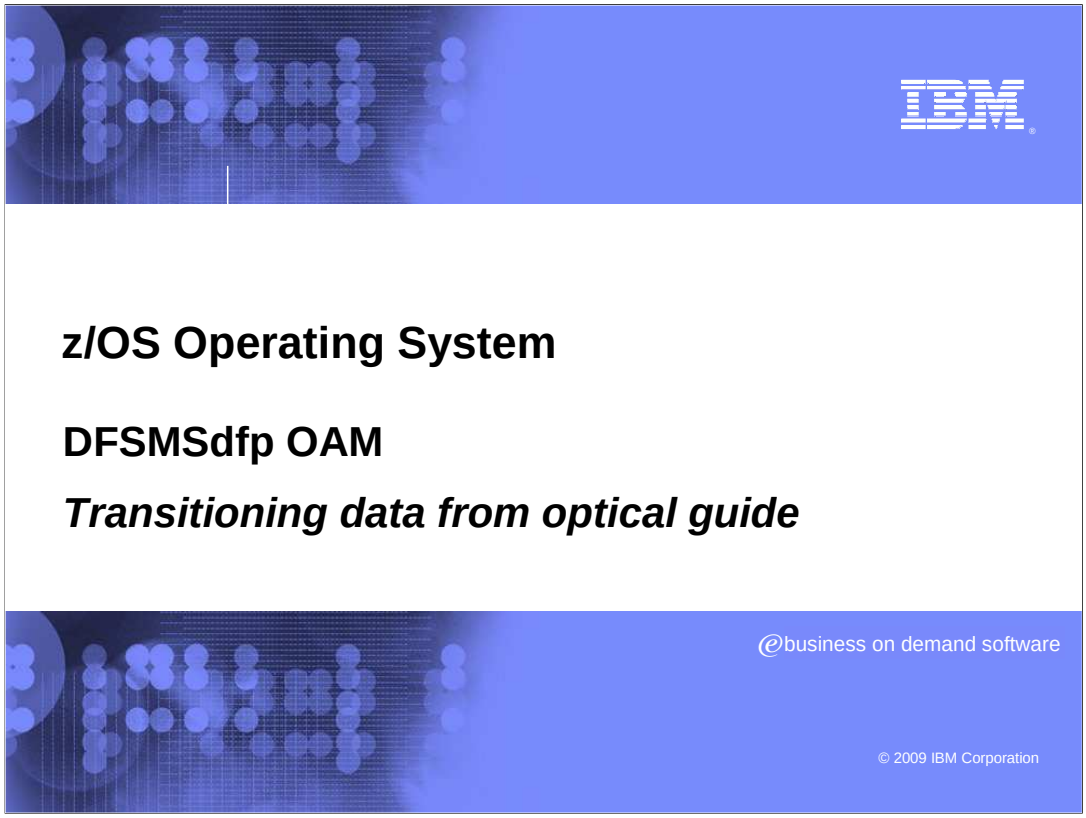

This education topic provides a guide for transitioning both primary and backup data off of optical media within DFSMSdfp OAM.

Agenda

- Transition primary data from 3995 optical to tape
- Transition primary data from 3995 optical to DASD (DB2®)
- Migrate OAM backup data from 3995 optical to tape

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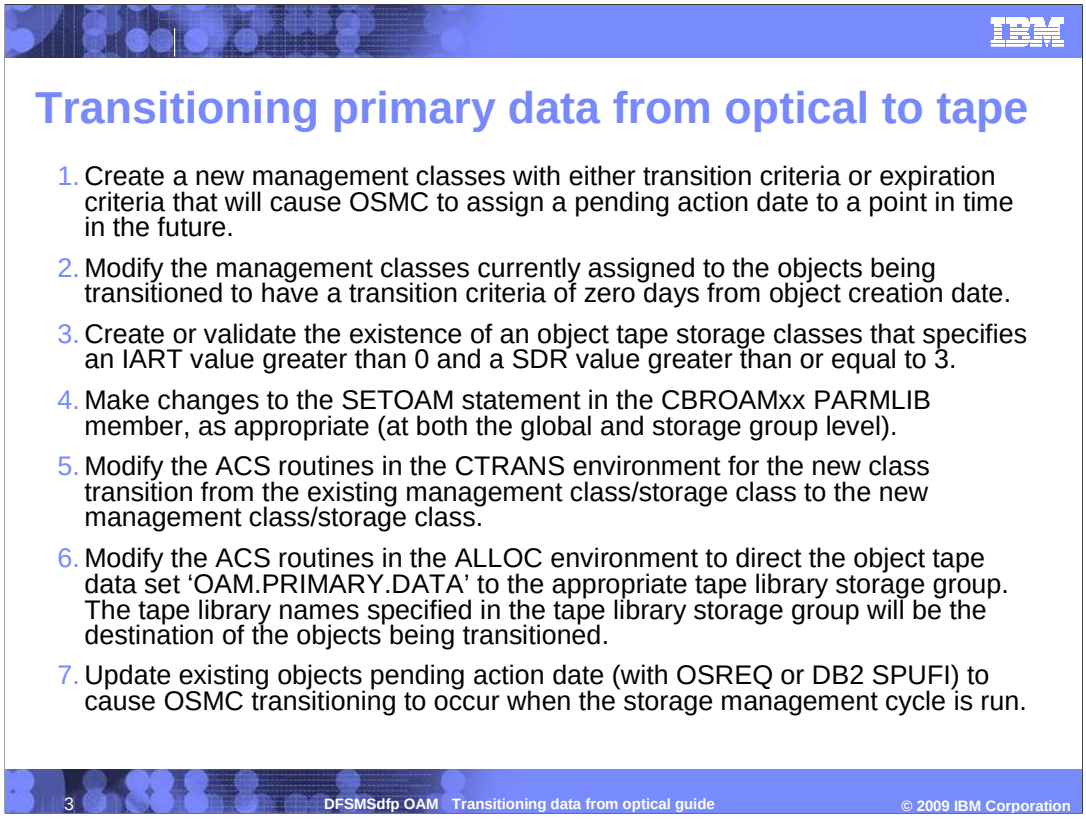
This presentation will discuss how to transition OAM primary data from 3995 optical media to both the tape and DASD storage hierarchies. In addition, it will also discuss how to transition OAM backup data currently stored on 3995 optical media to tape.

This document is not meant to be a comprehensive guide to transitioning data, but rather a set of steps that may need to be undertaken to remove data from the optical storage hierarchy in OAM. Before proceeding, it is recommended that an SMS storage specialist and a DB2 administrator be involved in the planning process to ensure appropriate supervision of the following processes.



Step 3: IART refers to Immediate Access Response Time. SDR refers to Sustained Data Rate.

Step 4: The SETOAM statement controls OAM object tape related settings at both the global and storage group level. STORAGEGROUP keywords such as TAPEUNITNAME and DATACLASS would need modification. In addition, to prevent your tape management system from managing and expiring OAM's object tape volumes, use the appropriate NEVER EXPIRE DATE from your tape management system as the tape volume's expiration date (also refer to the SETOAM TAPEEXPIRATION keyword). This leaves the management of the object data and of the tape volume to OAM. See z/OS® DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support (SC35-0426) for more information.

Step 5: The new management class refers to the management class created in step 1. The new storage class refers to the storage class in step 3.

Step 6: With z/OS Release V1R7 and higher, an enhancement was made available which allows the object storage group name to be appended to the object tape data set names: 'OAM.PRIMARY.DATA', 'OAM.BACKUP.DATA' and 'OAM.BACKUP2.DATA'. If the DSNWITHSGNAME keyword is specified in the SETOAM statement in CBROAMxx PARMLIB member, the updates to the ACS routines in the ALLOC environment must reflect this additional low level qualifier in the 'OAM.PRIMARY.DATA' dataset name. An alternative option is to specify a wildcard low level qualifier such as: 'OAM.PRIMARY.DATA.*'.

Step 7: As part of the planning process, it must be determined if the updates to the pending action dates will be made at an object, storage group, or volume level. This decision will affect how long the long the storage management cycle runs.

Transitioning primary data from optical to DASD (DB2)

1. Create a new management classes with either transition criteria or expiration criteria that will cause OSMC to assign a pending action date to a point in time in the future.
2. Modify the management classes currently assigned to the objects being transitioned to have a transition criteria of zero days from object creation date.
3. Create or validate the existence of an storage classes that specifies an IART value of 0.
4. Modify the ACS routines in the CTRANS environment for the new class transition from the existing management class/storage class to the new management class/storage class.
5. Update existing objects pending action date (with OSREQ or DB2 SPUFI) to cause OSMC transitioning to occur when the storage management cycle is run.

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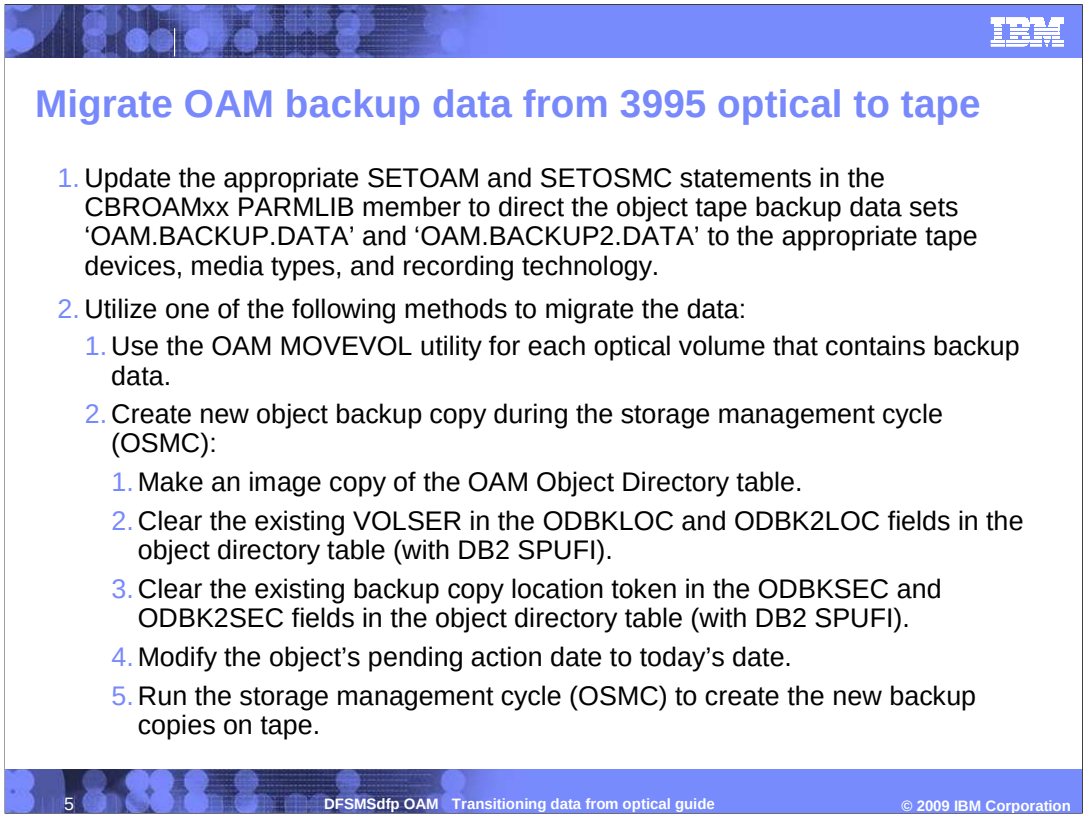
Step 3: IART refers to Immediate Access Response Time.

Step 4: The new management class refers to the management class created in step 1. The new storage class refers to the storage class in step 3.

Step 5: As part of the planning process, it must be determined if the updates to the pending action dates will be made at an object, storage group, or volume level. This decision will affect how long the long the storage management cycle runs.



Step 1: The SETOAM statement controls OAM object tape related settings at both the global and storage group level. STORAGEGROUP keywords such as TAPEUNITNAME and DATACLASS would need modification. In addition, to prevent your tape management system from managing and expiring OAM's object tape volumes, use the appropriate NEVER EXPIRE DATE from your tape management system as the tape volume's expiration date (also refer to the SETOAM TAPEEXPIRATION keyword). This leaves the management of the object data and of the tape volume to OAM. See z/OS DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support (SC35-0426) for more information.

Also note that with z/OS Release V1R7 and higher, an enhancement was made available which allows the object storage group name to be appended to the object tape data set names: 'OAM.PRIMARY.DATA', 'OAM.BACKUP.DATA' and 'OAM.BACKUP2.DATA'. If the DSNWITHSGNAME keyword is specified in the SETOAM statement in CBROAMxx PARMLIB member, the backup dataset names will have an additional low level qualifier.

Step 2.2: As part of the planning process, it must be determined how many objects will have new backups created during an storage management cycle. This step can be done at an object, storage group, or volume basis. The number of objects having new backup copies created will affect the length of the storage management cycle.

Publications

- *z/OS DFSMS Object Access Method Planning, Installation, and Storage Administration Guide for Object Support (SC35-0426)*
- *z/OS DFSMS Object Access Method Planning, Installation and Storage Administration Guide for Tape Libraries (SC35-0427)*
- IBM Education Assistant presentation: “OAM Object Support and ACS Routines”

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Refer to the publications listed for additional information.

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