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## IS-Talk Hosted Telephones Working on a LAN (Local Area Network) Using ISP Modem/Router/Firewall Only

*The IS-Talk Cloud PBX has been designed to be as un-intrusive to a LAN as possible. However when operating on a network that does not have a CPE Router/Firewall then the below items are required in order for the IS-Talk PBX to operate correctly.*

**A. The ISP modem provided MUST have:**

1. *The modem MUST be VoIP compliant.*
2. *The ISP must set the modem to a static Public IP address  
(This keeps the modem address from changing)*

**B. Settings within the modem itself must be set as below:**

1. *Enable - Consistent NAT*
2. *Enable - SIP Transformations*
3. *Disable - SIP ALG*
4. *Permit - Non-SIP packets on signaling port*
5. *SIP Signaling inactivity timeout (seconds) set to 1800*
6. *SIP Media inactivity timeout (seconds) set to 3600*
7. *Additional SIP signaling port (UDP) for transformations set to 0*
8. *Access Rules: "LAN > WAN" UDP Connection inactivity timeout (seconds) set to 3600*

**Optional Settings: If supported by firewall**

- *Dedicated bandwidth with bursting: . The phones during a conversation use appx. 80K of bandwidth. We suggest a 4 to 1 ratio to dedicate bandwidth. example 16 phones installed dedicate 320K for voice traffic only.*
- *QoS is always preferred giving voice traffic priority over all other traffic.*
- *V-LAN - In a more complex network putting the phones on their own V-LAN and giving that V-LAN priority is a preferred configuration.*

Additional Useful Information

*The IS-Talk PBX IP address: Ask Your Project Manager for this IP Address*

*Port Listings used*

*SIP Traffic: Yes/Allow*

*TCP: 10001, 5060-5069*

*UDP: 4000-4999, 5060-5069, 10000-20000*

*PWproxy*

*TCP: 10005*

*Jabber traffic:*

*TCP: 5222 and 5223*

*Provisioning:*

*TFTP:*

*UDP: 69*

*Note: There are hundreds of modems on the market thus it is impossible for IS Technologies to provide configuration sheets for each and every one. All VoIP compliant will have the above settings and your ISP technical support should be able to apply the above settings to lead to a successful installation of our service. If your ISP or IT professional has questions please have them contact us at 205-314-8800 or [support@is-talk.com](mailto:support@is-talk.com) with specific questions. Noting that if above is applied the service will work.*