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# Unbreakable VoIP

Ultra-Reliable Last Mile Connectivity for VoIP Services

# Unreliable Last Mile Connectivity

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- Your service quality ultimately depends on unpredictable customer WAN connections.
  - Latency will result in delays, making conversation difficult.
  - Customer perception that VoIP is unreliable results in pushback.
- MPLS is an expensive way to achieve consistent connectivity.



# Achieve Reliability by Combining Links

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- **Combine multiple commodity links** into one super-reliable VPN connection.
- Customers can add a cellular connection using a USB dongle, further increasing reliability.
- Seamless Failover: If one link fails, other links take over while keeping calls connected.
- **Average of 85% cost savings** compared to MPLS.



**99.999%**  
Reliability

98%

98%

98%

# Minimize Call Latency in Busy Connections

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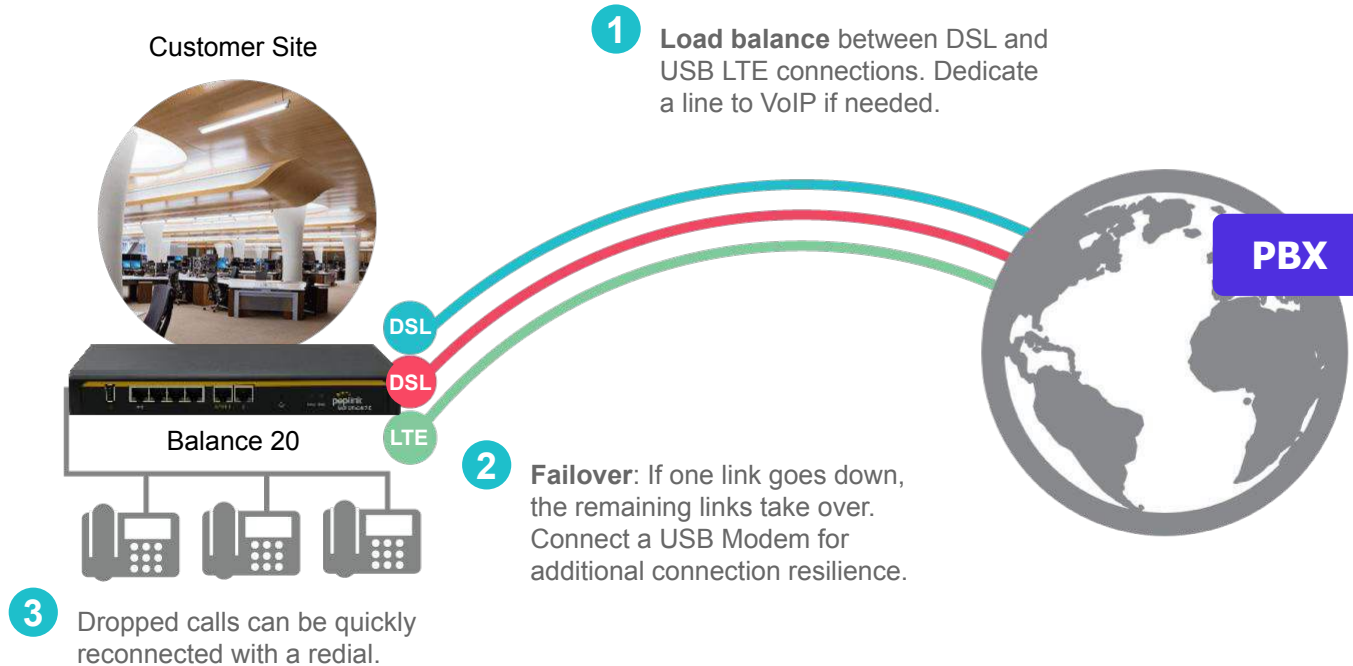


- Offer responsive VoIP even when VoIP and data are sharing the same line.
- QoS enables you to assign different priority levels to different types of traffic. Minimize latency by giving high priority to VoIP traffic.

Application	Priority			?
	Manager	Staff	Guest	
SIP	↑ High	↑ High	↑ High	✘
Skype	↑ High	↑ High	↑ High	✘
HTTP	— Normal	— Normal	— Normal	✘
WoW	↓ Low	↓ Low	↓ Low	✘

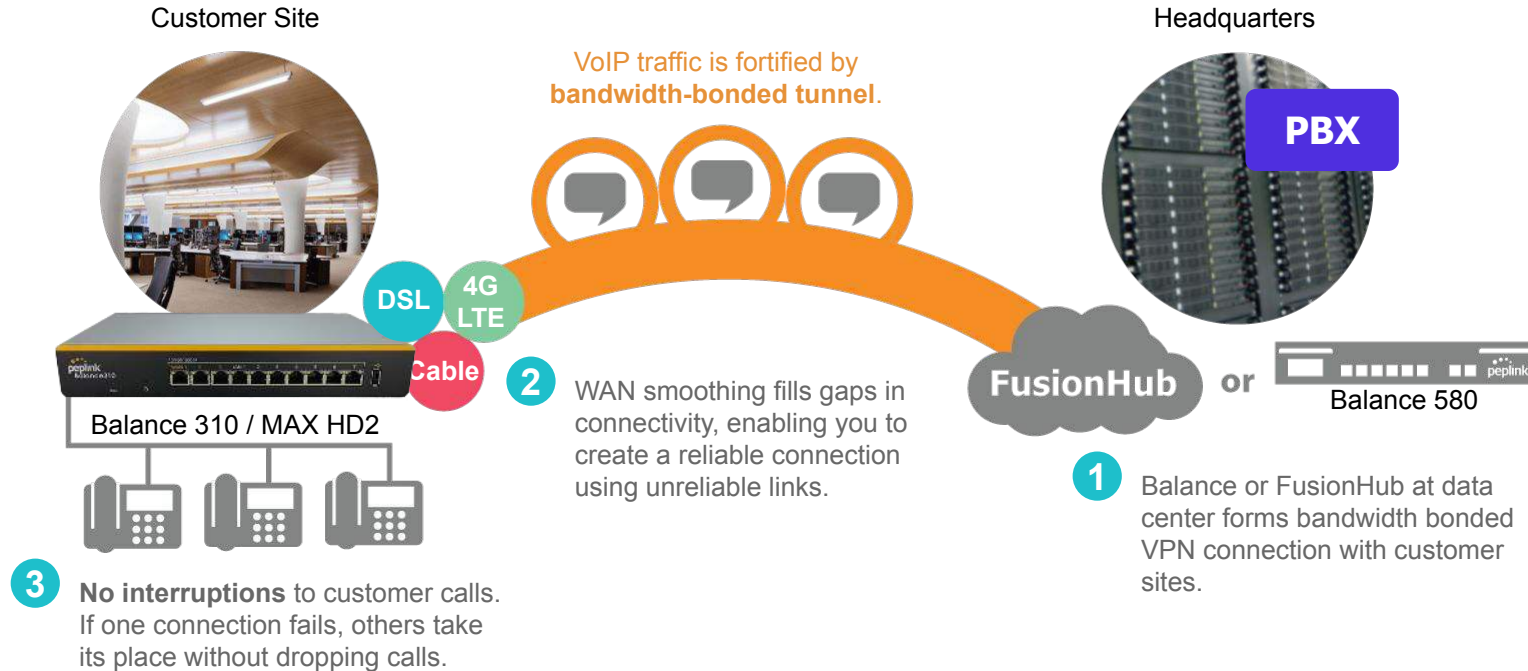
# Reliable Connectivity on a Budget

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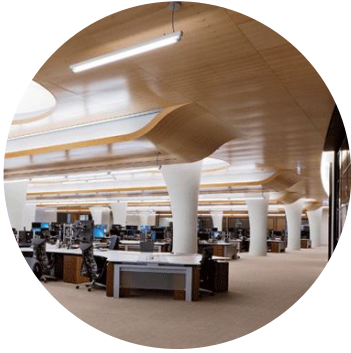
# Achieving Unbreakable VoIP

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# Peplink Products for VoIP Markets

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## For Customer Sites:



**Load Balancing:**  
Balance 20



**Bandwidth Bonding:**  
Balance 310



**Cellular Connectivity:**  
MAX HD2



## For Headquarters:



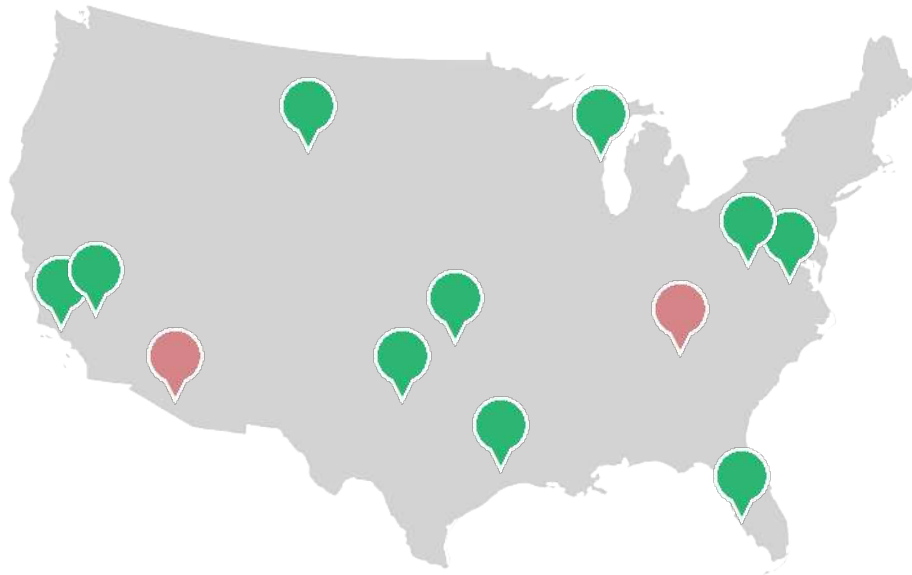
**Cloud-Based:** FusionHub 500



**Physical Server:** Balance 580

# One-Screen Overview of Customer Networks

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View the status of customer networks at a glance and remotely configure devices using InControl 2.

The screenshot shows the InControl 2 dashboard interface. At the top, there is a navigation bar with the InControl 2 logo and several tabs: Group Level, Testing Organization, Head Office, and Dashboard. Below the navigation bar, there are icons for Dashboard, Reports, PePVPN / SpeedFusion, WiFi AP, Clients, and Settings.

The main content area is titled "Device Summary" and displays two summary cards: "Online 12 device(s)" and "Offline 3 device(s)".

Below the summary is a "Device List" section with a search bar and a dropdown menu showing "15 device(s)". The list contains the following data:

Status	Name	Tags	Wi-Fi Config	Product Name	Online
Online	AP One (Production)	Production	Group level settings	Peppwave AP One	now
Online	AP One 300M (Conference)	Office	Group level settings	Peppwave AP One 300M	now
Online	AP One 300Mv2 (Conference)	Office	Group level settings	Peppwave AP One 300M	now
Online	AP One AC mini (Demo Floor)	Office	Group level settings	Peppwave AP One AC mini	now
Online	AP One AC Mini (Marketing)	Office	Group level settings	Peppwave AP One AC mini	now
Online	AP One AC Mini (near Admin)	Office	Group level settings	Peppwave AP One AC mini	now
Online	AP One AC mini (near Wireless)	Office	Group level settings	Peppwave AP One AC mini	now
Online	AP One Flex (Production)	Production	Group level settings	Peppwave AP One Flex	now
Online	AP One InWall (Production)	Production	Group level settings	Peppwave AP One In-Wall	now
Online	Conference InWall	Office	Group level settings	Peppwave AP One In-Wall	now
Online	HD4 Marketing		Device managed	Peppwave MAX HD4	now
Online	L2 SF for VoIP		-	Peplink Balance 500 (HW1)	now
Offline	A9 Show Room	A9	Group level settings	Peppwave AP One AC mini	3 months
Offline	AP One 300M (. IDLE .)	Office	Group level settings	Peppwave AP One 300M	3 months
Offline	PSung	Office	Group level settings	Peppwave AP One 300M	5 months

At the bottom of the device list, there is a link to "Download as CSV" and a "Manage..." button.



# SpeedFusion Alliance

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- A coalition of solution providers delivering connection resilience by applying and promoting SpeedFusion technology.
- Obtain specialized products for VoIP providers:
  - **FusionHub MSP edition:** Unlimited bandwidth, one-time price for each customer site.
  - **Exclusive Customer Site Equipment:** Highly affordable bandwidth bonding devices exclusively for Alliance use.



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## Case Study - Pluss Social Enterprise. UK.

### Unbreakable VoIP



- 37 sites: Balance 1350, Balance 310
- Needed reliability network to support corporate services - Citrix, VoIP
- Peplink SpeedFusion VPN replaced costly leased lines
- **Winning Factors**
  - reduced operating expenditure, lower support requirements
  - agility in adding and removing different types and classes of bandwidth

*"Our Peplink WAN has become a strategic enabler of all of our customer facing services."* -Steve Taylor, IT Manager