



Data Management - Jes

Data Management



Data Management

Catalog Processing

DASD Volume Organization

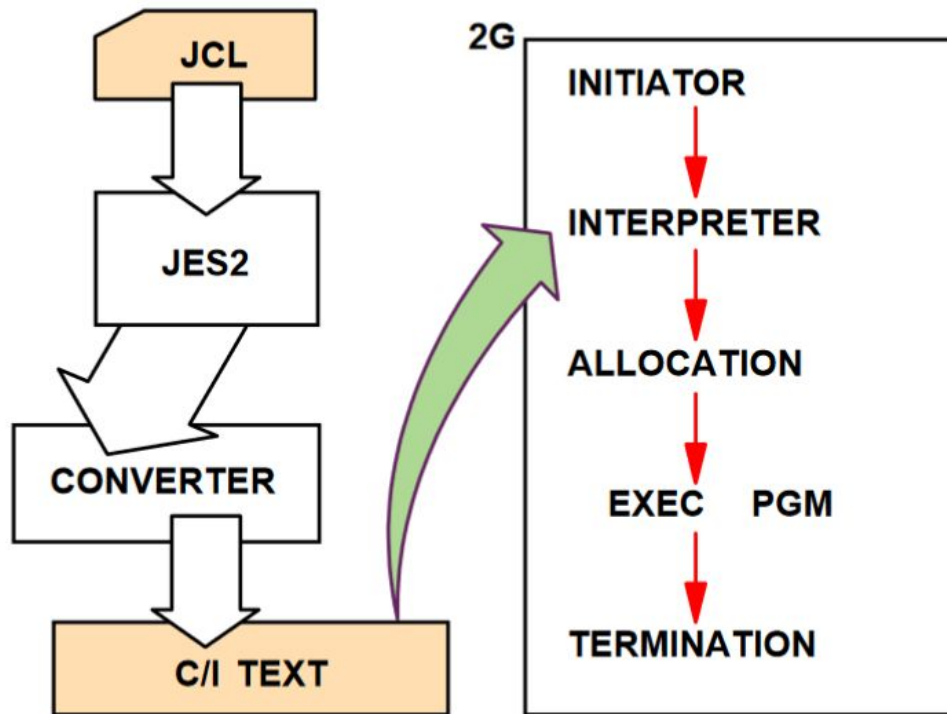
Allocating New Non-SMS DASD Data Sets

SMS Facilities

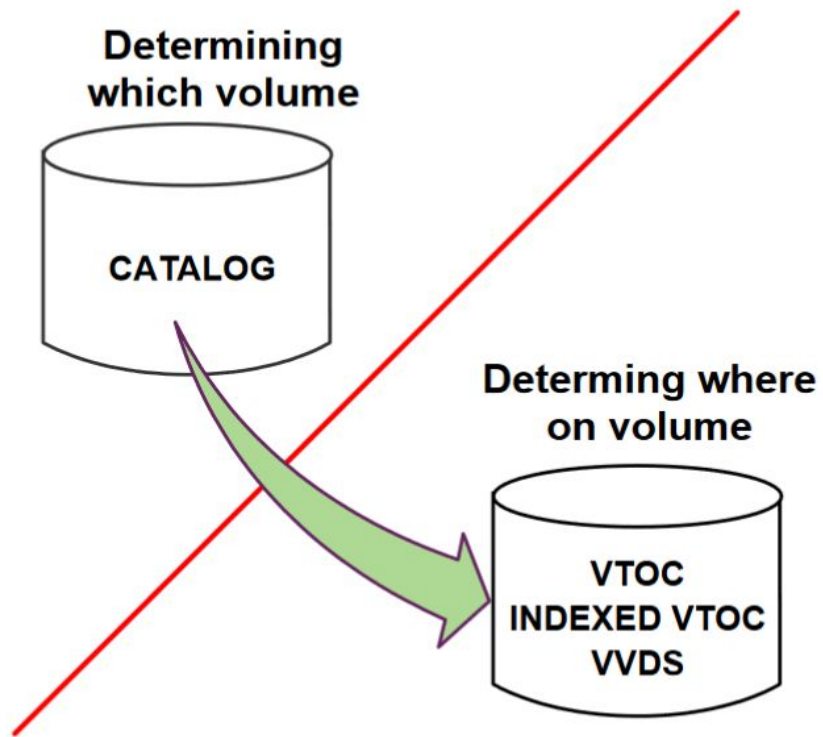
Data sets and files

Data set support functions

Job Flow Review



Data Location



Catalog Processing



Data Management

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DASD Volume Organization

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SMS Facilities

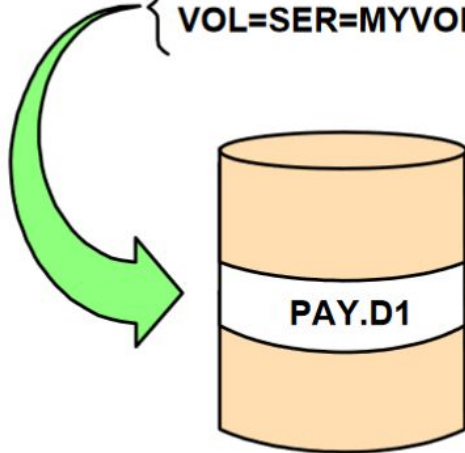
Data sets and files

Data set support functions

Data Set Location

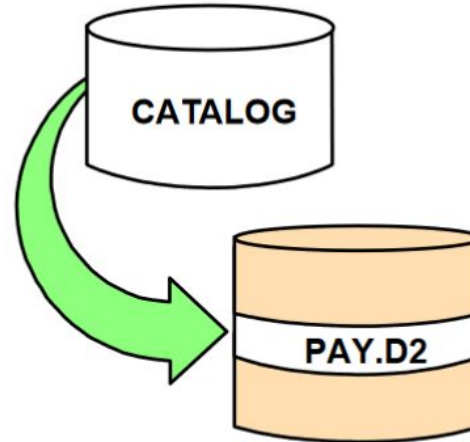
UNCATALOGED

```
// DD      DSN=PAY.D1  
          DISP=OLD  
          { UNIT=SYSDA  
            VOL=SER=MYVOL
```

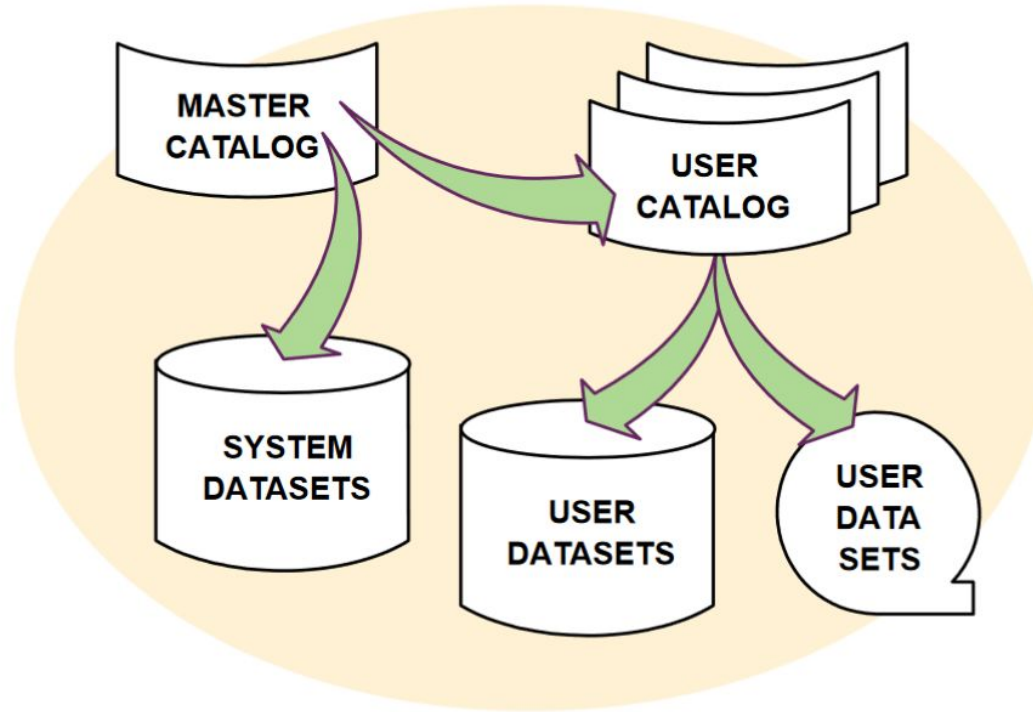


CATALOGED

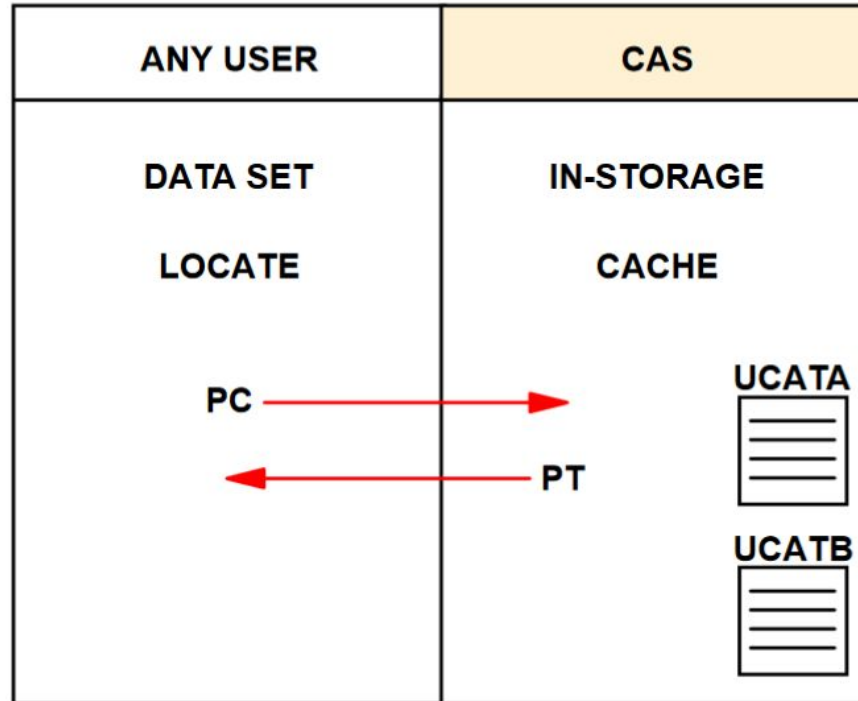
```
// DD      DSN=PAY.D2  
          DISP=OLD
```



Master and User Catalogs



Catalog Address Space Processing



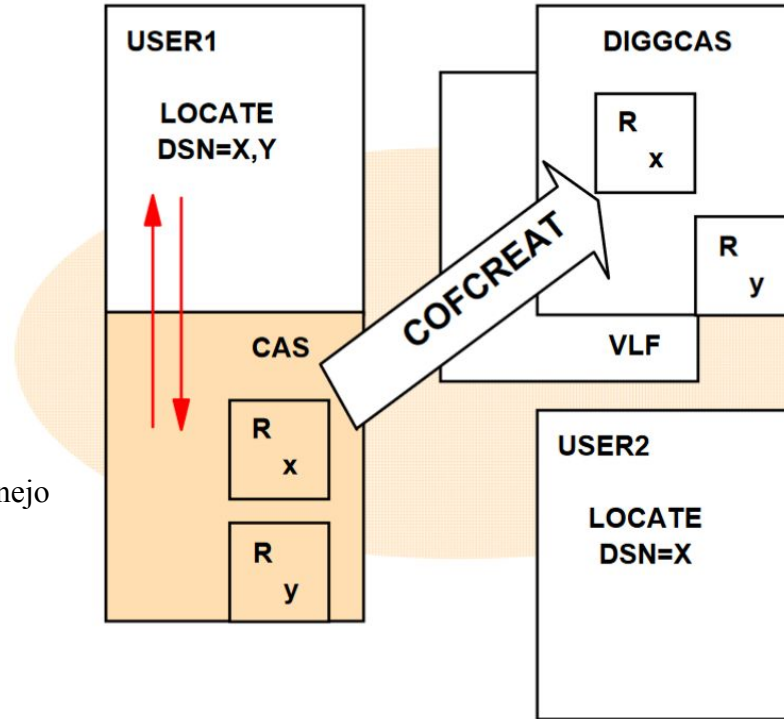
PC: Program Call
PT: Program Transfer

CAS: Data Space Processing

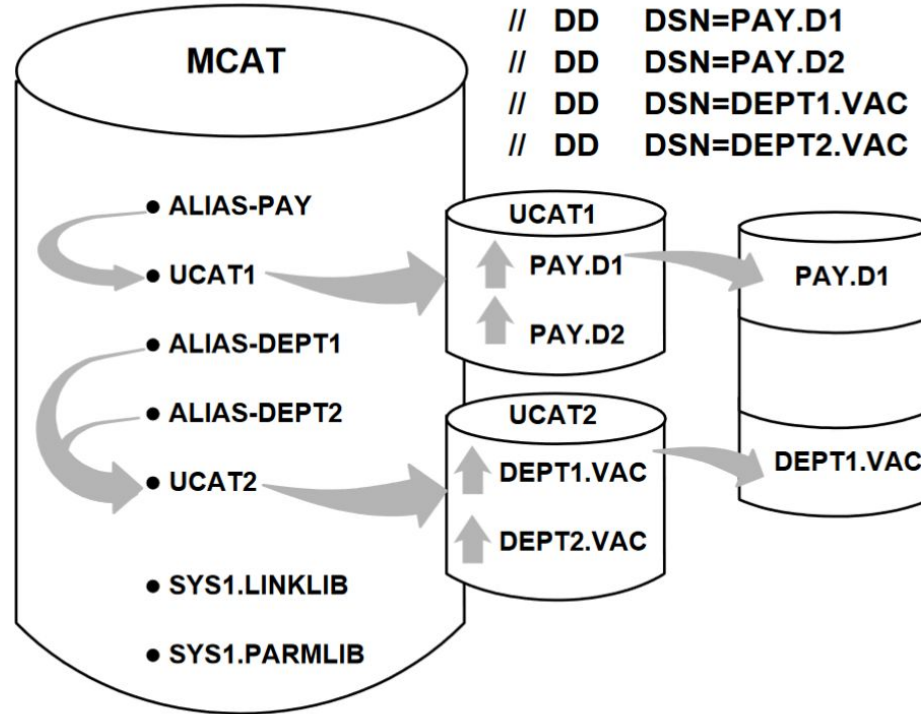
COFCREAT: Macro; allows to add an object, to a class of VLF objects.

DIGGCAS: Data-space de VLF, para manejo de Catalogos.

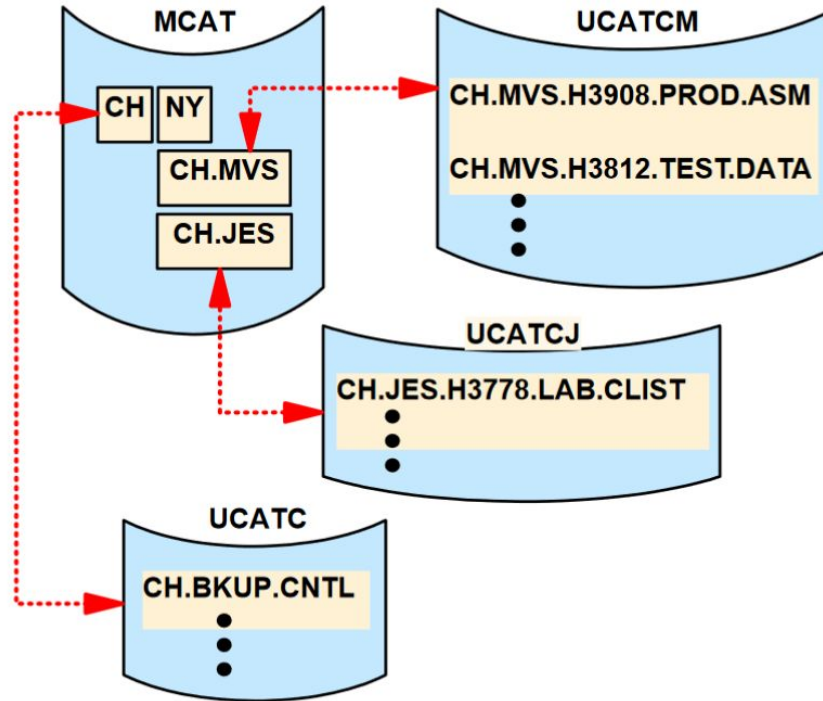
(Data spaces that begin with “D” contain objects; Data spaces that begin with “C” contain control information). (VLF Dataspaces (**D J,VLF**)).



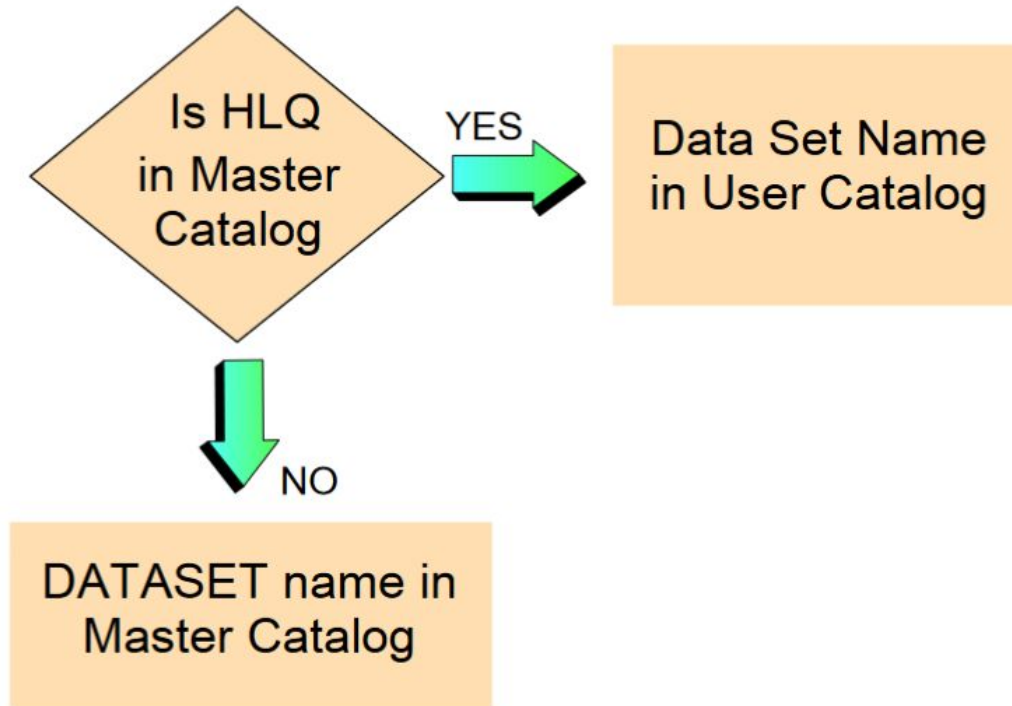
Using Aliases



Multilevel Alias



Catalog Search Order



DASD Volume Organization



Data Management

Catalog Processing

DASD Volume Organization

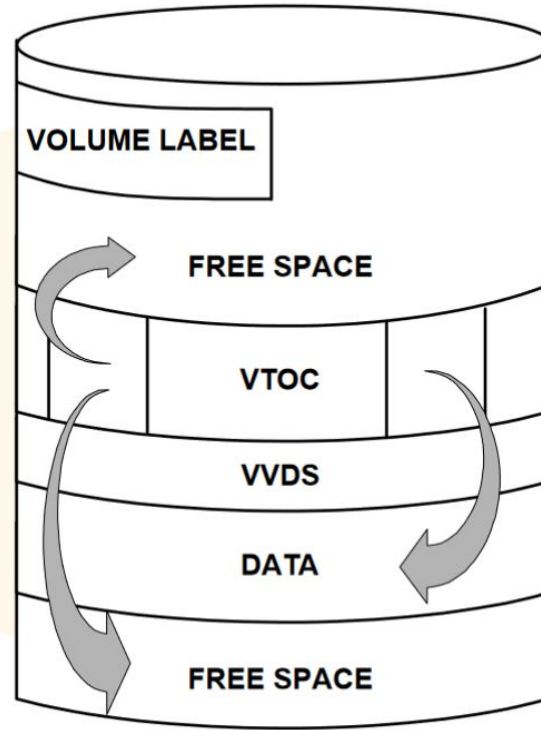
Allocating New Non-SMS DASD Data Sets

SMS Facilities

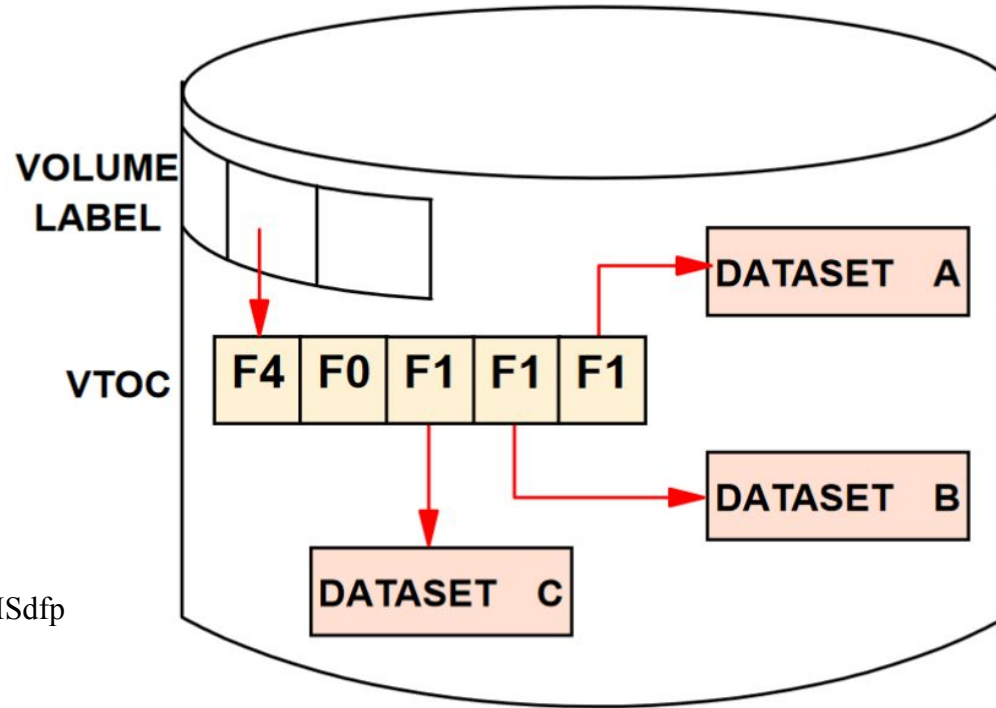
Data sets and files

Data set support functions

DASD Organization

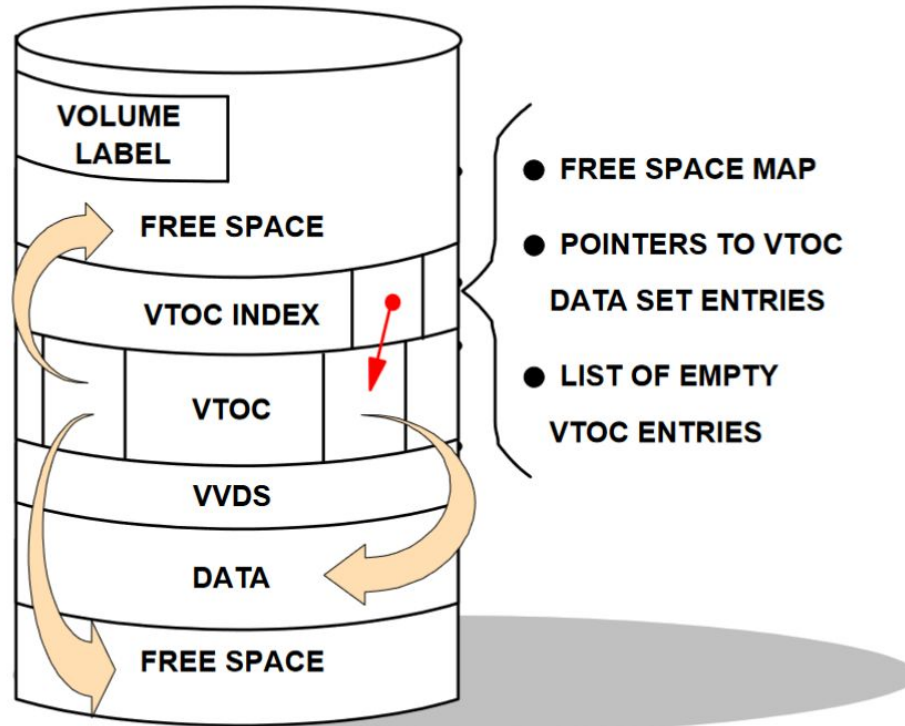


Volume Table of Contents



(Vtoc DSCB, Format-4; en DFSMSdfp Advanced Services).
(Utility usado: IEHLIST).

Indexed VTOC Structure



Allocating New Non-SMS DASD Data Sets

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Allocating New Non-SMS DASD Data Sets

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Unit Names

Specific Device Number:

UNIT =/5A0 or UNIT=5A0
UNIT =/15A0

(3-digit or
4-digit hex number)

Generic Device Type:

UNIT = 3390

3390 Model 1
3390 Model 2
3390 Model 3
3390 Model 9

(Unit-3390, comprende también a: 3390-27;
3390-54; 3390-A).

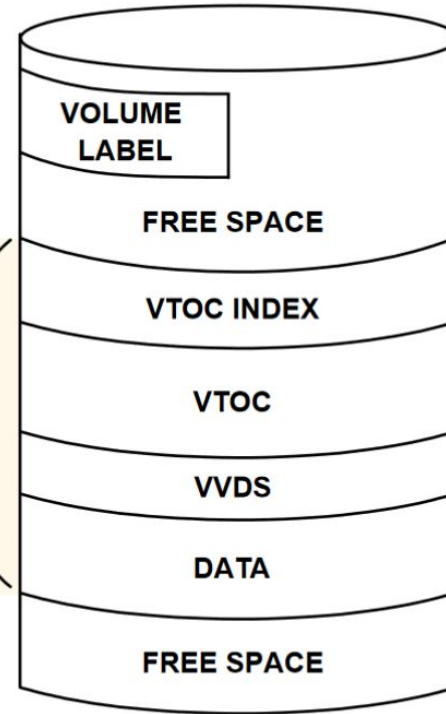
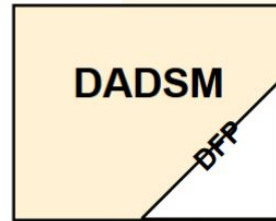
Unit Names - Esoteric

Generic Device Types	3380				3390			
Esoteric Group Name	PRODDSK				SYSDA			
Specific Device Number					TESTDSK			
	180	181	182	183	190	191	192	193

UNIT = **SYSDA**

DASD Processing

```
// DD DSN=PAY.D3,  
      .  
      .  
      SPACE=(CYL,(10,1))
```



DADSM: Direct Device Space Management.

SMS Facilities

Data Management

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Allocating New Non-SMS DASD Data Sets



SMS Facilities

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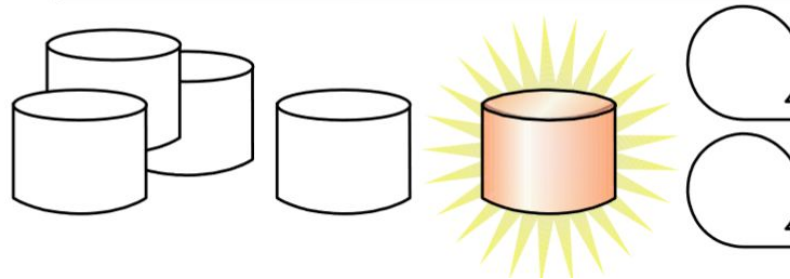
SMS DASD Data Set Allocation

DEFINING A NEW DATA SET
(SMS)

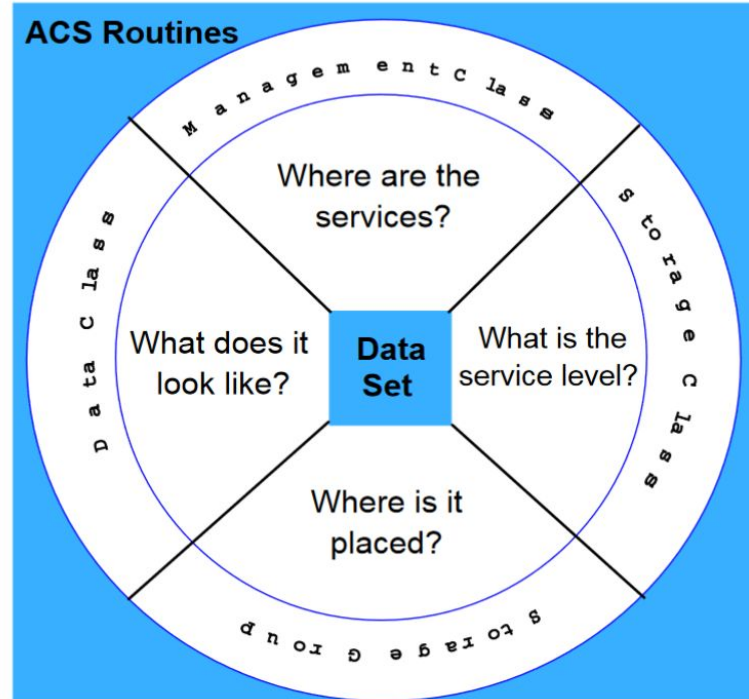
```
//DD1 DD DSN=PAY.D3,  
//      DISP=(NEW,CATLG)
```

STORAGE MANAGEMENT SUBSYSTEM

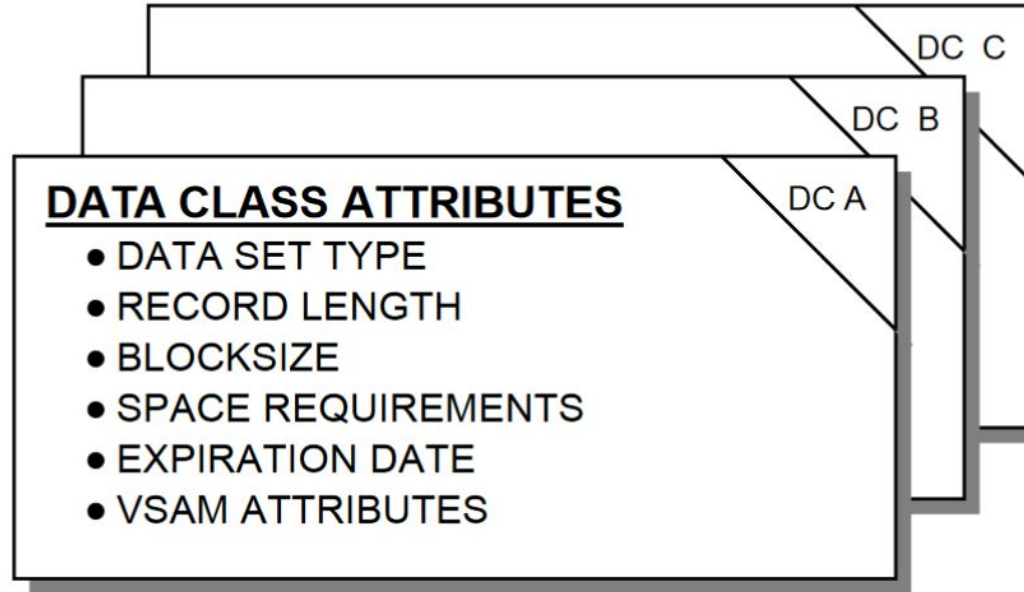
z/OS



Storage Management Subsystem



Data Classes



Where is it placed?

Automatic Class Selection Routines

1) IF LLQ = ASM, OBJ, CNTL.

THEN DATACLAS = DCFBO

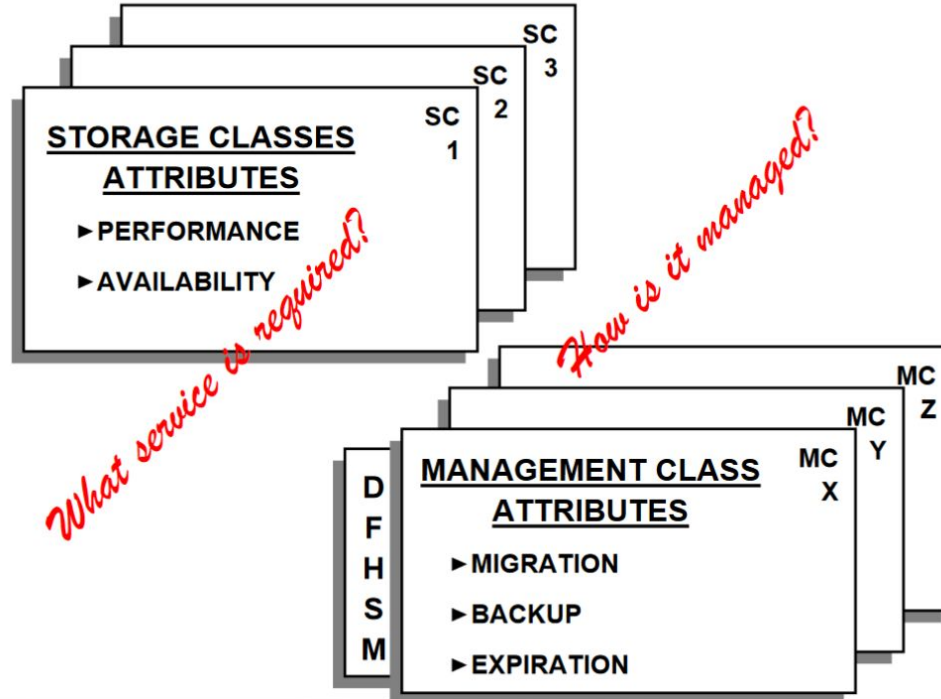
2) IF LLQ = LOAD, LIB

THEN DATACLAS = DCFLOAD

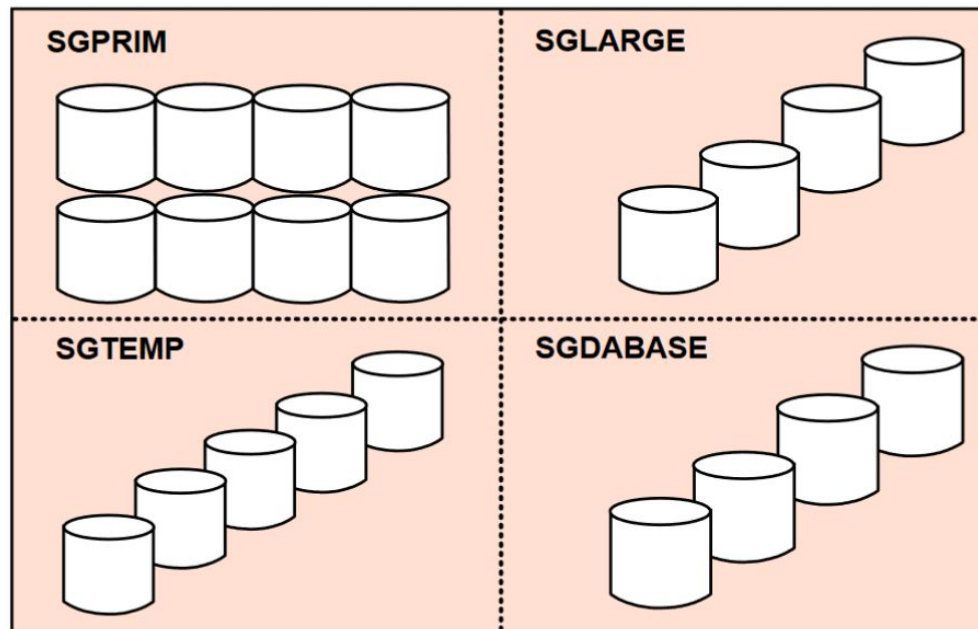
-
-
-
-

DATA CLASS ACS ROUTINE

Storage and Management Classes

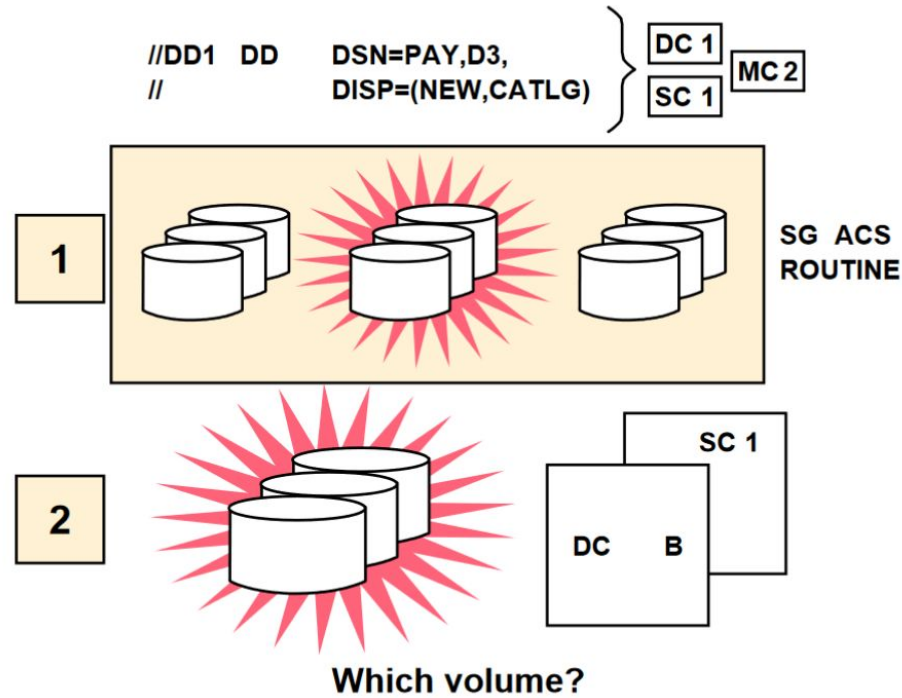


Storage Group



Where is it placed?

SMS Processing



(Storage-group).

Data sets and files

Data Management

Catalog Processing

DASD Volume Organization

Allocating New Non-SMS DASD Data Sets

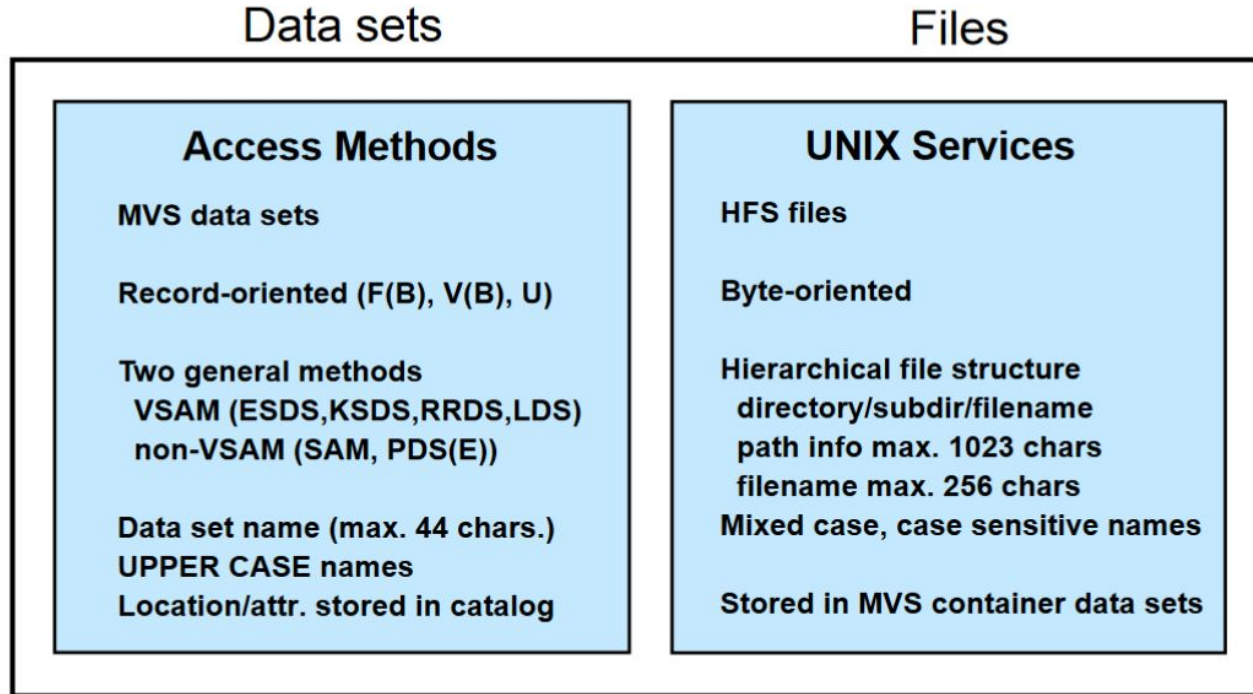
SMS Facilities



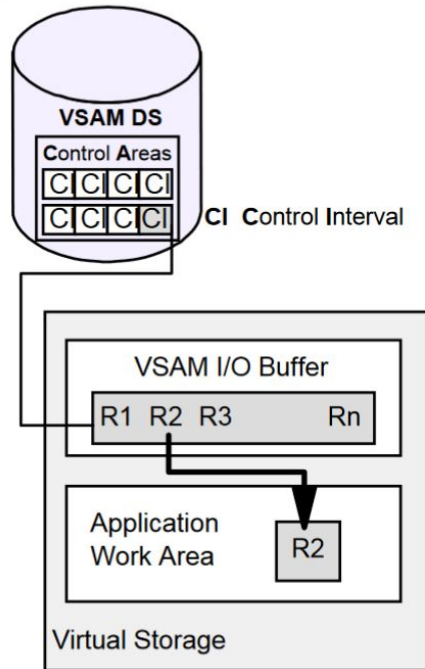
Data sets and files

Data set support functions

Data sets and files in z/OS and OS/390

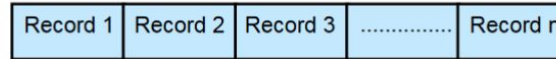


VSAM data sets

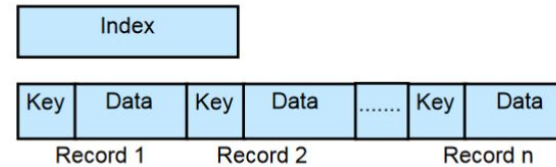


(SG24-6105)

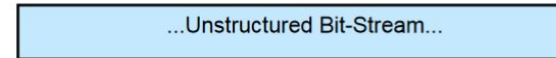
Entry-Sequenced Data Set



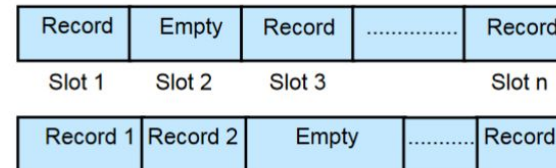
Key-Sequenced Data Set



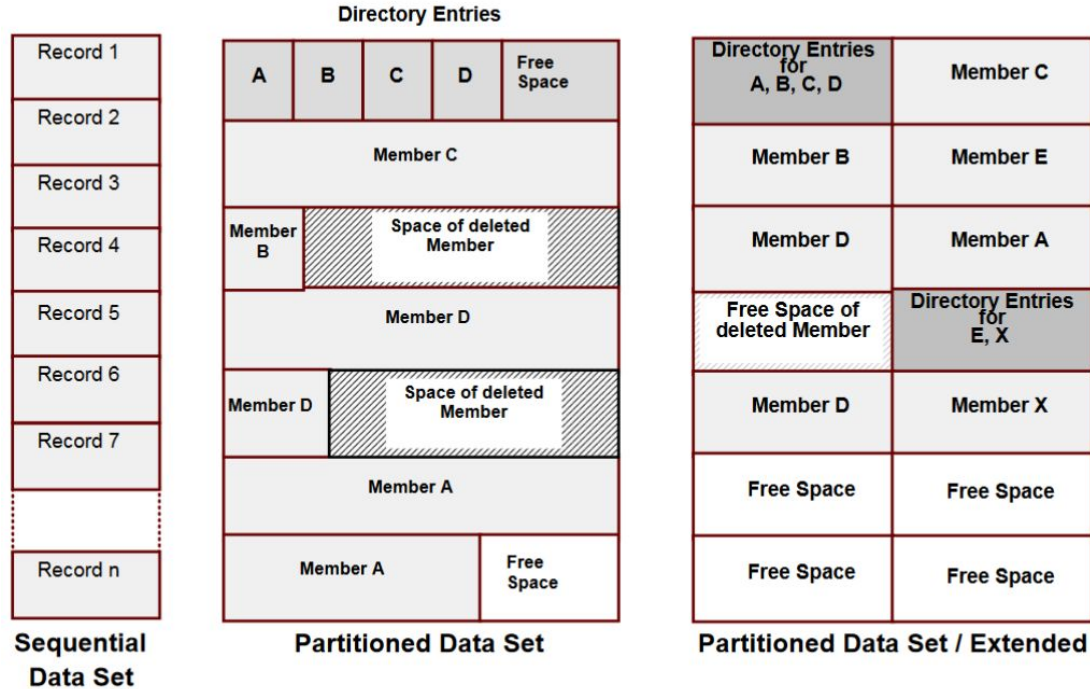
Linear Data Set



Relative Record Data Set



Sequential and partitioned data sets



File Creation (en Unix-Services)

FILE CREATION (en Unix-Services):

```
//F DD PATH='/u/tsojdoe/adir/my.file',  
//  PATHMODE=(SIRWXU,  
SIWGRP),PATHDISP=(KEEP,DELETE),  
//  PATHOPTS=(OWRONLY,OCREAT,OEXCL)
```

Data set support functions

Data Management

Catalog Processing

DASD Volume Organization

Allocating New Non-SMS DASD Data Sets

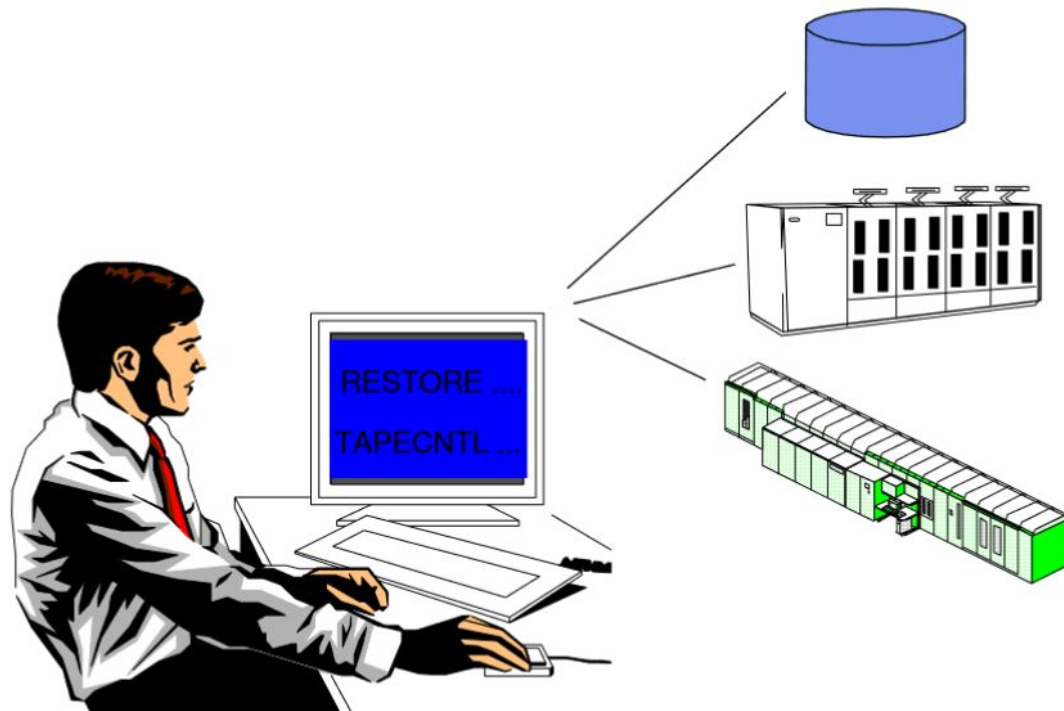
SMS Facilities

Data sets and files

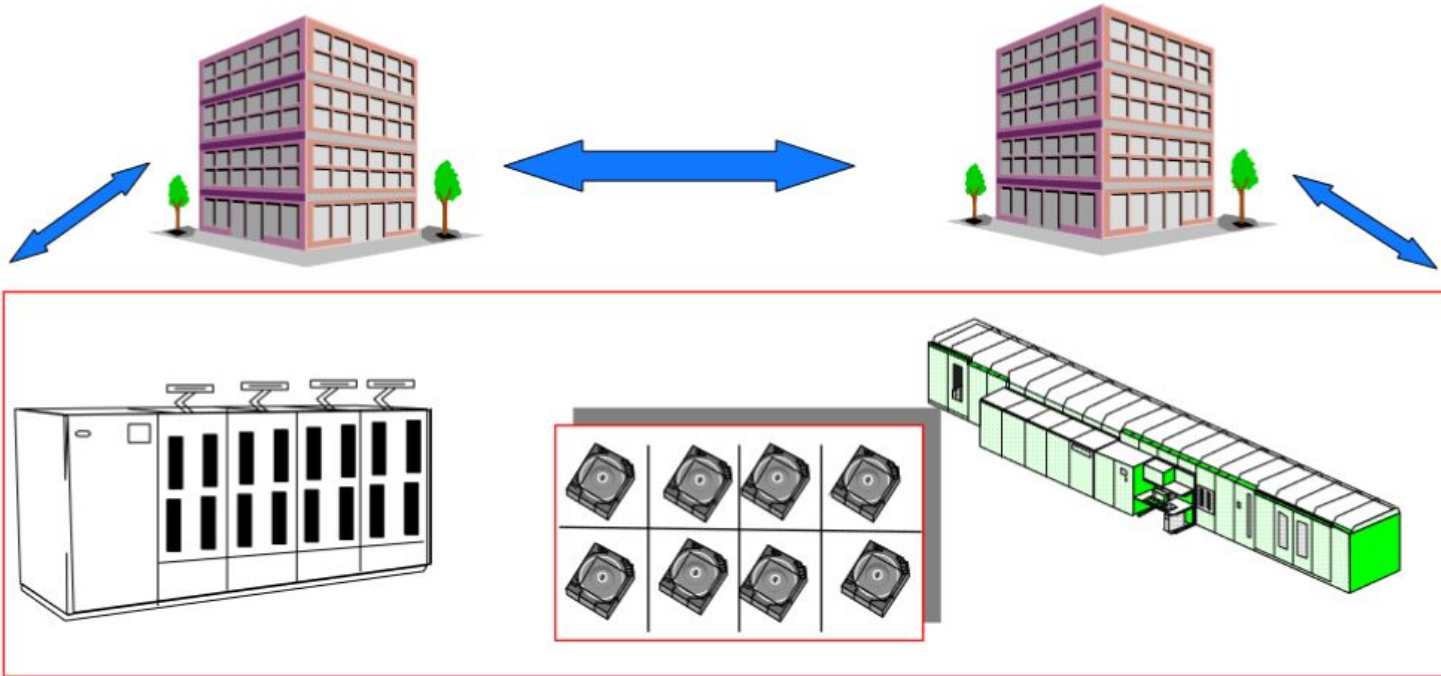


Data set support functions

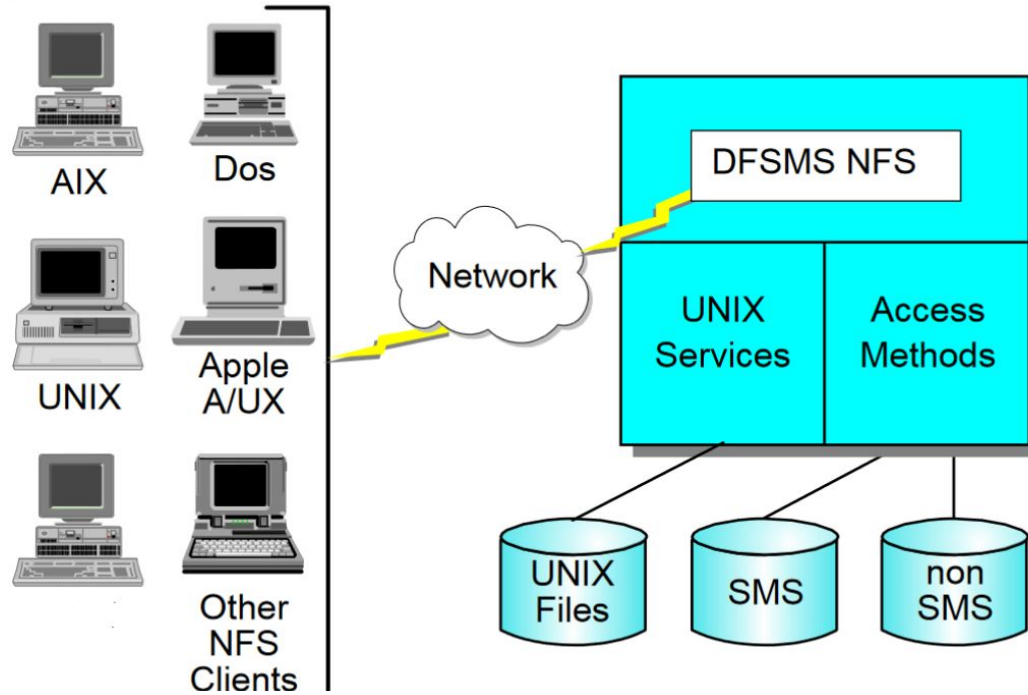
Data and Space Management: DFSMSdss



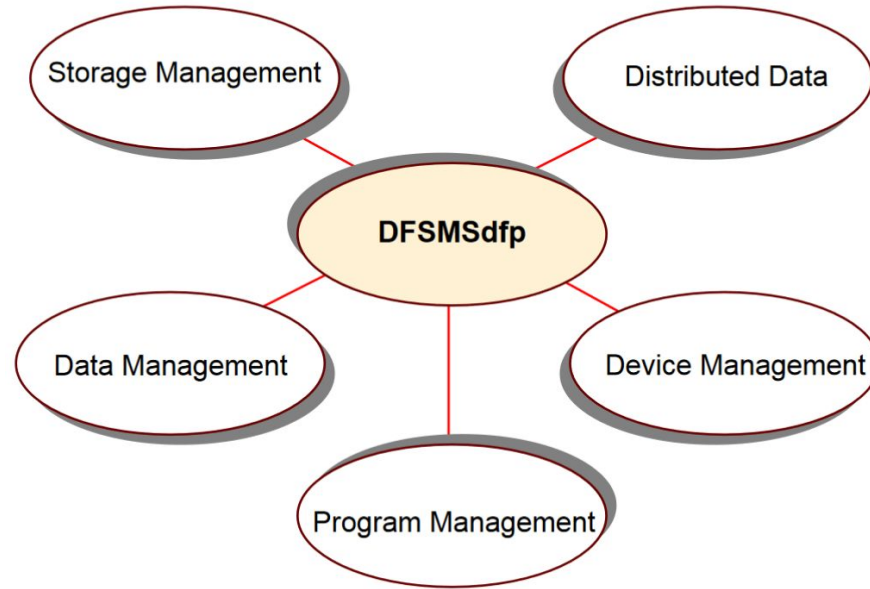
Tape Management: DFSMSrmm



DFSMS Network File System Server



DFSMS Data Facility Product



(Utilitario: **DFSMSdss** component of DFSMS; DFSMSdss is a direct access storage device (DASD) data and space management tool. DFSMSdss works on DASD volumes only in the z/OS environment).