

## 1. Short Intro to CORANet

CORANet is the first system that provides health care personnel with immediate access to an individual's medical records, while also putting true ownership of those records into the hands of that individual. To learn more, read on.

### 1.1. Problem Description

In a world in which people are becoming increasingly mobile, there is a greater need than ever for individuals to be able to access their medical records quickly and securely, wherever they travel. Those records also must become available to medical personnel, no matter which of the more than 300 different EMR systems a medical operation uses to gather information about its patients. Currently, that need is not being fulfilled.

CORANet is poised to address this by providing the *interoperability*, *security*, *functionality*, *availability* and *mobility* issues that each of us will require in this rapidly changing world.

### 1.2. The Solution – CORANet™

CORANet is a true mobile solution for accessing and carrying medical records. It solves the problem of a lack of patient access to her or his records by providing a system made up of two major components:

1. The Server Component – CORANet™ Integration Server (IntegServer)
2. CORAVault™ - a mobile application to be executed on mobile devices such as cellphones, tablet PCs, laptops etc.

CORANet™ servers are an essential integration layer without which EMR systems cannot communicate with each other. As different EMR systems implement different proprietary protocols, there is virtually no way to communicate between the different systems. CORANet servers serve as the required integration layer. With the servers, the system can access the different EMR systems, consolidate medical records information and provide a concise, single “view” of those records to the different stakeholders. CORANet™ servers do not store any EMR data and serve as a “pass through” only as the data is transferred from the EMR systems to CORAVault™.

CORAVault™ is the application of choice for storing and carrying medical records, it is a true mobile software solution.

Medical records are encrypted (256 bit) and stored on the phone's memory card, called CORALinks™.

It is important to note that PHR information is *not* stored on CORAnet servers and hence the PHR information resides at the PHR source (various, already approved EMR / PHR systems) or on the user's mobile device where the information is encrypted (256 bits) and protected by username / password.

All communication between CORAnet components is done using SSL.

Protected by international patents, CORAnet™ integrates cutting edge mobile (Android, iPhone, Symbian, etc) and server technologies for real time medical records management, location and tracking over cellular and wireless network.

The following drawing provides the high level outline of the system and its major components:

