

Panel Discussion – The Benefits of Going Tapeless

Session #10931

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Discussion Topics

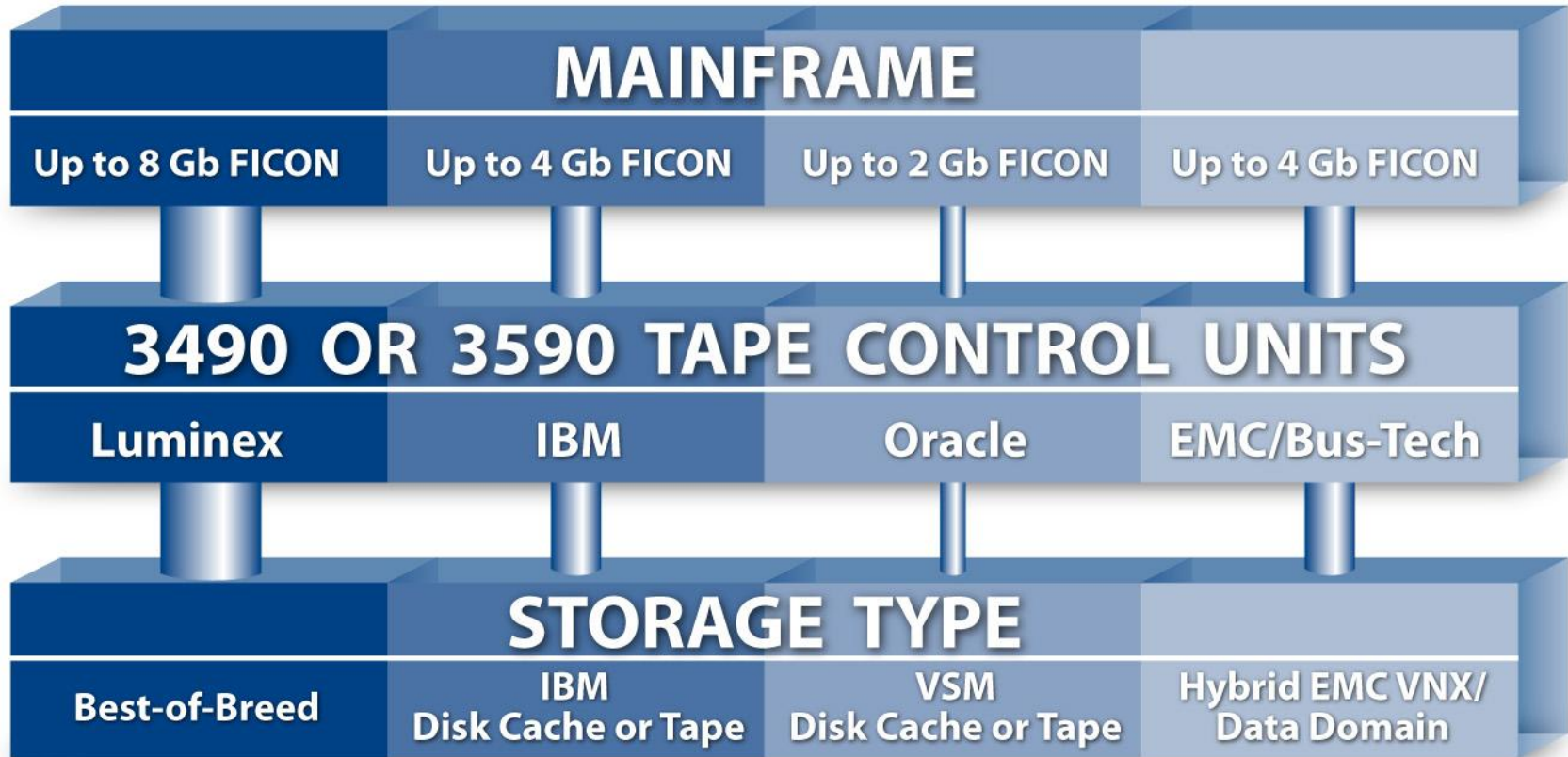
- Most Mainframe Data Centers Have Similar Challenges
- Overview of Mainframe Virtual Tape Control Units
- Introduction of the Customer Panel
- Frequently Asked Questions
- Additional Questions from the Audience

Most Mainframes Data Centers Have Similar Challenges and Goals...



Specific Challenges and/or Goals :	Agribank	LexisNexis	Texas DPS
Must replace aging mainframe tape products or products facing End of Support	✓		✓
Reduce tape drive or library maintenance cost	✓	✓	✓
Reduce tape media, shipping & storage cost	✓	✓	✓
Reduce or eliminate physical tape	✓	✓	✓
Need long term access to existing tape volsers	✓	✓	✓
Improve & simplify all tape operations (Batch, HSM/ML2, Archiving, Backup & Rec.)	✓	✓	✓
Physical tape limited the ability to improve the disaster recovery plan RPO & RTO	✓	✓	✓
Improve remote disaster recovery plan (RPO & RTO)	✓	✓	✓
Reduce network bandwidth requirements to replicate virtual tape data to the DR site	✓	✓	✓
Prefer a common virtual tape storage solution for mainframe & open systems DR	✓		✓

Mainframe Virtual Tape (MVT) Control Units

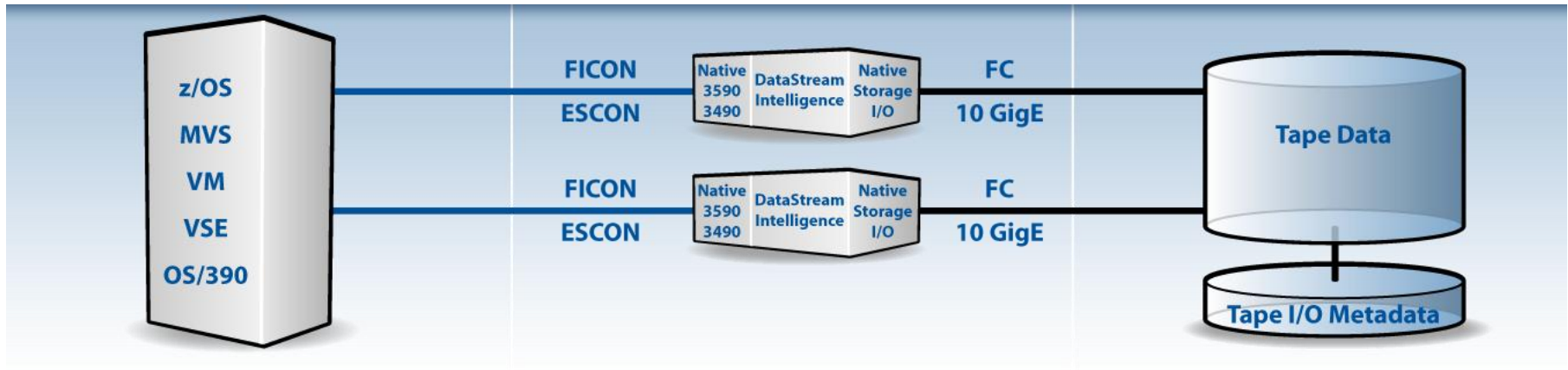


What To Look For In A Tapeless Solution

- Subject Matter Experts (SME)
 - SMEs for disk-based virtual tape
- Application Transparent Solution
 - No changes to tape applications required
- Future Proof – Up to 8 Gb FICON support at wire speed
- Scalable in throughput and capacity
- Tape Migration Tools & Services to ensure a smooth transition
- Writes data exactly as the mainframe wrote it
- Worldwide Customer References Available

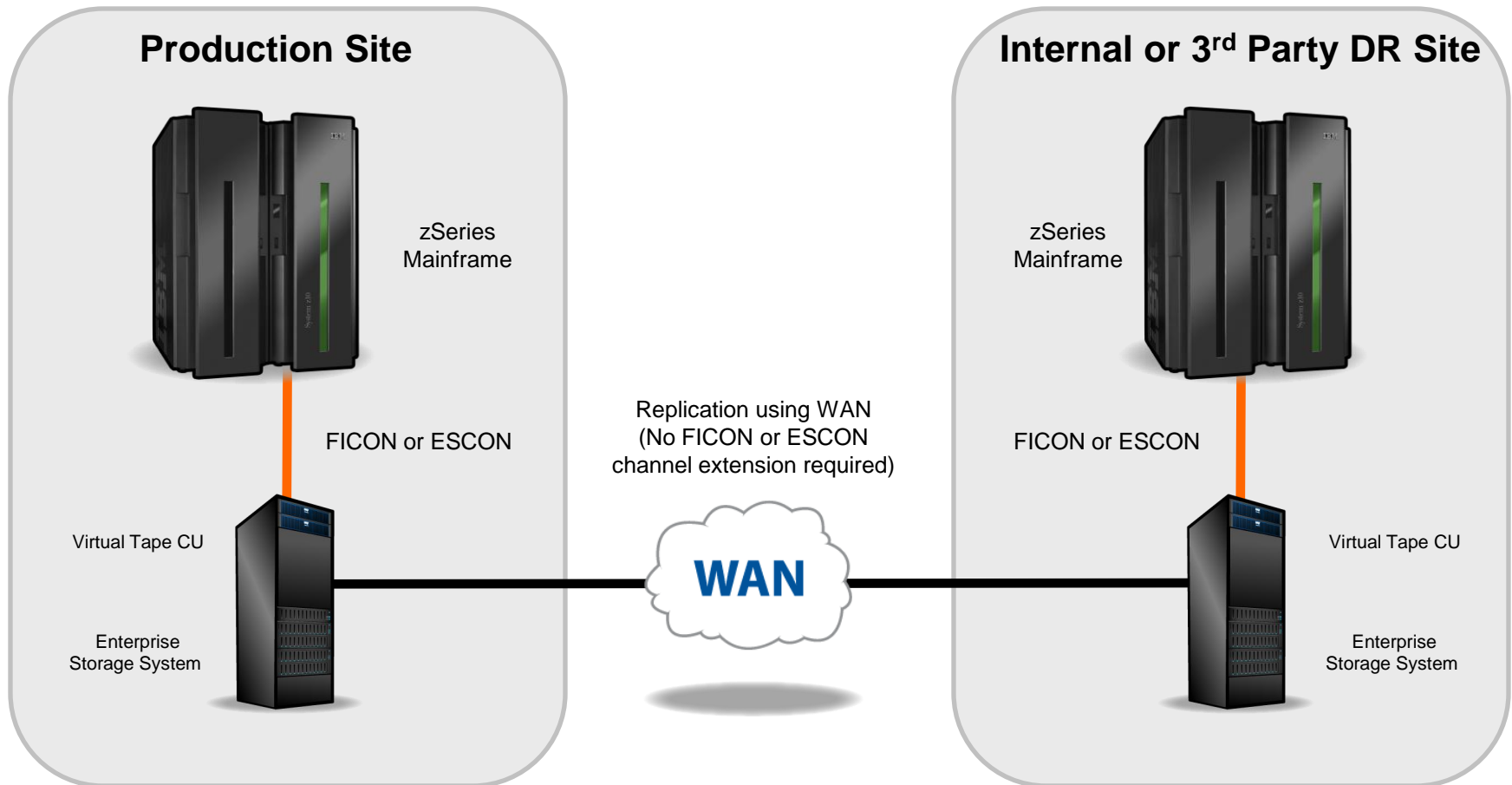


How Luminex MVT Solutions Work...

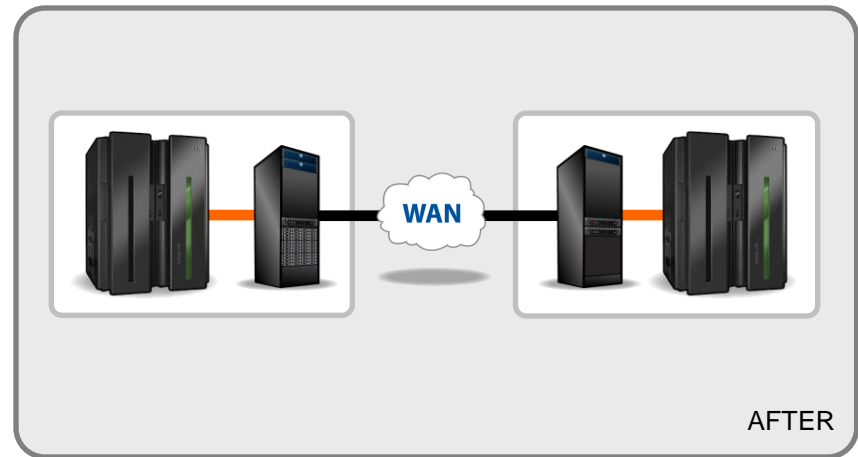
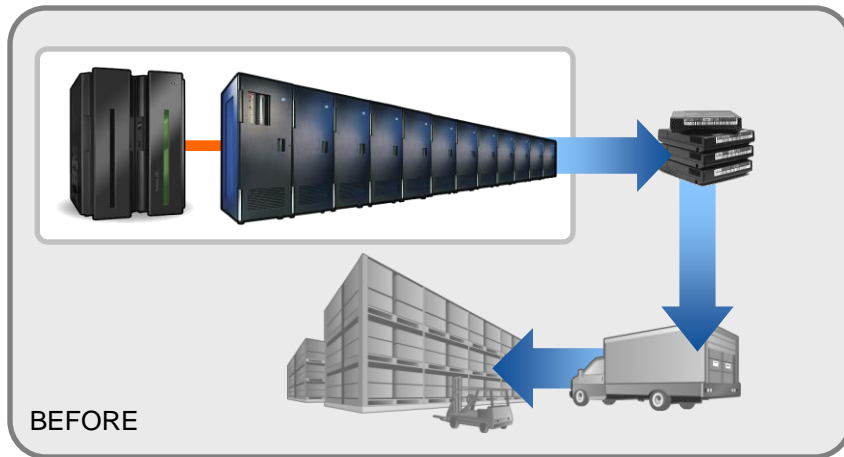


Mainframe	Luminex Channel Gateways	Enterprise Storage System
<ul style="list-style-type: none"> ▪ Application transparent – non-intrusive ▪ No MIPS required ▪ z/OS, MVS, VM, VSE and OS390 supported ▪ Works well with all major tape management systems ▪ SMS, MTL or Esoterics can be used 	<ul style="list-style-type: none"> ▪ Emulates 3490 or 3590 mainframe tape drives ▪ DataStream Intelligence optimizes deduplication ▪ Compression & replication options ▪ Active – Active with NSPOF ▪ Multipathing for HA configurations ▪ Writes blocks of data exactly as the mainframe wrote it 	<ul style="list-style-type: none"> ▪ NFS or FC attached ▪ Use new or existing storage systems ▪ Mainframe Tape Volumes stored as standard files ▪ Deduplication options ▪ Replication for backup and Disaster Recovery ▪ RAID 6 data protection

Typical Tapeless Production and DR Configuration



Before & After...



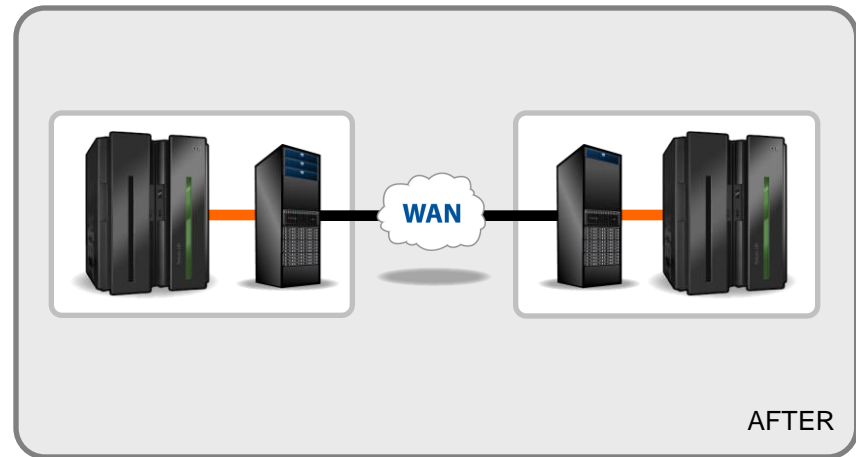
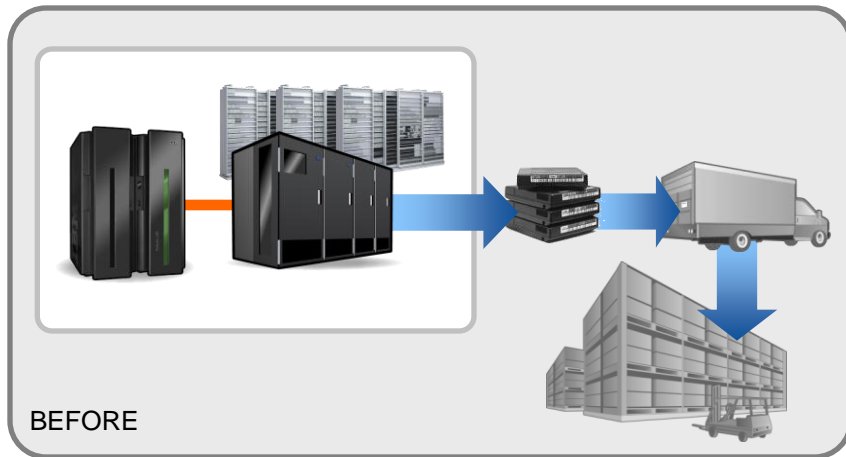
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Before & After...

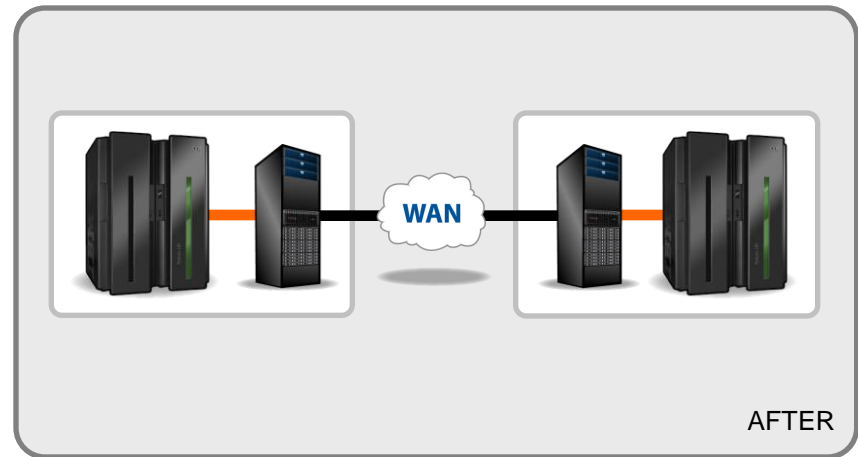
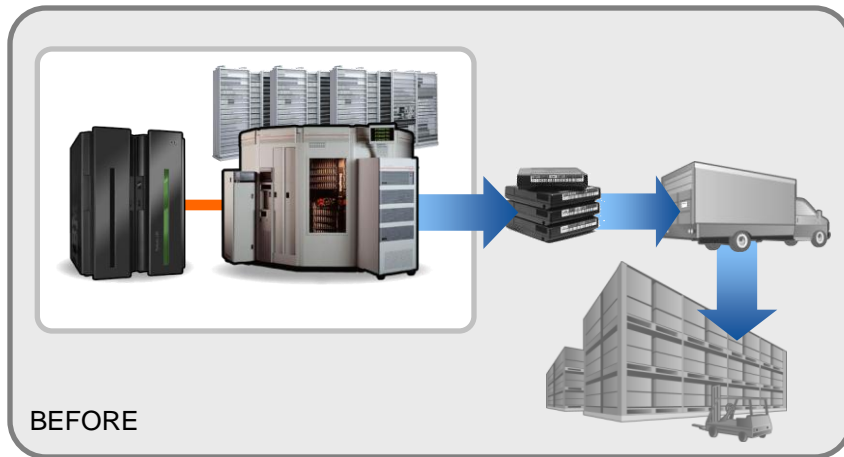


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Before & After...



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Q&A Topics

PHYSICAL TAPE

**MAINFRAME
APPLICATIONS**

**REMOTE DISASTER
RECOVERY**

**REMOTE
REPLICATION**

Q&A: Physical Tape

- Why did you replace your previous tape drive, library or virtual tape products?
- Have you reduced or eliminated physical tapes (If so, please quantify the reduction in tape use)?
- How do you share tape cartridges between partners, vendors and internal remote sites?
- How do you meet security requirements for tape?
- How did you migrate the old physical tapes to the new solution? ...

Q&A: Mainframe Applications

- Which tape backup applications and tape management systems are you using?
- Did you have to make any changes to your tape applications?
- How does the solution integrate or sync up with your tape management system for scratch management?
- Which of the following is the solution used for:
 - Production tape and batch processing
 - HSM/ML2/Archiving
 - Backup & Disaster Recovery ...

Q&A: Remote Replication

- What type of WAN connection are you using to replicate your tape data to the DR site?
- Do you replicate all of your mainframe tape data, including development, HSM/ML2, batch & backups?
- How long does it take to complete the replication to DR?...

Q&A: Remote Disaster Recovery

- Do you use an internal DR site, Sungard, IBM BCRS or other provider for DR?
- Do you own the solution at the DR site or does the third party provider own/provide it?
- Please describe your DR process or DR test process? ...

Thank You

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