

IBS-800 Training Course Agenda

Day 1 General Introduction
 - System description
 - Hardware configuration
Hardware Installation
OAM programming description

Day 2 Installation Exercise
 Q&A

Intelligent Business System

IBS-800

Introduction

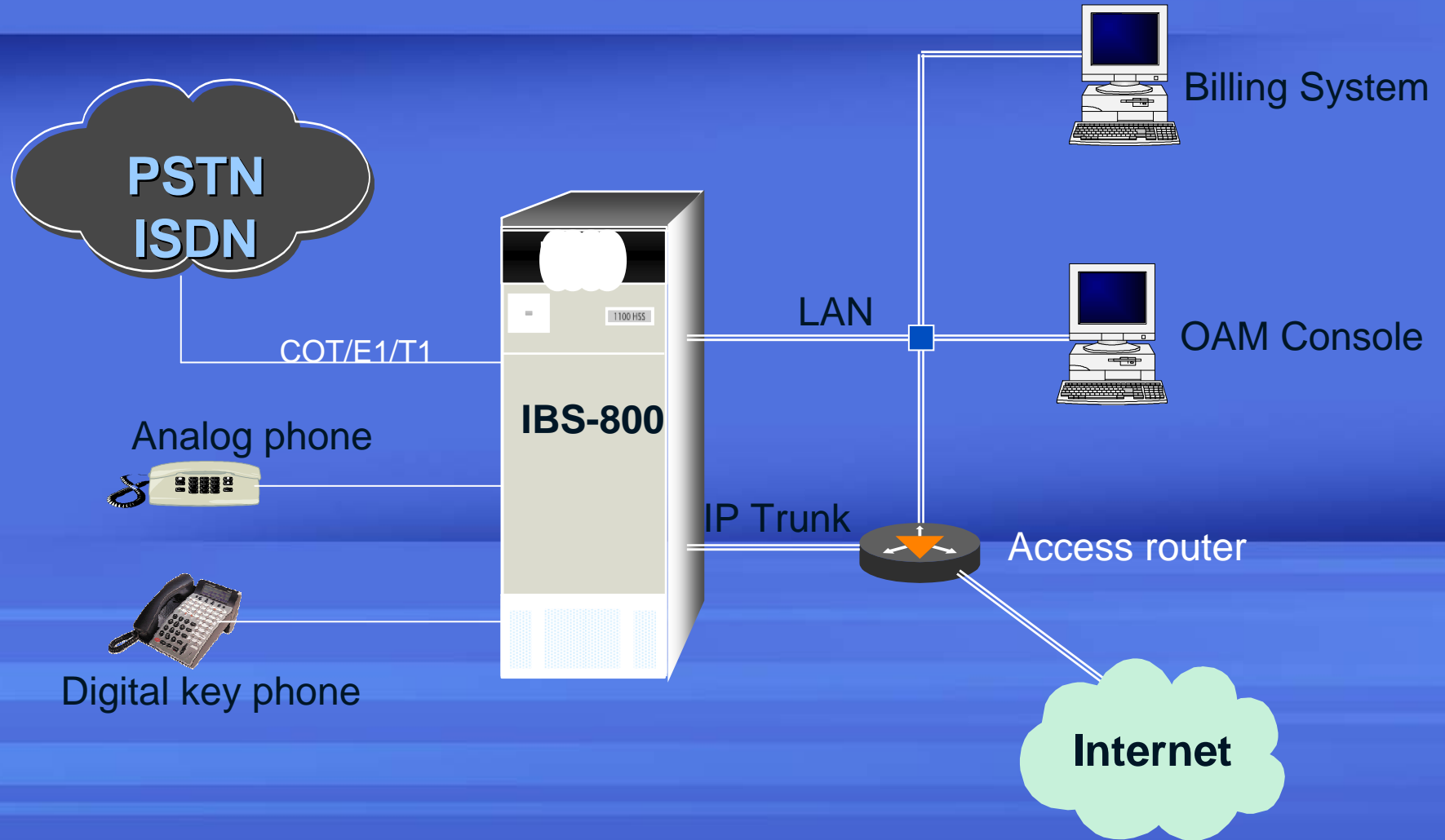
The IBS-800, as a platform of telecommunication, offers all the modern functions and services.

It can provide versatile network (ISDN, Internet, PSTN) access ability and customize application with intelligent integration to satisfy enterprises' various requirements.

System Characteristics

- The modular and distributed processing structure design
- Universal port design
- Extension module Expandable flexibly
- Hot insertion design
- Versatile networking capability (ISDN, Internet, PSTN)
- Wide application
- Remote maintenance via LAN or WAN
- Reliable quality and low cost

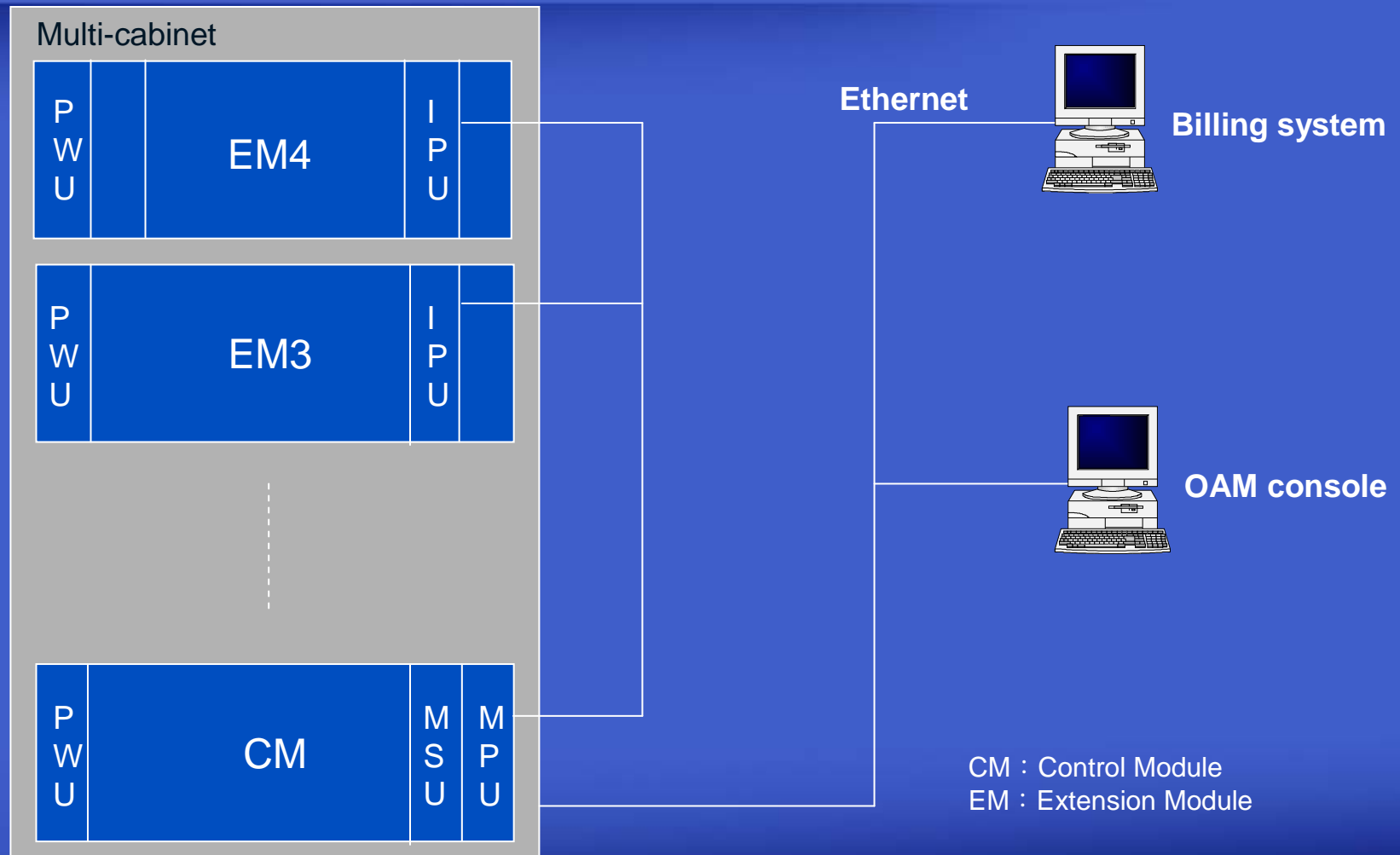
System Architecture



System Configuration - I

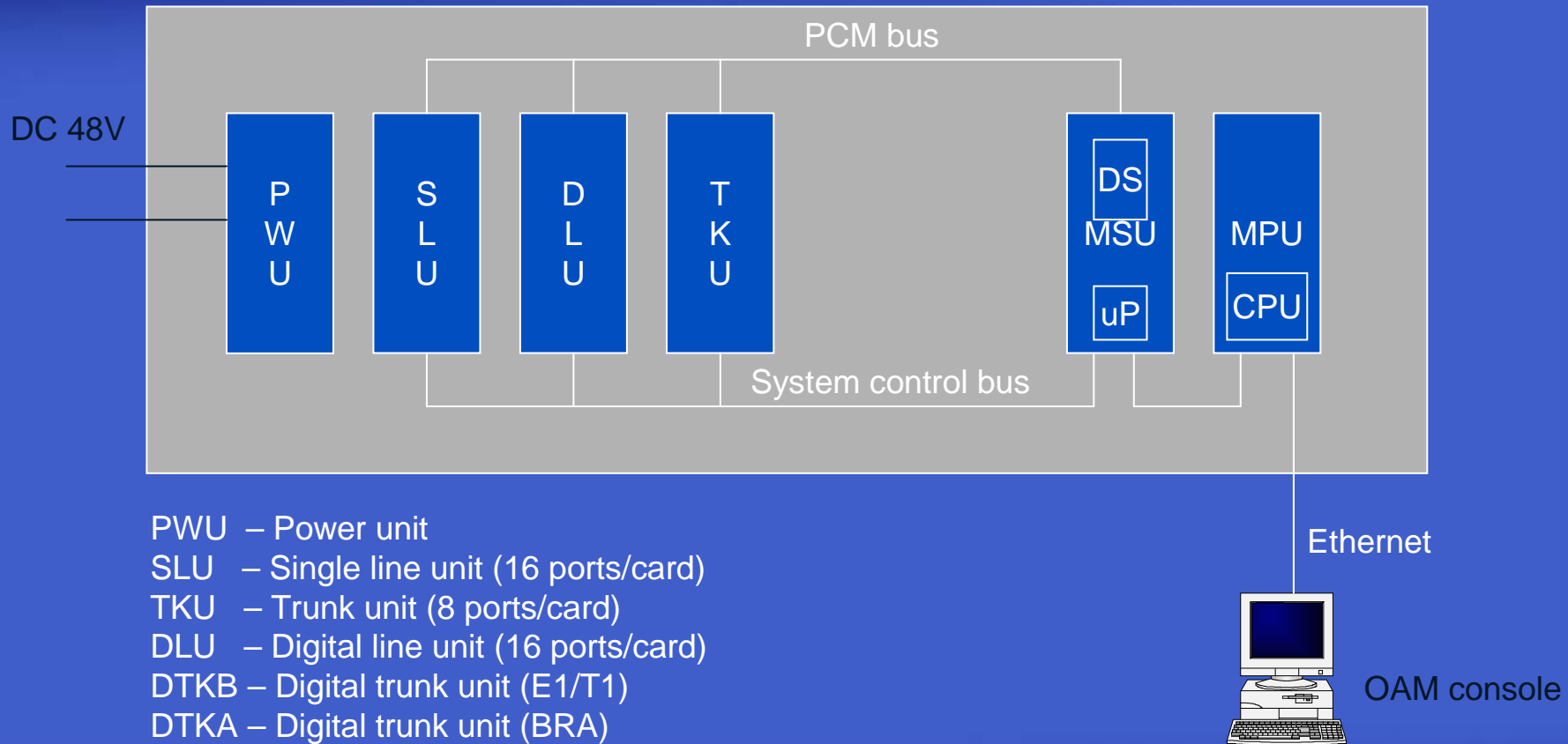
19' Rack

Multi-cabinet



System Configuration – Control Module

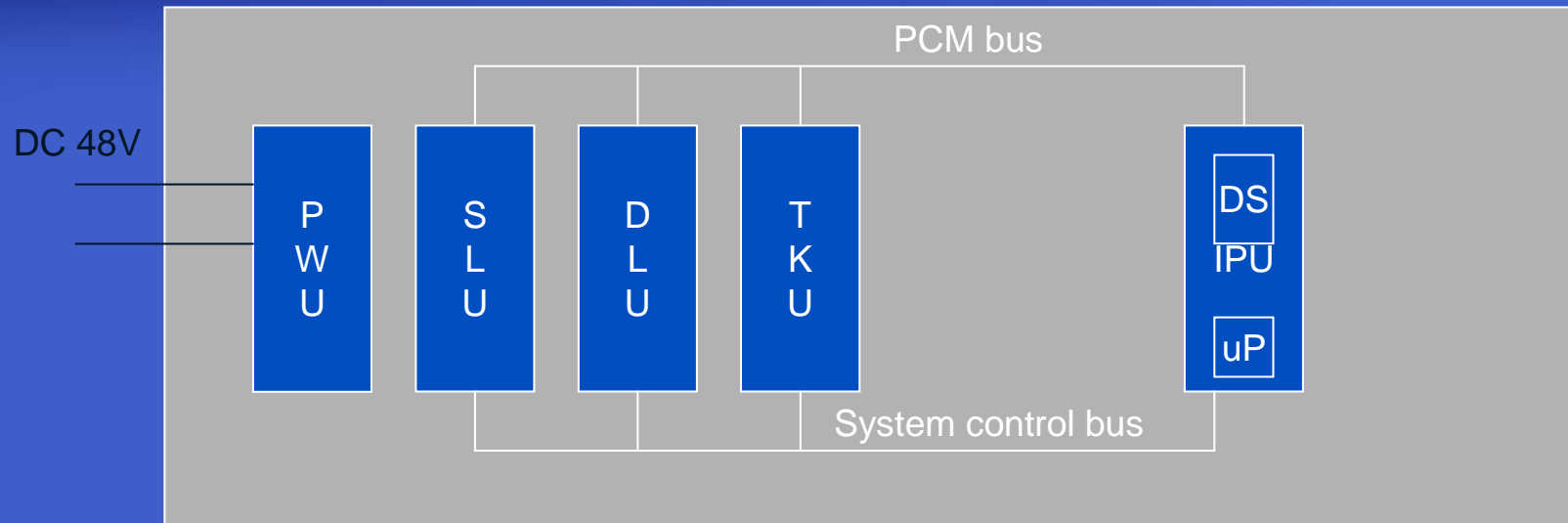
One Cabinet (8 free slots, including MPU, MSU, PWU)



- PWU – Power unit
- SLU – Single line unit (16 ports/card)
- TKU – Trunk unit (8 ports/card)
- DLU – Digital line unit (16 ports/card)
- DTKB – Digital trunk unit (E1/T1)
- DTKA – Digital trunk unit (BRA)
- MSU – Main switch unit
- MPU – Main processing unit
- IPU – Interface processing unit

System Configuration – Extension Module

One Cabinet (8 free slots, including IPU, PWU)



- PWU – Power unit
- SLU – Single line unit (16 ports/card)
- TKU – Trunk unit (8 ports/card)
- DLU – Digital line unit (16 ports/card)
- DTKB – Digital trunk unit (E1/T1)
- DTKA – Digital trunk unit (BRA)
- MSU – Main switch unit
- MPU – Main processing unit
- IPU – Interface processing unit

System Standard Features - I

- Account Code
- Auto Accessing Trunk
- Auto Answer
- Auto Pick up
- Call Transfer
- Call Park
- Call Split
- Call Forward
- Conference call
- Console Grouping
- Day / Night Service
- Direct Inward Dialing (DID)
- Direct Inward Station Access (DISA)
- Grouping
- Group Call

System Standard Features - II

- Grouping Hunting
- Hot Line
- Illegal Outgoing Protection
- Intercom Busy Reminder
- Internal Music Source
- Key Station short Protection
- Paging
- PSTN Line Polarity Reverse
- Lightning Protection
- Message Waiting
- Music on Hold
- Speed Dialing

System Standard Features - III

- Subscriber Line Polarity Reverse
- Power Failure Telephone
- Private Line
- Station Message Details Report (SMDR)
- System Alarm
- Toll Restriction
- Tone / Pulse Dialing
- Trunk Queuing

System Optional Features - I

- 12 / 16 KHz Metering Pulse Detection
- Auto Attendant & Voice Mail
- Callers ID Number Identification (Caller ID)
- CTI Link (Over Ethernet or RS232)
- Hotel / Motel Function w/o PC
- ISDN E1/T1 Compatible
- Power Failure Transfer
- Remote System Maintenance
- Unified Message
- VoIP Trunk Gateway

Special Function on the phone

1. ##1 for extension number display on single line phone (single line phone only)
2. ##2 for MPU IP address display and modify (key phone only)
3. ##3 for MPU IP address communication port (key phone only)
4. ##6 for setting extension number

Technical Specification I

Input Voltage	DC-48 \pm 8 V
Consumption	Max 1250W @ 640 ports
Ring output	25Hz, AC 80 Vrms
Free slots	8 slots / cabinet
Capacity	Max 640 ports / system
Switching Technology	TDM/PCM
Loop resistance	Line \leq 1800 Ω DC
	Trunk \leq 250 Ω DC

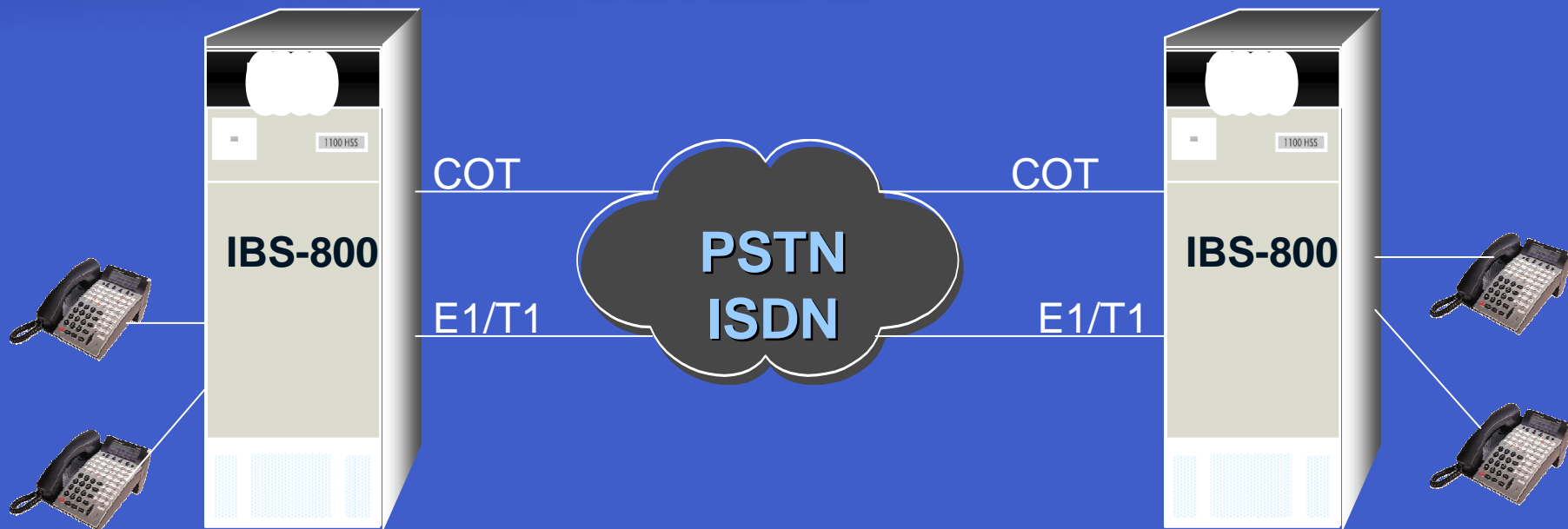
Technical Specification II

IP Trunk	Protocol	H.323, SIP
	Compression	G.723.1, G.729ab
	Echo cancellation	G.165, G.168
	FAX	T.30, T.38
ISDN	Protocol	BRI/PRI standard
CTI link	Interface	RS232, Ethernet
	Protocol	Proprietary

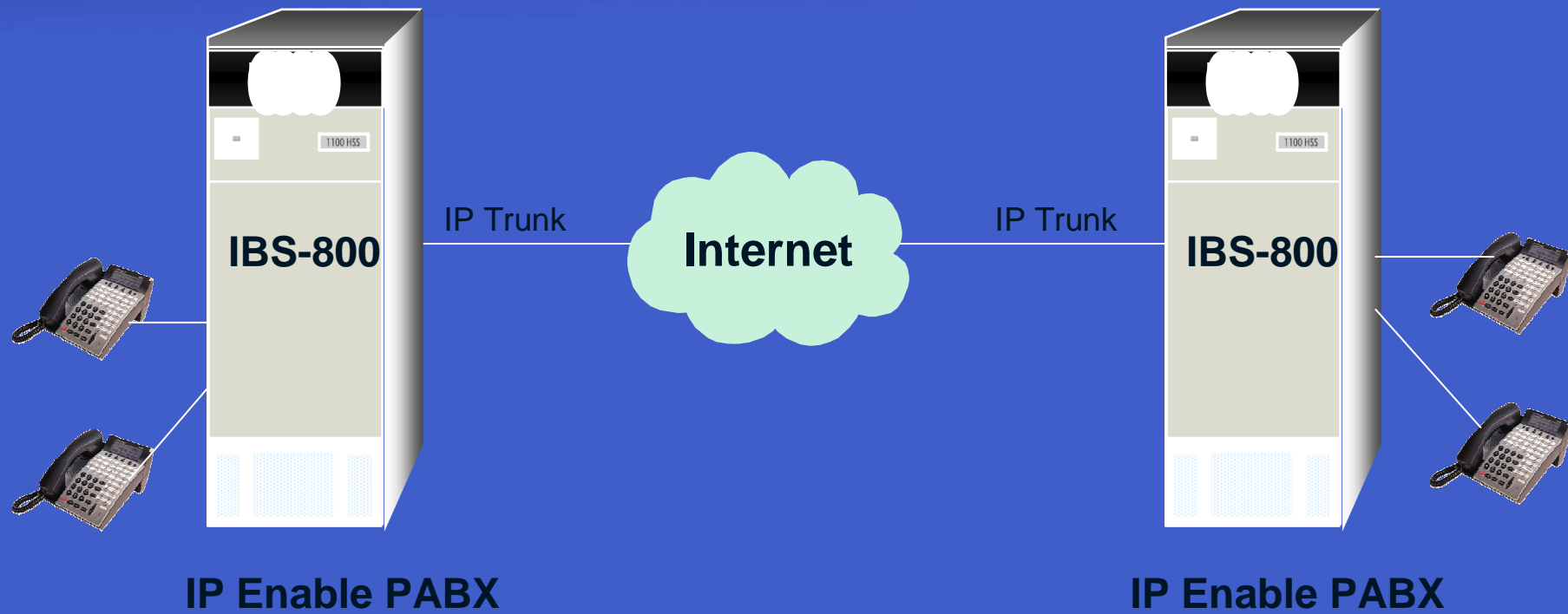
Numbers of Lines and System Capacity

Description	1CM	1CM+1EM	1CM+2EM	1CM+3EM	1CM+4EM
Conventional Telephone	128	256	384	512	640
Digital Key phone	128	256	384	512	640
C.O. Trunk	64	99	99	99	99
E1 Trunk	99	99	99	99	99

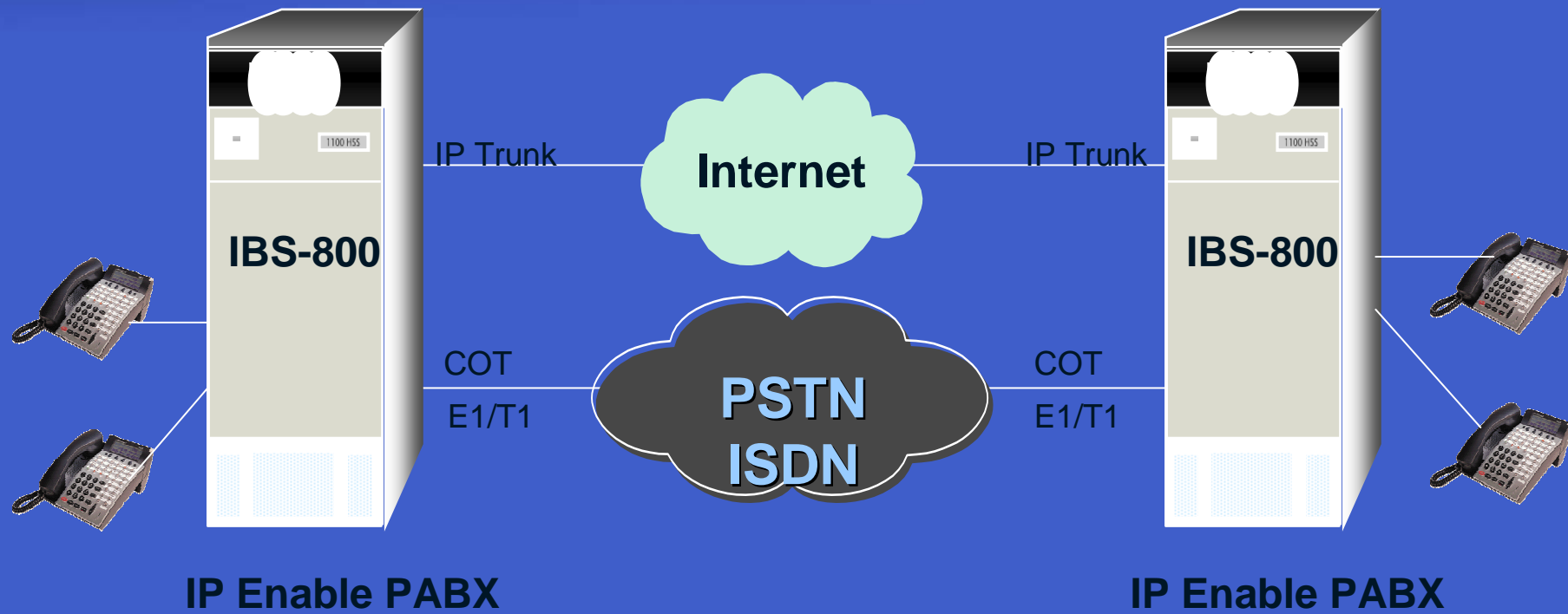
PSTN / ISDN Network



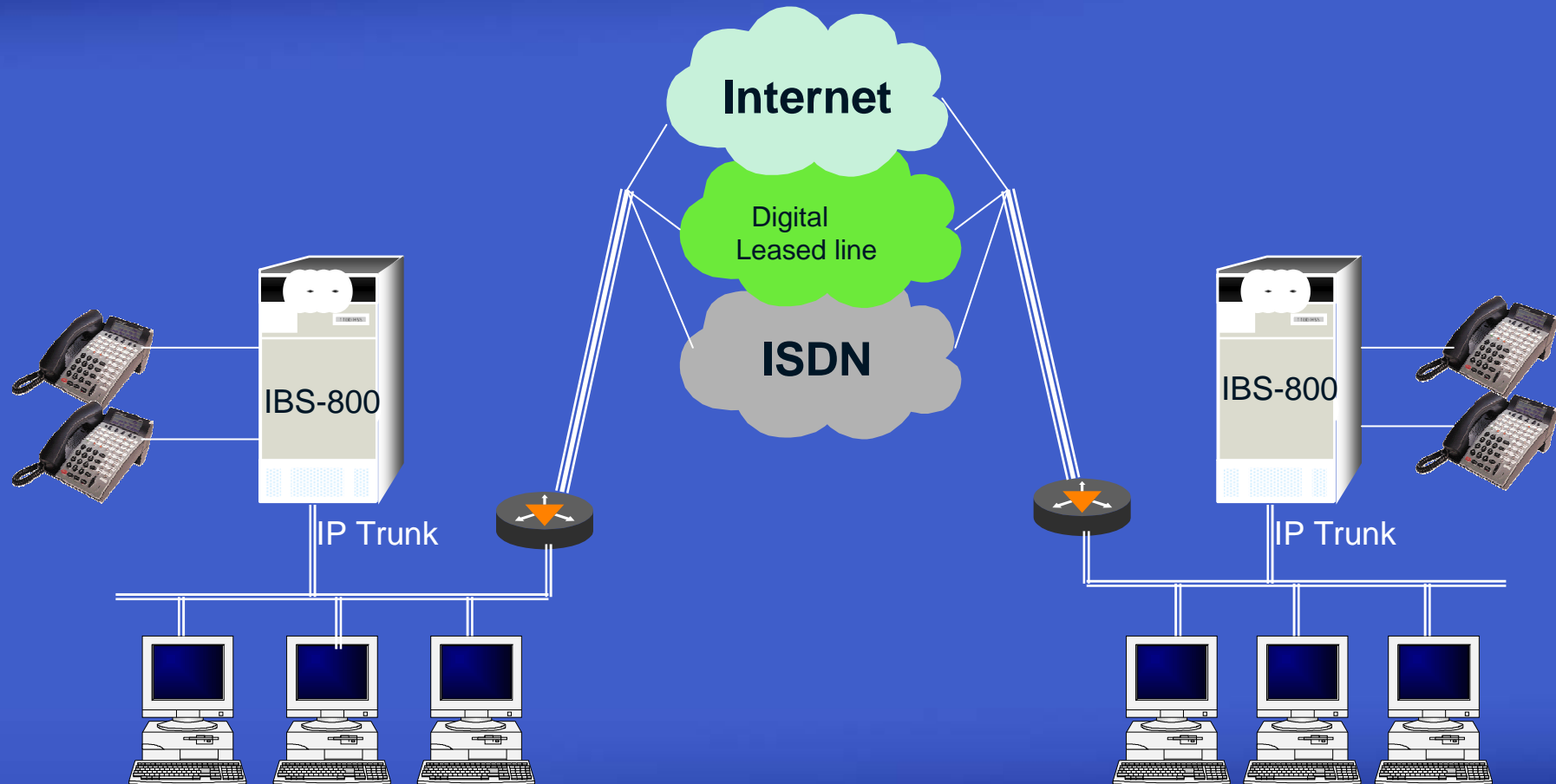
Voice over IP Network



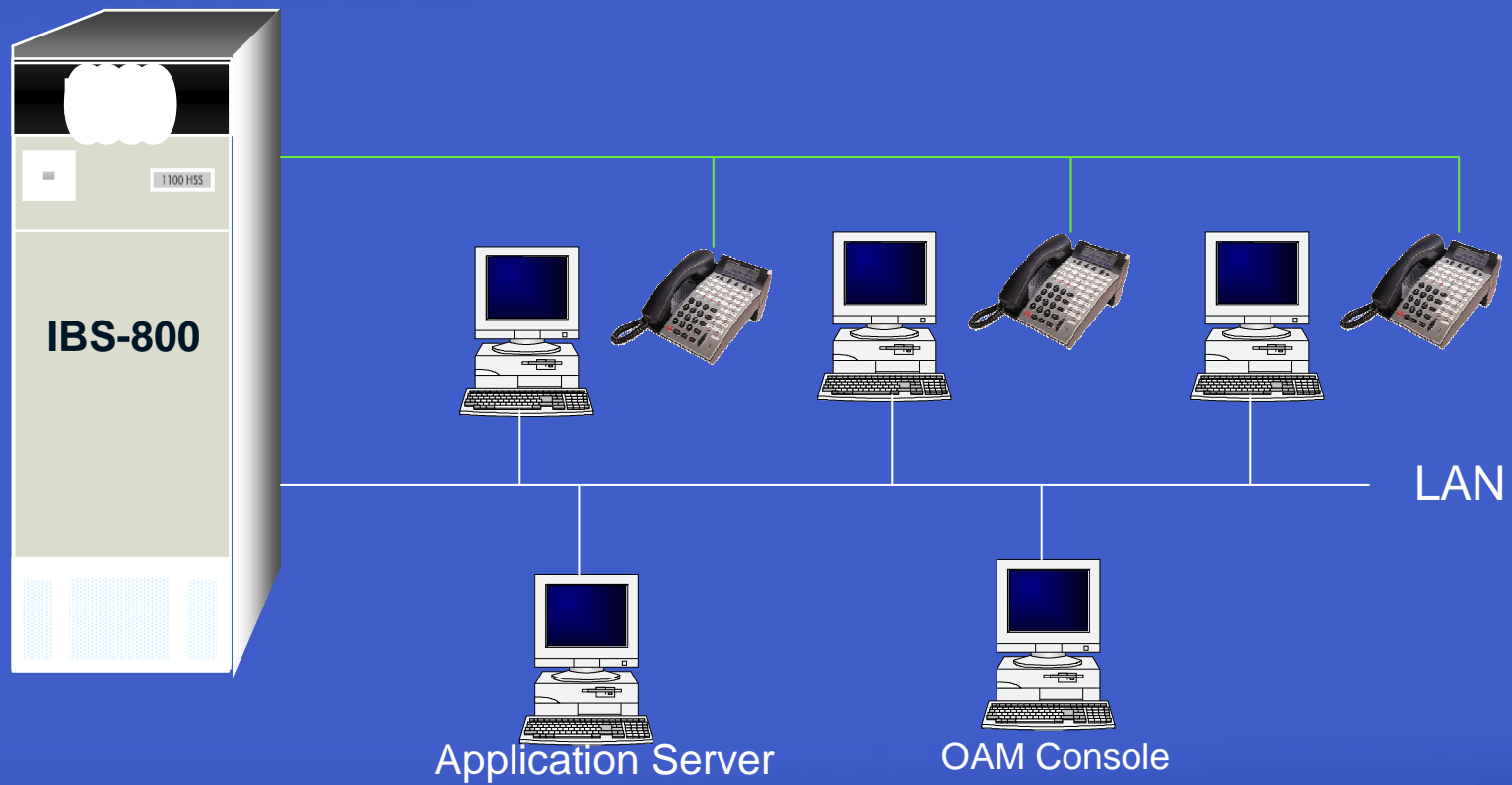
Voice Network III



Data & Voice Integrated Network



CTI Architecture



Digital Key Phone - I



- 25 DSS function keys
- 2 x 16 digits LCD display
- Adjustable LCD angle
- Handsfree dialing
- 8 level volume control
- One touch paging
- Selectable ringing frequency
- 20 keys Tri status dual color LED
- Calculator function

DKP-51/53 (B)

Digital Key Phone - II

DKP-73



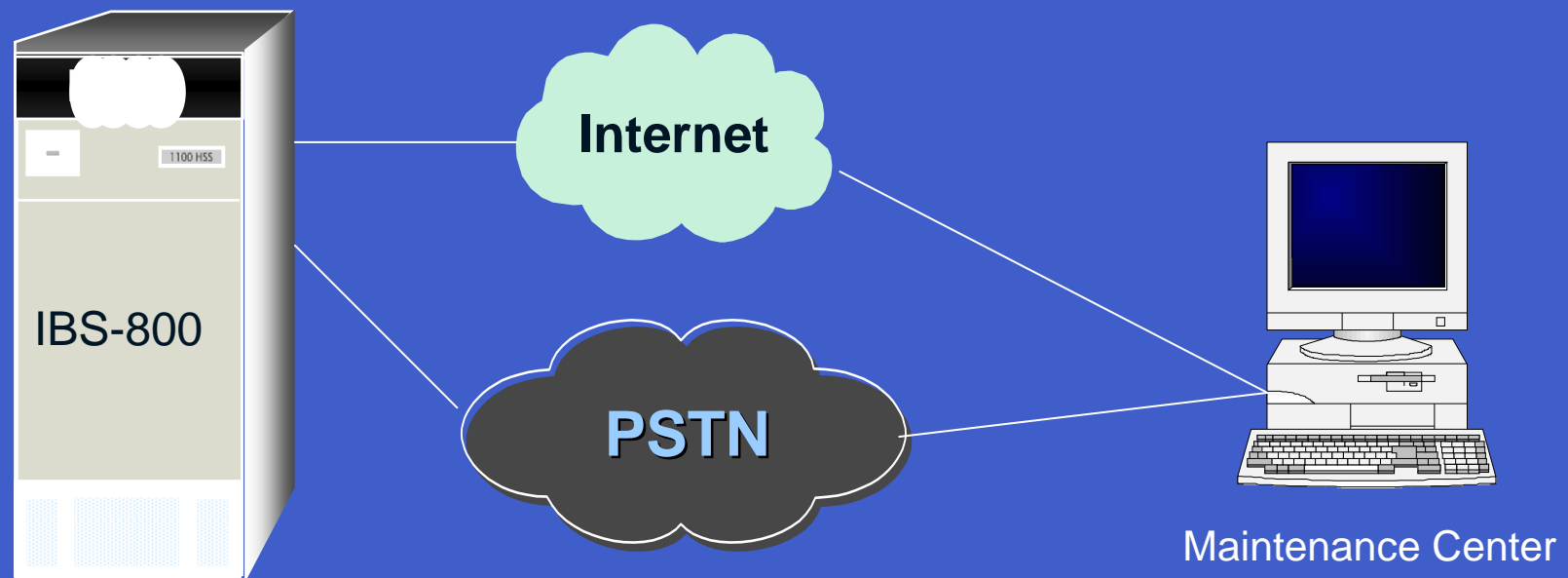
- 22 DSS function keys
- 2 x 16 digits LCD display
- Adjustable LCD angle
- Handsfree dialing
- 8 level volume control
- One touch paging
- Selectable ringing frequency
- 20 keys Tri status dual color LED
- Calculator function

Maintenance

- Self diagnosis
- Fault messages
- Alarm indication
- Remote system maintain

Remote System Maintenance

System data and software can be changed remotely



Operation, Administration and Maintenance (OAM)

- Professional Management and Programming Software
- Users Friendly Operation
- Under Windows 2000 / Windows XP
- Enable download and upload the updated firmware and parameters
- Remote Programming
- Supports online or off-line maintenance

Contents in OAM

1. Basic Data Setting
 - System configuration information
 - Time setting
 - Function setting
 - System parameters
 - Ringing stations setting
 - Stations assignment
 - CO lines assignment
 - Internet lines assignment

Contents in OAM (continued)

2. Group information setting
 - Grouping Stations setting
 - Toll Restriction Station setting
 - DSS Definition setting
 - CO Group setting
 - CO Line Ringing group setting
 - One-digit DISA group setting
 - SPD CO group setting
 - Paging Station group setting
 - One-digit paging station setting
 - Door Station ringing group setting
 - One-digit paging CO line group setting

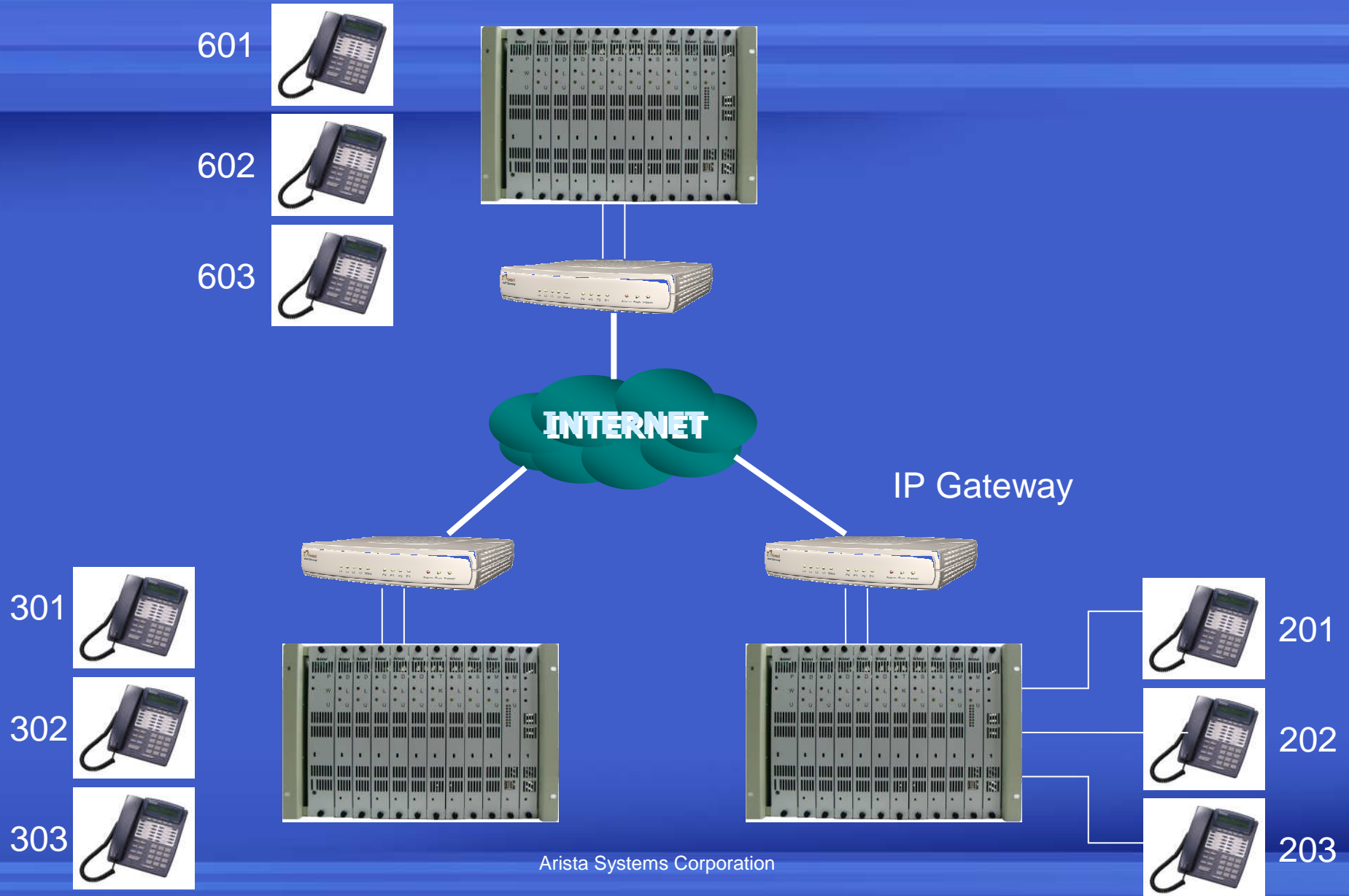
Contents in OAM (continued)

- 3 General Parameter Setting
 - Toll Restriction Plan setting
 - FAC password setting
 - SPD numbers setting
 - One-digit paging CO line group setting

Contents in OAM (continued)

- 4 System Parameter Setting
 - System Monitoring mode setting
 - System Function code setting
 - OAM parameters setting
 - OAM administrator setting
 - OAM Completion setting

IBS-800 + IP Gateway Integration Solution



Taipei

6XXX



LAN

E1

Taichung

3XXX



8FXS

8FXO



LAN

E1



Internet

E1

Kaohsiung

2XXX



8FXS

8FXO



LAN