



# TAS Asterisk PBX with Linksys by Cisco

**LINKSYS**<sup>®</sup> by Cisco





## *Asterisk agenda*

- About us
- What is Asterisk PBX?
- Benefits
- Features
- Application Integratgion (Asterisk)
- Asterisk Requirements
- Example of Asterisk Diagrams with Linksys by Cisco
- Questions & Answers



## *What is Asterisk?*

- Open-source Software, working on standardized protocols - SIP, H.323, etc so it can be used with multiple hardware vendors
- Using typical PC or Server, easy to maintain and upgrade
- Working on standard TCP/IP protocol suite
- Working with existing LAN cable (voice/video/data)
- Highly Expandable
- Software based, expandable features



## *Benefits*

- **Increased productivity**
  - Mobility or remote employees can answer call any where as if they were in the office.
  - Conference bridge feature enables you to host your small conference calls.
  - Integrated with applications such as CRM, IVR, Call Center, etc.



## *Benefits*

- **Cost savings**
  - Reduce long distance and overseas charges with VoIP technology
  - Simplified infrastructure moving phone traffic to your network eliminates the need to maintain two cabling system.



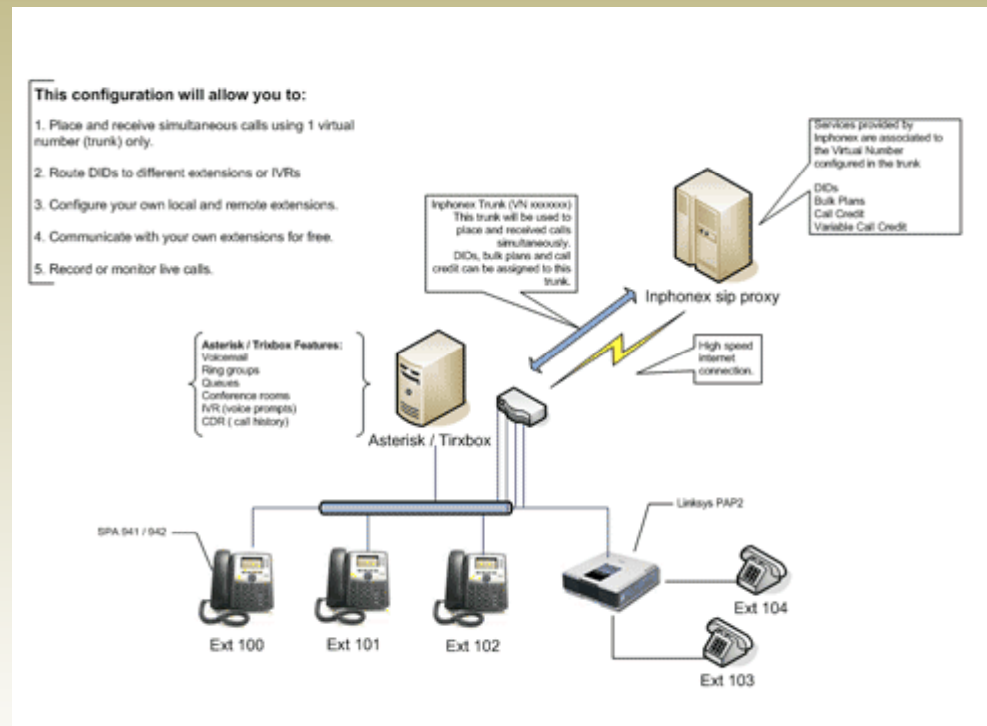
## *Benefits*

- **Cost savings**
  - Cutting costs for expansions or moves
  - Scalability asterisk PBX grows as you grow.
  - The flexible software based system makes it easy to add functionality later.



# Features

- Basic Feature
  - Caller ID
  - Call waiting
  - Call transfer
  - Call forward
  - Message Waiting
  - Light (MWI)
  - Music on Hold (MoH)





## *Advanced Features*

- Voicemail with e-mail delivery
- Auto attendant
- Call Routing (DID & ANI)
- Call monitoring
- Call ID Blocking
- Conference Bridge
- Call Conference
- Follow me rining
- Incoming call queues
- Interactive Voice Response (IVR)
- Asterisk Gateway interface (AGI)
- Direct inward system Access (DISA)
- Directory access



## *Application Integration (Asterisk)*

- Asterisk offers application thru AGI interface.
- Similar concept to CGI
- Offers choices of programming platforms
  - Java
  - PHP
  - Perl
  - Python

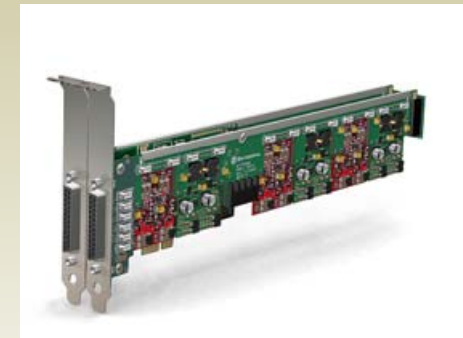


## *Asterisk Requirement*

- Hardware Reliability
  - Standard-Servers (PC)
  - Digital/Analog Interface card (Sangoma/Digium)
  - Hard phone (IP Phone) or soft phone
  - Media Link (ADSL / SDSL – Modems)
  - Switches (PoE switch)
  - QoS issues over the Internet connection
  - UPS



# *Samples of VoIP hardware*

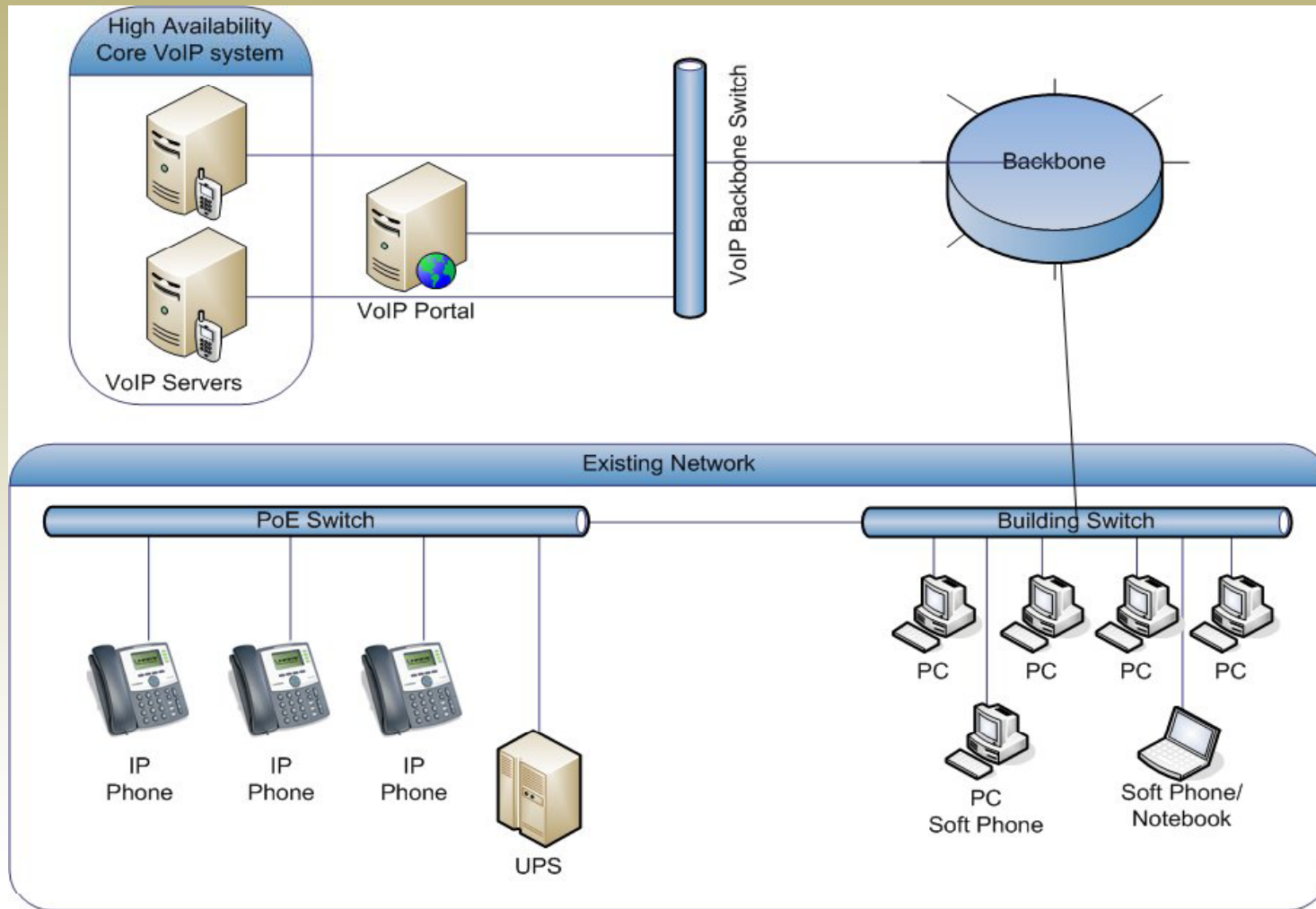


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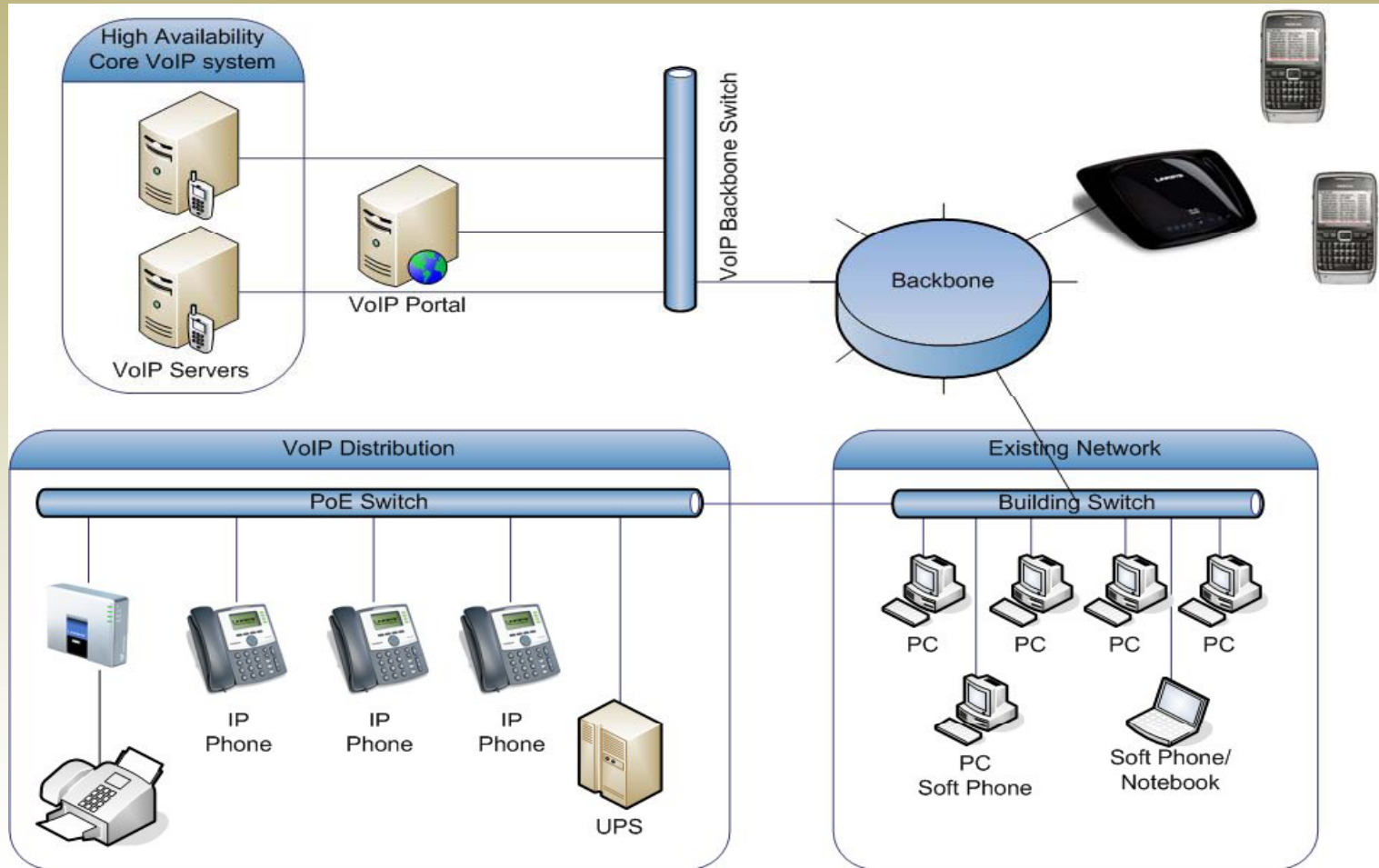
**TAS**



# Example Asterisk Diagram

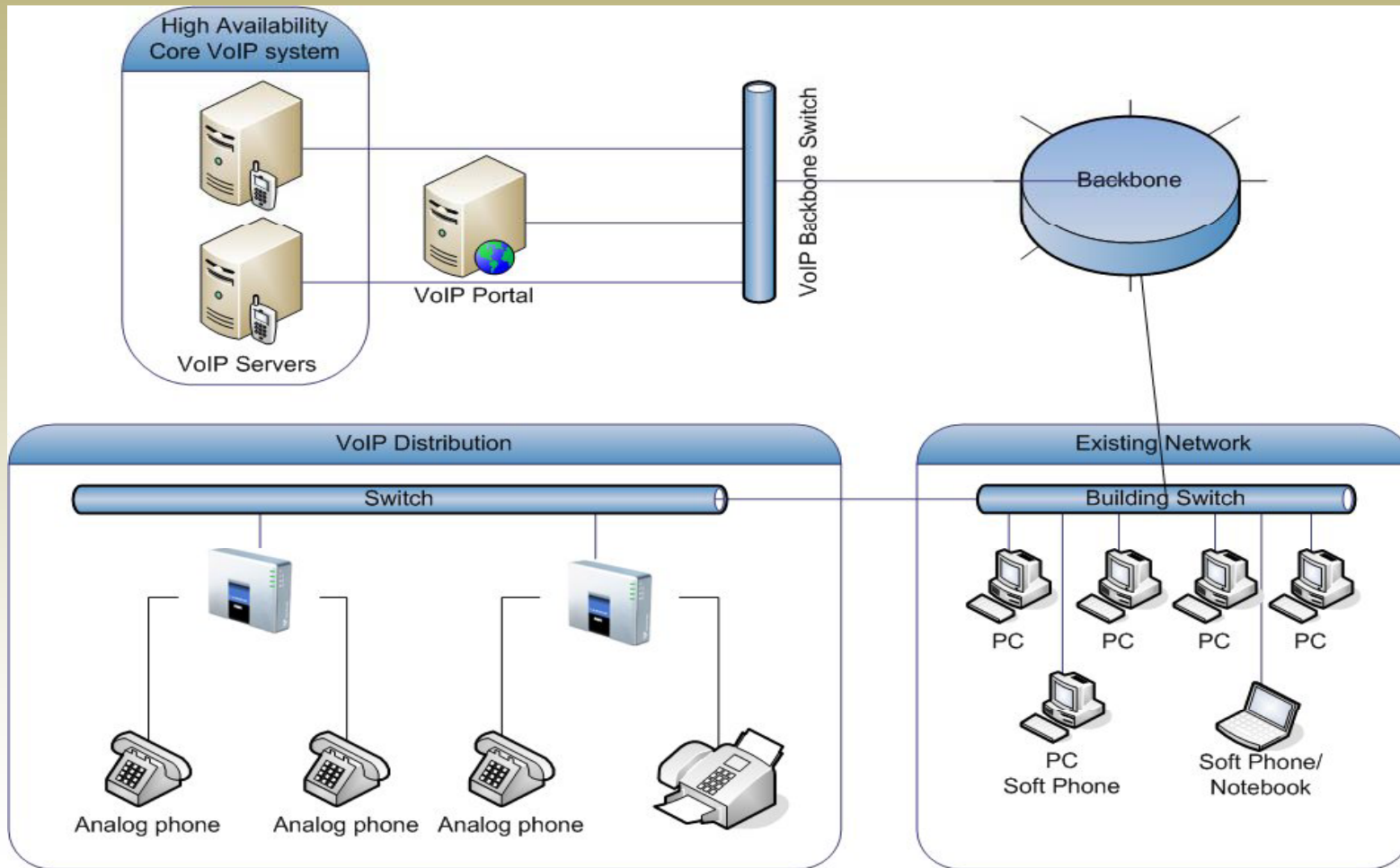


# Example Asterisk Diagram





# Example Asterisk Diagram





## *Sample Applications*

- Inbound IVR integrating with CRM application
- Outbound IVR for collection or reminder application
- Voice mail Server
- Conference Server
- Music-on-Hold Server



## *Site Reference*

- PTTICT Solutions Co.,Ltd.
- MFC Fund
- I.M.E. Thailand Co Ltd
- Lopburi Research Cancer Center
- The Asterisk Solutions



# *Questions and Answers*