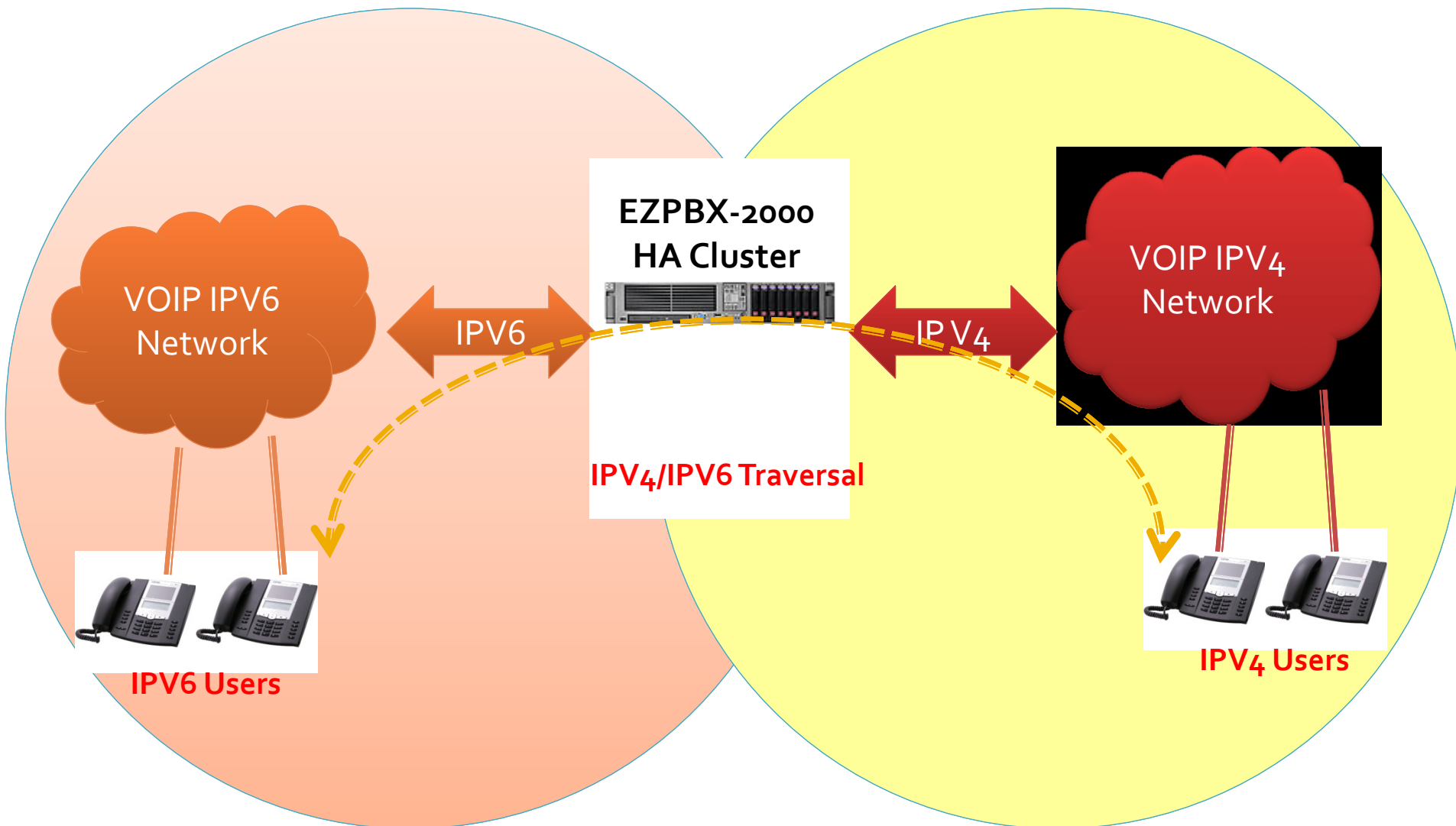


EZPBX-2000

IPV4/V6 Dual IP-PBX

Release 4.0 (2024)

Seamless IPV4 to IPV6 Migration



System Components



Highlights

- Run IPv4 and IPv6 SIP Calls Simultaneously
- High Performance/Reliabilities
- Hitless HA Redundant
- SIP UDP, TCP, TLS Seamless Connection
- Automatic Audio/Video NAT Traversal
- Work as SIP Trunk and SIP Router
- Powerful Digit Manipulation and Call Routing Plan
- Prosperous Telephony Features for Time to Market
- Multi-language Web Management
- Support RFC8599 Push Softphone
- Support SRTP Transcode
- SIP Attack Detection and Prevention
- Country/IP Network Lock

Highlights

- Auto Attendant Service/AA Call Flow Editor
- DID Based Auto Attendant
- Voice Mail Service/MWI/Email Notice
- Up-to 32 Parties Conference Room
 - Meeting Me Conference
 - Dialing Out Conference
 - Adhoc Conference
- Upto 64 parties Broadcasting Service
- Support G.711, G.729A*, GSM and G.722
- Divisional Billing
- Support CPE Auto Provisioning*
- RADIUS, SYSLOG and Call Detail Record
- Running under 64 bits Linux

System Capabilities

- Max Concurrent Extension: 2,000
- Max Concurrent Call: 1,000
- Max NAT/RTP Resource: 1,000
- Max Universal Resource: 256
- Max Voice Logging Resource: 512
- Max BHCC: 200,000
- Max Conference Parties: 16
- Max Broadcasting Parties: 64
- Audio Codec: G.711, G.729A, GSM, G.722
- Hitless HA Redundant

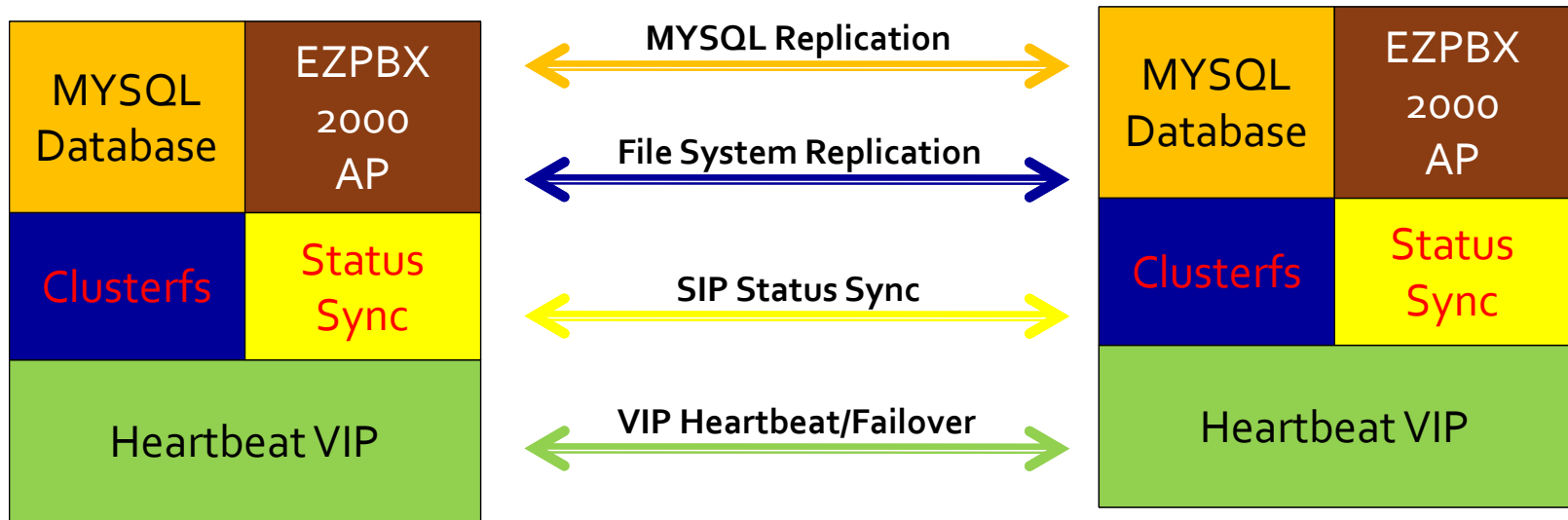
System Service

- Support Multiple SIP Domain
- SIP Proxy/Registrar
- Automatic Audio/Video NAT Traversal
- Support WAN/LAN Interface as Voice Router
- Support RADIUS, Syslog Billing
- Support Extension/Device Monitoring
- Device Allowance/Block Device List
- Country/IP Network Lock
- Missed Call Email Notice
- SIP Attack Detection and Prevention
- INVITE-Initiated Dialog Event (BLF)
- Support SIP Trunk
- PSTN/Mobile Extension

System Service (2)

- ANI Based Routing
- Call Limited By DNIS
- Support RFC8599 Push Softphone
- Support SRTP Transcode
- In Call Service

Hitless HA Redundant



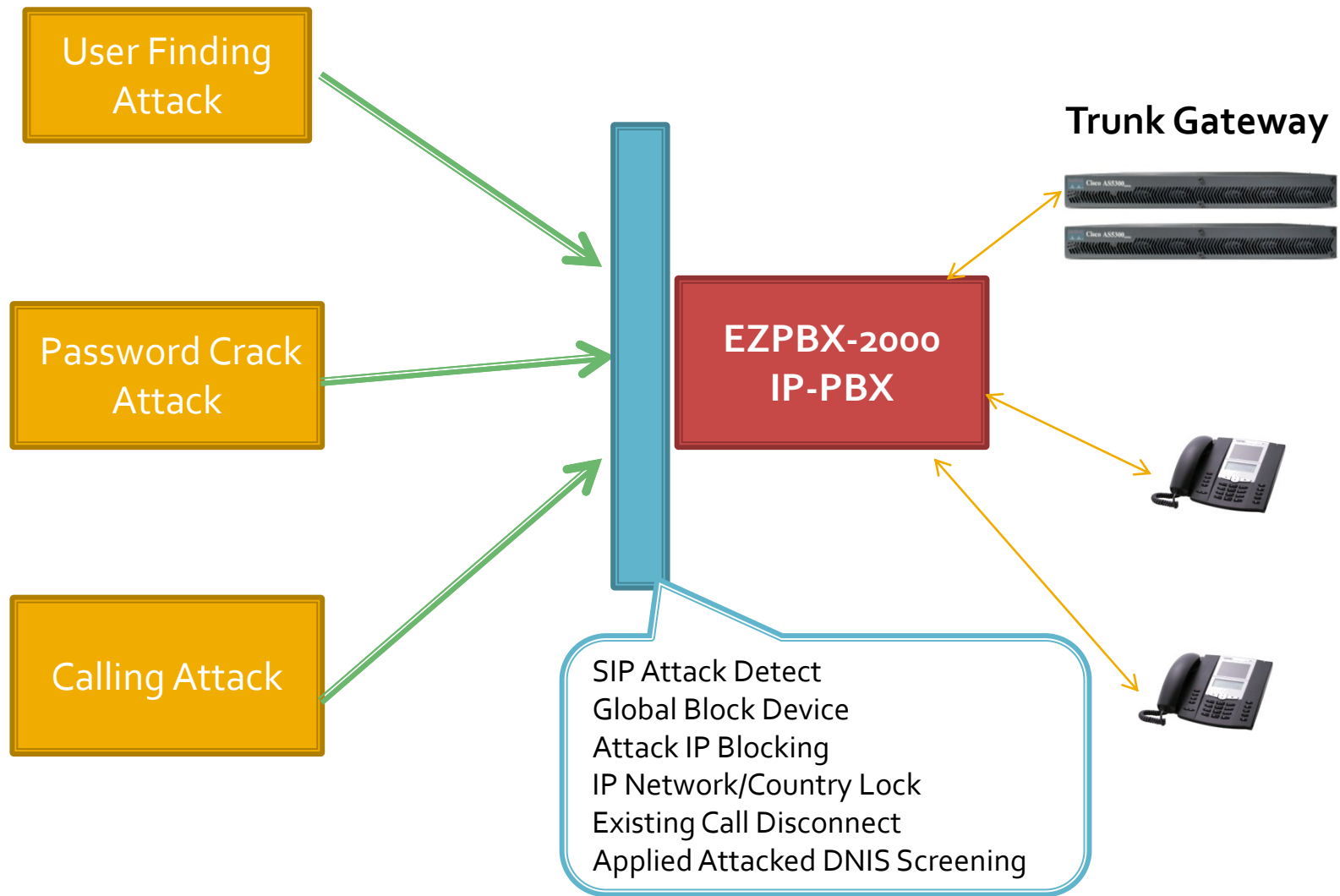
Hitless HA:

- ✓ Connected call will be kept and continue to talk with 2 to 3 seconds silence.
- ✓ Voice recording will be separate into 2 records (before and after failover)
- ✓ Unconnected call will be dropped
- ✓ Calls to AA/VMS will become silence

SIP Security Design

- SIP Attack Detection/IP Blocking (e.g. SIPVicious, Friendly Scanner)
- Disconnect Existing Calls when SIP Attack Detected
- Apply more Secure DNIS Screening Group when SIP Attack Detected
- SIP User Device Restriction
- Global Block Device List (Black List)
- Country/IP Network Lock
- Applied Enhanced Password Option
- Black Routing List For Those Expensive Countries
- Enable CAPTCHA to Protect Web
- Web Access Log

SIP Attack Detection/Protection



Country Network Lock Service

- Country Lock:
 - Each Extension Have 2 Counties
 - Block Register if not from these 2 country
- IP/Network Lock:
 - Each Extension Have 2 IP/Network Define
 - Block Register if not from these 2 IP/Network

Flexible & Powerful Routing Plan

- Group Based Routing
- Time of Day/Weekday Routing
- Preference Routing
- Round Robin Routing
- Load Balancing Routing
- Broadcast Routing
- Unavailable Redirect
- ENUM Routing
- Routing Based No Answer/Response Time
- Black List route
- ANI Based Routing (highest priority)

Telephony Features

- DID/DOD
- Call Transfer
- Call Hold
- Call Waiting
- Call Forward
- Call Display Name
- Camp-On Call
- Call Pickup
- CLIP/CLIR
- DID Routing
- Digit Manipulation
- Call Park/Retrieve
- Missed Call Notice
- Music On-Hold
- Local Emergency Call
- Abbreviate Dialing
- PSTN Number
- Parallel Hunting
- Follow Me Always
- Time of Day Follow Me
- Incoming Call Blocking
- Outgoing Call Blocking
- Time Based Screening
- Outgoing Privilege Calling
- Do Not Disturb
- Anonymous Call Blocking
- Distinct Ringing

PSTN/Mobile Extension



1. Ring Extension and Mobile at same time
2. Mobile will work as an extension after access to PBX

Statistic Reports

- Call Statistic Report
- Extension Statistic Report
- Extension Status Detail Report
- NAT Resource Statistic Report
- Representative Number Report
- Trunk Report

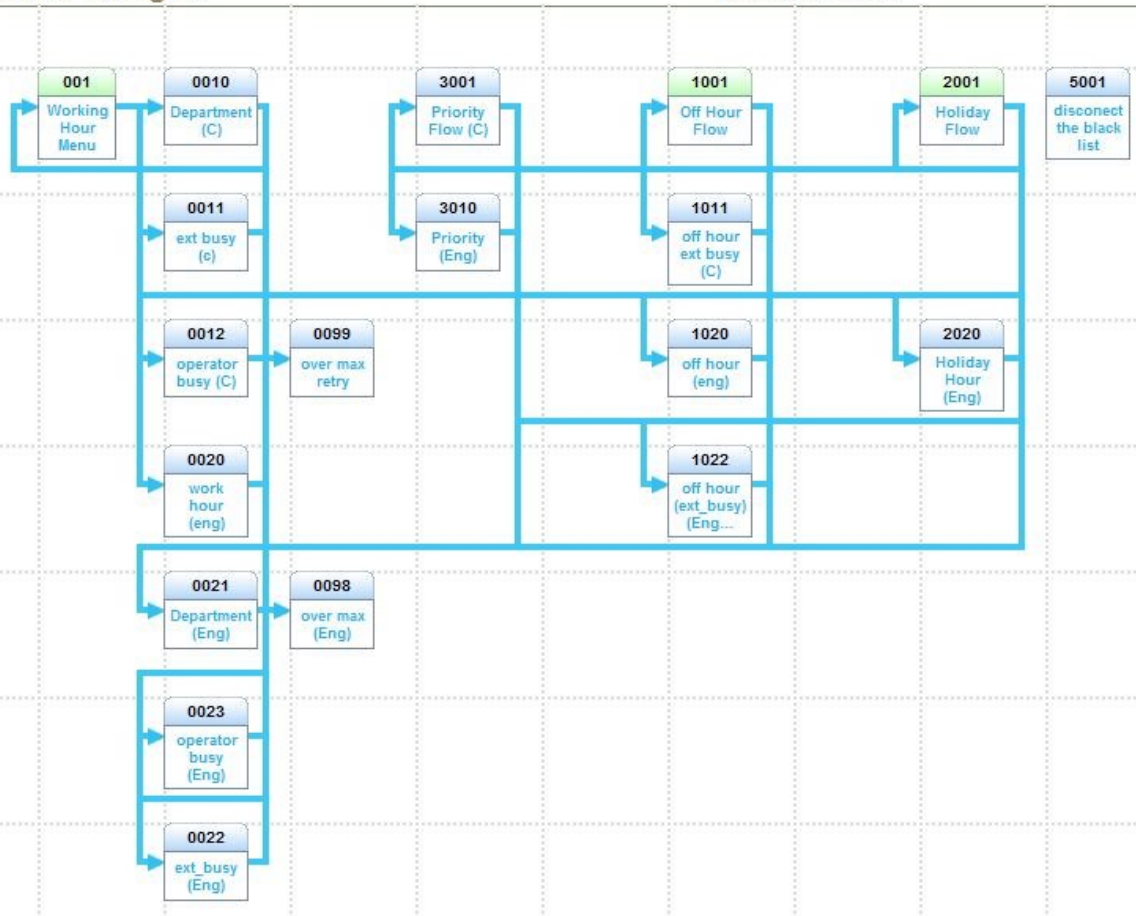
Auto Attendant Service

- Support Multi-languages/Multi-Offices
- Company or DID based Call Flow
- Graphic Attendant Flow Editor
- Office Oriented Call Flow
- Up-to 3 Time Segments
- Working/Off-Time/Holiday/Special Working Day/Priority Flow/Operator
- Black List Filter & Flow/Forward without Answer
- Support Abbreviate Dialing/Schedule Called Group
- Access to Voice Mail
- Outgoing Calling (Password Protect)
- Access to Meeting Me Conference

Call Flow Editor

Menu Designer

Office ID : 6 - Office 6



- Office Based Flow
- Menu Oriented
- Easy Setting
- Template Copy
- Office Copy
- Menu Copy


Voice Mail Service

- Support Multi-languages
- Incoming Calls Limitation
- Support Message Detail
- Voice Mail to Email (MP3)
- Access Voice Mail via Web or Phone
- SIP MWI (RFC 3842)
- Personal Greeting

Access VMS from WEB

Voice Mail Access

Calling Time ▼

 Search

Extension Number: 6002

| Calling Time ▼ | Calling From | Status |
|-------------------------|--------------|---|
| 2011/07/26 09:57:31.668 | 6006 |  |

Page 1

Total Record: 1

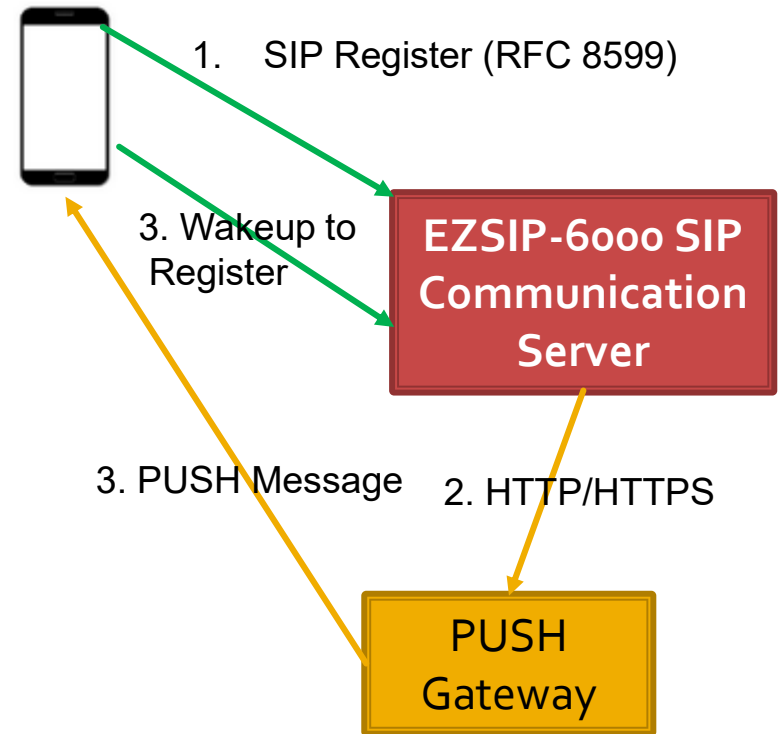
Delete

Delete All

Back

RFC-8599 Push Softphone

- RFC 8599 Compliance
- Customized PUSH Gateway is Required
- Max Time to Wait Softphone Register and Call



SRTP Transcode Support

- SIP TLS and UDP Transparent
- Support SRTP Optional/Mandatory
- SRTP and RTP Transcode



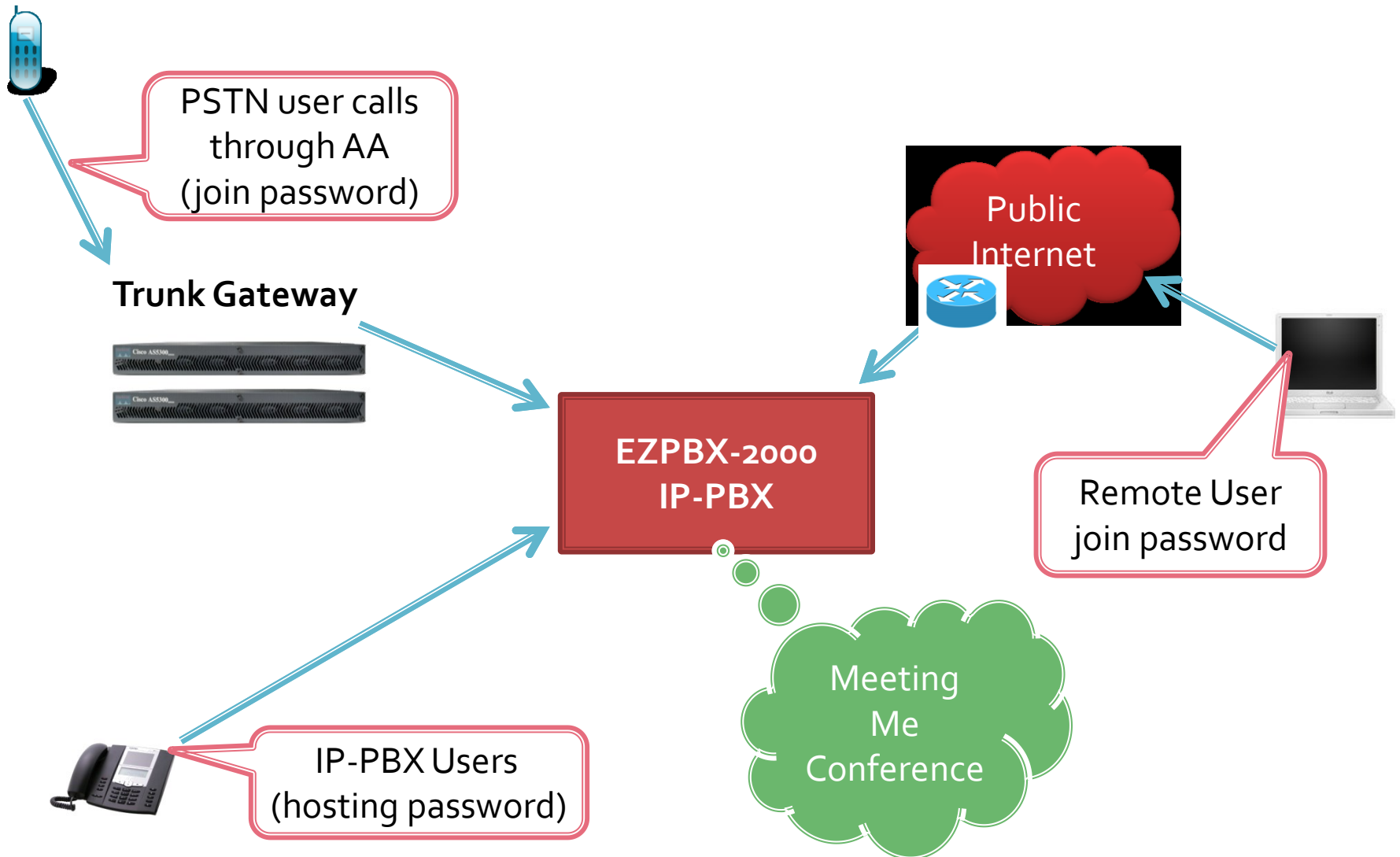
In Call Service

- Support Regular User/Mobile User
- Press ## during the Call
- Call Flip (from Mobile to Extension or vice versa)
- Call Transfer
- Call Hold/ Unhold

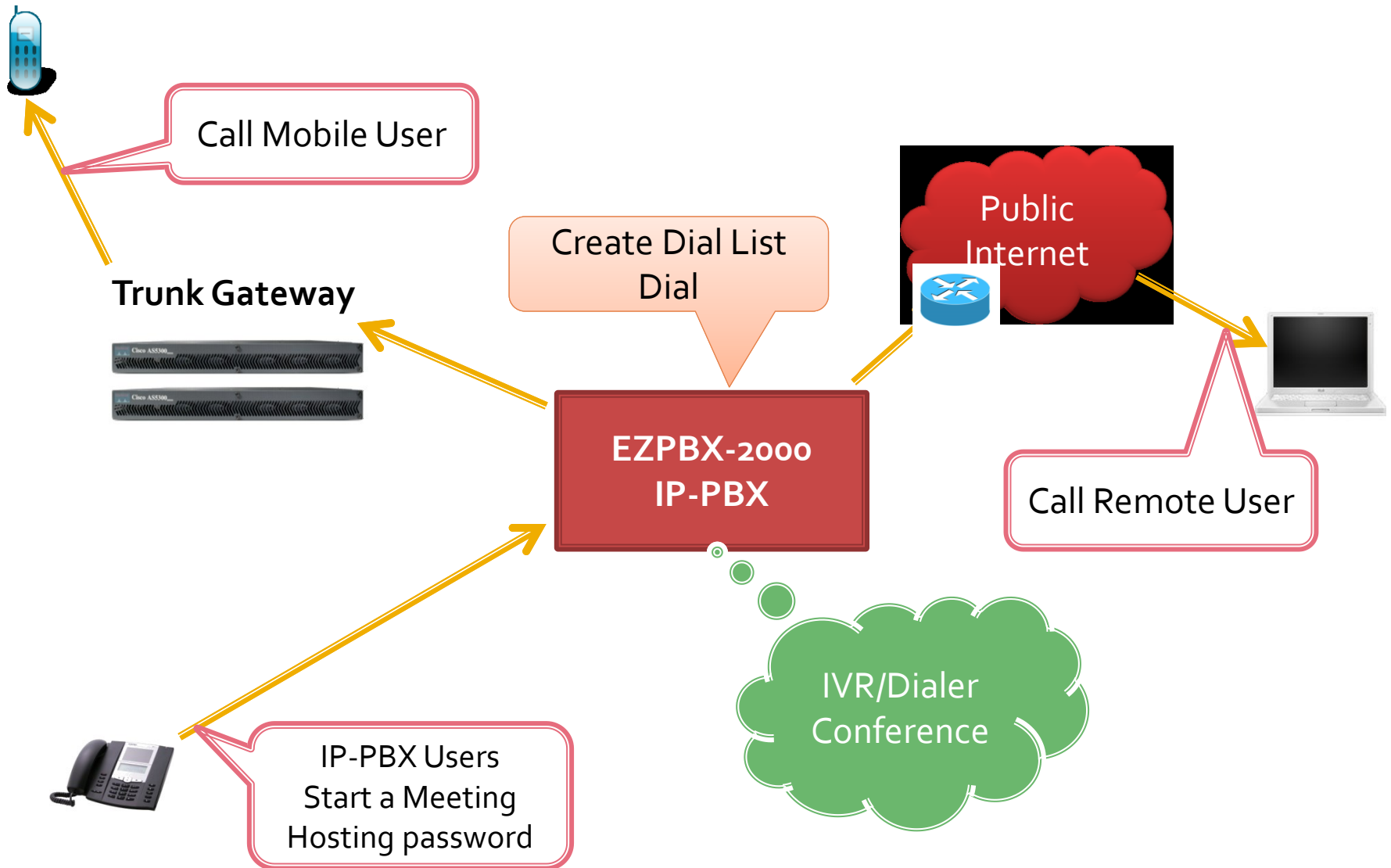
Conference Service

- Up-to 32 Participants Conference
- Support Multi-languages
- Incoming Calls Limitation
- Web Conference Control by Smart Calling (Optional)
- Support Meeting Me Conference
 - Hosting/Participant Password
 - Join/Quit Announcement
- Support Dialing Out Conference
 - Hosting Password
 - Predefine Participant List (Auto Dial Out)
 - Dynamic Participant List Building/Calling (Ad-Hoc)
 - Join/Quit Announcement
 - Add Participant within Conference

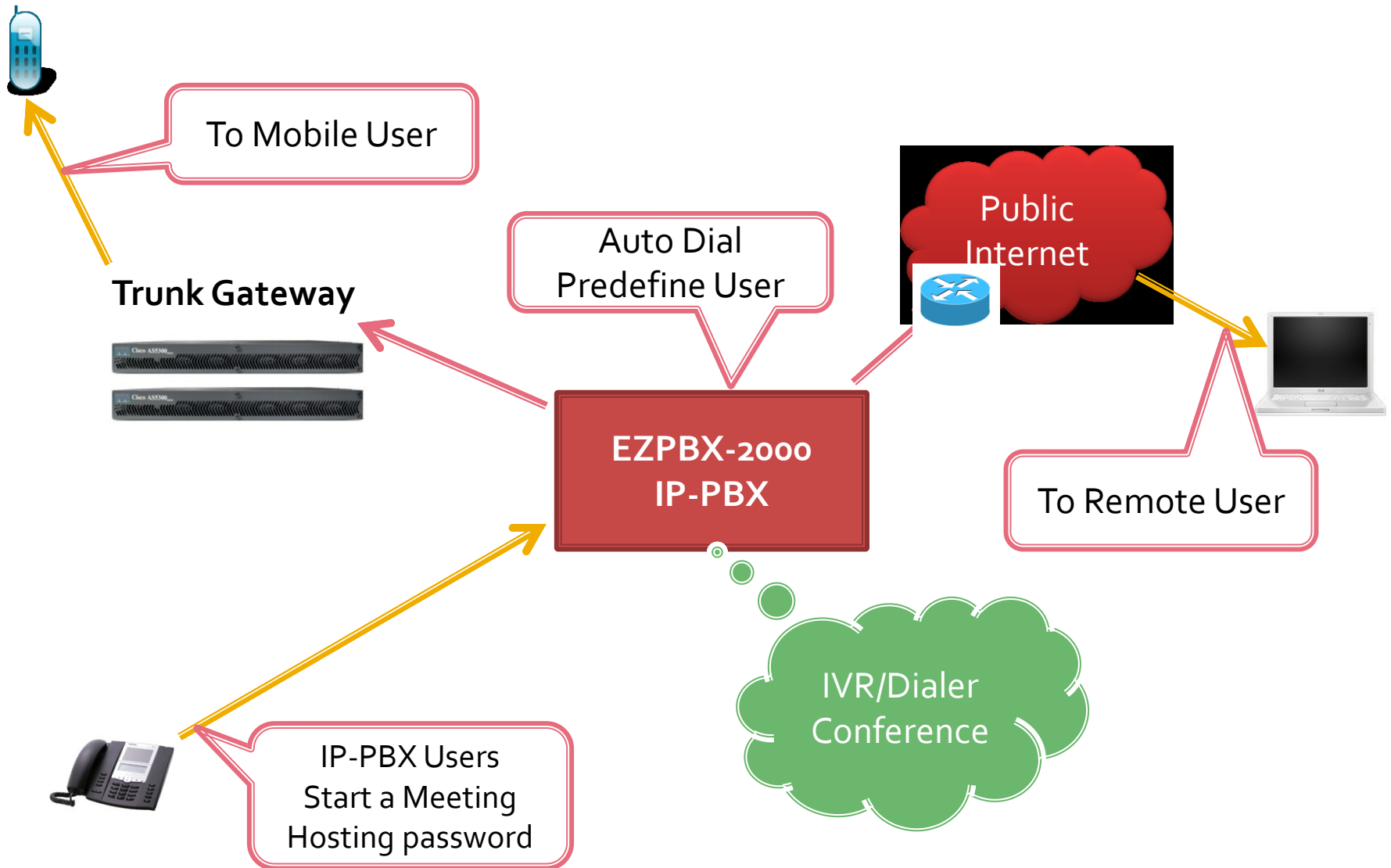
Meeting Me Conference



Ad-hoc Conference



Dialing Out Conference



Broadcasting Service

- Up-to 64 Participants Broadcasting Service
- Support Beginning/Ending Notice
- CPE Auto Answer

CPE Auto Provisioning

- Support SIP Multicasting PnP
 - Auto Show Un-Assigned MAC & User Agent
 - Support Add to Extension
- Support Predefine Provisioning URL
- Support http/https MAC File Configuration
- Support http/https Firmware Upgrade
- Support CPE Sync Configuration/Reboot

Smart Calling Module (Optional)

- Worked with iPhone & Android Phone
- Receive Extension Calls from Mobile
- Call Your Customer through IP-PBX
- Create Conference through IP-PBX
- Meeting Conference Monitor
- Conference Control/Monitor
 - Mute, Hand-up, Disconnect, Add

Smart Calling

Create Conference

Meet Me Conference

Call To

Settings

Back

Main Menu



 6608
 sale1 

Create Conference



 070066008 
 sale fix 

Meeting Me Conference

My Phone : 6608

Call To : 





Call To

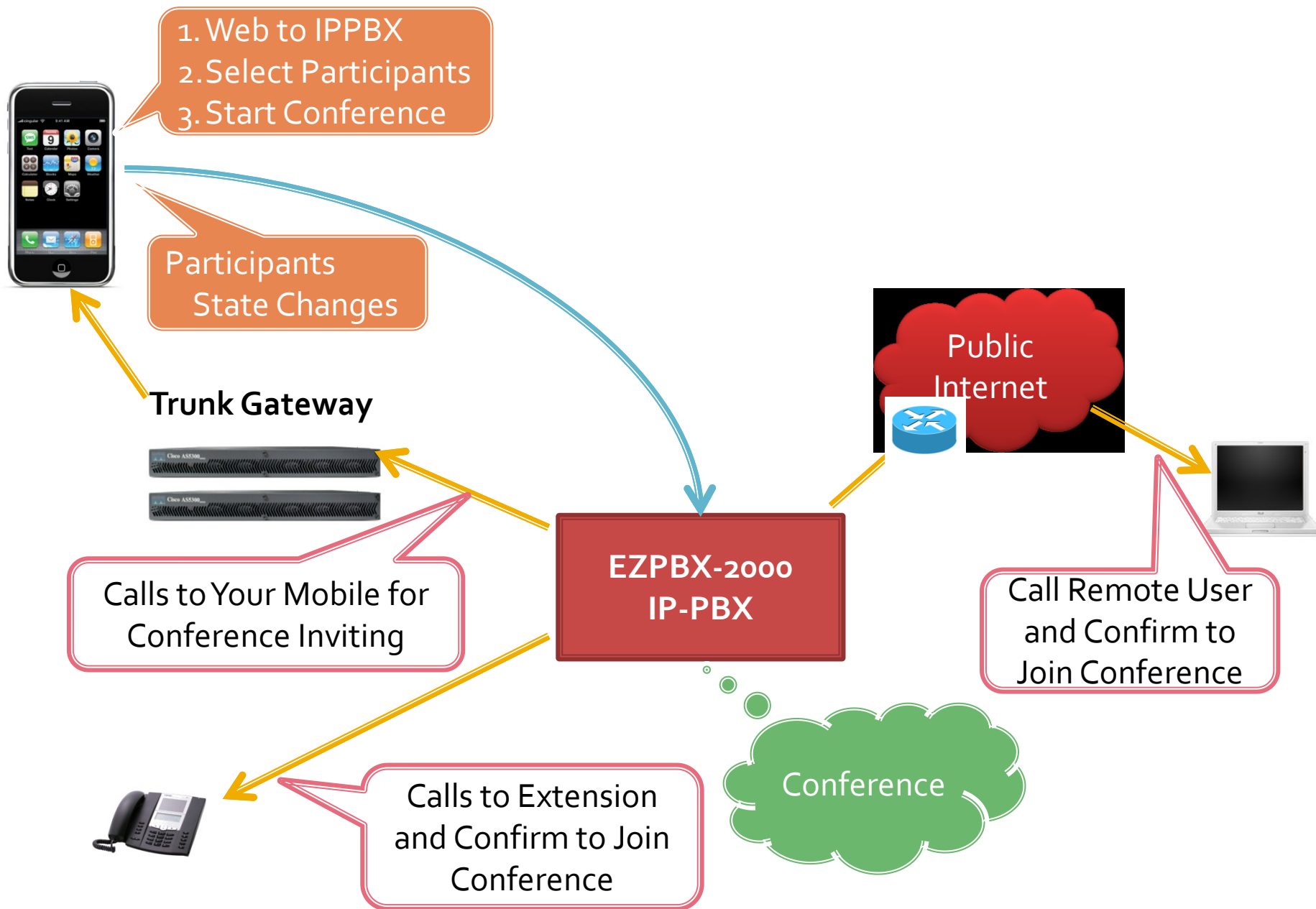
Forward To My Phone :

My Phone :

Language :



Settings



Billing Feature

- Flat Call Detail Record File
- Enterprise Billing Feature
- Support Charge Division/Division Manager
- Top Usage Users Report
- Top Prefix Usage Report
- Prefix Summaries Report
- Division Billing Report
- Division Wide Tariff Plan
- Call History Detail Report

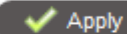
Billing Report Examples

Division Billing Report

Query Condition

Period :

2011 - 08 ~ 2011 - 08



Apply



Print

| Period | Division | Calls | Duration | Charge Amount | Charge Percentage |
|---------|-------------------|-------|----------|---------------|-------------------|
| 2011-08 | Sales | 31 | 4,274 | 558.670 | 2.912% |
| 2011-08 | RD | 0 | 0 | 0.000 | 0.000% |
| 2011-08 | technical support | 22 | 6,248 | 18,629.400 | 97.088% |
| Total : | | 53 | 10,522 | 19,188.070 | |

Division : All Division

| Ranking | Extension Number | Calls | Duration | Charge Amount |
|---------|------------------|-------|----------|---------------|
| 1 | 6006 | 21 | 6,242 | 18,611.400 |
| 2 | 20010 | 22 | 3,822 | 479.520 |
| 3 | 20018 | 8 | 422 | 73.150 |
| 4 | 6009 | 1 | 6 | 18.000 |
| 5 | 20016 | 1 | 30 | 6.000 |
| Total : | | 53 | 10,522 | 19,188.070 |

System Diagnostic

- System Real Time Status
- Extension/SIP Trunk/Call Status
- Blocked IP Status
- Ping Test
- Machine Status
 - Disk, Memory, CPU, Network, I/O, Files System
- Debug/Capture Interface

Management

- Multi-Language Support
- Support 2FA based on Google Authenticator
- Administrator, Division Manager, User
- Web Provisioning Access Log
- Easy Web GUI (HTTP/HTTPS)
- On-line Manual & Pop-up Help
- Customizable Web Access Rights
- System Alert by Syslog/Email/HTTP Hook
- Real Time System Monitor & Tracing
- Backup/Restore System
- SOAP Provisioning Interface
- Schedule Update for SSL, License, Patch etc.

















Extension List GUI

Extension

~

Office ID: 1 - office1

☒ Inactive ☐ Unregister ☒ Ready ☐ Talk ☐ Ringing

| | Extension Number  | Name | Belonged Division | SIP Security | RADIUS Call Authorization | Contact Policy | Extension Type |
|---|--|------------------|-------------------|-----------------|---------------------------|-----------------------|-----------------|
|  | 000 | | | None | No | Permanent Contact | FXO/Trunk/Proxy |
|  | 00000 | | | Register/Invite | No | Register | IP Surveillance |
|  | 00001 | 0123456789012... | 1 - Sales | Register/Invite | No | Register | Phone/ATA |
|  | 00002 | | 1 - Sales | Register/Invite | No | Register | ENUM |
|  | 0001 | | | Invite | No | Permanent Contact | SIP Trunk |
|  | 0002 | | | Register/Invite | No | Register | SIP Trunk |
|  | 0003 | | | Invite | No | Permanent Contact | SIP Trunk |
|  | 0004 | | | Invite | No | Permanent Contact | SIP Trunk |
|  | 0005 | | | None | Yes | Permanent Contact/NAT | FXO/Trunk/Proxy |
|  | 0006 | | 1 - Sales | Invite | No | Permanent Contact/NAT | Phone/ATA |
|  | 0007 | | 1 - Sales | Register/Invite | No | Register | Phone/ATA |
|  | 0008 | | 1 - Sales | Register/Invite | No | Register | Phone/ATA |
|  | 0009 | | | Register/Invite | No | Register | Phone/ATA |
|  | 001 | | | None | No | Permanent Contact/NAT | FXO/Trunk/Proxy |
|  | 0010 | | 1 - Sales | Register/Invite | No | Register | Phone/ATA |

Call Statistic Report

呼叫統計報表

年: 2011 月: 7 日: 25

查詢

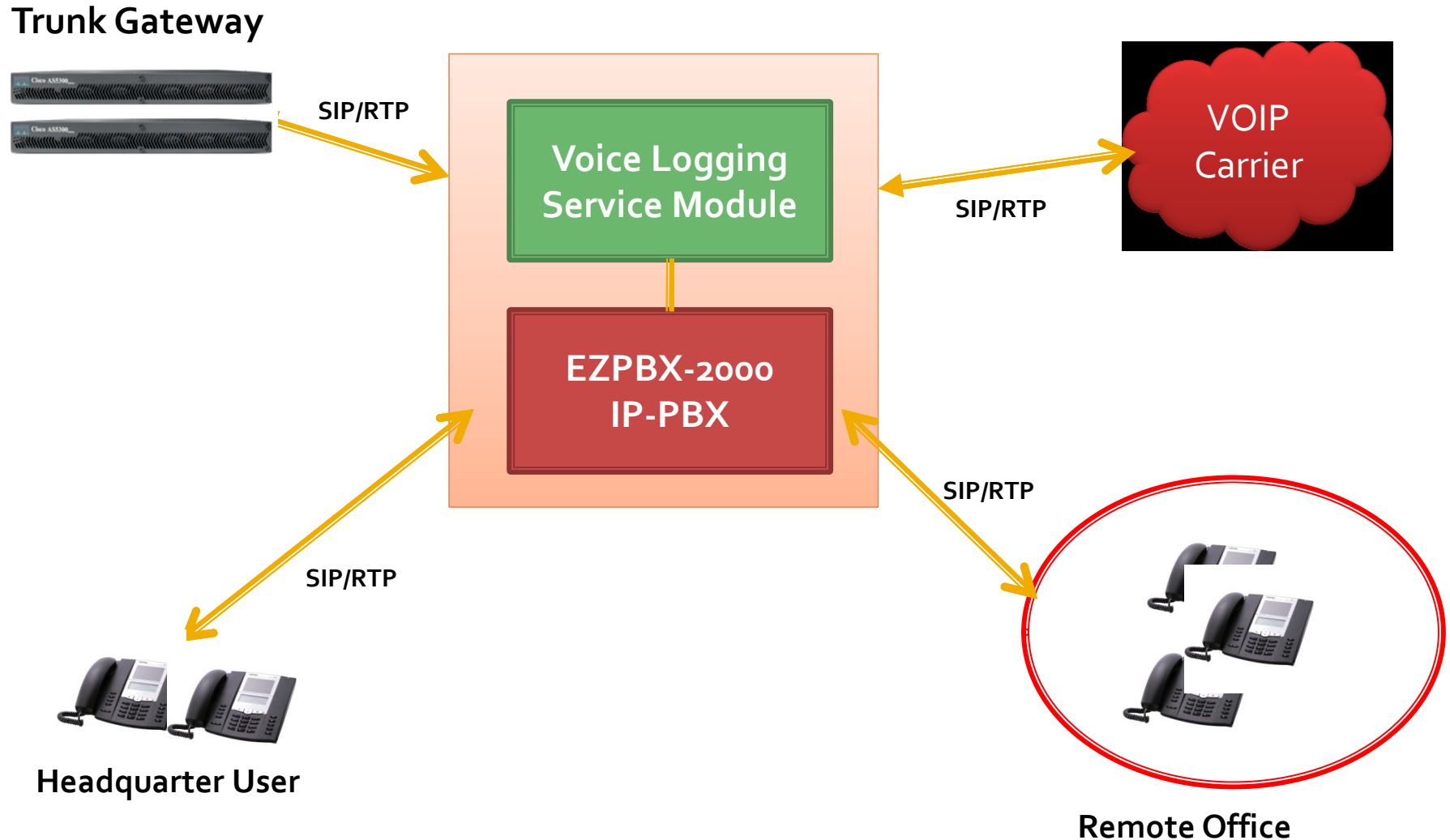
列印

匯出

刪除

| 區間 | 總呼叫 | 總通話 | 最高呼叫 | 最高通話 | 接通率 |
|-------|-----|-----|------|------|--------|
| 00-01 | 0 | 0 | 0 | 0 | 0.00% |
| 01-02 | 0 | 0 | 0 | 0 | 0.00% |
| 02-03 | 0 | 0 | 0 | 0 | 0.00% |
| 03-04 | 0 | 0 | 0 | 0 | 0.00% |
| 04-05 | 0 | 0 | 0 | 0 | 0.00% |
| 05-06 | 0 | 0 | 0 | 0 | 0.00% |
| 06-07 | 0 | 0 | 0 | 0 | 0.00% |
| 07-08 | 0 | 0 | 0 | 0 | 0.00% |
| 08-09 | 0 | 0 | 0 | 0 | 0.00% |
| 09-10 | 11 | 10 | 1 | 1 | 90.90% |
| 10-11 | 0 | 0 | 0 | 0 | 0.00% |
| 11-12 | 0 | 0 | 0 | 0 | 0.00% |
| 12-13 | 0 | 0 | 0 | 0 | 0.00% |

Voice Logging Module



Voice Logging Module

- Support IPv4/v6 Voice Recording Simultaneously
- Support G.711, G.729A, GSM, G.722, G.723, iLBC Decode
- Support Extension/PSTN Number Recording
- **WAV**/MP3 Compressed File Format (VBR, CBR)
- Support AES Encryption
- Provides Voice Logging Detail Report
- No High Performance Switch Mirror Required
- Support External NAS or DB

Q&A