
	<p><b>EMERGENCY MEASURES RADIO GROUP</b></p>
	<p><b>OTTAWA ARES</b></p>

Two Names - One Group - One Purpose

# **Amateur Radio Data Communications DEMO NETWORK**

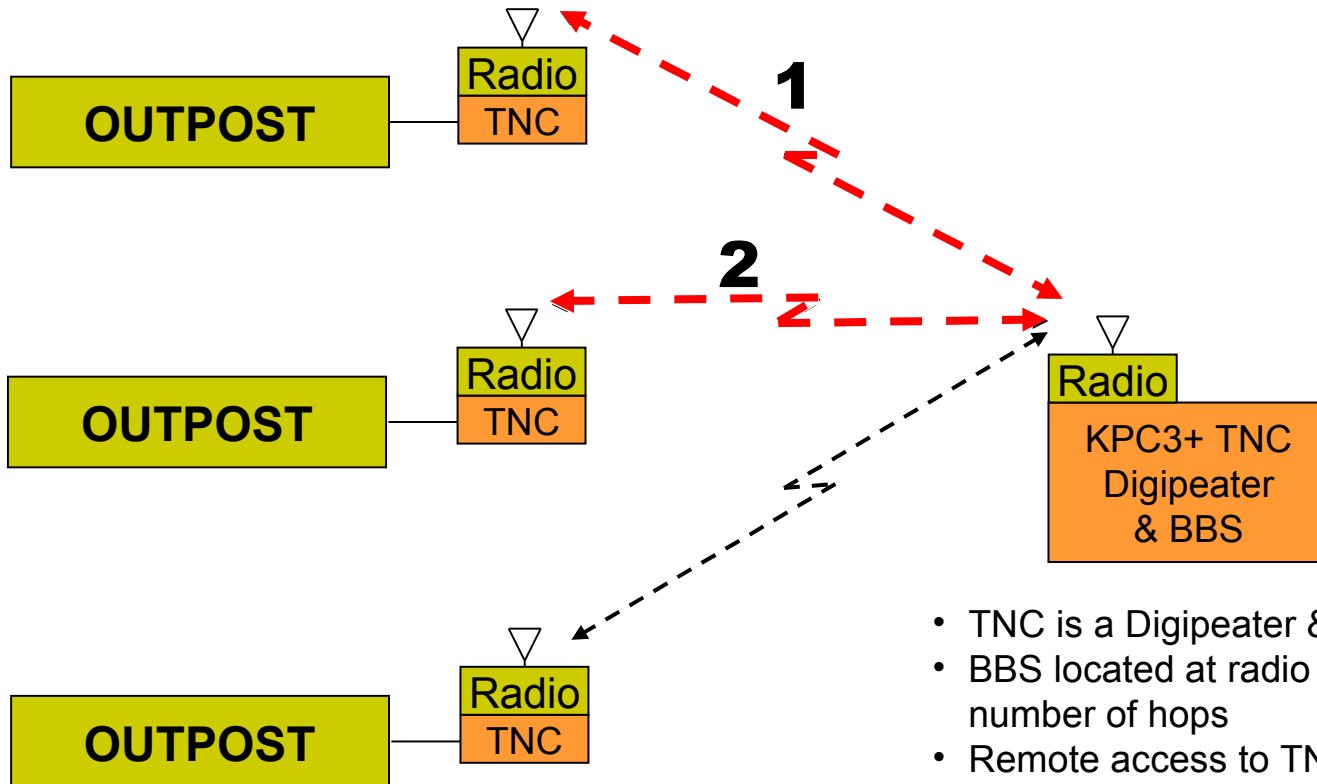
# PURPOSE

- The purpose of the Technology Demo is to show people some of the things that EMRG is working on, and some ideas that are possible based on available technology .
- Hopefully some people will take some of these ideas, or get ideas of their own, and experiment to find solutions that can be applied to EMRG problems.

# BASIC DATA COMMUNICATIONS

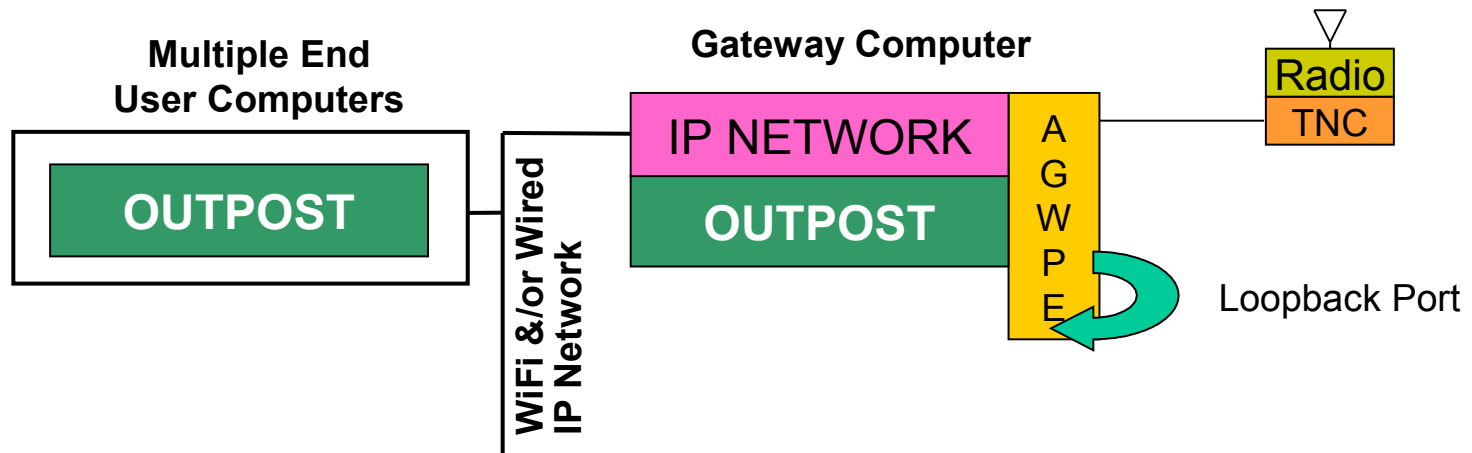
## Outpost & TNC BBS

Message from source to destination in 2 hops



- TNC is a Digipeater & a BBS
- BBS located at radio site to reduce the number of hops
- Remote access to TNC for configuration or reset
- Simultaneous multi user access

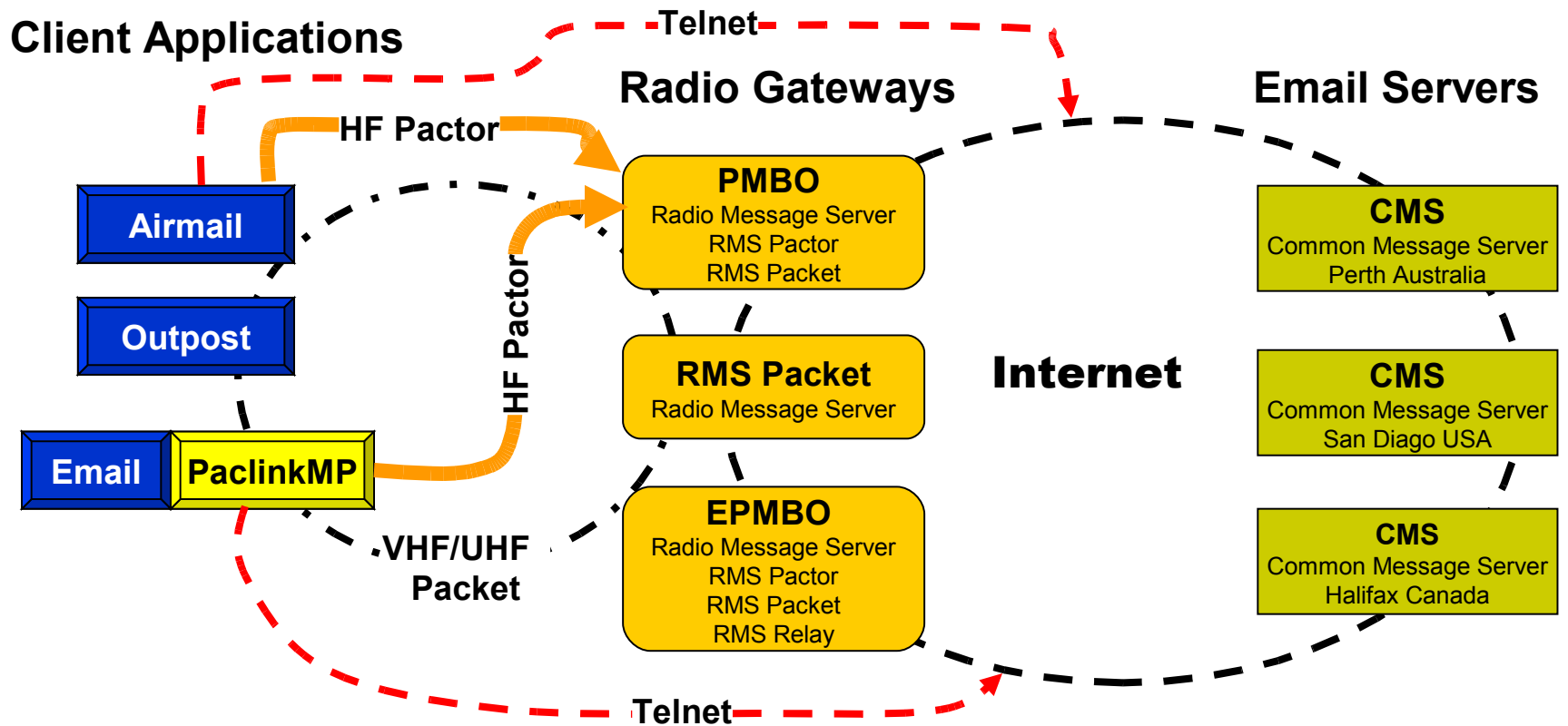
# OUTPOST WITH AGWPE



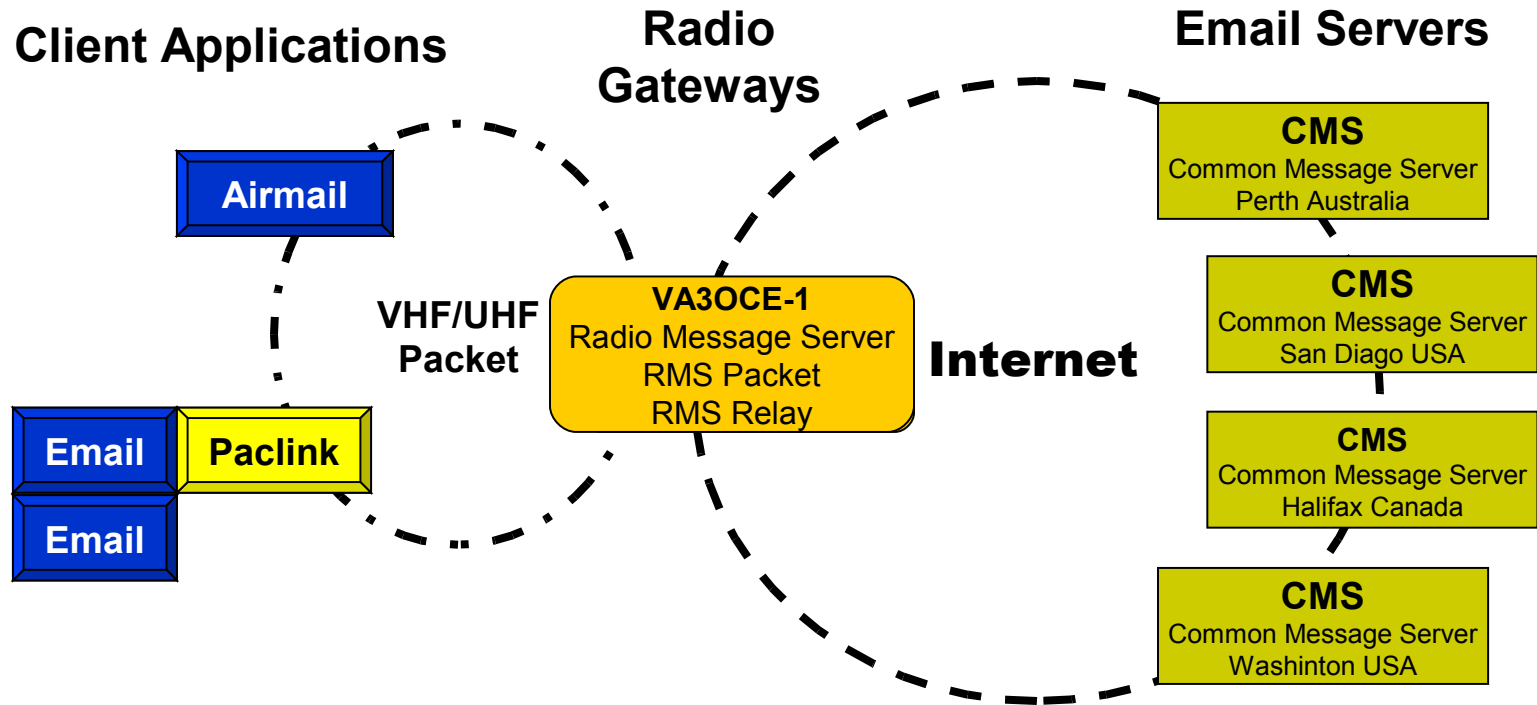


# Winlink 2000

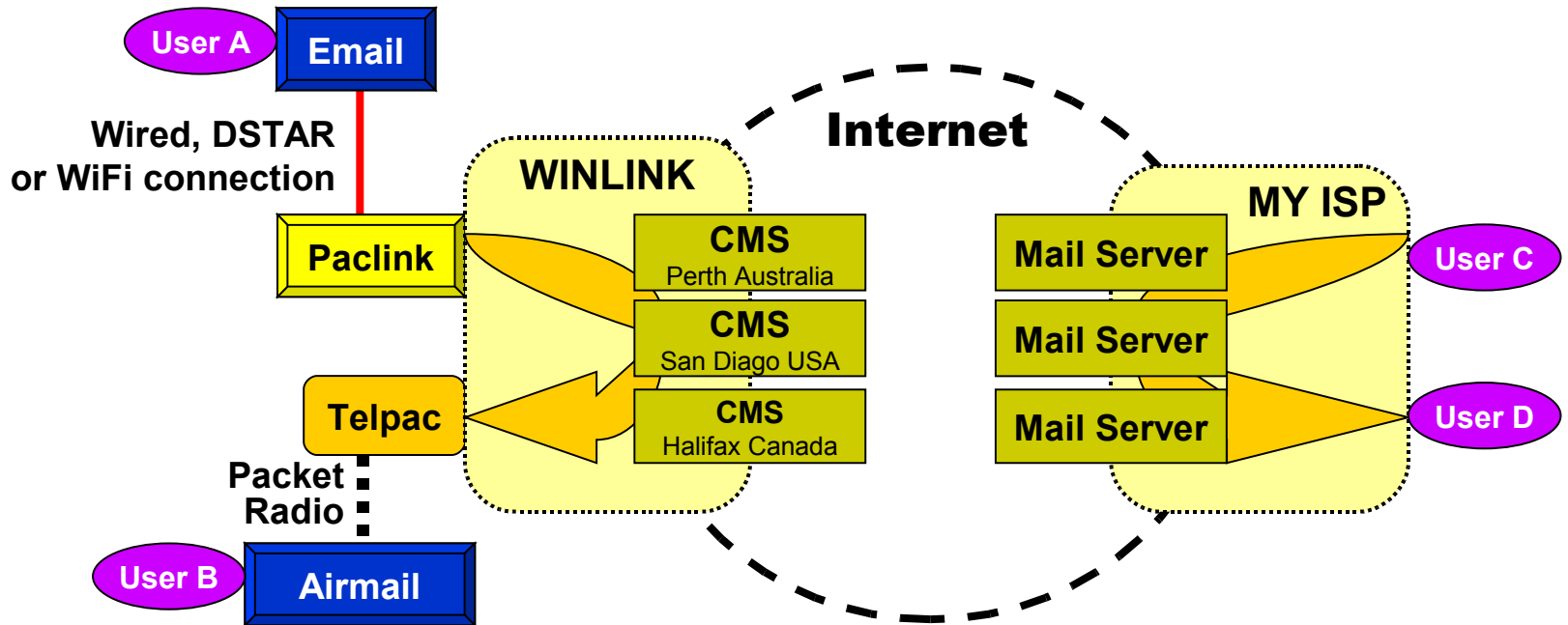
Winlink 2000 is an Email System made up of 3 components;



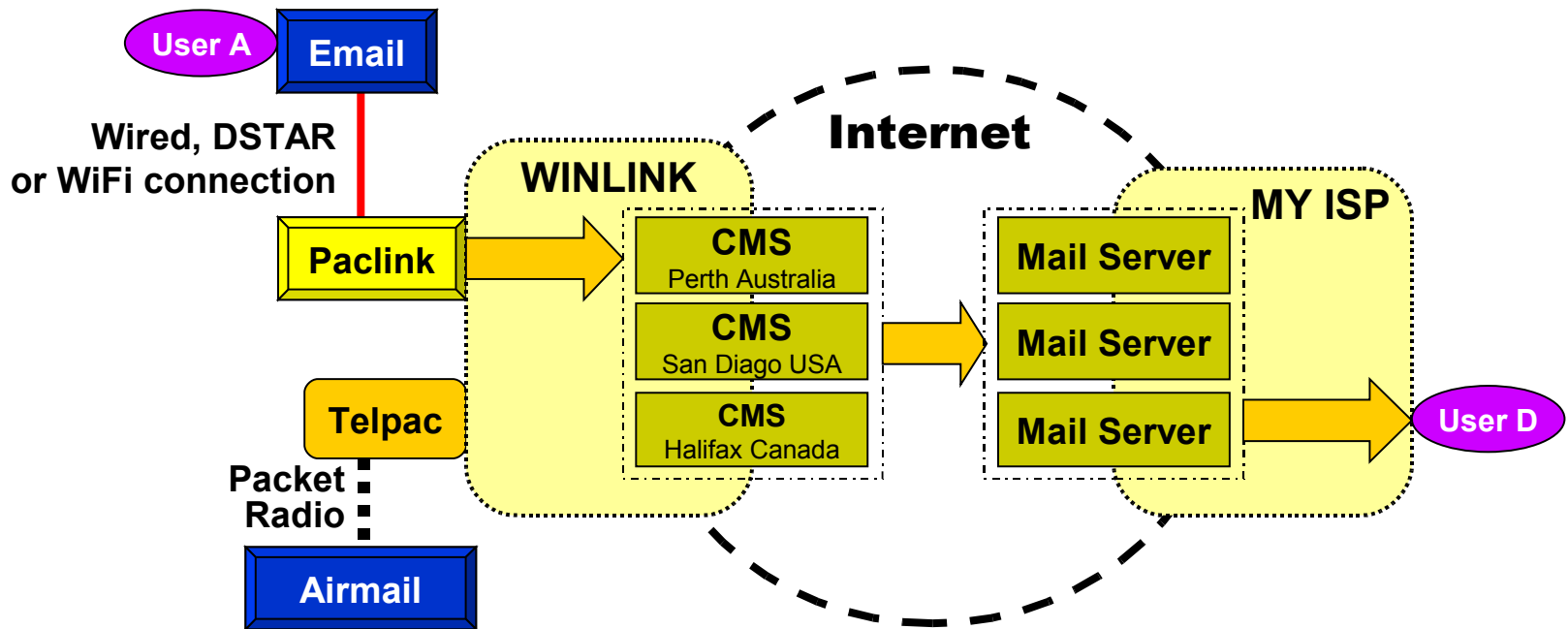
# TYPICAL WINLINK SYSTEM



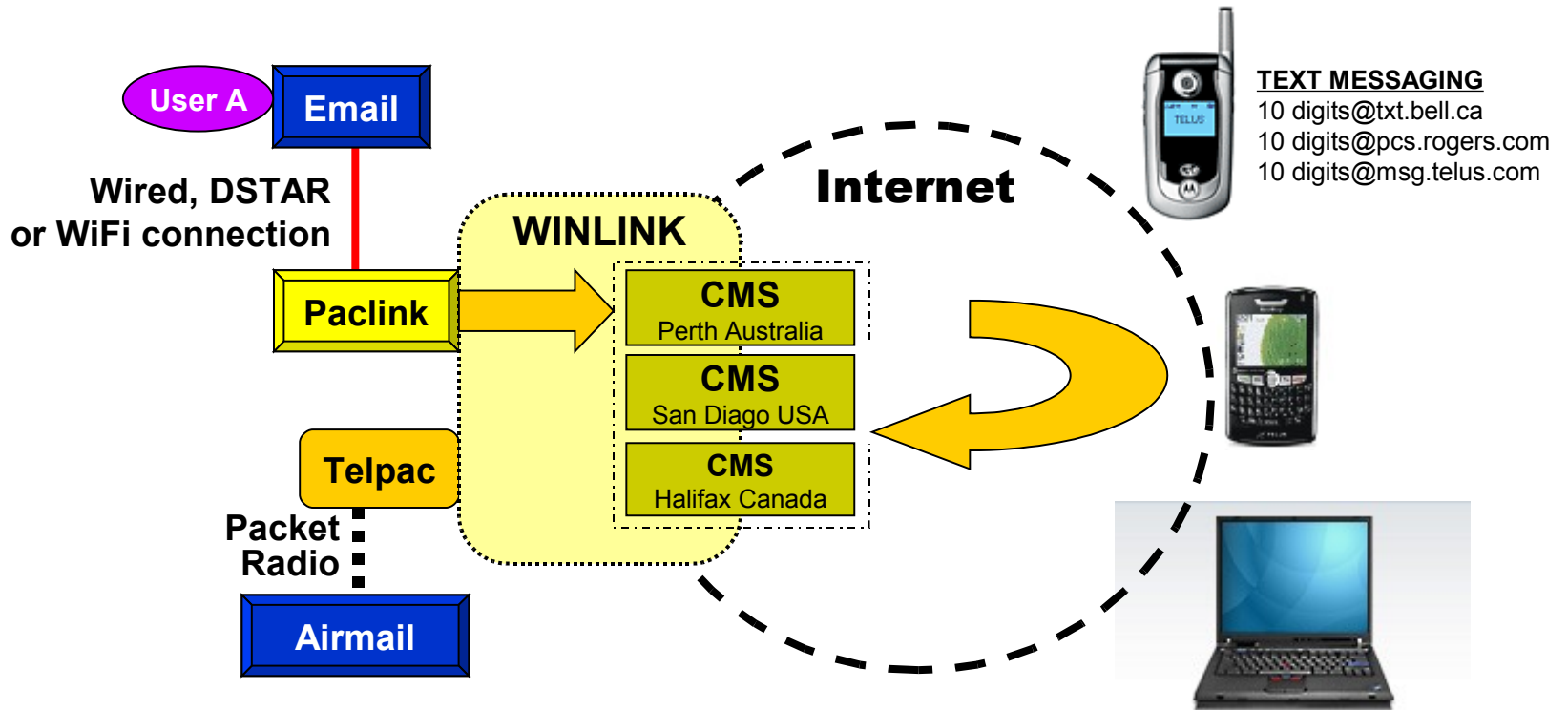
# WINLINK LIKE AN ISP



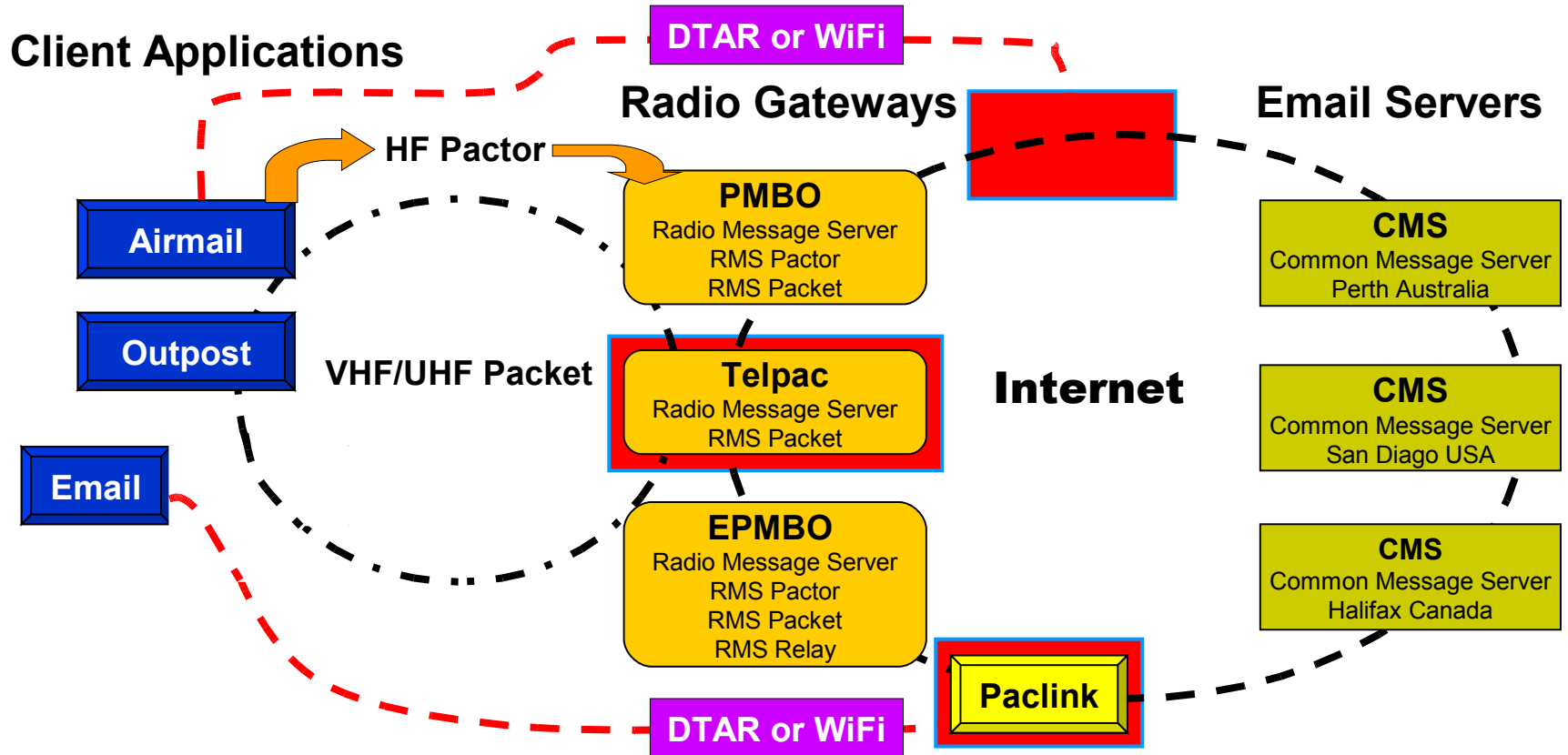
# WINLINK TO “MY ISP”



# WINLINK TO ANY EMAIL



# DSTAR & WiFi



# Voice over IP (VoIP)



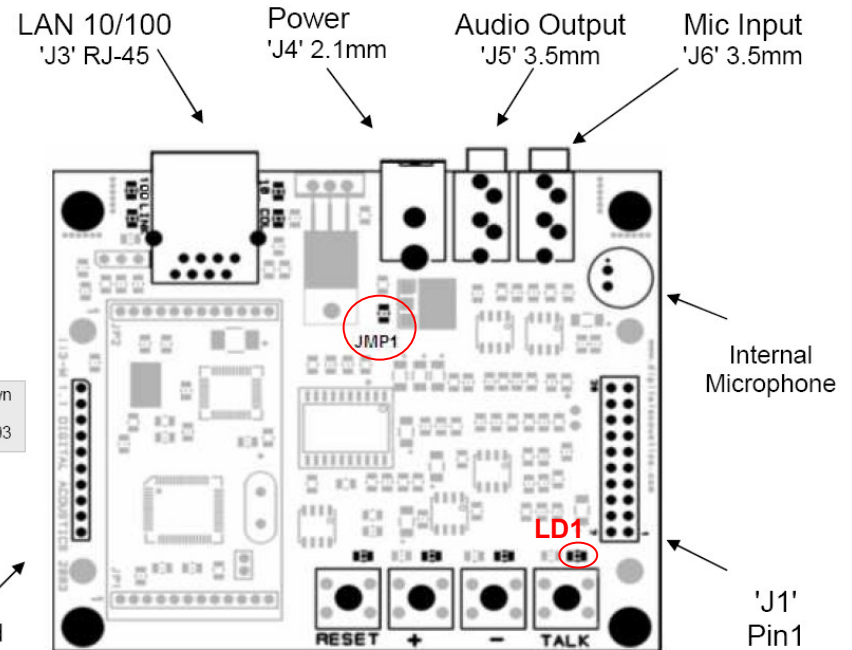
The system is made up of 2 ii3 VoIP Intercom units, configured for Peer to Peer mode, with one as a Client and the other as a server.

## Voice over IP Standalone Audio Interface

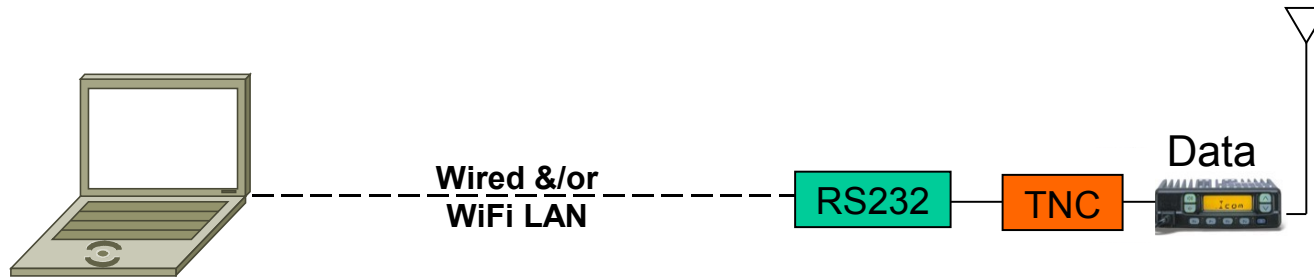


Version shown  
ii3-M  
Released 6-03

'J2'  
Reserved

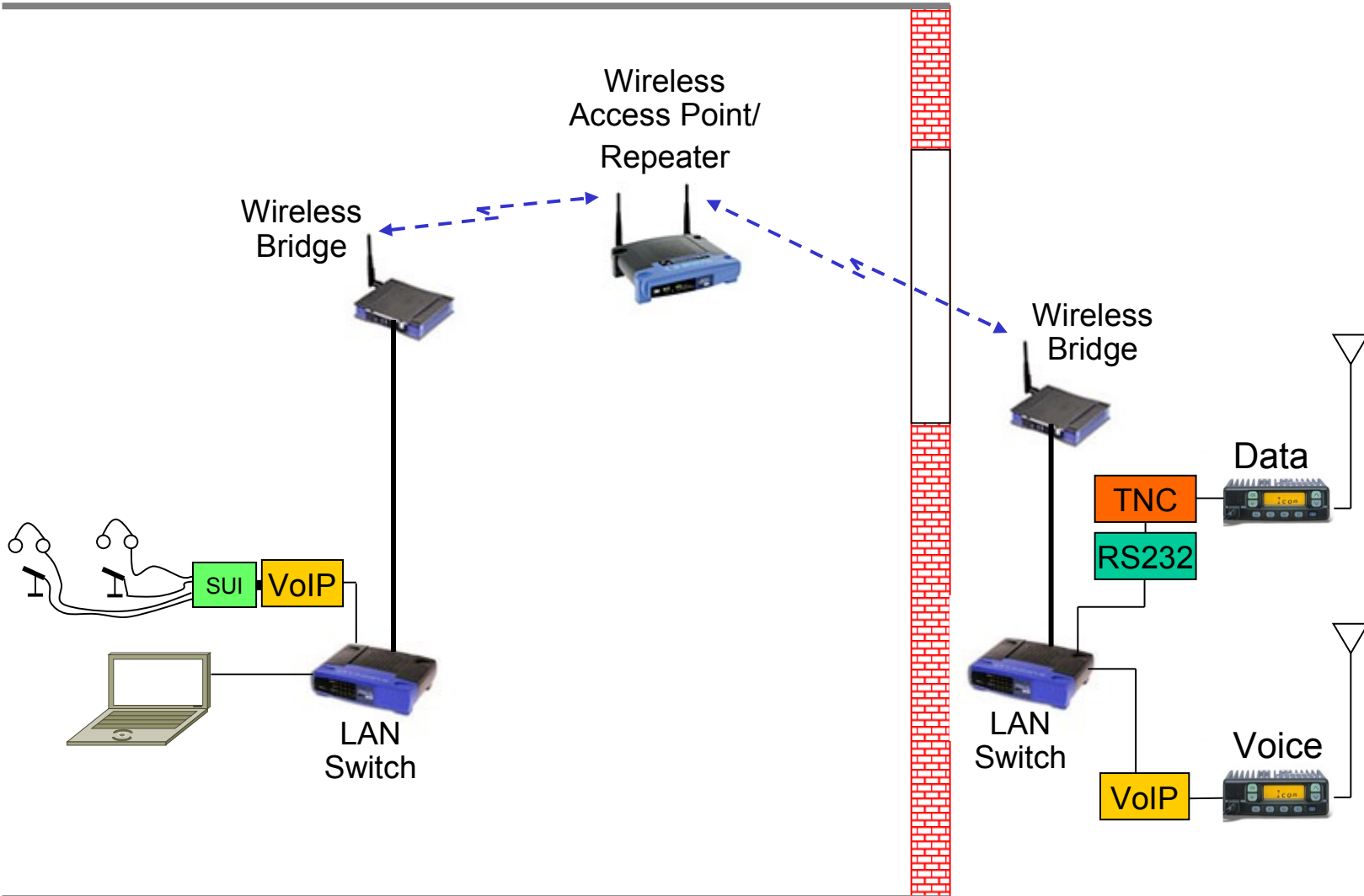


# RS232 Serial Extension



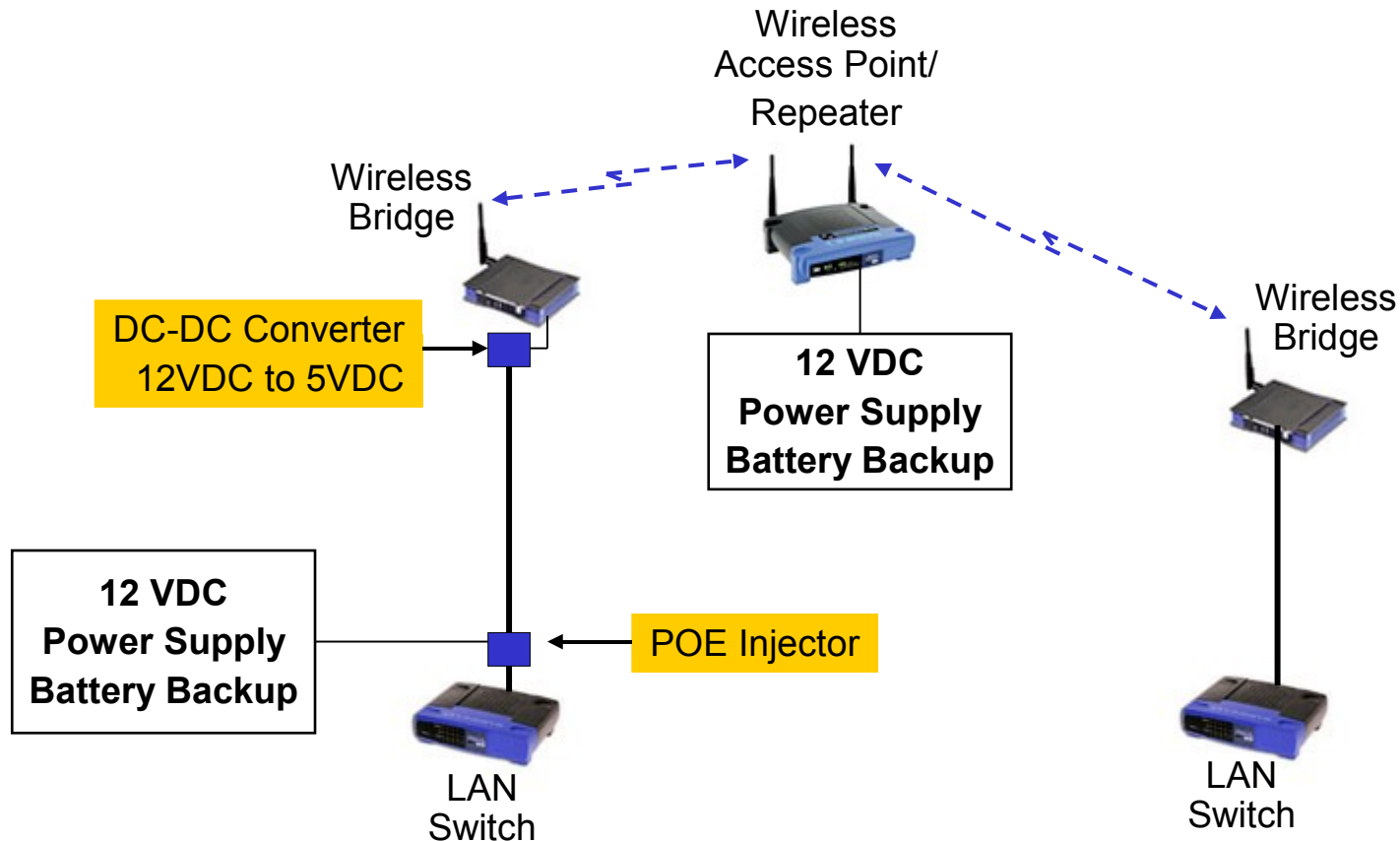
**Serial Communications  
RS232 Over Ethernet**

# Sealed Buildings

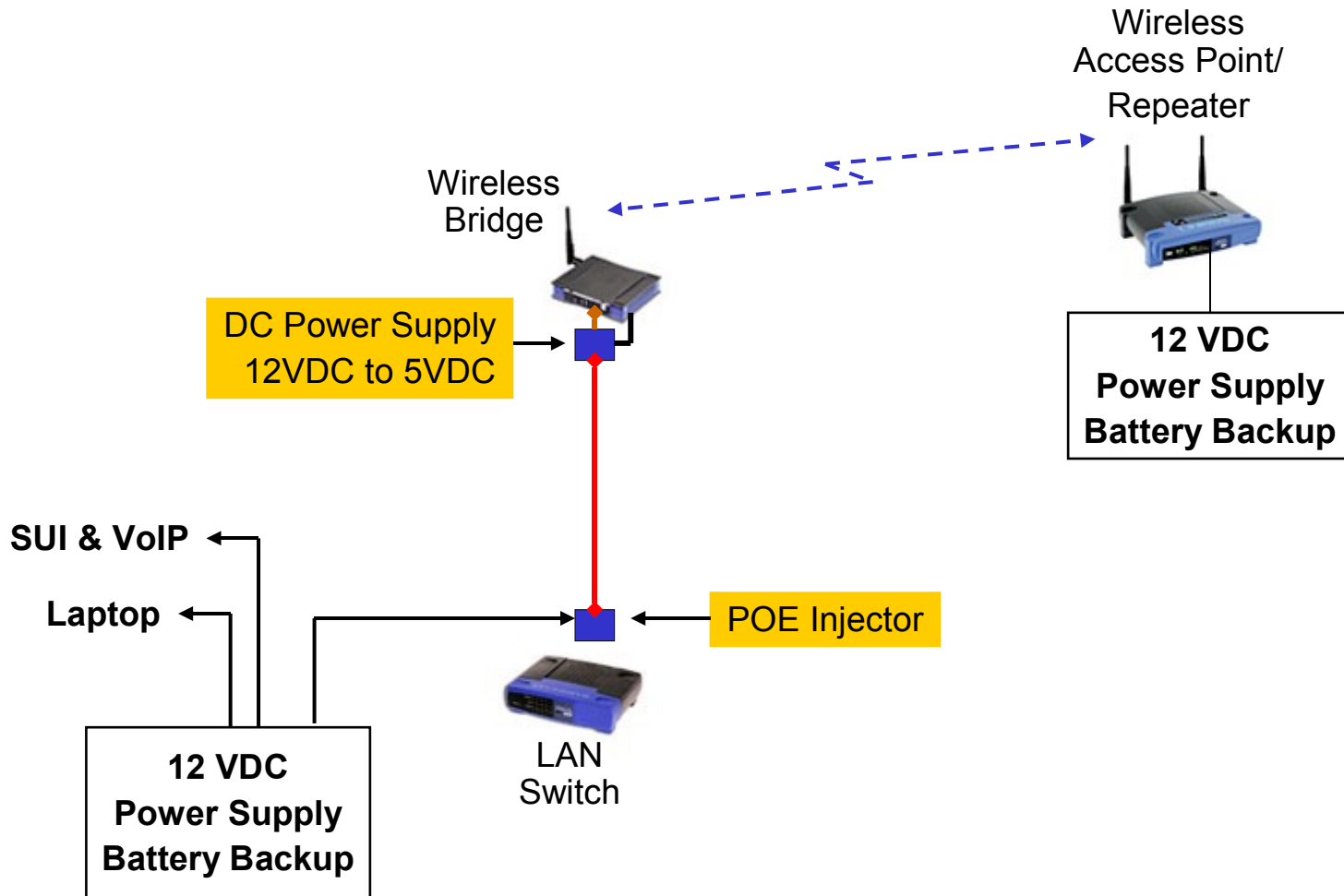


**Computers Inside, while Radios & “Appliance” Devices are Outside**

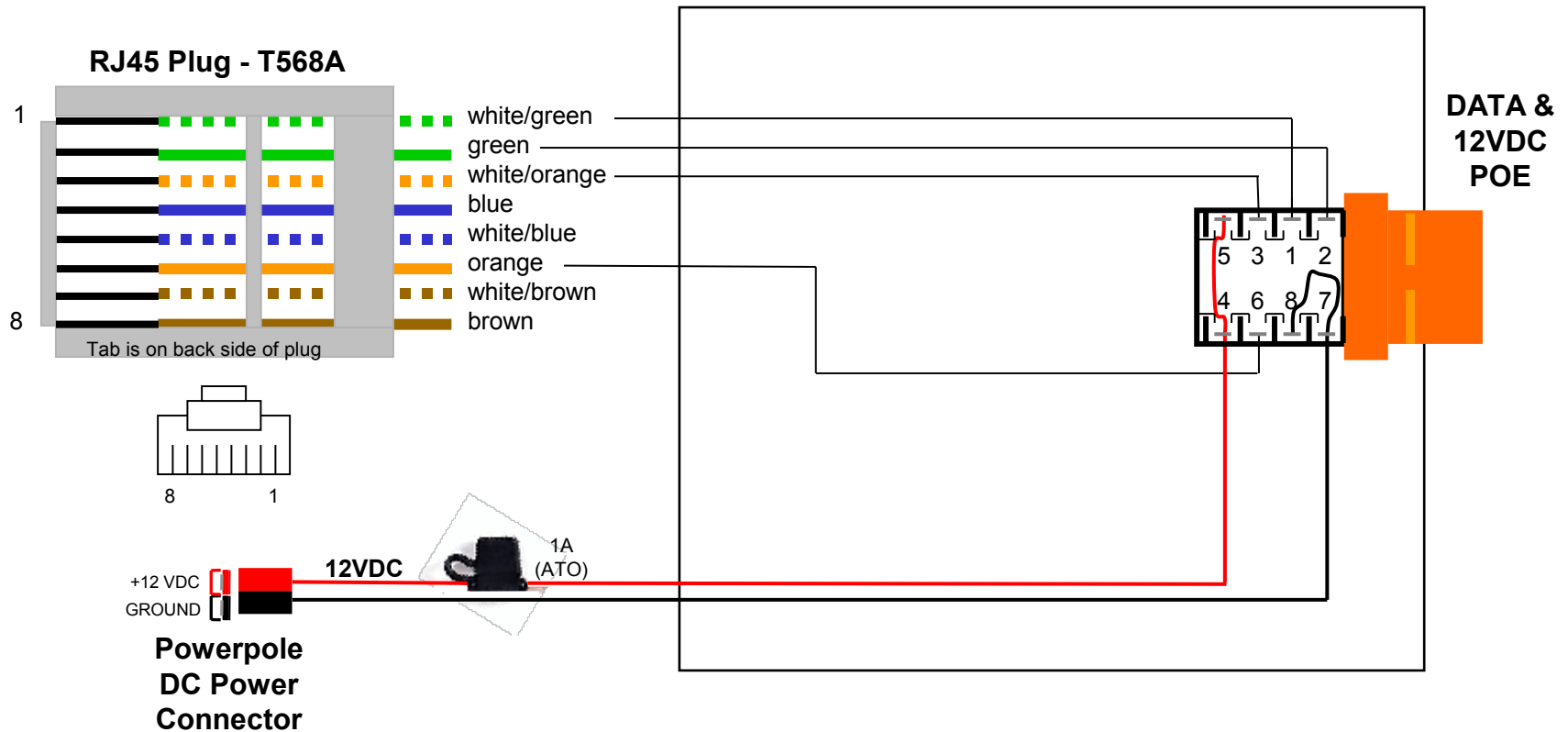
# POWERING THE LAN



# POWERING THE LAN

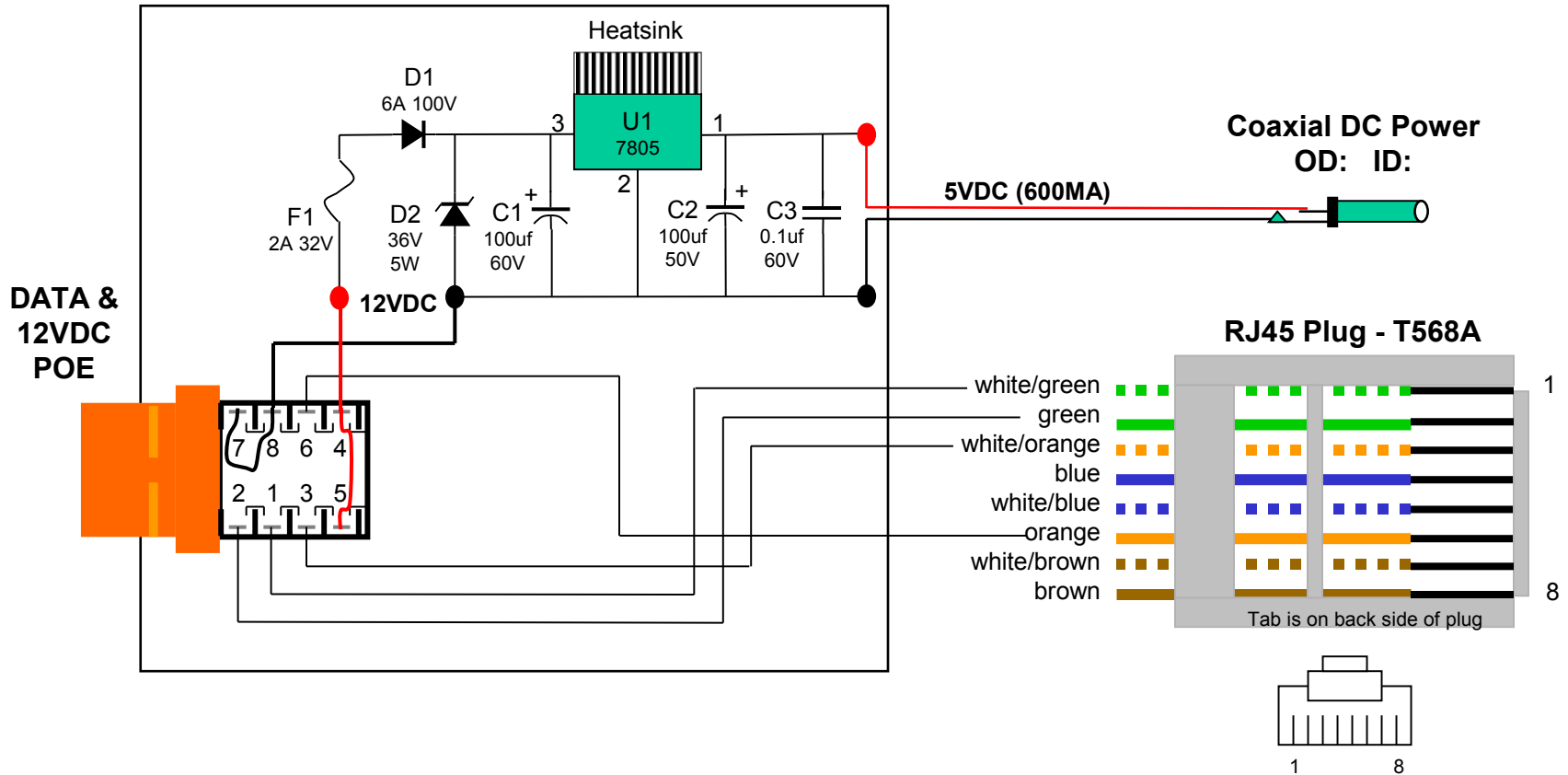


# Power Over Ethernet (POE) 12 VDC Power Injector



# Power Over Ethernet (POE)

## 5 VDC Power Supply



# DEMO STATIONS

