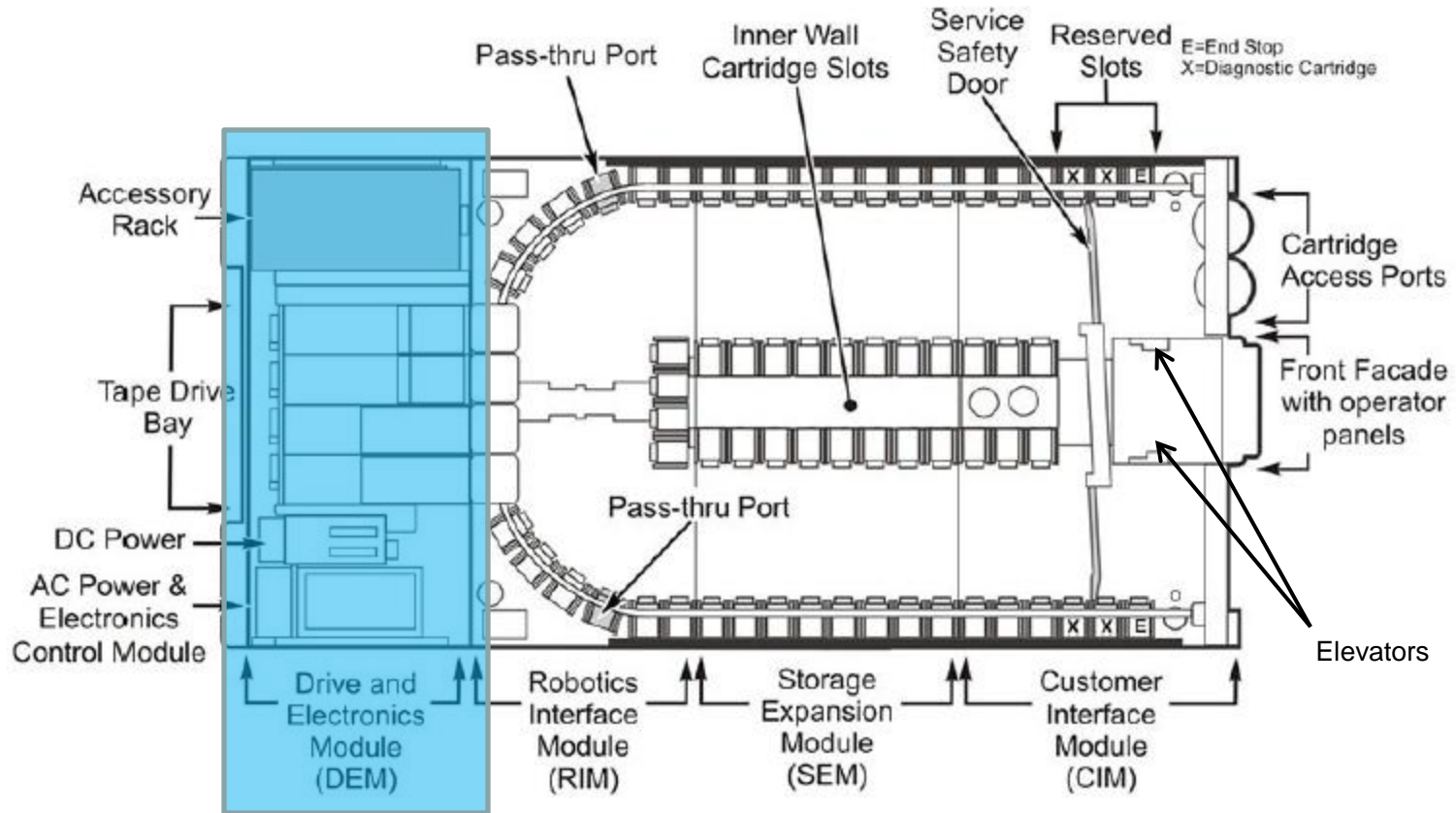


# Oracle StorageTek SL8500

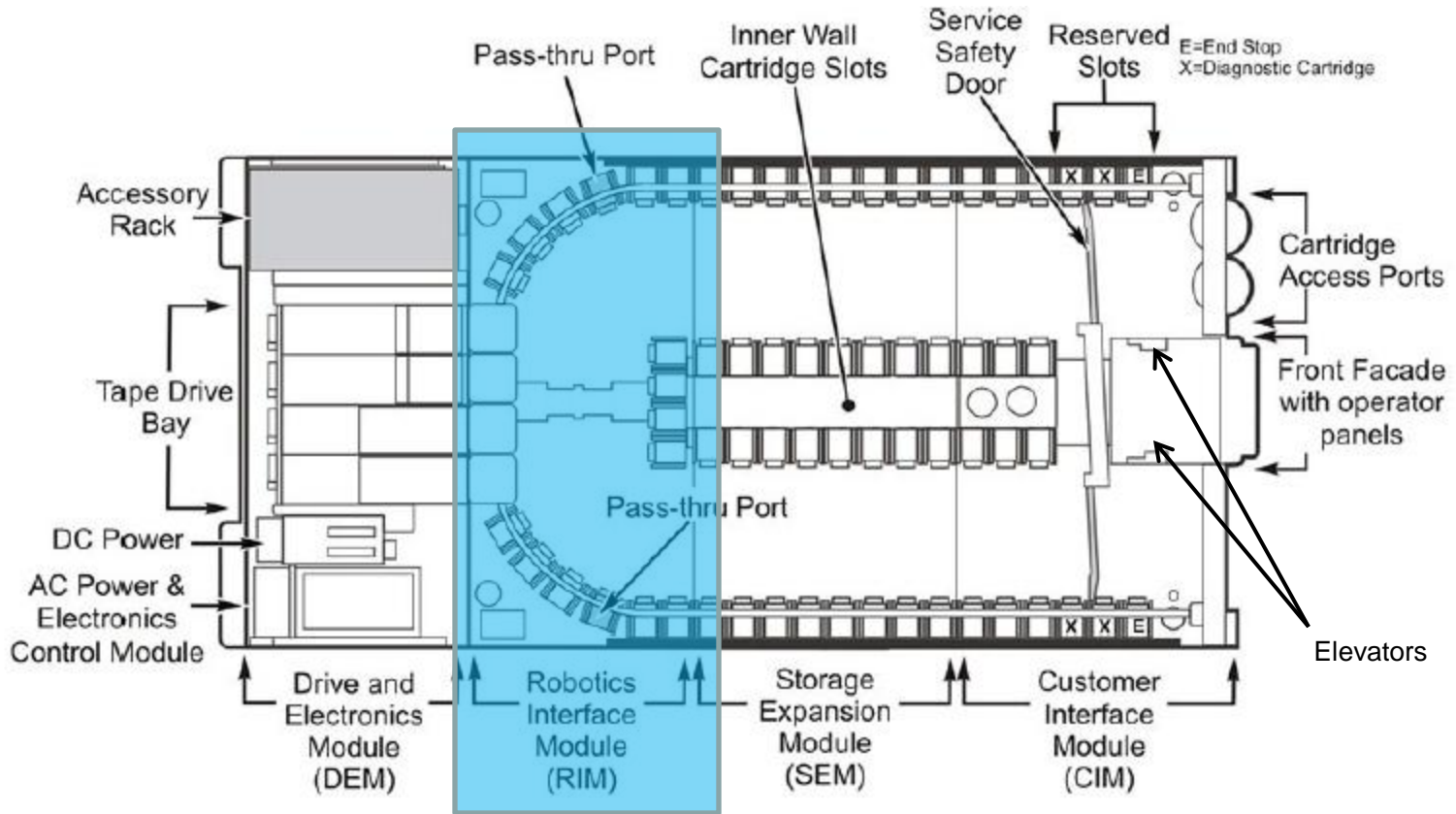


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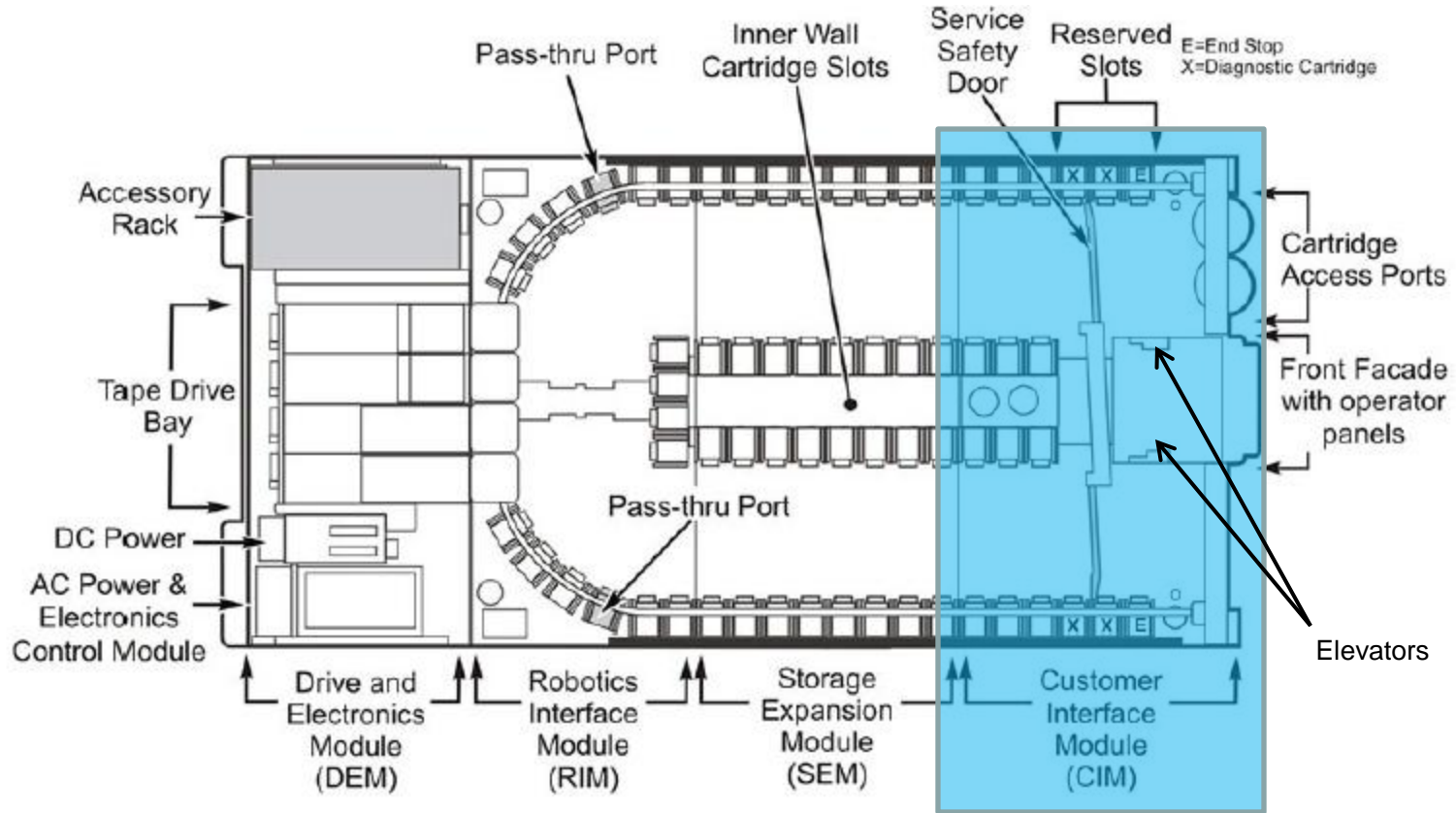
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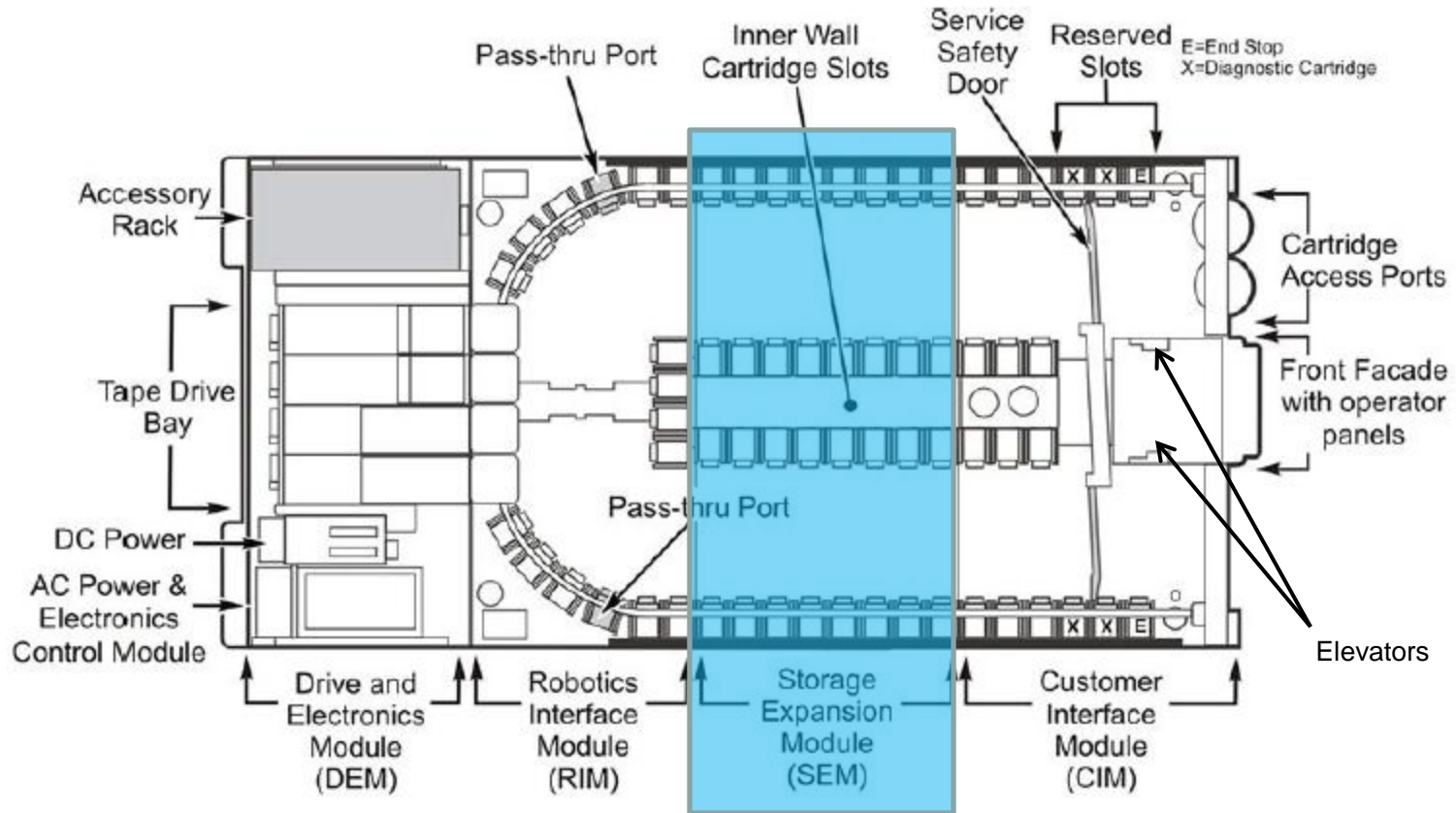
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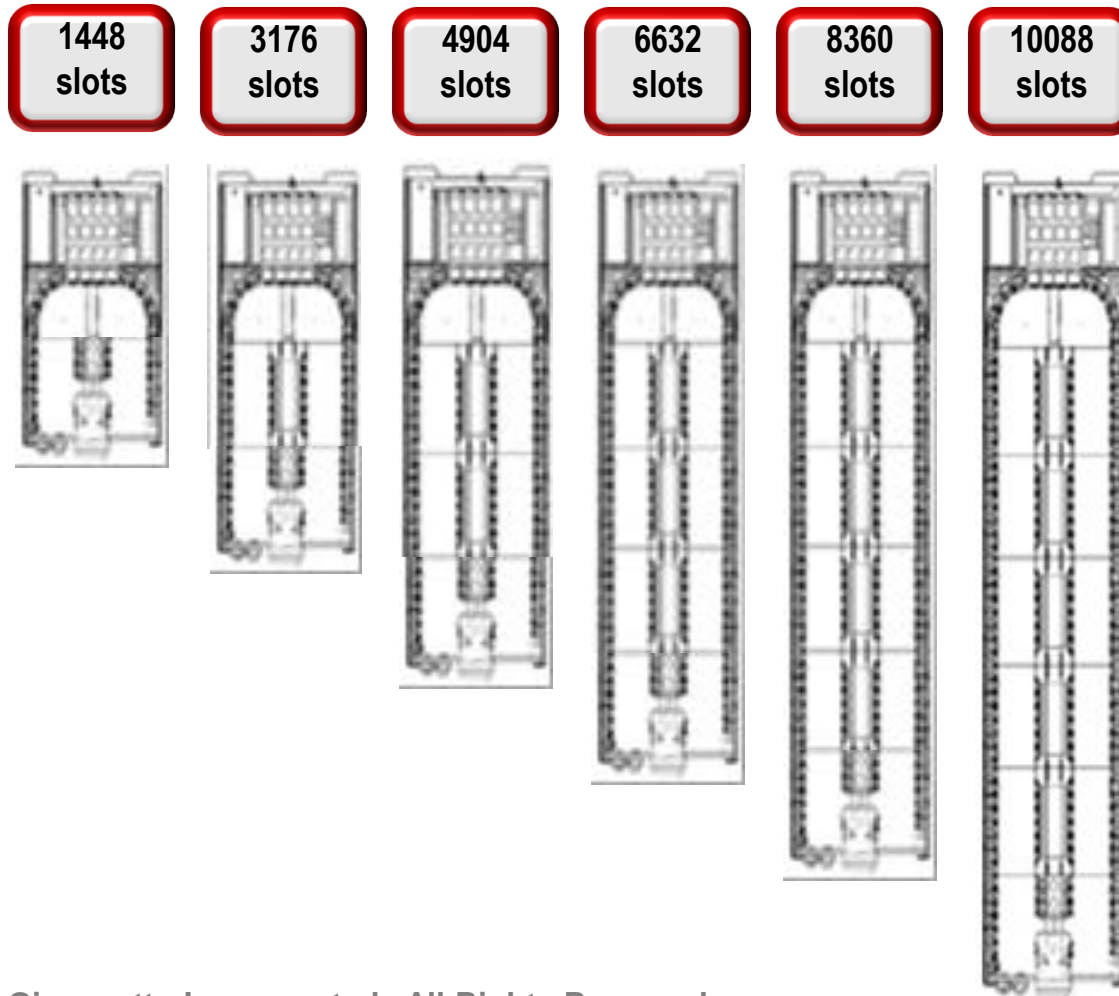
# Oracle StorageTek SL8500



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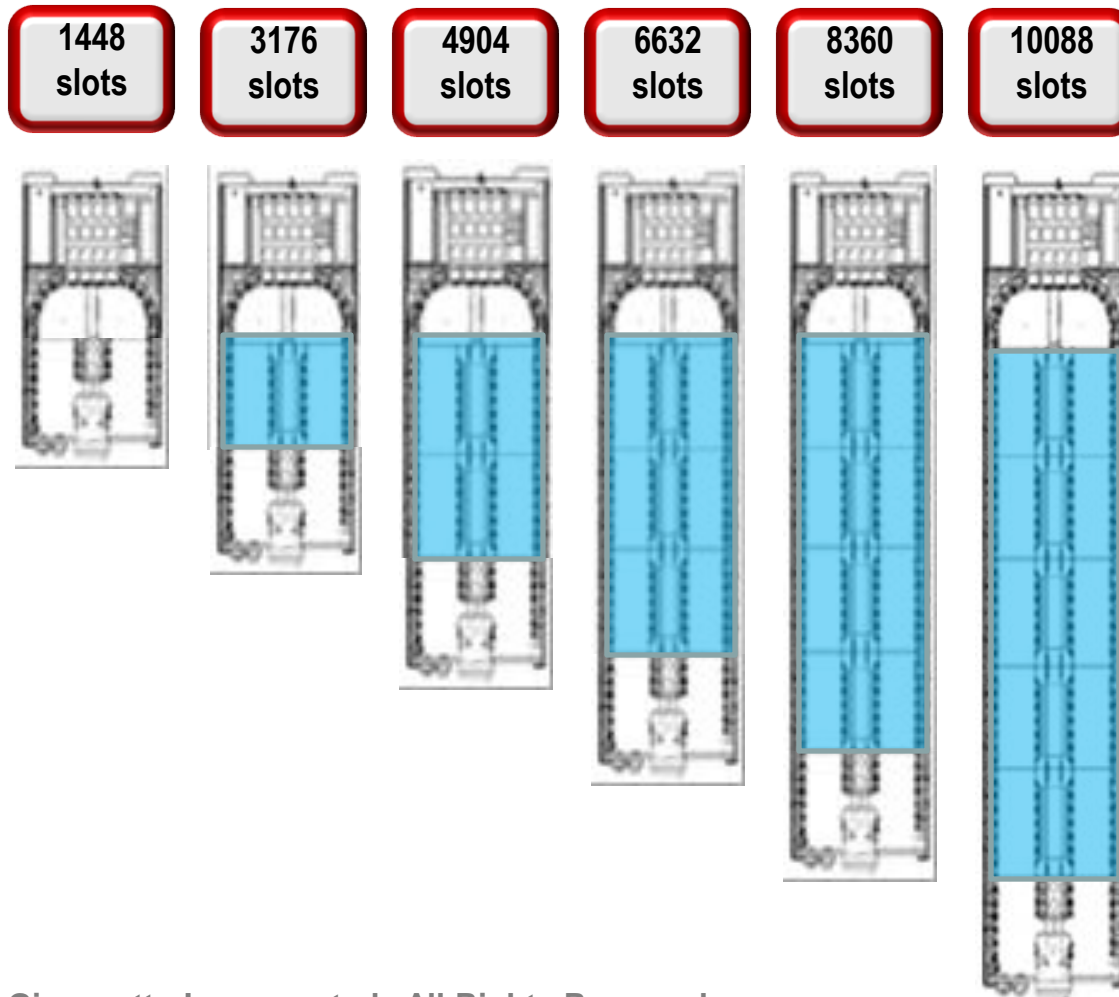
# Oracle StorageTek SL8500





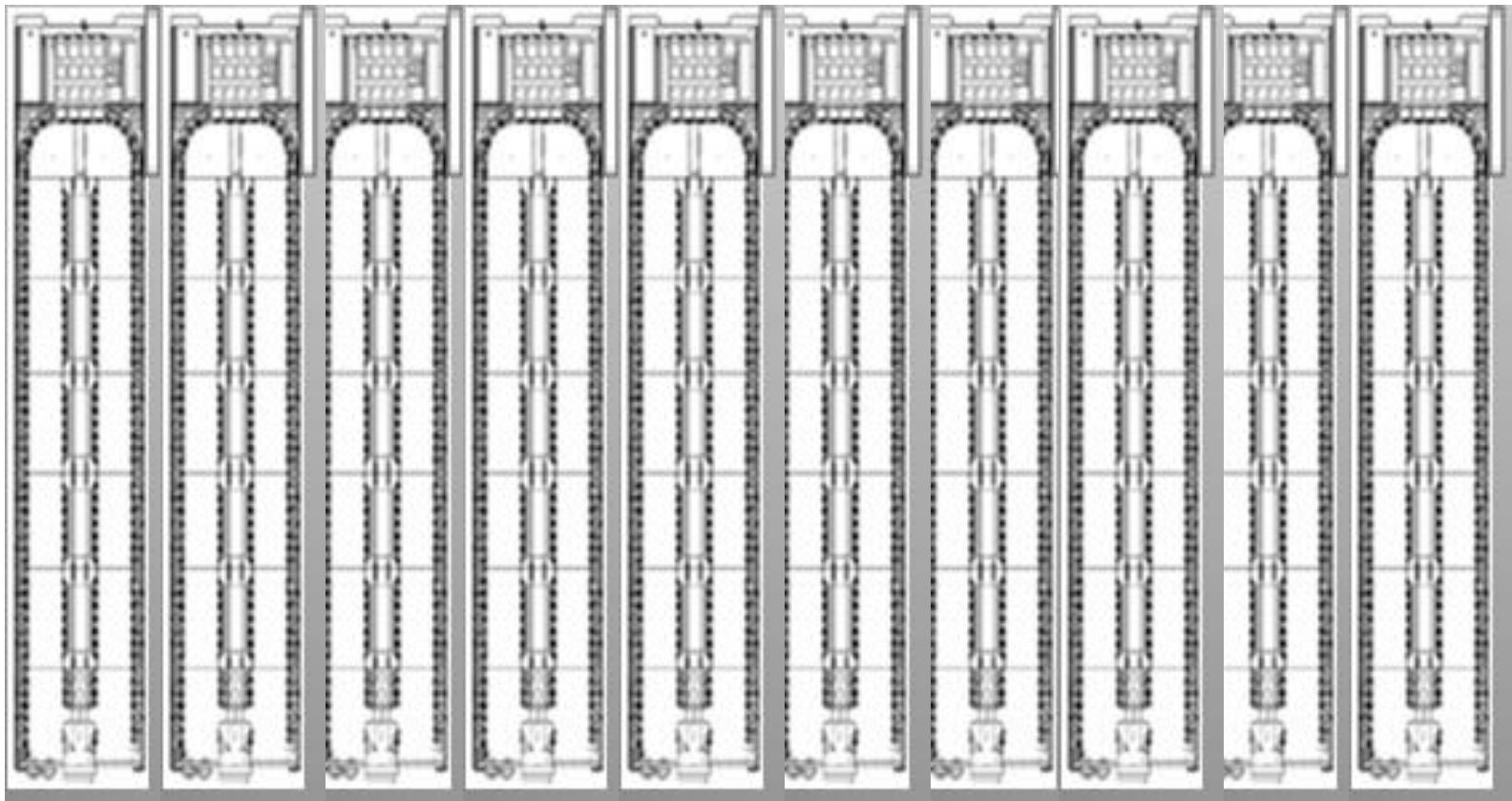
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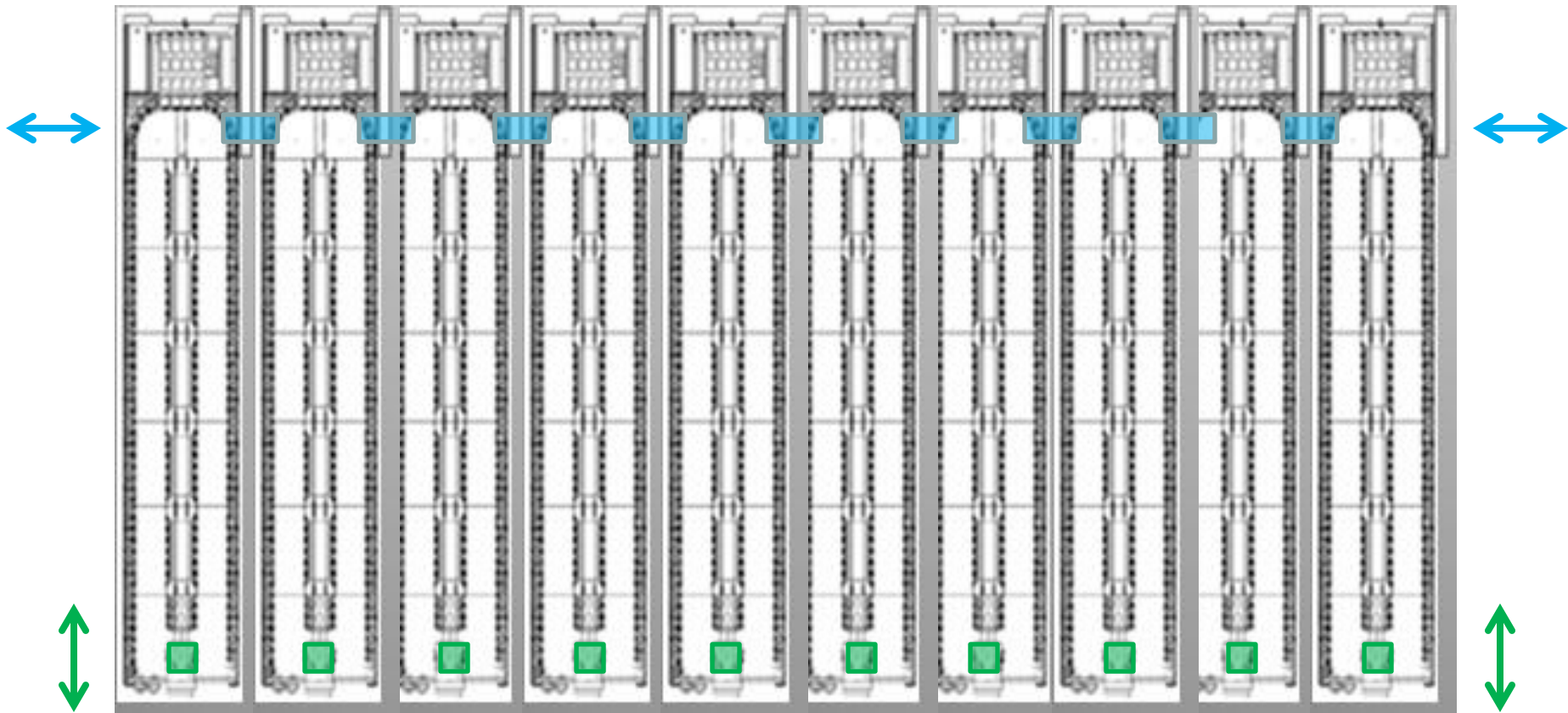
# Oracle StorageTek SL8500

100880 slots

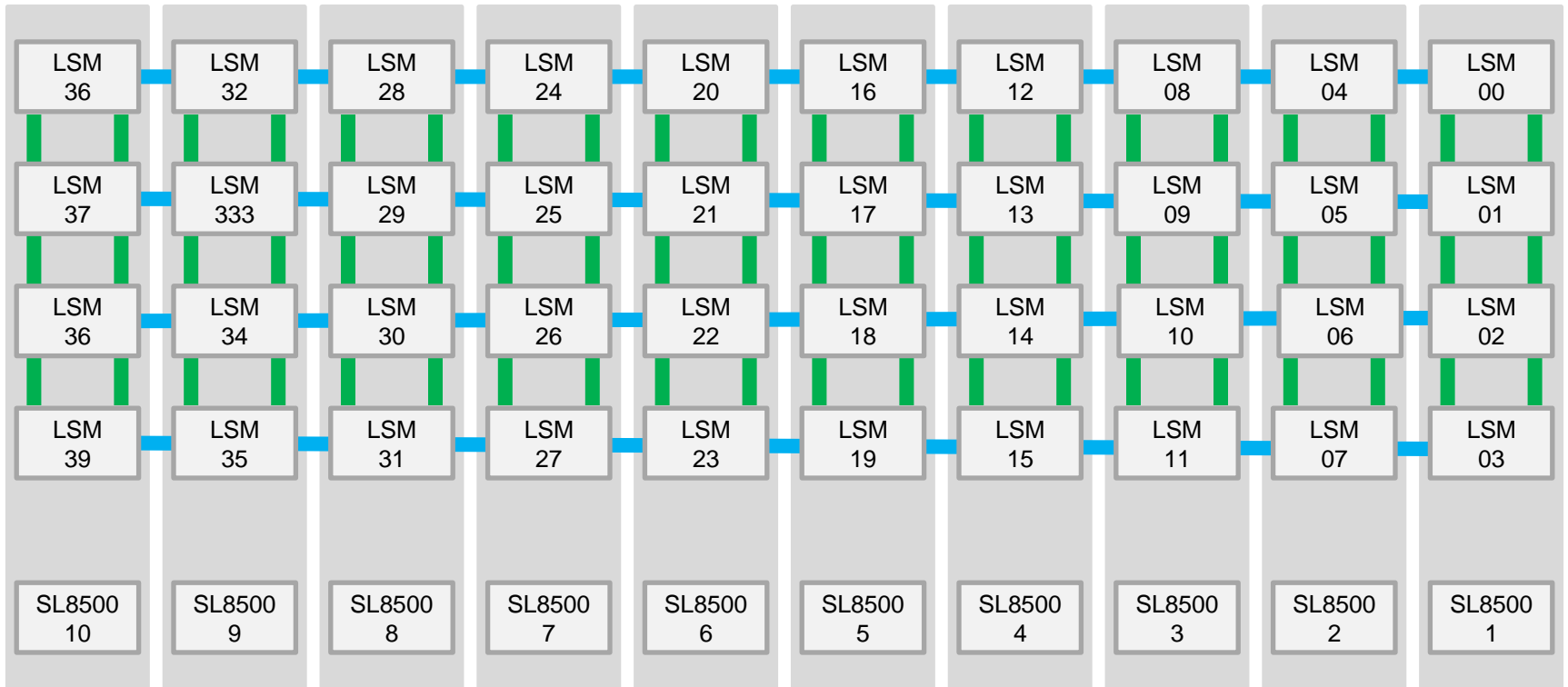


# Oracle StorageTek SL8500

100880 slots



# Oracle StorageTek SL8500



## ■ General Capabilities

- Drives may be a variety of Oracle StorageTek or selected LTO drives
- Mount a tape from any slot to any compatible drive
- Move a tape from any slot to any CAP



# Why Partition an SL8500?



- **Improved library performance**

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- **Reduced capital expense**
  - **Allows multiple operating environments to share an SL8500 subsystem**

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- **Reduced operating expense**



# Why Partition an SL8500?

- Improved library performance
- Reduced capital expense
  - Allows multiple operating environments to share an SL8500 subsystem
- Reduced operating expense
- **Isolates workloads...**

- **Limited dynamic “partitioning”**

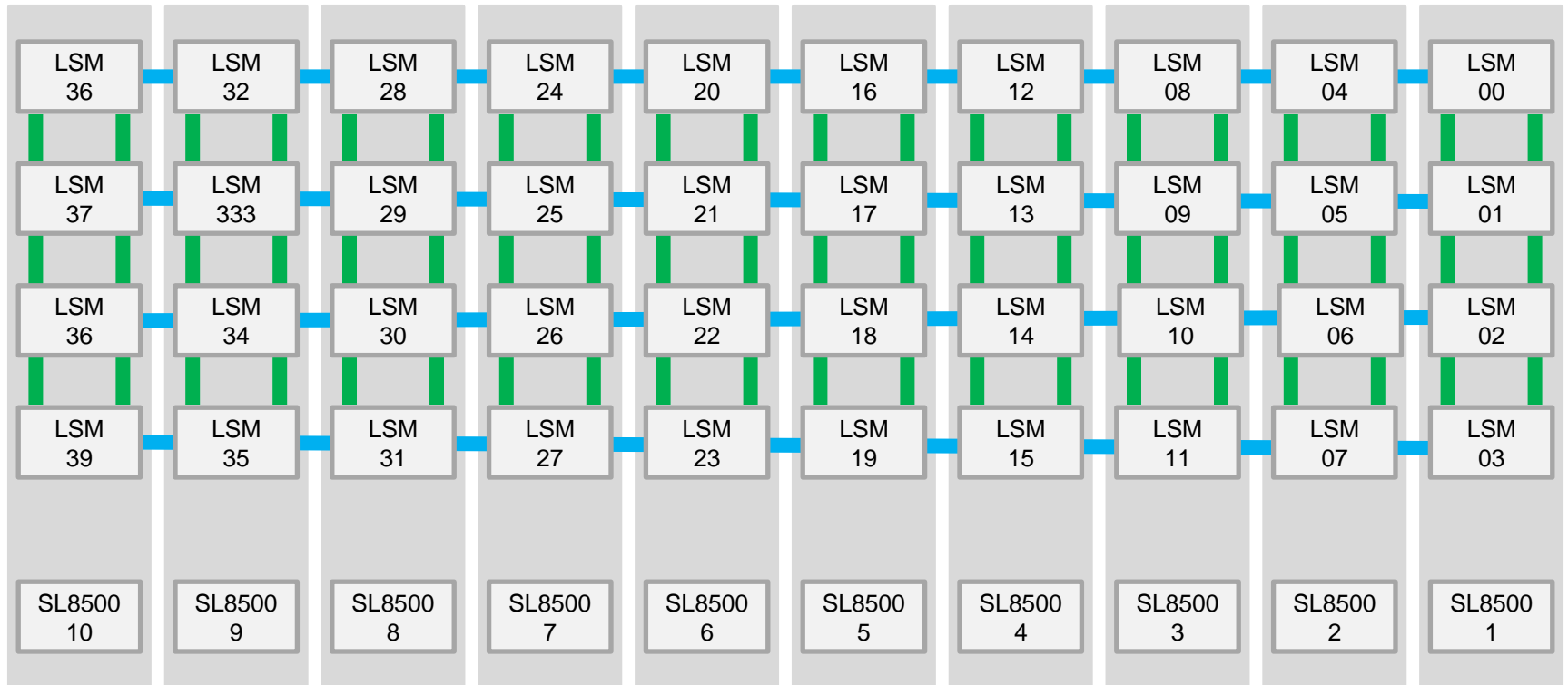
# Hardware Partitioning

- Limited dynamic “partitioning”
- **Assignment of cells related to Licensed Capacity**

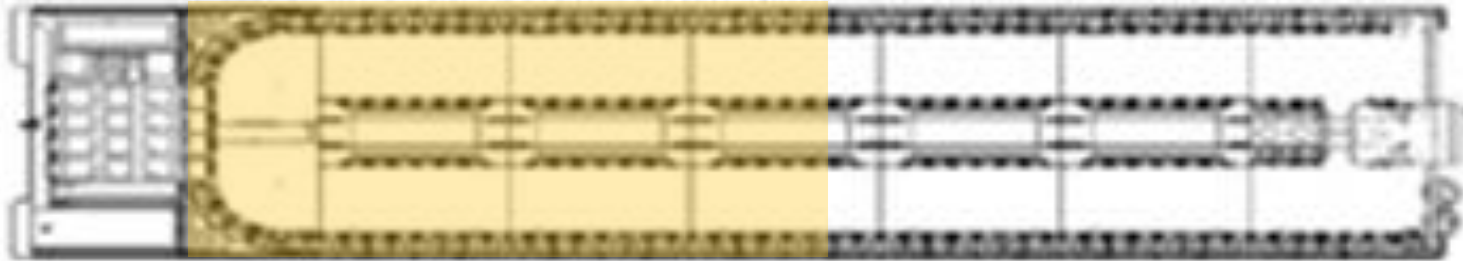
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- **Assignment of subsystem elements**

- Limited dynamic “partitioning”
- Assignment of cells related to Licensed Capacity
- Assignment of subsystem elements
- **Can be combined...**

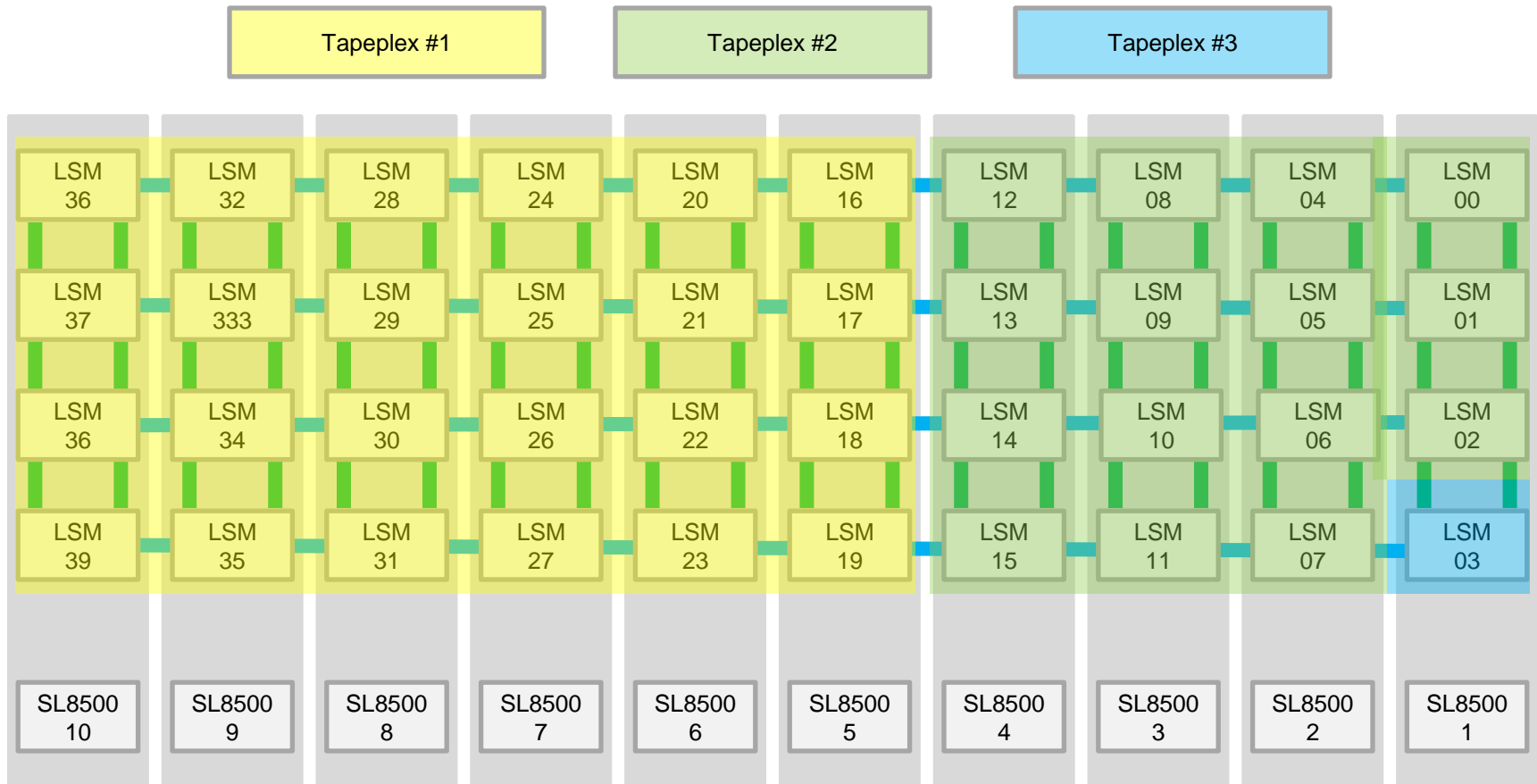
# Limited dynamic “partitioning”



# Assignment of cells related to Licensed Capacity

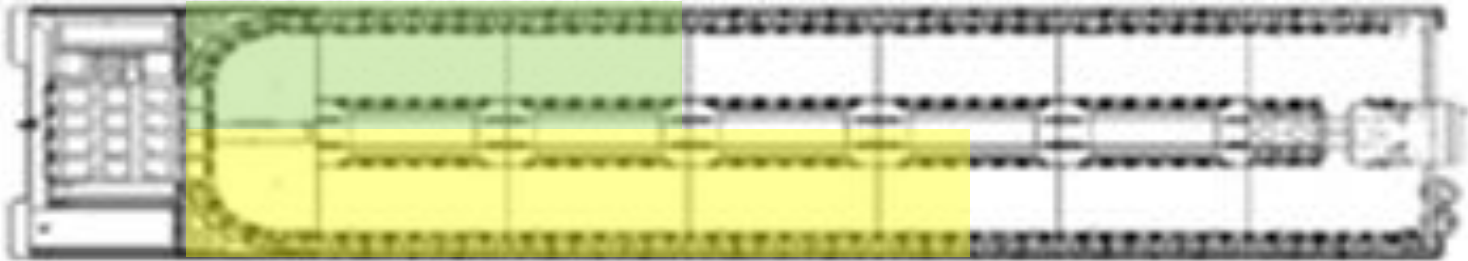


# Assignment of Subsystem Elements





# Can be combined



Tapeplex #1

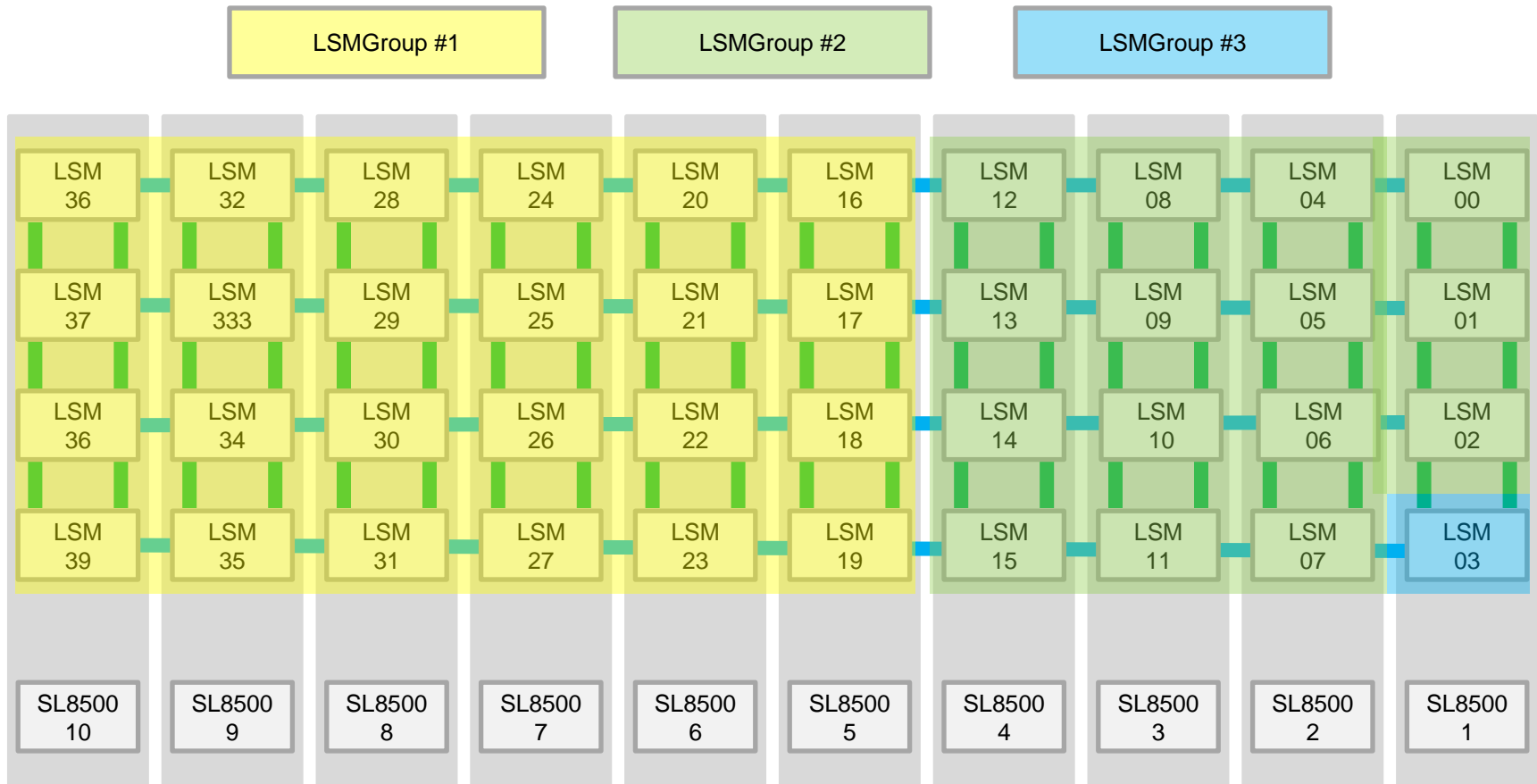
Tapeplex #2

- **Only available with Library Content Manager**

# Software Partitioning

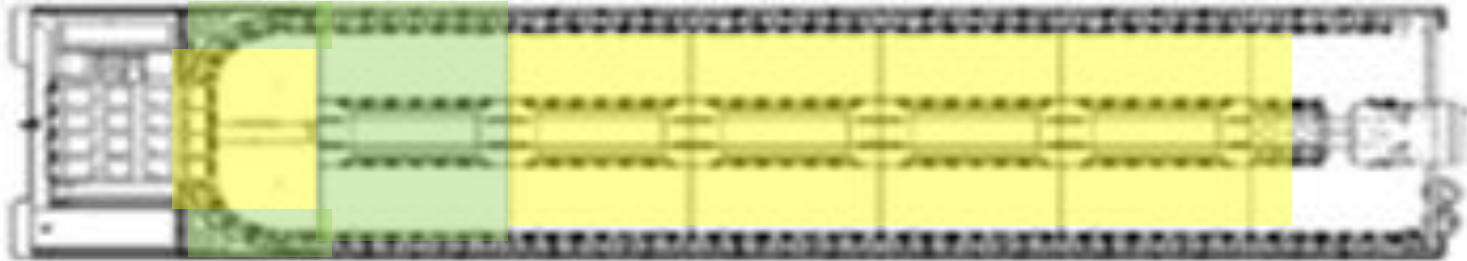
- Only available with Library Content Manager
- **By LSM or LSM Groups**

# By LSM or LSM Groups



- Only available with Library Content Manager
- By LSM or LSM Groups
- **Performance Zone**

# Performance Zone

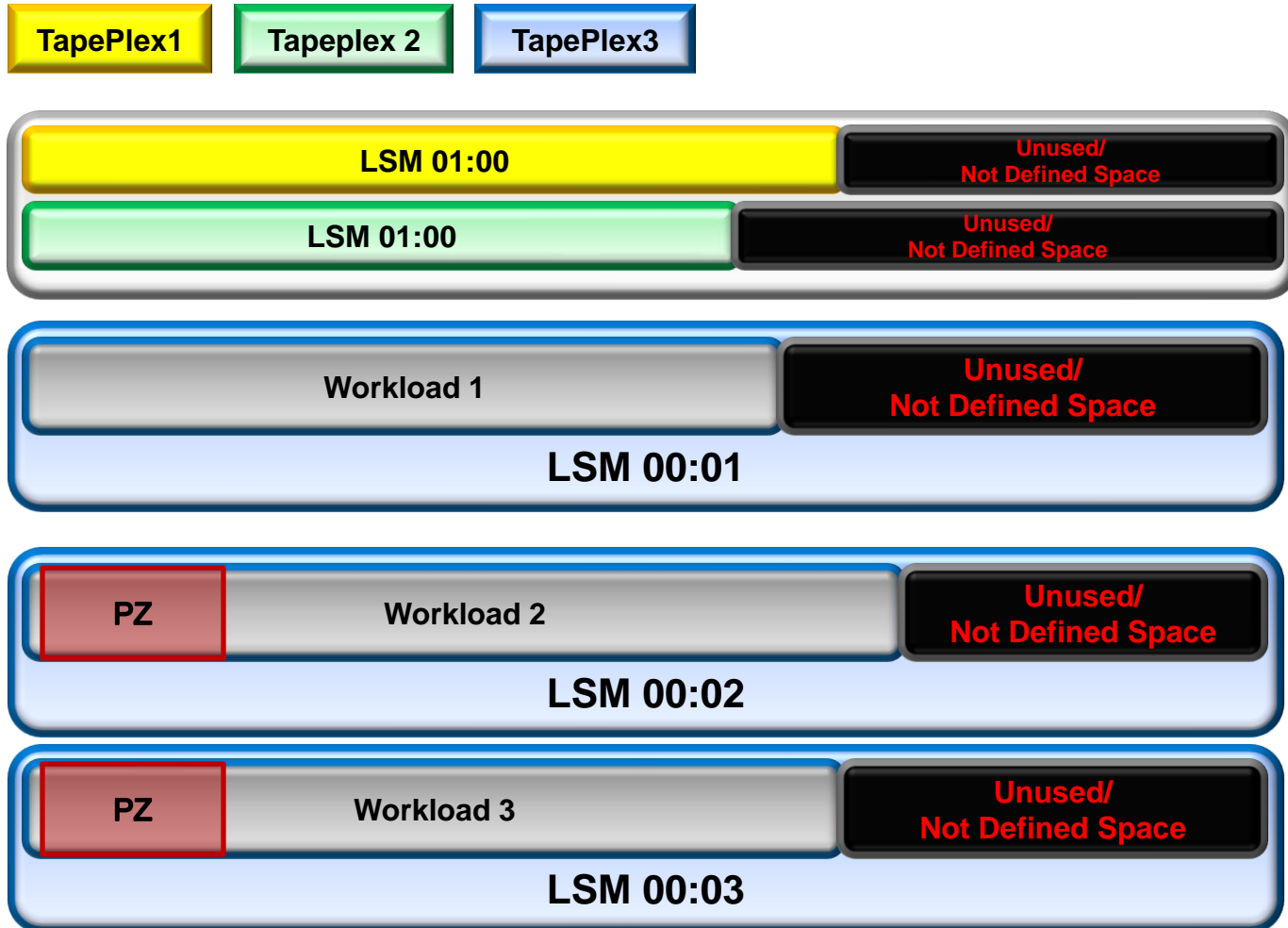


PZ Area

Non-PZ Area

- Only available with Library Content Manager
- By LSM or LSM Groups
- Performance Zone
- **Can be combined with hardware partitioning...**

# Combined with hardware partitioning





# What works “best”?

- It depends...



Please help SHARE and me by completing the session evaluation for this session.

**This Session # 16690**

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