

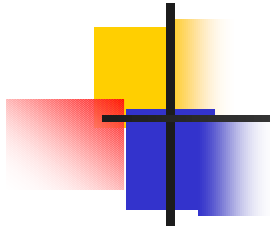
Web

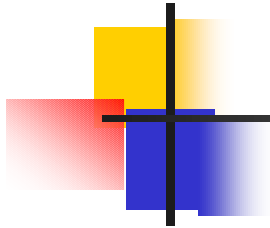
Windows NT/2000 Server

2001.12.17

DP&NM Lab

Contents



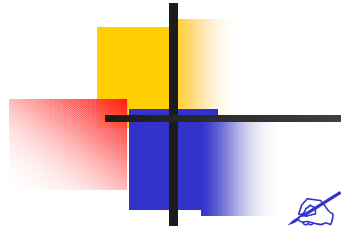


Windows NT



**Service Provider
Management Application
Web UI**





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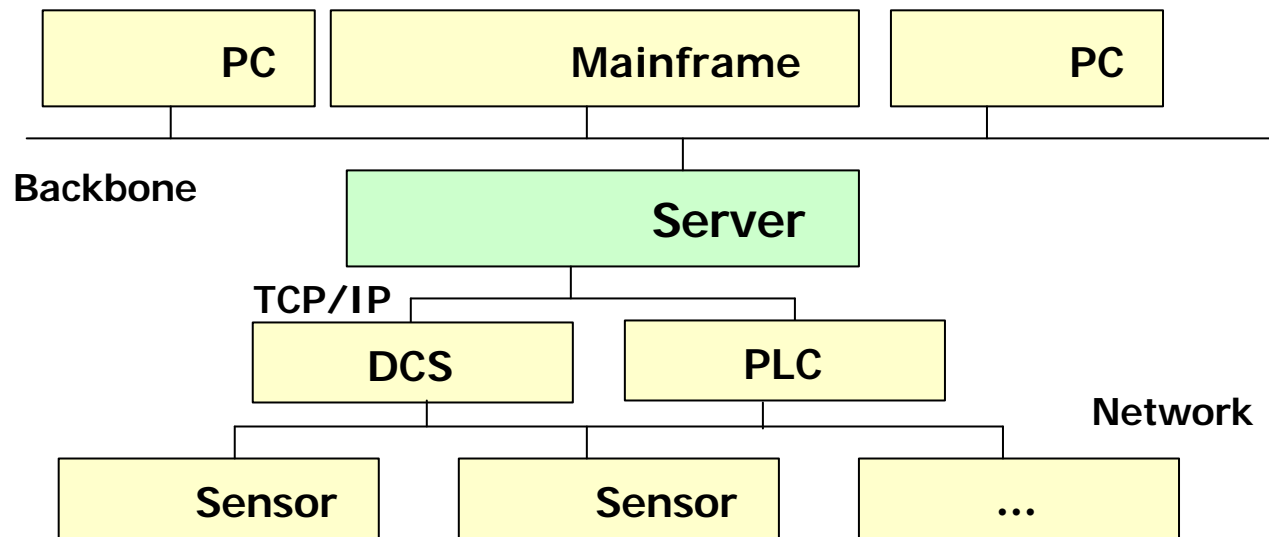


Client/Server Network

가

**PC
가**

(1)



(2)

	,
Tracking	
	, ,가
Process I/O	
Operator I/O	Man-Machine Interface
Data	,
	, , ,
App.	DB , File , Status , Application Task

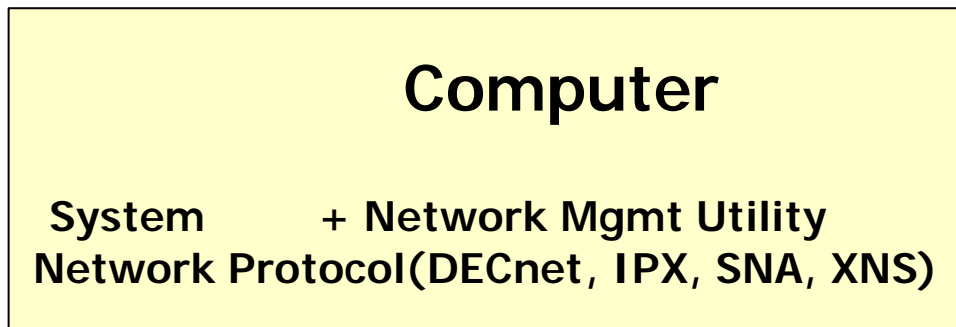
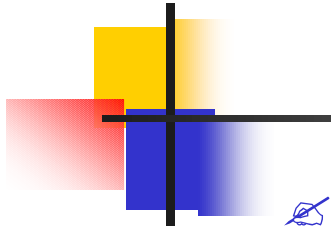
(3)

	Workstation	PC
	OpenVMS, UNIX, Maker Oriented OS	UNIX, Windows NT
	Maker	
	Host	Network

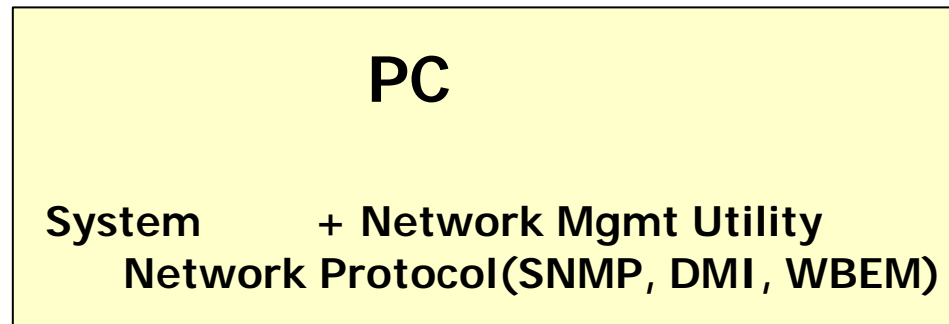
PC Server : 21 Server : 112
(Window NT : 15)

(4)

()	PC	Windows NT/2000	
	Alpha	Unix	SW
		OpenVMS	
		WBEM	
PC - Based		Windows NT/2000	
	SW	VLC(Visual Logic Controller)	
	Network	Ethernet, Profibus - DP	
		Data Network, Interface	
		DCS	300
(EIC)		EI()	
	Network	Ethernet, Profibus - DP	
	HMI	Intouch, Citect	
SW		, UML, SW	



Maker Oriented Protocol



TCP/IP
Open Protocol



(1)

 **RAS(Reliability, Availability, Serviceability)**



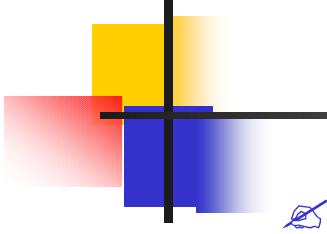
가

(2)

	,
	, , ,
	,
	, ,
SW	SW Up/Down Load
DB	DB , ,
	, ,
Help Desk	HW, SW,
	, , , ,
,	HW, SW, , 가

(3)

	UNIX NT
SW	Customizing SW



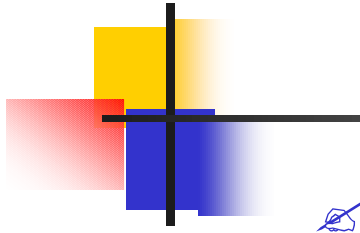
(4)

Point		BMC - Partrol - NAS Center - Ecoscope -
Framework	/ 가	CA - TNG HP - OpenView IBM - Tivoli

(5)

 **Framework**

IBM	Tivoli	IBM
CA	UniCenter TNG	SW IBM, TANDEM, UNISYS, UNIX, NT 가 TNG
HP	OpenView	IBM, SUN, UNIX, NT 가

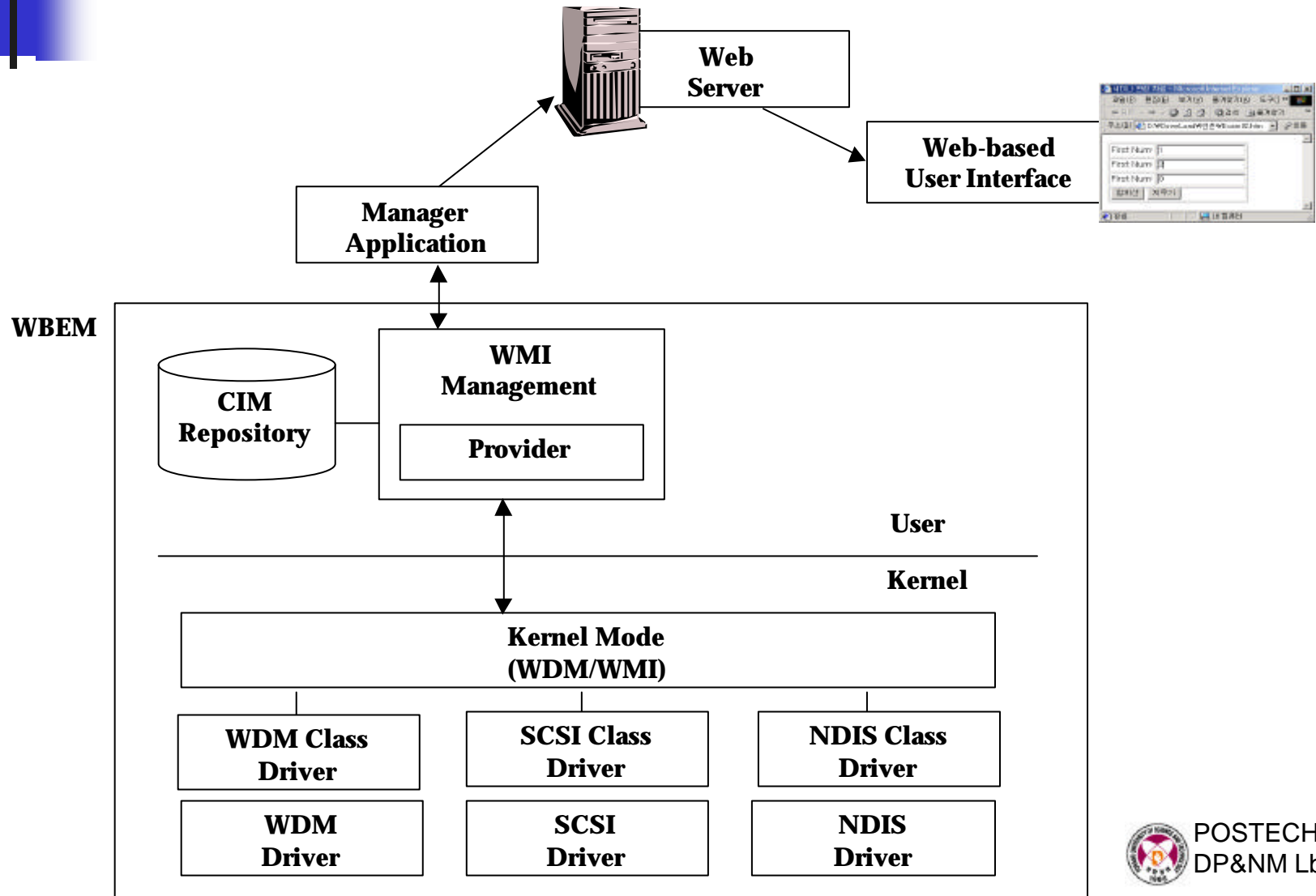


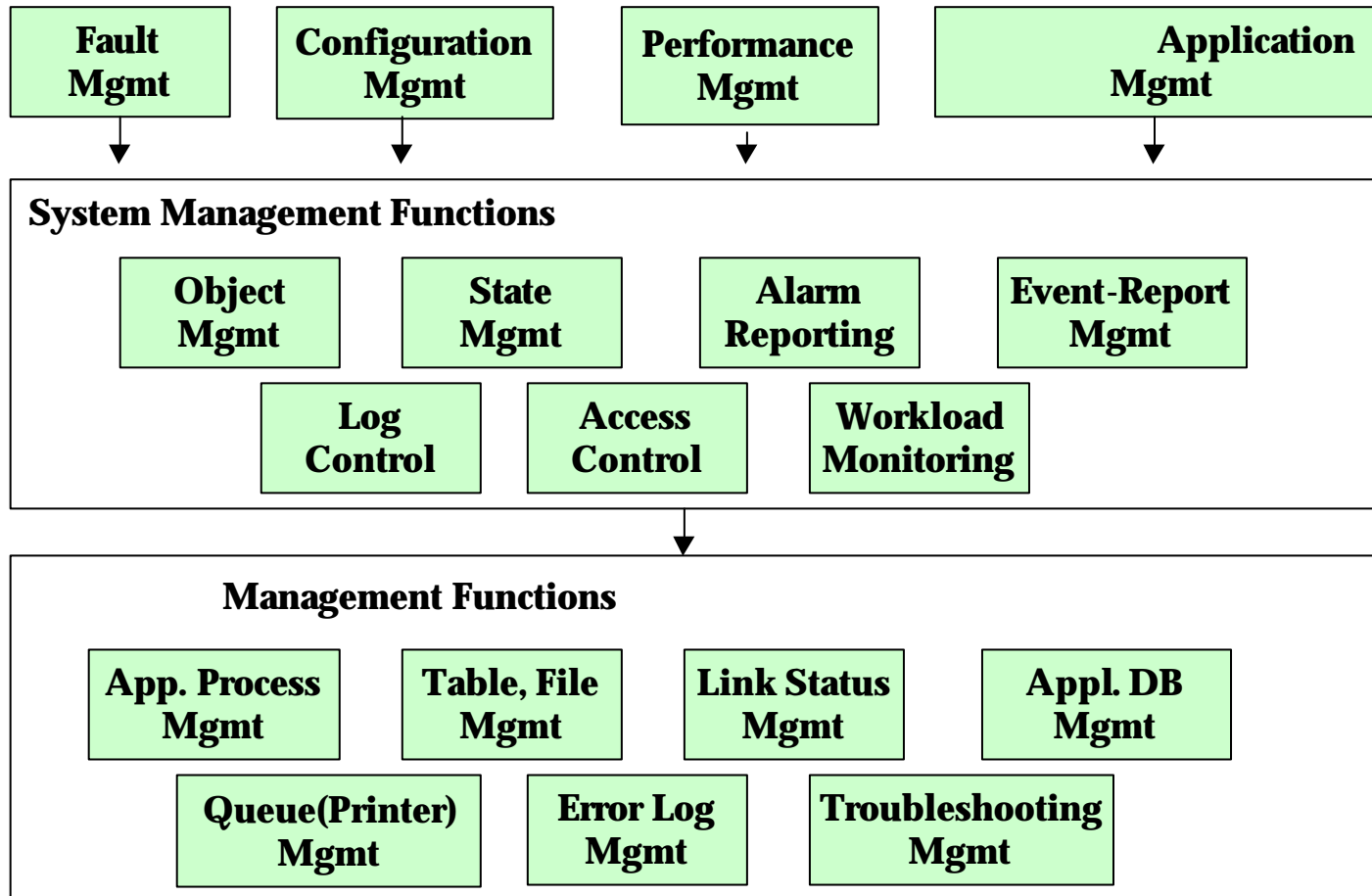
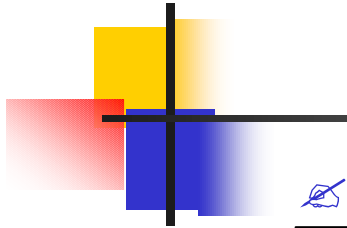
DMI	Mgmt Program Platform	Component
SNMP	V1.x	V2.0
CMIP	OSI	7 Layer
WBEM	Web User Interface View	
CIM		
WMI	WBEM Interface	Microsoft

Windows NT Server

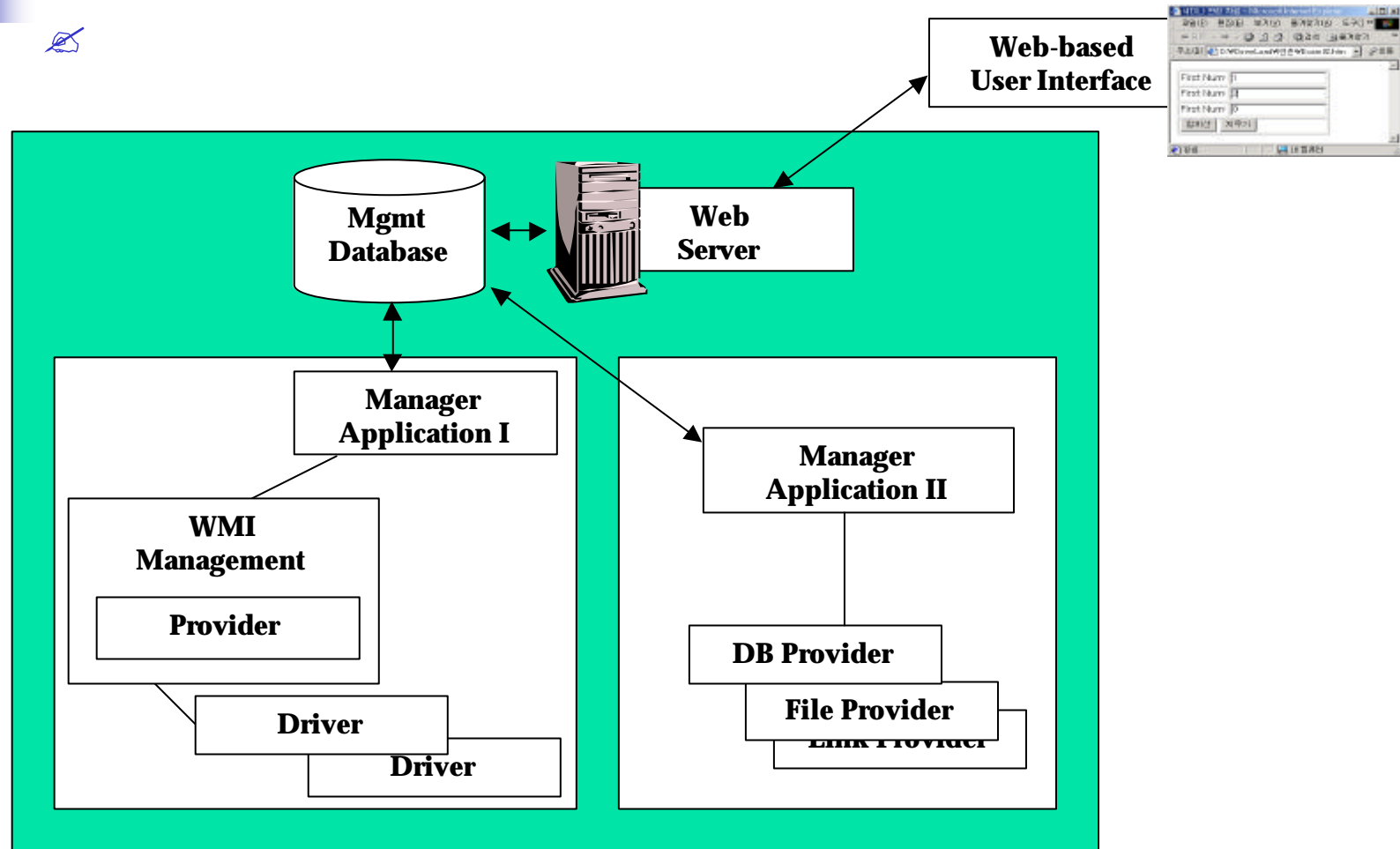
	,
	가 (VPN), , QoS 가
	CPU 가
	,
	<p>Microsoft Management Console(MMC)</p> <p>.</p> <p>Windows Management Infrastructure(WMI) DMTF Common Information Model(CIM)</p> <p>MSFT</p> <p>WMI</p> <p>,</p>

WBEM(Web-based Enterprise Mgmt) Architecture



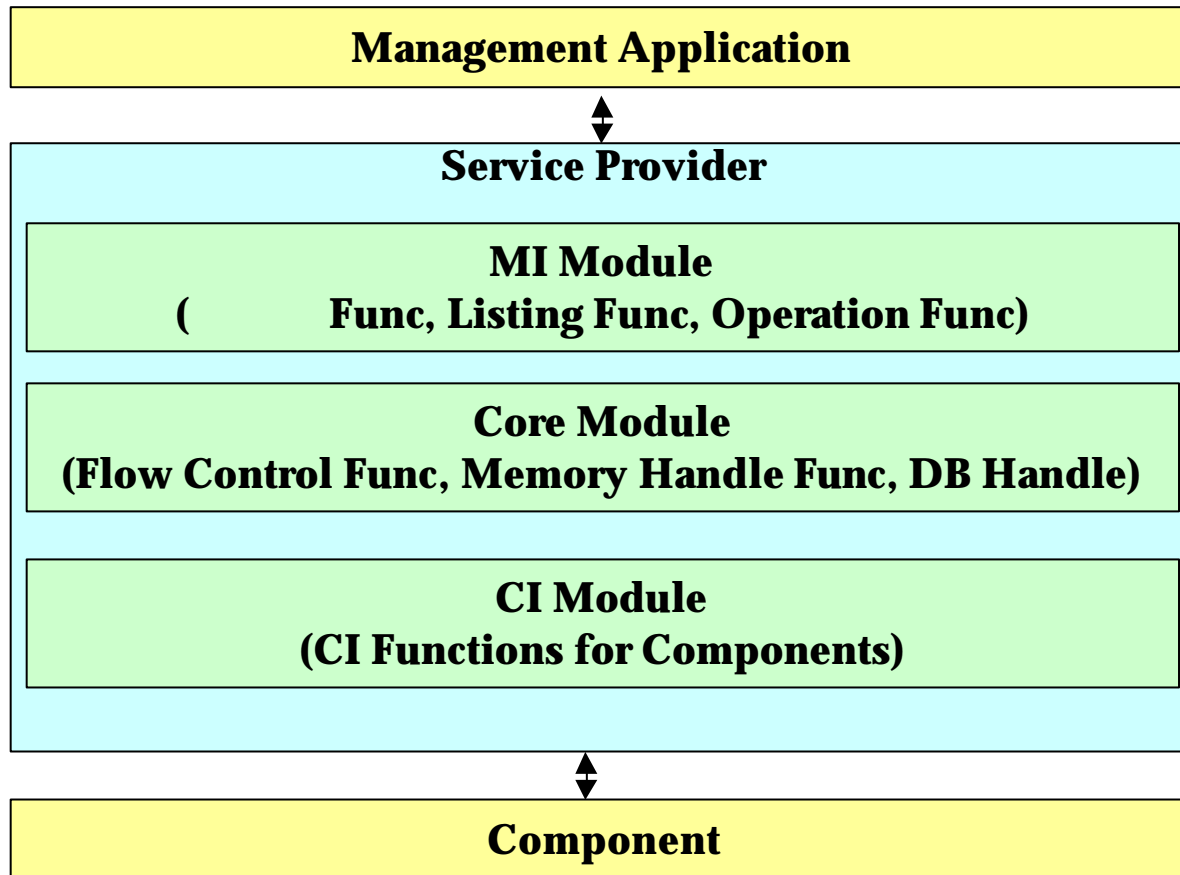


(1)



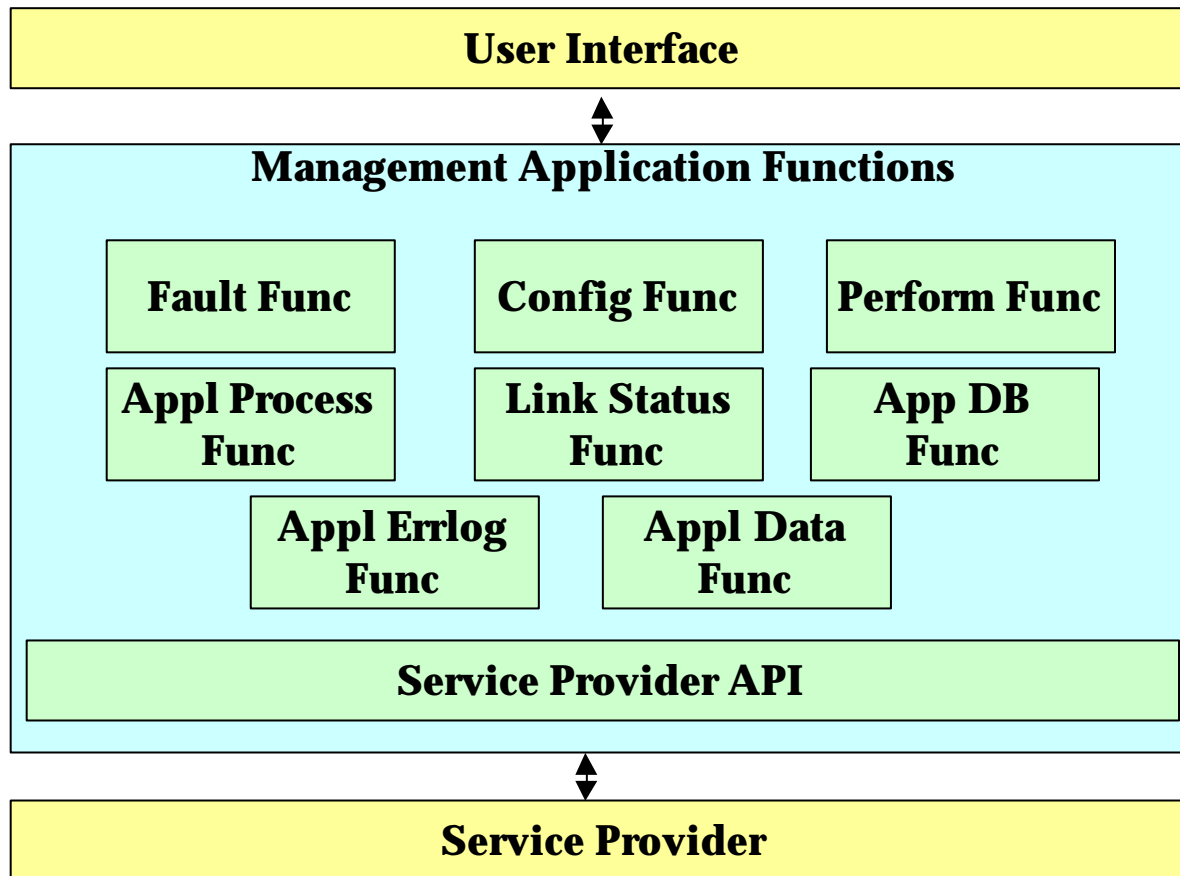
(2)

Service Provider



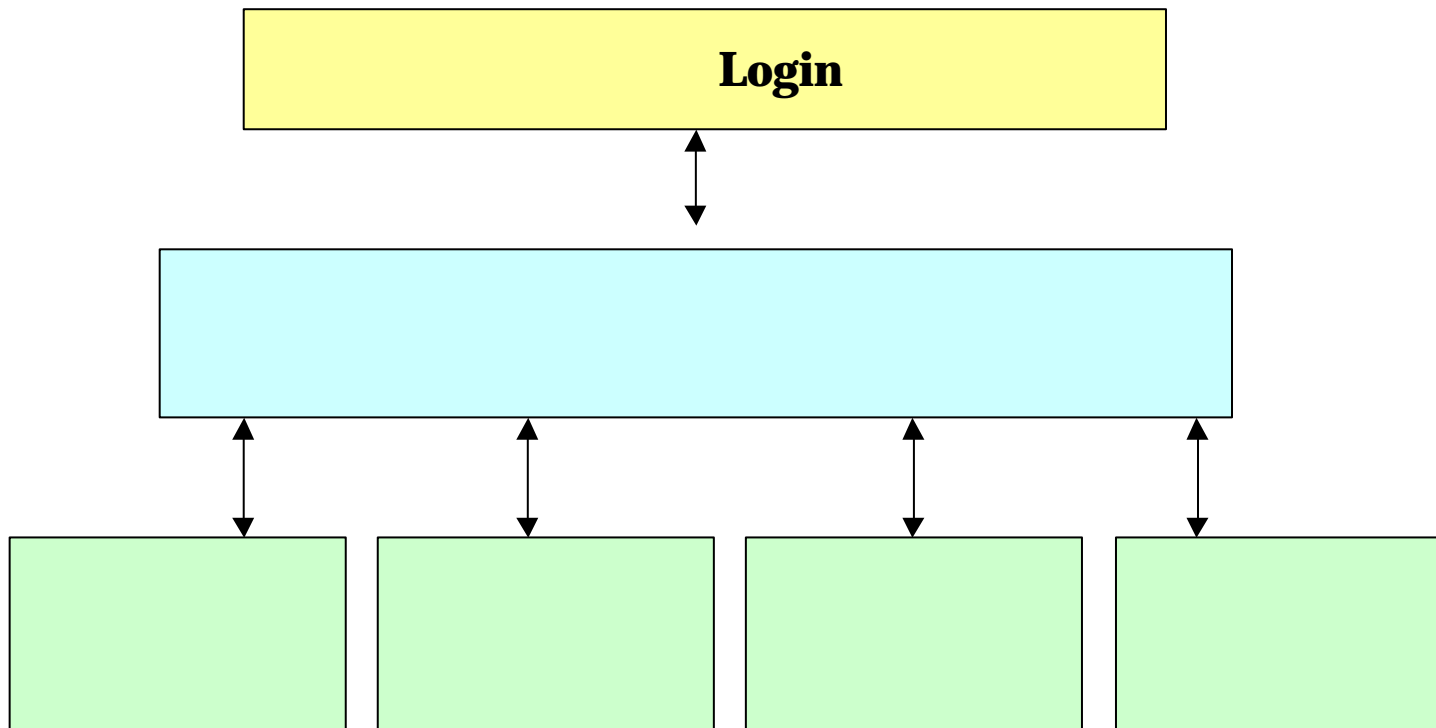
(3)

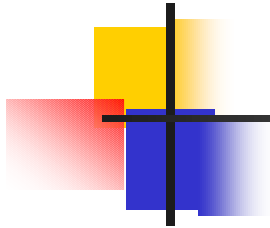
Manager Application



(4)

User Interface





✍ Pentium III Class Computer

✍ 128 MB RAM

✍ 300 MB of Available Hard Disk Space



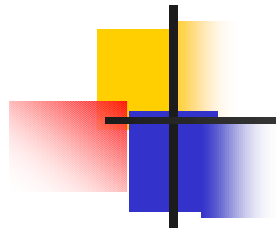
✍ Windows NT Service Pack 5 , Windows 2000

✍ WMI SDK(WMICORE.exe, WMISDK.exe)

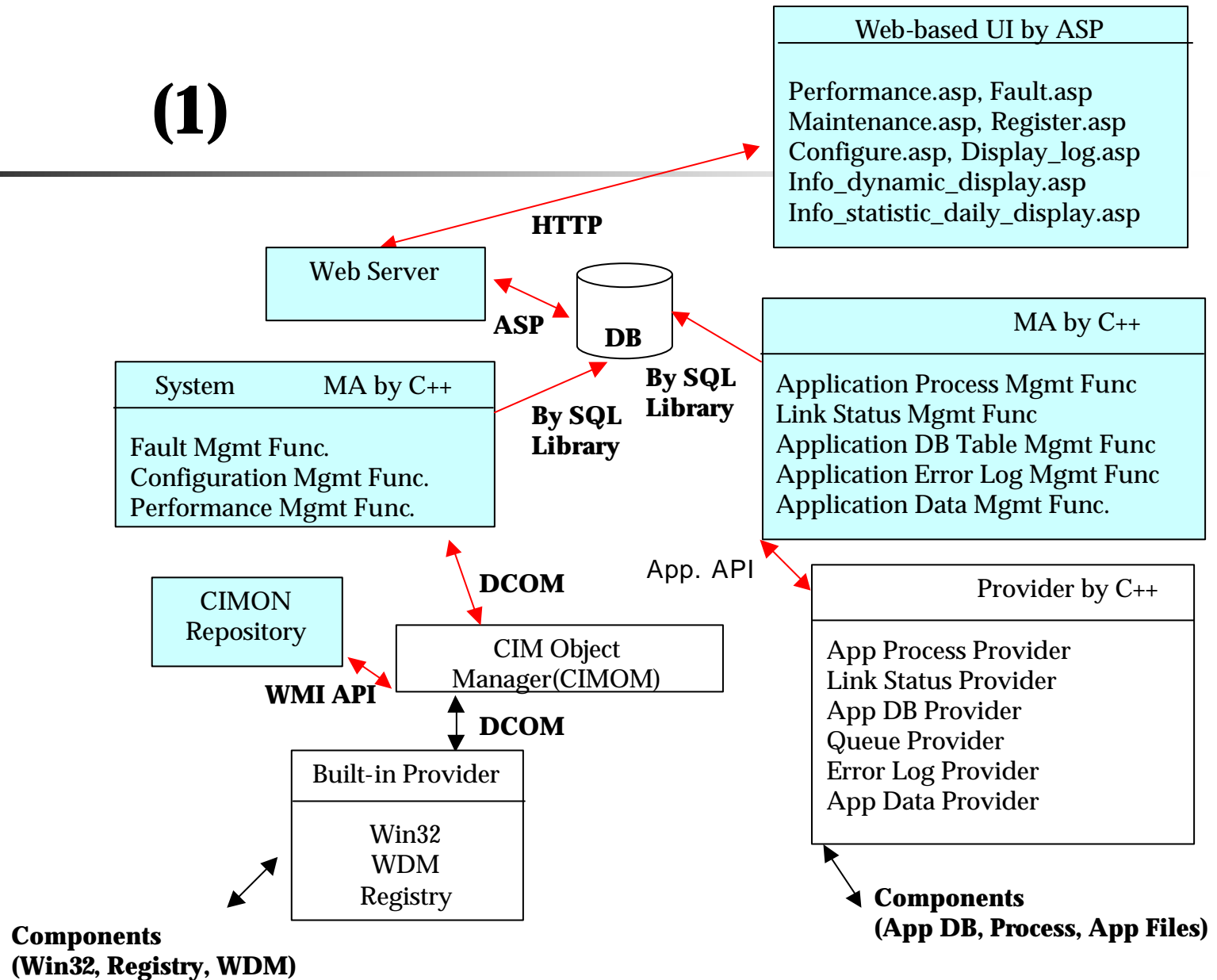
✍ IIS(Internet Information Server)



✍ Visual C++ 6.0 Compiler



(1)



(2)



 **Built-in Service Providers**

Built-In Providers	
WDM Provider	Device Driver Data Event Access
Win32 Provider	Win32 Subsystem Data Access
Registry Provider	Registry Data Access

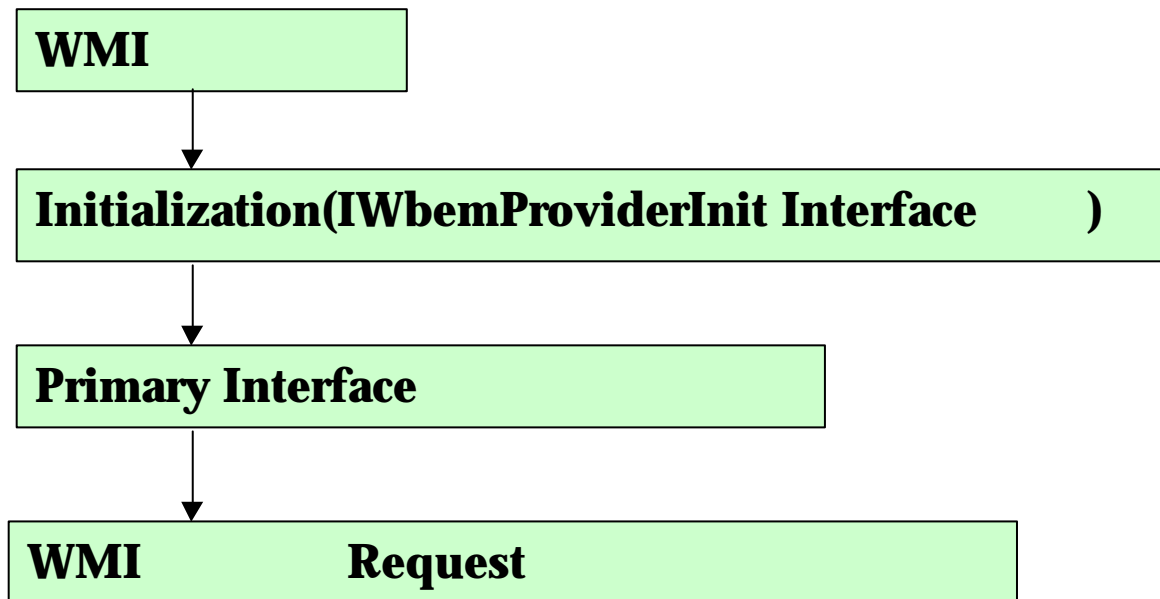
(3)

Service Providers

Providers	
App Process Provider	Application Process File Global Table Access
Link Status Provider	Access ,
App DB Provider	Application DB Table .
Queue Provider	Printer Access
Error Log Provider	.
App Data Provider	Access .

(4)

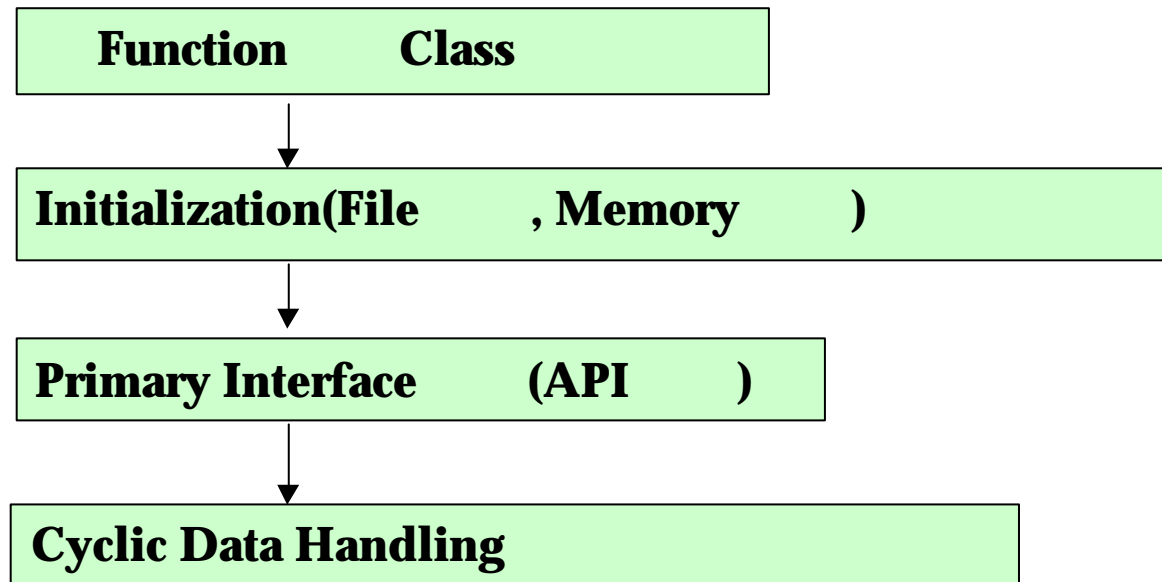
 **Built-In Service Provider Flow**



(5)

Provider

Flow



(6)

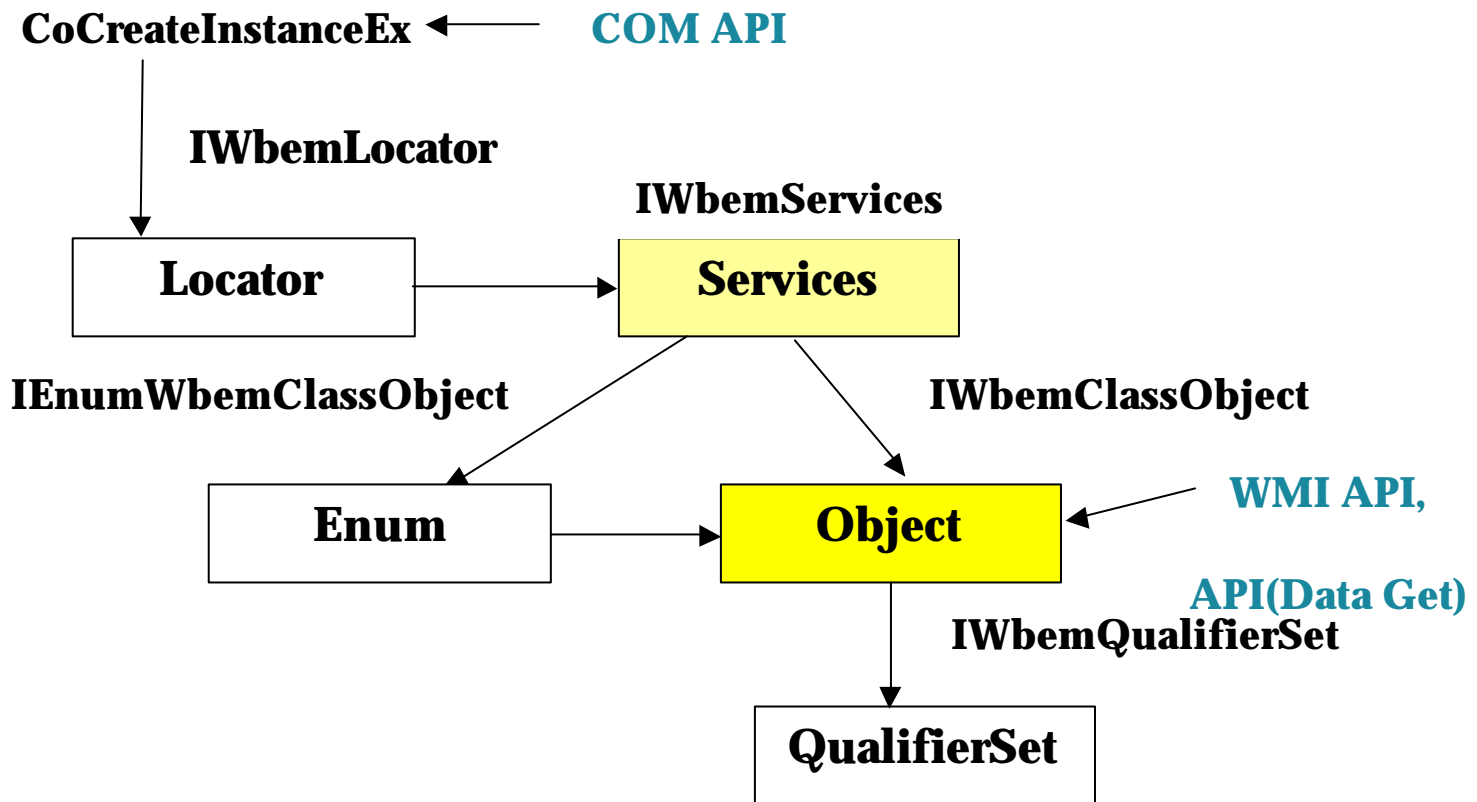


 **Management Application**

Management Application	Fault Management Function Configuration Management Function Performance Management Function
Management Application	Application Process Mgmt Function Link Status Mgmt Function Application DB Table Mgmt Function Application Error Log Mgmt Function Application Data Mgmt Function

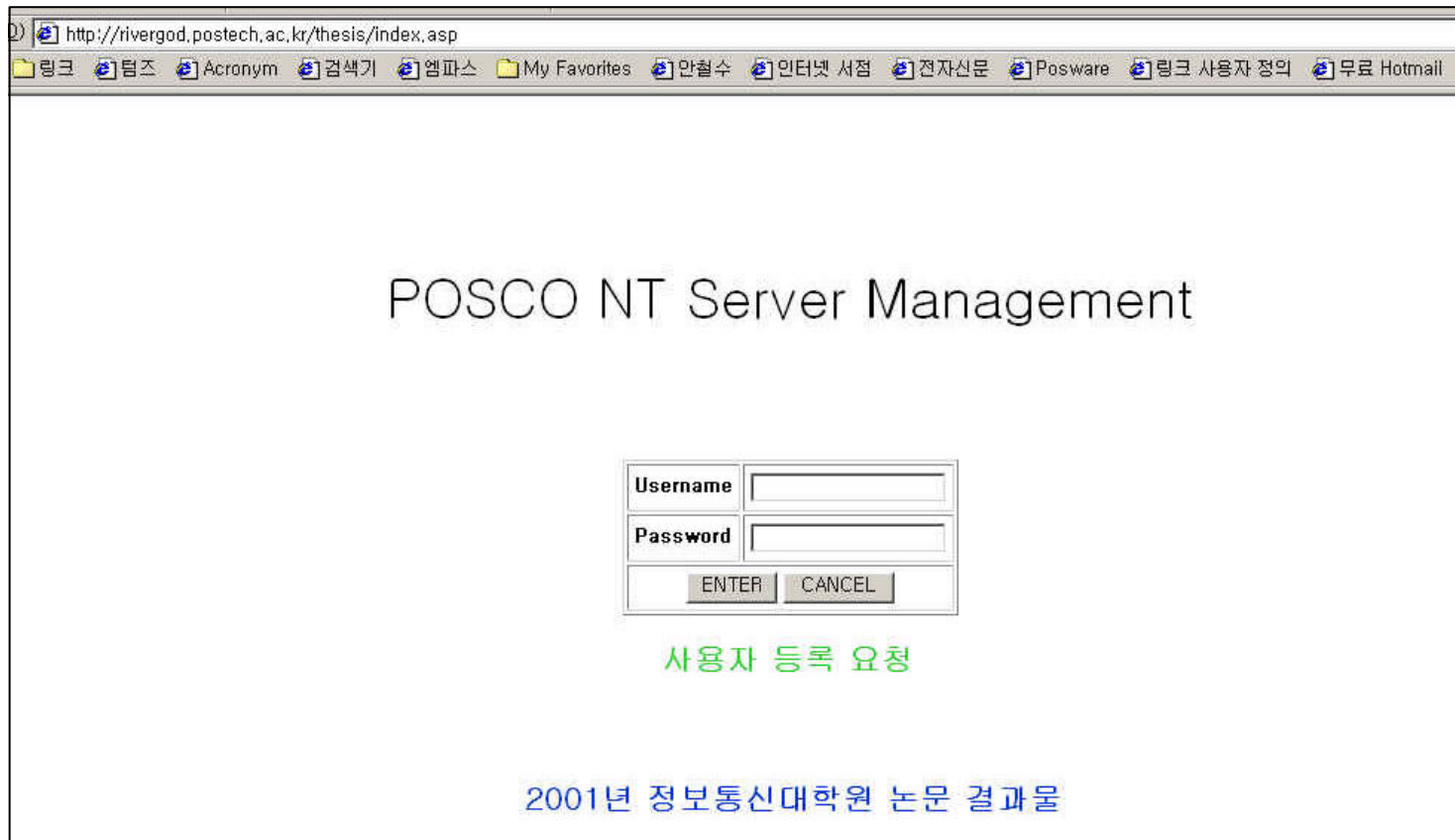
(7)

Management Application Flow



(GUI)

 **Login :**



http://rivergod.postech.ac.kr/thesis/index.asp

링크 팀즈 Acronym 검색기 엠파스 My Favorites 안철수 인터넷 서점 전자신문 Posware 링크 사용자 정의 무료 Hotmail

POSCO NT Server Management

Username	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="ENTER"/> <input type="button" value="CANCEL"/>	

사용자 등록 요청

2001년 정보통신대학원 논문 결과물

(GUI)

Main Menu

주소(D) http://rivergod.postech.ac.kr/Thesis/main.asp

연결 링크 탐즈 Acronym 검색기 엠파스 My Favorites 안철수 인터넷 서점 전자신문 Posware

posco
NT Server 관리시스템

- 서버등록
- 알람설정
- 로그확인
- 성능관리
- 장애관리
- 운영관리
- HDD정보
- 수집상태
- 일간정보
- 화면종료

공정 제어 관리대상 상태감시(01-10-22 오전 2:43:47)

서버 이름	감시	CPU	OS	HDD	검색일시
niger	OK	OK	OK	OK	
rivergod	OK	OK	OK	NOK	12/18/00 03:40:28
sumjin	NOK	NOK	NOK	NOK	

Windows NT 서버 등록 관리

관리 목록(삭제시 체크) 서버 추가

<input type="checkbox"/> niger	서버명	-
<input type="checkbox"/> rivergod	최초설치일	01-10-22
<input type="checkbox"/> sumjin	관리자	-
	E-mail	-
	연락처	-
	적용	

(GUI)

주소(D) http://rivergod.postech.ac.kr/Thesis/main.asp

결 링크 팀즈 Acronym 검색기 엠파스 My Favorites 안철수 인터넷 서점 전자신문 Posware 링크 사용자 정의 무료 Hotmail

posco
IT Server 관리시스템

공정 제어 관리대상 상태감시(01-10-22 오전 2:50:15)

서버 이름 감시 CPU OS HDD 검색일시

niger	OK	OK	OK	OK	
rivergod	OK	OK	OK	NOK	12/18/00 03:40:28
sumjin	NOK	NOK	NOK	NOK	

운영관리

[시스템 추가]

번호	등록자	시스템 명칭	수정일	조회수	파일
9	허인	주물선고로 공정제어 컴퓨터 시스템	00-08-27	52	
8	허노근	3고로 공정제어 컴퓨터 시스템	00-08-24	19	
1	변규석	제선종합관제 시스템	00-12-09	45	
60	허인	FINEX 공정제어 컴퓨터 시스템		0	
59	허노근	4고로 공정제어 컴퓨터 시스템		0	

제목 [1 / 1]

[이전] [1] [다음]

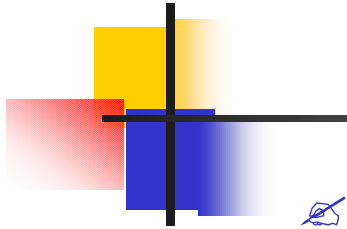
서버등록
알람설정
로그확인
성능관리
장애관리
운영관리
HDD정보
수집상태
일간정보
화면종료

(GUI)

관리대상 정보조회(rivergod)

서버명	rivergod
Domain	DPNM
OS	Microsoft Windows NT Server
OS Ver.	
CPU Name	Intel Pentium III processor
Number of CPU	1
CPU Speed	0
Physical Memory	0 KB
Virtual Memory	0 KB
Total Disk space	4192964 KB
Free Disk space	1208288 KB
File System	NTFS
관리자	허 인
E-mail	hihurin@postech.ac.kr
연락처	279-5653
설치일	00-02-10
OS설치일	19990102

서버정보 다시 읽기



Server

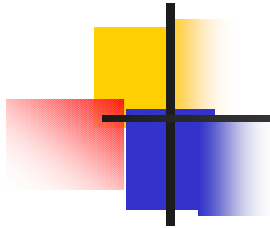


가



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**Windows NT Server
WBEM Architecture
Web User Interface**



**3
(2002.3)**

**Back-End Program
Windows NT Server**