Tape is dead! REALLY?

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

About The Speaker…

J. Giovanetto
Incorporated

- 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…

J. Giovanetto Incorporated

- ~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

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- **Who says “Tape is dead!”**

Agenda

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- Who says “Tape is dead!”
- **A brief history of tape storage**

Agenda

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- Who says “Tape is dead!”
- A brief history of tape storage
- **Current status**

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- Who says “Tape is dead!”
- A brief history of tape storage
- Current status
- **Futures**

Agenda

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- Who says “Tape is dead!”
- A brief history of tape storage
- Current status
- Futures
- **When will tape “die”?...**

Who says “Tape is dead”

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- **Those that believe another technology will replace tape in the short term**

Who says “Tape is dead”

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- Those that believe another technology will replace tape in the short term
- **Those that do not have tape products**

Who says “Tape is dead”

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- Those that believe another technology will replace tape in the short term
- Those that do not have tape products
- **Those that do not want to handle physical tape**

Who says “Tape is dead”

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- Those that believe another technology will replace tape in the short term
- Those that do not have tape products
- Those that do not want to handle physical tape
- **Those that think that virtual tape is not “really” tape…**

A brief history of tape

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- **1951 – First tape drive for computers**

A brief history of tape

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- **1952 - First tape drives to use metal coating on Mylar-type base**

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- **1995 – 36 trk cartridges**
  - **Helical scan**

A brief history of tape

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- 1951 – First tape drive for computers
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- 1964 – 9 trk tapes introduced with System 360
- 1984 – 16 trk cartridges
- 1995 – 36 trk cartridges
  - Helical scan
- **1997 – IBM and StorageTek go to proprietary formats for enterprise class tape…**

A brief history of tape

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- Hypertape
- Mass Storage Subsystem
- DLT
- DAT
- ¼” audio cassettes
- 8 mm cassettes
- 4 mm cassettes
- LTO

A brief history of tape

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- Mass Storage Subsystem
- STK 4400
- IBM 3495
- IBM 3494
- SL8500
- SL3000
- IBM TS3500
- A number of other manufactures

Current status

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- **High Capacities**

Current status

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- High Capacities
- **Long data retentions**

Current status

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- High Capacities
- Long data retentions
- **Reliability higher than today's disk**

Current status

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- High Capacities
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- Reliability higher than today's disk
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- **LTFS**

Current status

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- High Capacities
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- Reliability higher than today's disk
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- LTFS
- **Number of virtual tape solutions…**

Futures

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- **Big Data keeps growing**

Futures

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- Big Data keeps growing
- **Road Map to ever increasing tape technologies**

Futures

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- Big Data keeps growing
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- **BaFe recording media still not fully exploited**

Futures

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- **Number of demos of new tape technologies**

Futures

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- Road Map to ever increasing tape technologies
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- **Virtual tape subsystems continue to evolve**

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- Big Data keeps growing
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- BaFe recording media still not fully exploited
- Number of demos of new tape technologies
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- **Libraries continue to be enhanced**

Futures

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- Big Data keeps growing
- Road Map to ever increasing tape technologies
- BaFe recording media still not fully exploited
- Number of demos of new tape technologies
- Virtual tape subsystems continue to evolve
- Libraries continue to be enhanced
- **Physical tape continues to provide value…**

When will tape “die”?

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- **Oracle and IBM will tell us when that time has come**

When will tape “die”?

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- Oracle and IBM will tell us when that time has come
- **When it is replaced it will be another form of removable data already proven in the “field”**

When will tape “die”?

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- Oracle and IBM will tell us when that time has come
- When it is replaced it will be another form of removable data already proven in the “field”
- **Tape will be in use for many years after last shipments…**

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Session Evaluation

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This Session # **16709**

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