



Yealink

Yealink W80 DECT IP Multi-Cell System Product Training

► 01 Yealink DECT Multi-Cell System-W80

What is Multi-cell?



Office



Warehouse



Market/Shop



Hotel

Consist of: DECT manager+Bases+Handsets

Provide a solution with:

- A seamless DECT wireless signal network for handsets to roaming freely without any disconnections.
- A system with more handsets and simultaneous calls supported

Target scenarios:

- Warehouse/Care dealers/Hotel/Hospital/Restaurant/supermarket/Offices...etc.

Yealink Product Portfolio

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T4S series



T5W series



VC series



CP series

Desktop
solutions

Microsoft
solutions



T5 Teams edition



T4S SFB edition



Video Conf.
solutions

DECT
solutions

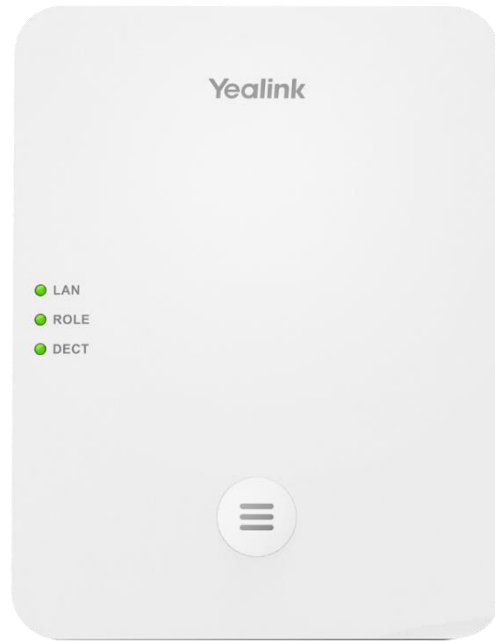
Headset
solutions



DECT single cell series

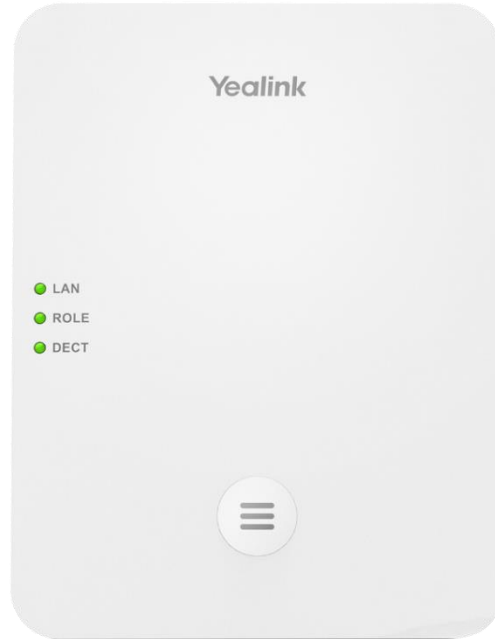


DECT multicell system-W80



W80DM

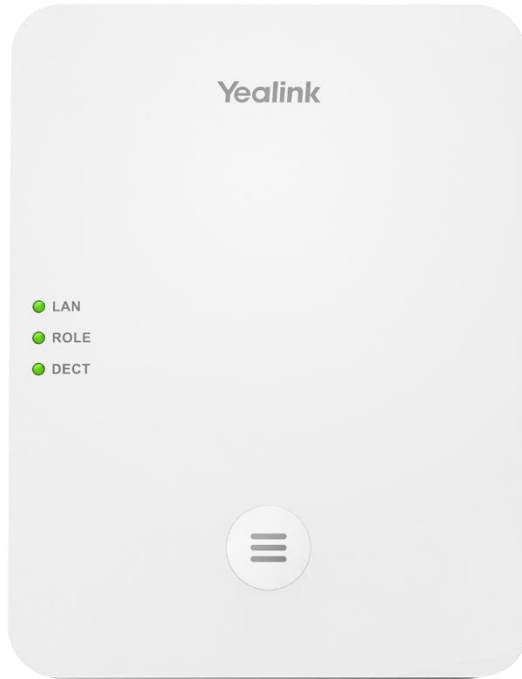
- Seamless handover and roaming
- Up to 30 base stations
- **Up to 100 parallel calls**
- **Up to 100 handsets**
- Up to 100 SIP accounts
- Dimension: 130 mm x 100 mm x 25.1 mm
- Color: Pearl White



W80B

- Competitive and stable signal strength and coverage
- 8 active handset/8 simultaneous call–Narrow band
- 4 active handset/8 simultaneous call–Wide band
- 50m indoor/300m outdoor
- Dimension: 130 mm x 100 mm x 25.1 mm
- Color: Pearl White

Differences between W80DM& W80B



- **W80DM**, works as purely a DM to manage :
 - base synchronization
 - SIP accounts and handsets
 - Call control
 - Allocate system resource
- **W80B**, works purely as a base station to transfer media traffic like an antenna

Note:

- W80DM does not provide DECT signal. You need to add at least one W80B to DM to register handsets
- W80DM and W80B can be upgraded to each other by firmware change. The hardware is the same

Firmware Version		Note: To work with W80B, W53H/W56H FW should be higher than xx.83.0.70. When first connect the W80B, handsets will upgrade to right version automatically. Please make sure to put HS on charging cradle FW download page: http://support.yealink.com/documentFront/forwardToDocumentDetailPage?documentId=314
W80B	103.83.0.70	
W53H	88.83.0.90	
W56H	61.83.0.90	
CP930W	87.83.0.60	
W41P (DDphone)	66.84.0.110	

W59R – IP67 Level Ruggedized Handset

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➤ Appearance & Structures



- Weight: 183g
- Color: Classic Black
- DECT range: indoors 50m, outdoors 300m
- Bluetooth headset
- Vibrate on ring

Larger Space

Space increased among each keys, and the key is with a raised outline.

It is especially useful for the workers who always wear gloves.

➤ Appearance & Structures

Alarm Button



Built-in 1460mAh Lithium-ion Battery:

- Talk time: 28 hours
- Standby time: 360 hours (15 days)
- Quick charge: 10-min charging for 2-hour talk time
- Charging time: less than 4 hours

Rubberized surface: protect handset from slipping, scratching and disinfectant.

- Protect the handset from dropping, slipping and scratching.
- Disinfectant-resistant: In some places, for example, in the factory or in the hospital, the handset may need to be cleaned regularly with the disinfectant.

W59R – IP67 Level Ruggedized Handset

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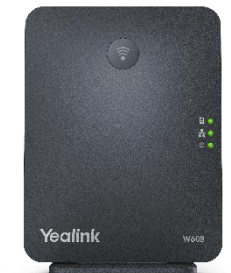
- Fully compatible with multi-cell system to do seamless handover/roaming
- Basically compatible with Yealink single-cell
- 2 simultaneous calls per handset
- Basic call features:
 - 3-way conference
 - Voicemail
 - Speed Dial
 - Redial
 - Call Transfer
 - Call Forward
 - Dial Plan
 - Mute/DND
 - Call Waiting
 - SCA
 - Handset upgrade: OTA (Over-The-Air)
 -
- XML Browser
- Local Directory (up to 100 records)/XML Directory/Remote Phone Book/LDAP
- TLS1.2 and SRTP security encryption



W80B

Base Station

or

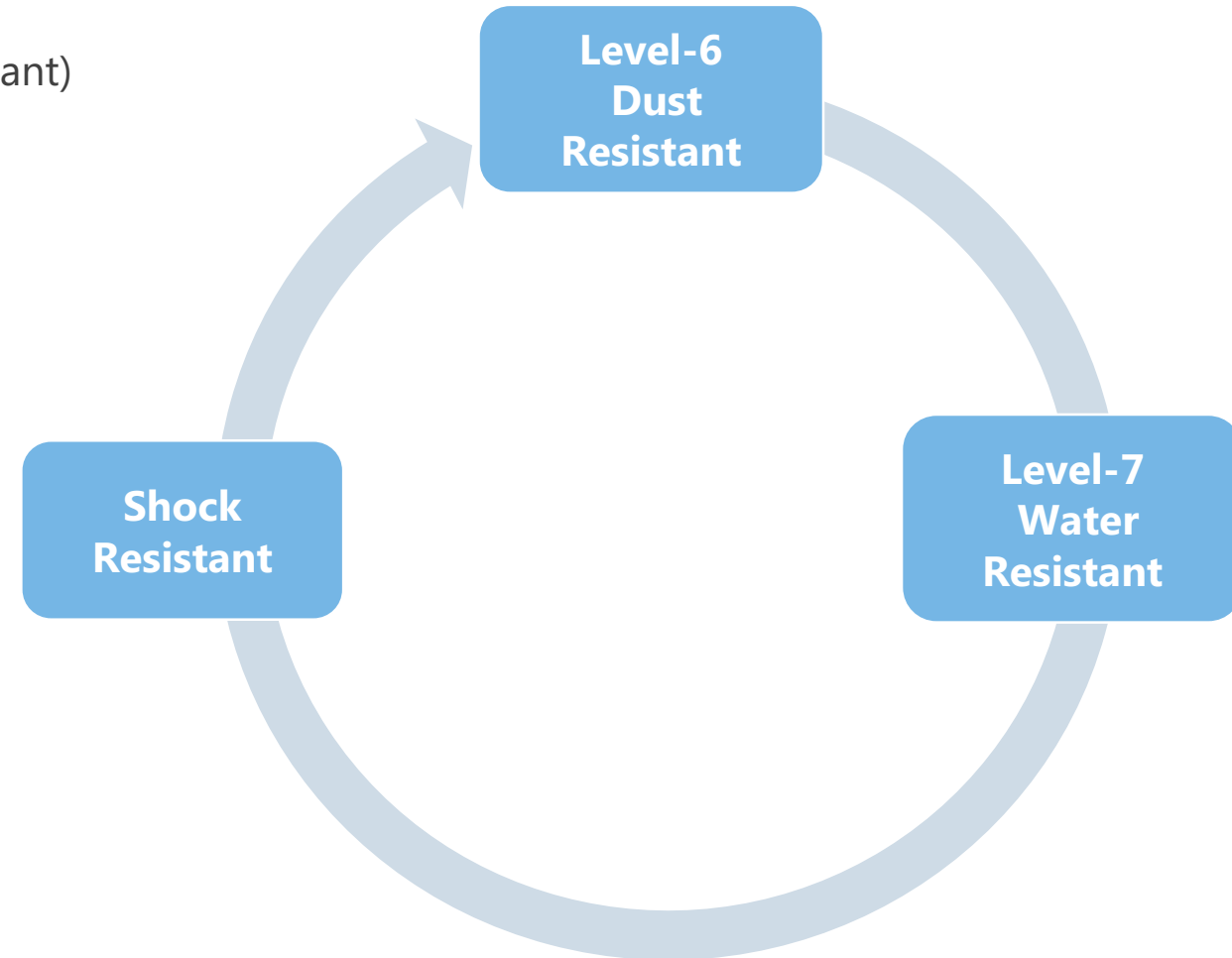


W60B

Base Station

- First **IP67** DECT handset in the market
(Level 6 dust resistant, level 7 water resistant, 2.5-3m drop resistant)
- Bluetooth 4.2 for BT headset; GPS over Bluetooth(Pending)
- Emergency Alarm
- Vibration
- Large and raised key pad with back light
- Powerful battery (28h talking time/15 days standby)

Certified Ingress Protection rating of 67 (IP67)



➤ Key Software Features

- Leading voice quality
 - ✓ FNR: background noise reduction and soft CNG
 - ✓ LC 3 plus codec: first DECT handset in the market supports this codec
 - ✓ HD audio, G722, Opus, HAC
- 8 WB (8 handset) sound quality per Base
- Support both W80 & W60
- All other features is same like W53H/W56H

Explanation for LC 3:

<https://www.iis.fraunhofer.de/en/ff/amm/communication/lc3.html>





W53H



W56H



CP930W



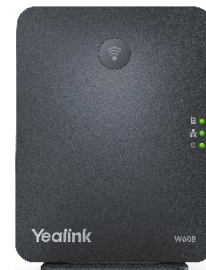
W41P (T41S+DD10K)



W59R



W80B
Base Station



W60B
Base Station

▶ 02

Key Features of W80 System



01

Seamless roaming & stability

02

Easy set up & deployment

03

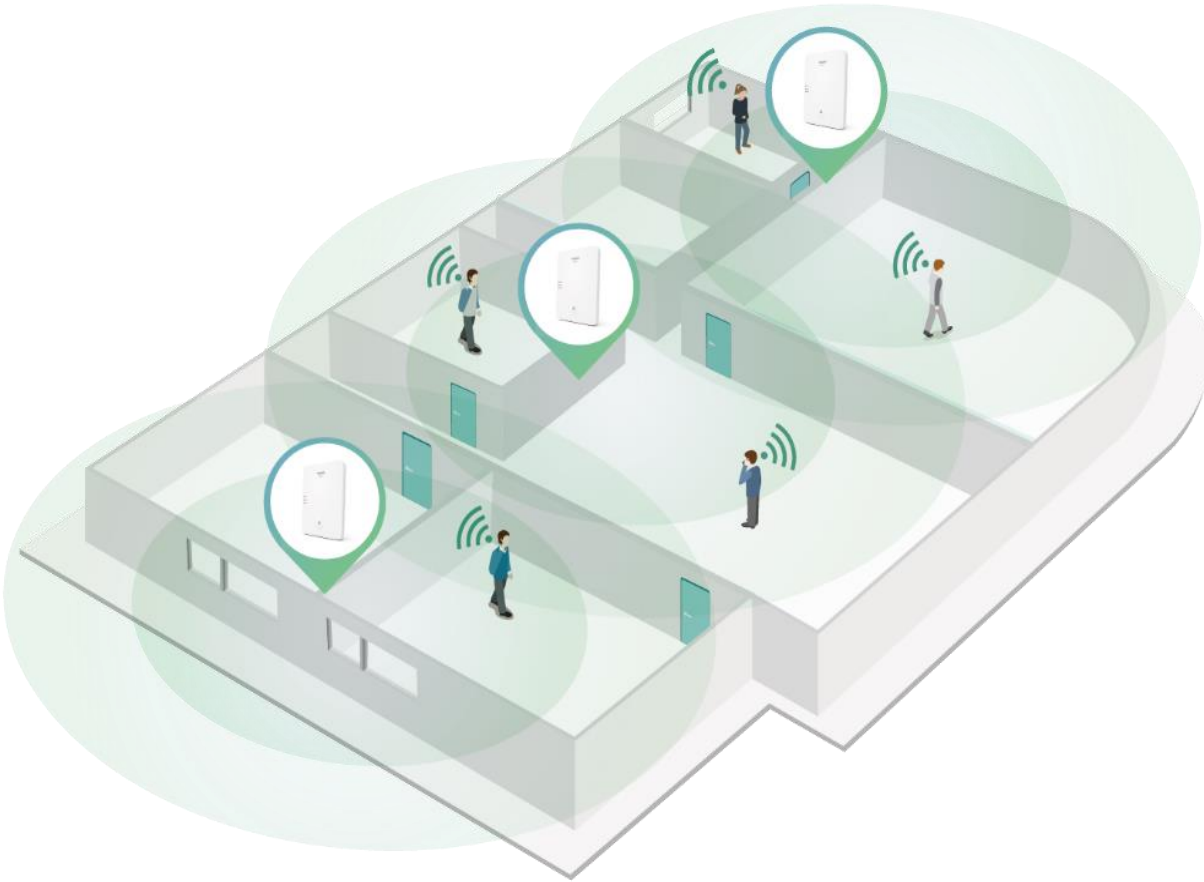
Excellent User Experience

04

Easy troubleshooting

05

Multi-site Deployment



- Seamless handover and roaming
- Smooth handover within **20ms**
- Very competitive signal coverage
- Stable system without worrying about the rebuild

- ❖ Deployment kit for professional site survey
- ❖ Measuring mode on handset for quick signal measurement
- ❖ IPUI & Register center for massive handset registering
- ❖ Auto Provision supported

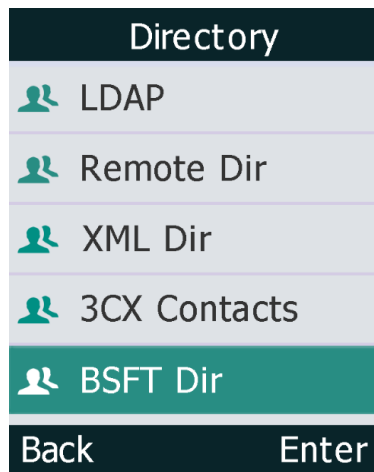


DECT Measurement

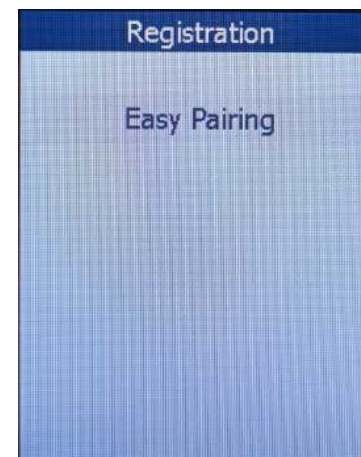


Deployment Toolkit

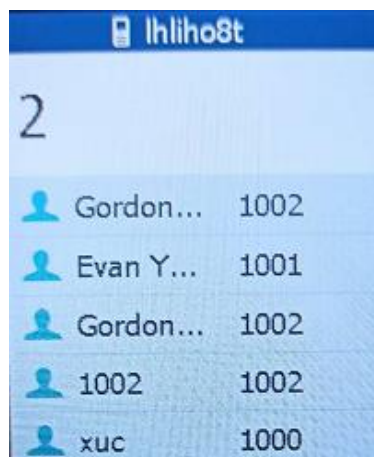
1. Multiple directories support for all users



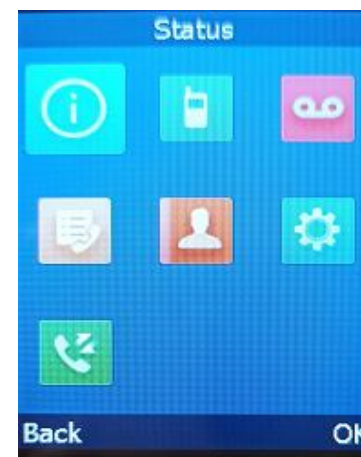
2. Easy paring handset with/out PIN code



3. Quick contact paring while dialing



4. HD color screen and intuitive menu



1. Clear view of system status

Base Station Cluster

1

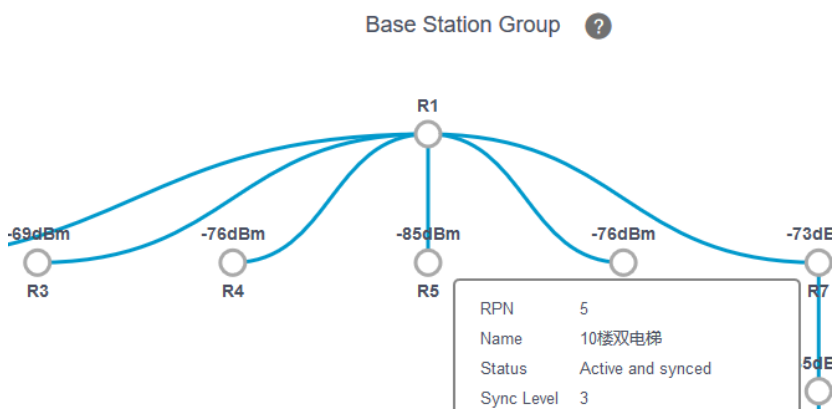
Show Cluster Graph

RPN

Search

2020-01-16 15:54:46 ~ 2020-01-20 11:32:12

IP	MAC	Sync Level	Base Status	RSSI	Interference	Fre / Slot
10.81.56.70	80:5E:C0:A5:AA:99	1	Active and synced	-	-	-
10.81.56.99	80:5E:C0:A5:AA:9B	2	Active and synced	RPN1 (-62dBm)	1	9/6 (Good)



2. Detail system statistics

Statistics

All Calls

Base Stations Calls

Handsets Calls

Abnormal Calls

Upgrade Information

DECT Signal

1	2020-01-20 11:29:11	04:17	Placed Calls
2	2020-01-20 11:31:54	00:00	Missed Calls
3	2020-01-20 11:31:54	00:00	Placed Calls
4	2020-01-20 11:31:35	00:00	Missed Calls
5	2020-01-20 11:20:58	04:47	Received Calls
6	2020-01-20 11:21:19	00:00	Missed Calls
7	2020-01-20 11:16:41	00:49	Received Calls
8	2020-01-20 11:14:30	00:39	Received Calls

3. All base diagnostics

All Base Diagnostics

Server URL

http://10.82.26.190/All_Base_Diagn

Port

Username

?

Password

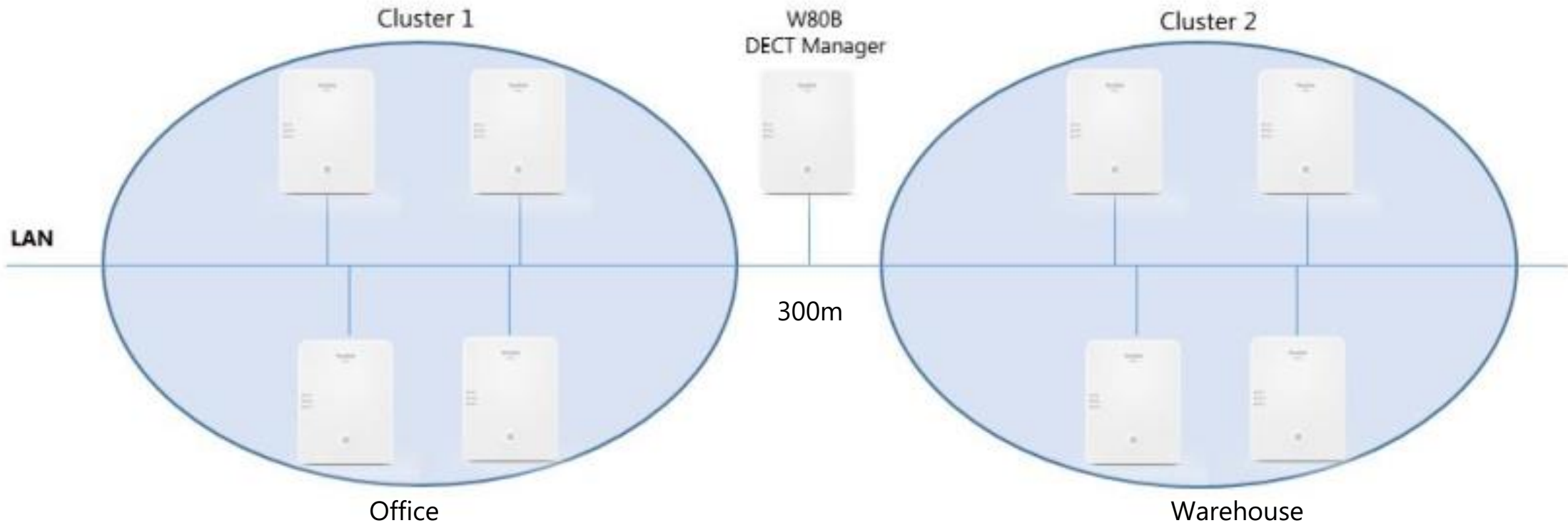
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Type Of Diagnosis

☒ Pcap ☒ Local Log ☐ Bin

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For example, Customer has office and warehouse, and it is 300m in between which is too far to synchronize by DECT signal. So we can configure a Cluster 1 for office and Cluster 2 for warehouse:

1. These two clusters are managed by the DM. It doesn't matter where the DM is located as long as the DM and two clusters network is connectable.
2. Device inside each cluster can enjoy seamless roaming and handover
3. When talking handset moving from cluster 1 range to cluster 2 range, the handset will get disconnected and then auto connect again.

- Top level signal coverage
- Seamless roaming and handover
- Favorable MSRP price with high value
- Easy-to-use user experience from system build-usage- troubleshooting
 - ❖ Site survey: deployment kit or measuring mode on handset
 - ❖ System construct: autop/webUI. Broadcast/non-broadcast network. Manually handset registration/ IPUI/register center
 - ❖ Multi-site deployment
 - ❖ Usage: fast response on dialing, timely contact match when dialing, etc..
 - ❖ Troubleshooting: all base diagnose/system graphic status/system statistics