Using Your Current Wi-Fi Network with the CardioVision Telemetry System

The CardioVision Telemetry System will work with most Wi-Fi networks as long as that network has adequate pickup throughout the telemetry floor. A zero-hand off "controlled" wi-fi network, sometimes called a "mesh" network is preferred, but not required. Tri-Tec Monitors offers free testing of your facility's network for compatibility. Even if your current network is found to be incompatible, Tri -Tec can install a proprietary wi-fi network just for the telemetry floor. If your wi-fi network is found to be compatible, there are additional requirements that must be met.

In a nutshell, your IT Department will have to reserve and assign a group of static IP addresses for the CardioVision System. How many, is determined by the number of channels the system will have. A system consists of a server computer and its Wi-Fi Telemetry Transmitters. The server will require 1 IP address and each telemetry transmitter will require 1 IP address each. Using an 8 channel system as an example, You would need to assign at least 9 static IP's on the same WI-FI subnet that are not controlled by the DHCP allocator of your router. One for the server and one for each transmitter. It is also preferable to assign them in a sequential block to avoid confusion. For example:

CardioVision Server	**192.168.1.100**
Transmitter 1	**192.168.1.101**
Transmitter 2	**192.168.1.102**
Transmitter 3	**192.168.1.103**
Transmitter 4	**192.168.1.104**
Transmitter 5	**192.168.1.105**
Transmitter 6	**192.168.1.106**
Transmitter 7	**192.168.1.107**
Transmitter 8	**192.168.1.108**

We can put up to 16 channels per CPU Server. So a 16 Channel System would require 17 Static IP's. If your facility requires more than 16 channels, multiple servers can be daisy chained together to form a super system. For example: A 32 channel system would require 2 servers and 32 transmitters. This system would require 34 Static IP addresses.

Further requirements include that a Cat 6 cable be pulled to connect each server to the main network switch that controls your Wi-Fi network. Also each transmitter will have to be programmed with the following information:

1. **Wi-Fi SSID**
2. **Wi-Fi Password**
3. **Security Mode Used (The transmitters support WPA2-AES and WPA-TKIP)**
4. **Router Gateway IP Address**
5. **Subnet Mask**

For more information on transmitter programming please refer to the document " How to program a Wi-Fi Transmitter".