z/OS Introduction and Workshop

IMS

Unit objectives

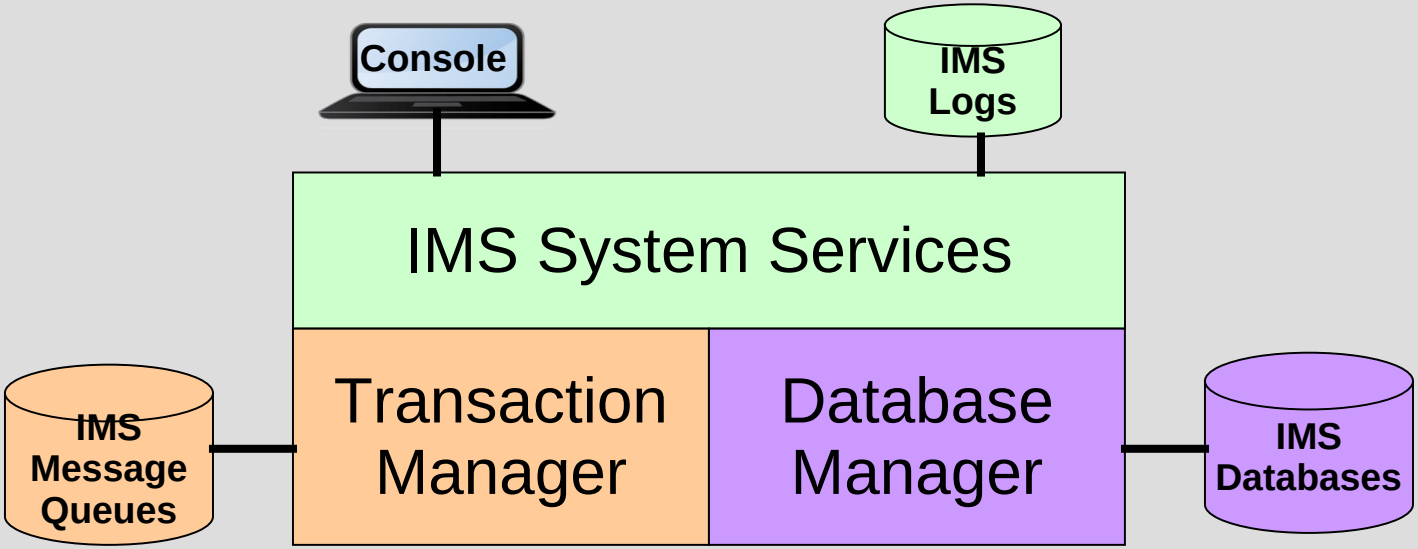
After completing this unit, you should be able to:

- Describe IMS
- List 3 IMS Components

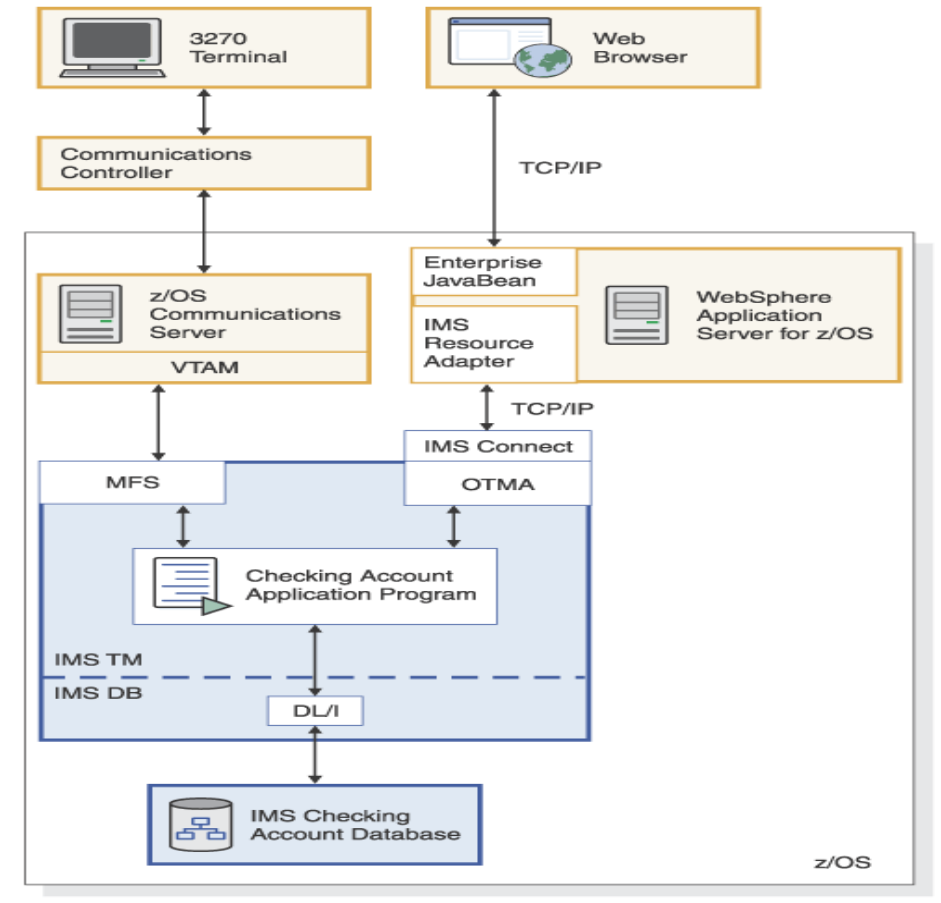
Information Management System (IMS)

IMS consists of 3 components

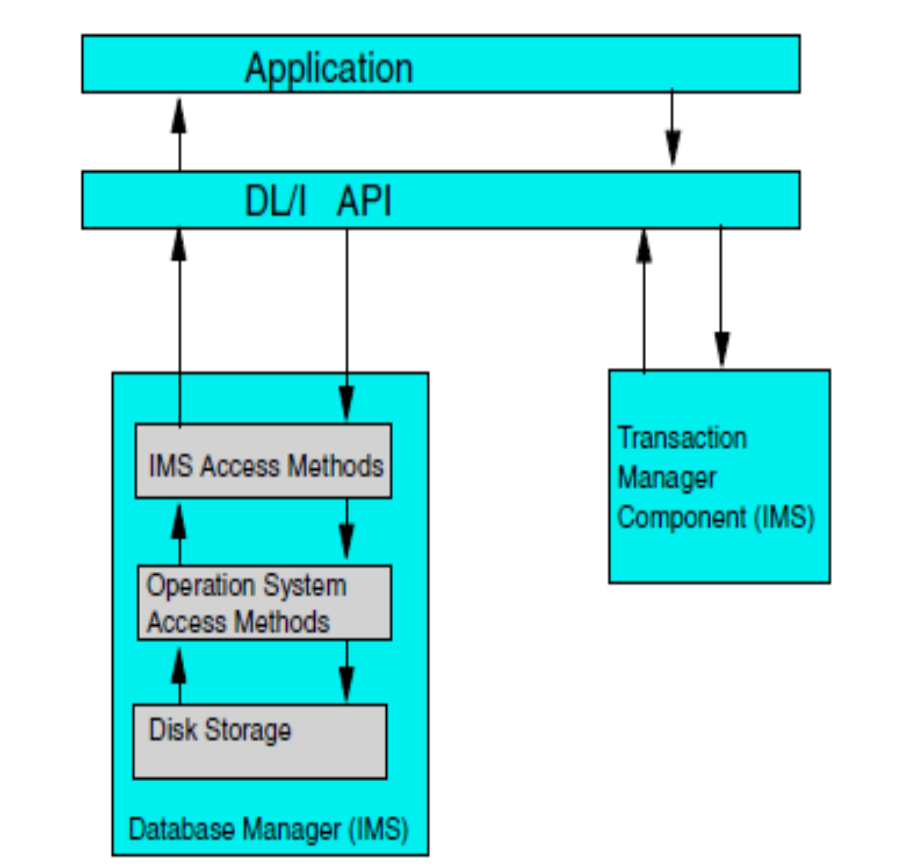
1. System Services component
2. Transaction Manager (TM) component
3. Database Manager (DB) component



IMS Network Connectivity



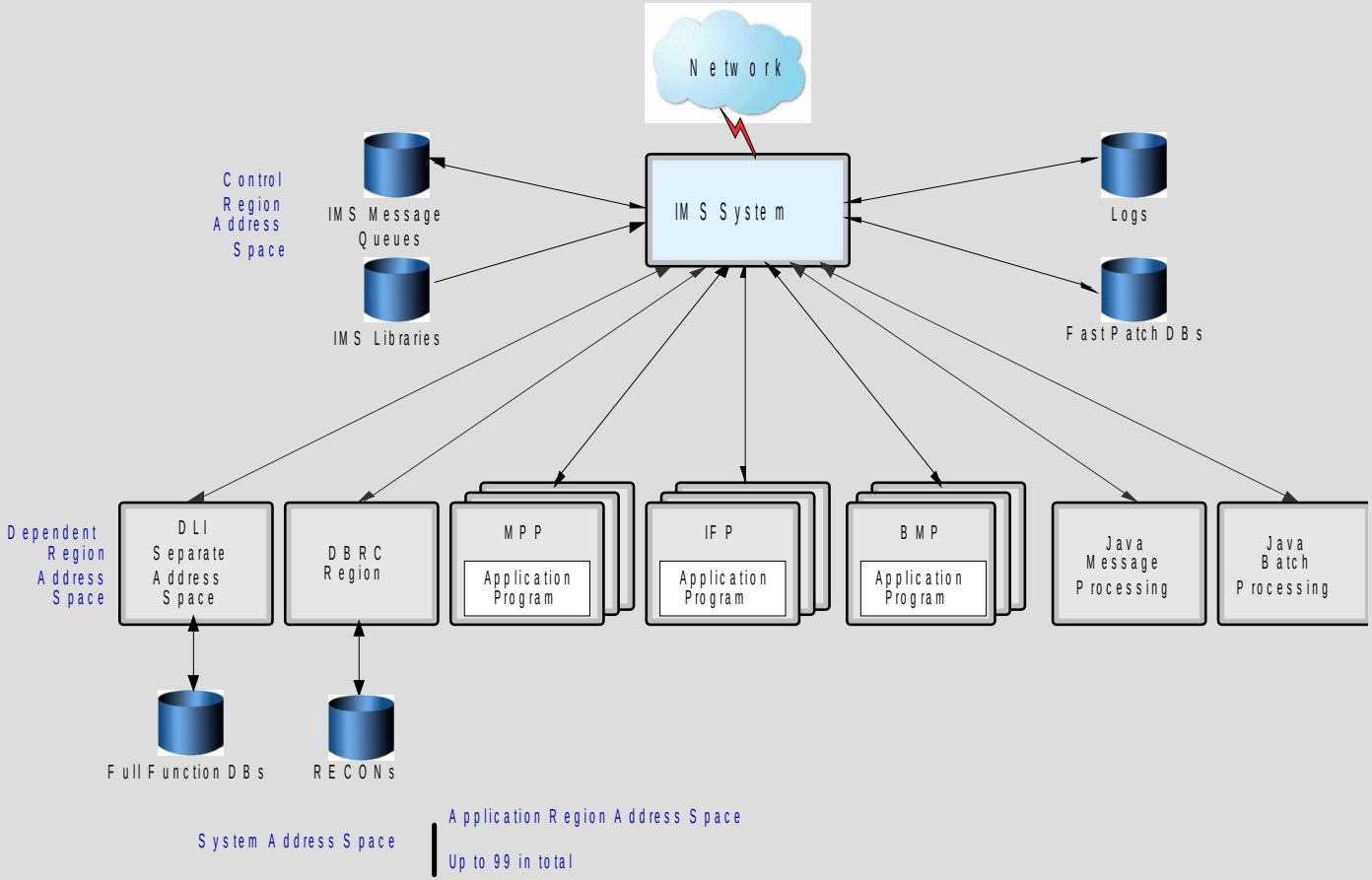
IMS Application Programming Interface (API)



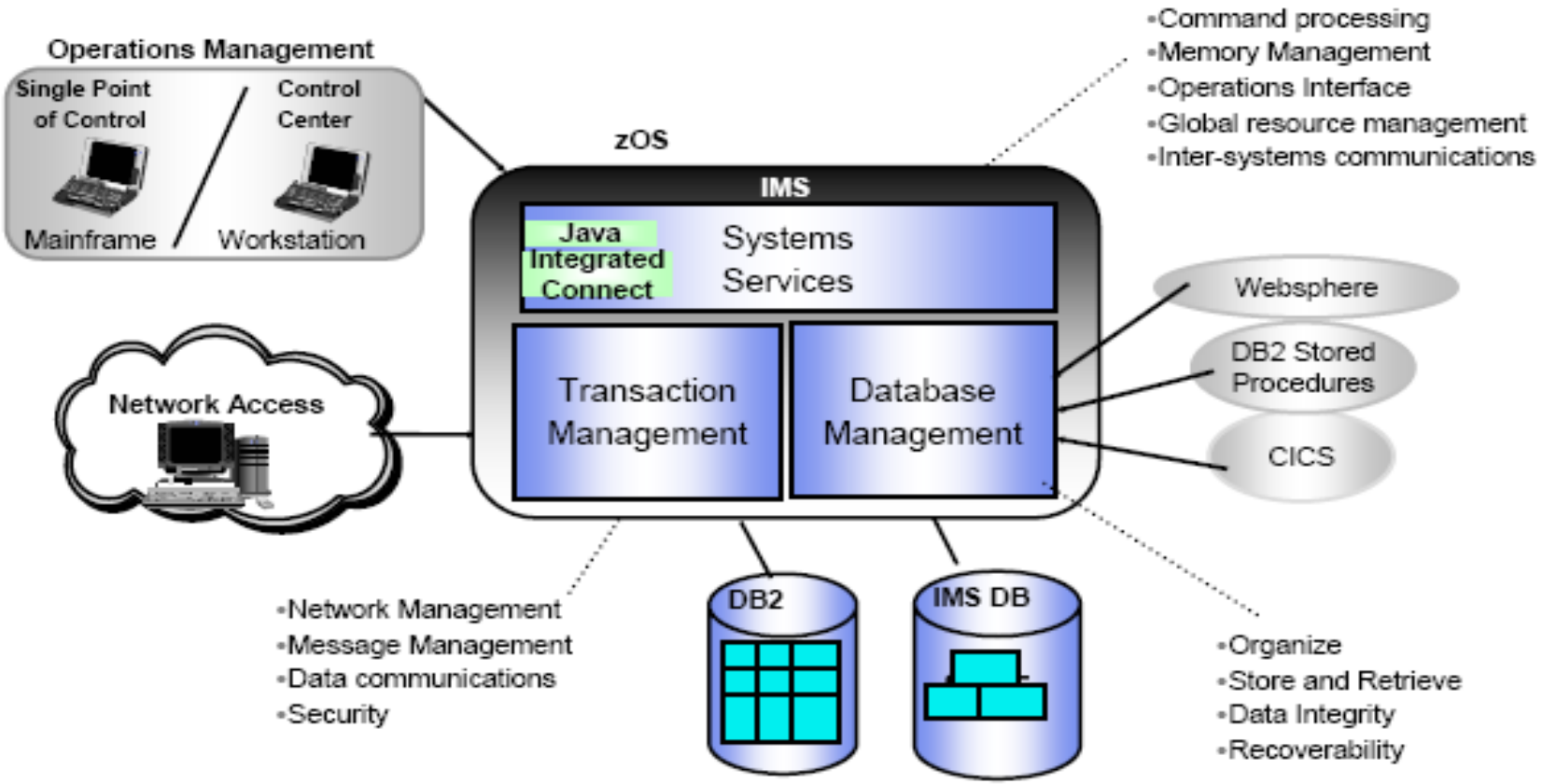
ASMTDLI:	Assembler language interface to IMS
CTDLI:	C language interface to IMS
CBLTDLI:	COBOL language interface to IMS
PASTDLI:	PASCAL language interface IMS
PLITDLI:	PL/I language interface to IMS

IMS now can use SQL for
IMS hierachical DB

IMS Environment

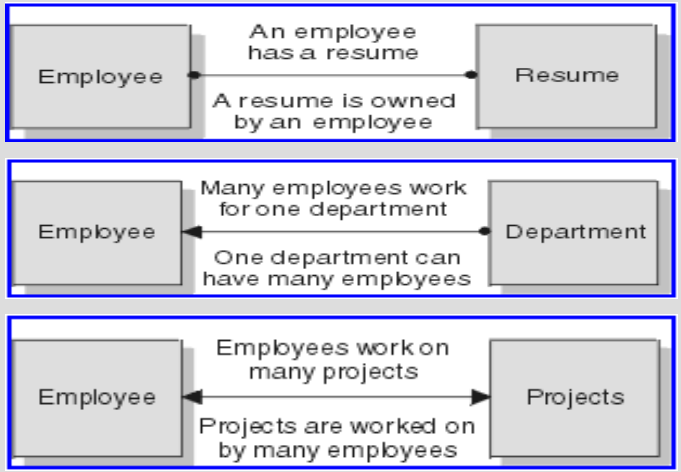


IMS Today

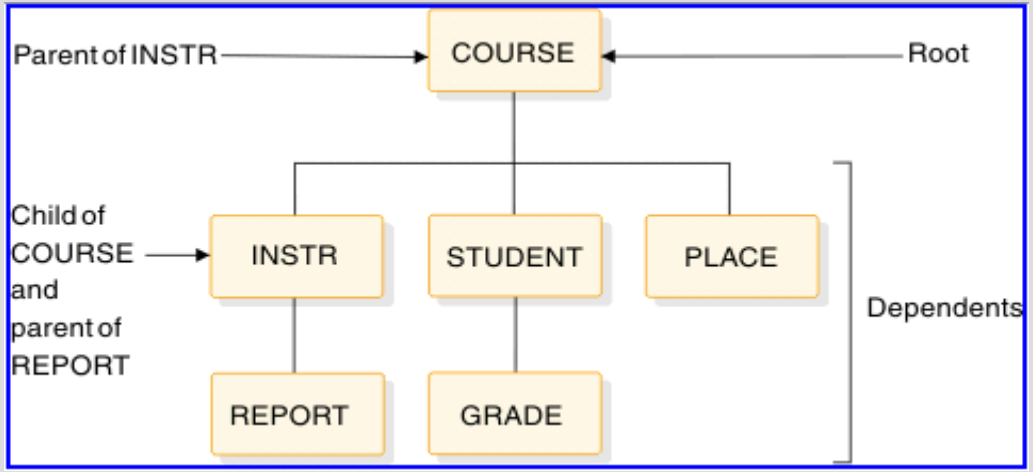

Operations Management
Single Point of Control
Control Center
Mainframe
Workstation
zOS
IMS
Java Integrated Connect
Systems Services
Transaction Management
Database Management
Network Access
Websphere
DB2 Stored Procedures
CICS
DB2
IMS DB
•Command processing
•Memory Management
•Operations Interface
•Global resource management
•Inter-systems communications
•Network Management
•Message Management
•Data communications
•Security
•Organize
•Store and Retrieve
•Data Integrity
•Recoverability

Hierarchical vs. Relational and Data Bases

Db2



IMS DB



Starting IMS (Operations)

S IMS10RL1
$HASP373 IMS10RL1 STARTED
DXR117I IRLM001 INITIALIZATION COMPLETE

S IMS10CR1
$HASP373 IMS10CR1 STARTED
DFS1929I * IMS SYSTEM PARAMETERS INITIAL FOR THIS V10.1 DBDC EXECUTION:
START IMS10DL1,PARM=(DLS,IVP1)
DFS0578I - READ SUCCESSFUL FOR DDNAME PROCLIB MEMBER = IMS10RC1
START IMS10RC1,IMSID=IVP1
$HASP373 IMS10DL1 STARTED
$HASP373 IMS10RC1 STARTED
*DFS225A - CTL REGION WAITING FOR DBRC REGION (IMS10RC1) INIT

***03 DFS810A IMS READY**

R 03,/NRE CHKPT 0 FORMAT ALL
IEE600I REPLY TO 03 IS;/NRE CHKPT 0 FORMAT ALL
DFS994I COLD START COMPLETED.
S IMS10RD1,MBR=IMSMSG
$HASP373 **IMS10RD1** STARTED
$HASP373 **IMS10M11** STARTED
$HASP373 **IMS10F12** STARTED
$HASP373 **IMS10F11** STARTED

Address Spaces

SDSF STATUS DISPLAY ALL CLASSES
PREFIX=IM* DEST=(ALL) OWNER=*

NP	JOBNAME	JobID	Queue
	IMS10J11	JOB01633	EXECUTION
	IMS10F12	JOB01632	EXECUTION
	IMS10F11	JOB01631	EXECUTION
	IMS10M11	JOB01630	EXECUTION
	IMS10RC1	STC01628	EXECUTION
	IMS10DL1	STC01627	EXECUTION
	IMS10CR1	STC01626	EXECUTION
	IMS10RL1	STC01625	EXECUTION

04 DFS996I *IMS READY

Stopping IMS (Operations)

R 04,/CHECKPOINT FREEZE.

REPLY TO 04 IS;/CHECKPOINT FREEZE.
DFS058I 14:52:06 CHECKPOINT COMMAND IN PROGRESS
*05 DFS996I *IMS READY*
DFS552I IFP REGION IMS10F11 STOPPED
DFS552I IFP REGION IMS10F12 STOPPED
DFS552I MESSAGE REGION IMS10M11 STOPPED
DFS552I JMP REGION IMS10J11 STOPPED

IMS Professional Manuals and Documentation

PDF files of IMS documentation

IMS Primer

Unit summary

Having completed this unit, you should be able to:

- Describe IMS
- List 3 IMS Components