

WEBINAR: Hotel Phone Systems VoIP + Cabling

During this webinar we'll look at how implementing a VoIP phone system will impact your current set up. With the innovations of VoIP telephone systems comes more functionality and features for your hotel. But, what does that mean for your existing phone cabling and technology infrastructure?

Good Question!

Main Distribution Frame



If your hotel built before 1990

• Likely have CAT 3 everywhere



May have CAT 5 or 5e to admin positions or at least the front desk



Cont.

 Data cabling terminated on some type of Patch Panel in Equipment Room

• Cat 3 cabling to rooms and other phones terminated on 66 blocks at IDF and MDF



What is CAT 3 Cable?

 Category 3 Standard for Telephone wiring



- OK for analog voice (standard phones) and fax and digital keysets
- Requires only single pair on the cable to drive the phone
- Not fast enough for data applications

Other CAT's

- Cat 5
- Cat 5e
- Cat 6

All are data network Capable, required for IP devices including IP phones



http://www.lifehacker.com.au/2013/04/ask-lh-whats-the-difference-between-cat5-cat5e-and-cat6-cables/

Delivering data to the Guest rooms Choices

- Installing new CAT 5e or CAT 6 cabling
 - Expensive to run cables, terminate and test
 Maybe impossible due to infrastructure (especially in old hotels)





Adding new data cable

- Limitations
 - Distance 199 foot max distance
 - Quality of Installation
 - Must be tested for connectivity and speed
 - Confirmed by most cable contractors



- Distribution to workstations and rooms
 - Need Structured cabling plan and professional installation

Data Cabling Alternatives

 Deliver Ethernet (data) over CAT 3 using DSL technology such as Phybridge System or VDSL modems



Phybridge UniPhyer Support

Find the documentation you need and answers to your questions.

- Sends Data over existing cable plant, requires boxes on both ends
- May be viable alternative to complete re-wire

Wireless Guest Network

- Add data cable to network access points only
- Useful anywhere on the property radio signals can reach



Hybrid solution for hotels

- Supports CAT 3 analog devices and IP devices
- IP Phones where needed ,
 Front Desk, Manager phone,
 - Conference room, restaurant



Reduce the need to re-cable the hotel, only add new cable where needed for IP phones.

Voiceware by PhoneSuite

Hybrid Solution for hotels

 Continue using CAT 3 cable plant to existing Analog guest room and admin phones





Wiring to Data/Admin/Phone positions

CAT 5e or better installed to each position One for each device TEST, TEST, TEST, and certify Speed only as good as the weakest link



SIP Phone Connections





Connections

• Wall to phone, phone to pc network passthrough.



Power over Ethernet (PoE)



PoE continued

- More costly than regular data gear
- Much easier installation and maintenance, no more power brick for every device





 Use a dedicated subnet and dedicated router. Reliance upon the host properties business or PMS subnet is problematic as you do not control key parts of the VoIP infrastructure.

Network Router



 Your IP phone system router should be on a public IP address. Do not route through any other routing device on property, plugging in directly to the modem or IAD (or through a network switch). Chaining routers will make remote access and SIP trunking difficult.

Separate Networks



Front Desk Extras

- PMS Computer/Server
- PMS to Printer cable
- PMS to PBX cable
 - Serial cable direct
 - IP connection through LAN
 - Separate networks for PMS net and Voice net?
 Add enough Cable for each device on each network

Don't be shy about adding additional cables and spares, be prepared for future devices.



Failover Analog Connections

 IP network failure backup: Analog emergency phone on analog Telco line for backup of digital circuits and SIP (network) based trunks connected to the PBX (allows in/out, 911 calls)



Failover Analog Connections

 Analog Operator phone connected to PBX (analog port for survivability) for Dial 0 during LAN outage



Other Analog Connections

- FAX machines and older dial up modems including ATM's and Credit Card machines
 - Should move to IP network for efficiency and speed





Summary

- 1. Deliver data to guest rooms by most practical method
- Install data network/cable and SIP phones where useful. Take advantage of what IP phone systems can offer.
- 3. USE existing analog cabling and analog phones where practical with Hybrid PBX

Thank you!

- Call us at PhoneSuite to see how Voiceware on our Series2 V.IP system can provide the right connectivity for your property
- <u>www.phonesuite.com</u> 1-800-245-9933

