



TECHNICAL SPECIFICATIONS FOR THE PAGASA IP PBX EQUIPMENT AND PERIPHERALS STRAIGHT LEASE INCLUDING 5 YEARS ISDN SUBSCRIPTION

1. PBX incl. 5 expansion module with 30 ports - 1 set

- PBX Hybrid PABX System capable of IP/H.323 and SIP solutions.
- The system must be capable of seamlessly connecting to their existing networks.
- PBX System location should be independent from other PBX locations including the Central Head Office; in the event of a specific location has problems, other locations will not be affected.
- IP PBX solution must have a single hardware architecture; OS and gateways must have single platform to avoid several point of failures.
- Must be 19" rack mountable with no moving parts design to avoid wear and tear issues.
- Support for analog trunk, E1PRI, E1R2 digital trunk, BRI, H.323 and SIP trunk.
- Support for 384 endpoints in a hybrid environment or full IP and must be capable to expand up to 3,000 endpoints.
- Support for analog, digital, IP DECT, H.323 and SIP phones.
- Analog extensions must be supported natively and not have signal converters or ATA's 4 slots to house a mixture of extension and trunk cards.
- Must support up to 12 Expansion Modules for future expansion 7,200 call capacity (BHCC) 200 Maximum Hunt Groups.
- External output socket supporting two relay on/off switch ports, e.g. for door entry systems.
- Audio input port for external music on hold source.
- Must support VPN for secured communications, L2TP/IPSEC must be able to provide up to 10 tunnels.
- Must have two routed Ethernet ports built in WAN port with integrated firewall and must be able to support PPP (Point to Point Protocol) and Frame Relay, static route, RIP for peering to other agencies.
- Must have built in 128 party conferencing for both MeetMe and AdHoc conferencing without additional license and hardware resource.
- 64 Paging group members
- 40 Voicemail/Auto Attendant Channels
- The offered solution must be able to provide QoS and VLAN tagging support
- Automated Attendant
- Automatic Call Distribution
- Automatic Alternate Routing
- Caller Line ID
- Calling Party Name Display
- Call Transfer and Call Waiting
- Call by Name

“tracking the sky helping the country”



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- Classes of Restriction
- Direct Inward Dialing
- DID Call Waiting
- Direct Inward System Access
- Direct Outward Dialing
- Hunting
- Integrated System Directory
- Music on Hold
- Service Programmable
- Night Remote Management
- Management & Error Alarm System

2. IP Phone with Video Collaboration Endpoint – 28 Units

IP Phone

- Backlit display –3.5” diagonal, 3 rows by 24 characters.
- Ergonomic hearing aid compatible handset –supporting TTD acoustic coupler.
- 8 line appearance/feature key buttons –with dual LED’s (red, green).
- Primary Ethernet (at least 10/100 Mbps) line interface, Secondary Ethernet.
- Two-way handsfree speaker and microphone.
- Interface (at least 10/100Mbps).
- Must have buttons for redial, speaker, mute and transfer.
- PoE 802.3af class 2 device, also supports a local power supply.
- Standards-based codec support: G.711, G.726, G.729A/B

Video Collaboration Endpoint

- 7” capacitive touchscreen 1280 x 800 WXGA resolution.
- Wideband audio through handset, headset and speakerphone(Full-duplex).
- Full HD 1080p HD video, 1080p 30fps resolution.
- Primary Ethernet (at least 10/100/1000 Mbps) line interface, Secondary Ethernet interface (at least 10/100/1000 Mbps).
- Dial pad, Volume up/down, Audio mute with LED status, Capacitive touch buttons with LED status for home, contacts, communication app, call history and back/previous.
- 802.3af SPPoE, 15.4 W
- 802.3at PoE, 25.5 W
- 110-220 V AC, 50-60 Hz, 30 W
- Operating temperature: 0°C to 40°C (32°F to 104°F).
- WiFi : IEEE 802.11 a/b/g/n and Dual frequency (2.4 GHz and 5 GHz).
- Bluetooth : 4.0, Headset Profile (HSP).
- Must have capability for MeetMe and AdHoc Conferencing with Moderator Functions.
- Must support video conferencing.
- Must have Mid Call Control functions like transfer, mute, and pause capabilities.
- Must have Call History.
- Must have capability to send all calls directly to voicemail.
- Must have visual voicemail for user view message details and listen to them in any order.
- Must have message wait indicator.



3. Analog Phones – 40 Units

- With Flash Button
- With Redial Button
- In-used LED
- can be Wall Mountable
- With an Adjustable Ringer Volume
- With an Adjustable Handset Volume
- With Switchable Tone or Pulse Dialing

4. GSM Gateway 1 Unit

- 2 Ports Connects to 2 SIMs
- Caller ID
- Open Line (any SIM)
- with External Antenna

5. ISDN PRI connectivity (2 ISDN PRI) with 2 Mbps Internet Connection

ISDN PRI Connectivity

- The bidder must certify that the cable facility being used in the connectivity between the bidder's circuit is exclusively owned and operated by the proponent.
- The digital trunk must be a communication standard for simultaneous digital transmission of voice, video, data and other network services over PSTN.
- The digital trunk must integrate voice and data on the same line.
- Must be a circuit-switched telephone system.
- Designed to allow digital transmission of voice and data over ordinary telephone copper wires.
- Must be Telco grade digital trunk circuit.
- The bidder must be Service Provider for both the ISDN trunk and PBX/Videocon equipment.
- The bidder must provide a certification that they are Tier 1 ISP.
- The bidder must have at least six (6) certified Internetworking Expert or equivalent PBX expert who can integrate and assist in the implementation of the requirement.

2 Mbps Internet Connection

- The bidder must certify that the cable facility being used in the connectivity between the bidder's circuit is exclusively owned and operated by the proponent, operates its own landing stations (at least 3 cable landing stations).
- The bidder must provide a certification that they are connected or subscribed to Tier 1 networks.
- The bidder must provide a certification that it's network platform is compliant to the latest MEF Carrier Ethernet (2.0).
- The bidder must have at least 6 Cisco Certified Internetworking Expert, 15 MEF Carrier Ethernet Certified Professional 2.0 and 3 certified Project Management Professional (PMP) technical support personnel.
- The bidder must support or IPV6 ready and compliant.
- Subscription must include modem or any device that will convert the last mile facility (fiber or copper) to Ethernet or Fast Ethernet.
- Must include all necessary cables to interconnect and operate all equipment.



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