

I3 Systems Use Case

Integrated Wellness and Healthcare Systems

Current Operations: Healthcare technology systems go through a long testing process with intense scrutiny from a number of governmental agencies, insurance companies, and healthcare providers before they are certified for use in a healthcare setting. This is not unreasonable given that people's lives depend on these systems and doctors make life and death decisions based on the data derived from the system. In contrast, advances in technology have spawned a large number of consumer grade wellness products that provide similar kinds of data to consumers. While these consumer products do serve to promote health awareness, the data from these systems has not been generally accepted as an alternative for certified healthcare data.

Issues: While many consumers appreciate the value of consumer grade wellness devices, they are unaware of the rigors required to test professional grade healthcare data systems. If healthcare professionals disregard consumer generated wellness data, they are effectively disregarding the consumer's interest in health which undermines the patient's relationship with the healthcare community. Wellness data and healthcare data should be managed differently with healthcare data being controlled as HIPAA while wellness data is designed to be shared with family, fitness, diet, and host of other wellness professionals that do not have access to HIPAA controlled data. Consumers also should have the ability to share their wellness data with their healthcare provider and the healthcare provider should acknowledge the data to warn of situations that may warrant more studied examination.

Solution: i3 Systems was designed to support data flows in environments where data producers/owners are encouraged to play an active role in how and when their data is used. This data management philosophy works well for wellness data especially at a time when many consumers are concerned about data privacy issues. In contrast, HIPAA data is managed by healthcare professionals that operate under strict regulatory controls. While i3 can provide a gateway that provides healthcare professionals access to consumer wellness data and gives consumers the freedom to self-determine which other parties have access to wellness data, its position ensures that consumers do not have direct access to sensitive HIPAA data.

Benefit: The establishment of independent but interconnected data environments allows healthcare professionals continued access to medical grade healthcare information and provides a portal to patient wellness data. The establishment of a wellness data network allows consumers to manage their personal wellness data in a way that gives them an active voice in determining how their data is used and who can access that data. Just like the world of communications was forever changed when telcom companies provided consumers with the ability to determine which parties they wanted to communicate with, the wellness environment will be forever changed when consumers have the ability to self-determine the parties that are permitted to have access to their self-generated wellness data.

Status: This is not a dream. i3 Systems is currently working with the City of Los Angeles and a host of technology focused companies to deploy a data governance and management system that manages the interaction between data producers and data consumers. This system has been architected as a series of modular building blocks which operate on top of a core data fabric. The base infrastructure has been deployed by the City of Los Angeles and is being integrated into several projects to enable data to be managed between departments. I3 is seen as a key initiative for the city and an enabling technology which will allow residents to partner with the city by sharing data that can improve city services. This same technology can be used to facilitate sharing between consumers with data producing wellness devices and other wellness and healthcare professional that have been approved for access by the consumer.