



# Medical Center Environment

The Medical Center at MIT is a complete Medical Center, combining both in-patient and out-patient facilities, based on the MIT campus and operated by MIT. The Center is similarly both a provider of medical services, and an insurer or payor, providing medical insurance for students and employees of MIT. As a result their IT environment resembles that of any large medical practice. The fact that the Medical Center is a part of MIT is reflected only in the fact that it's patients are affiliated in some way to MIT and that some patient and financial data flows between systems within the medical center and other systems at MIT.

The first key system at the Medical Center is the Practice Management System. This system is responsible for many of the operational aspects of the Medical Center. It contains patient data, manages work done under the MIT HMO organization, manages registration and enrollment information and the student health program. The Practice Management System is an implementation of a system provided by IDX, with several custom modules written to extend the functionality to match MIT requirements.

The Electronic Medical Record system is an implementation of Allscripts' Touchworks product and is the central repository for all information pertaining to a patients medical record (visits, treatments, prescriptions etc.).

The Paper Record Scanning system is a system designed to digitally scan paper based medical records accumulated by the Medical Center and enter them in to the Electronic Medical Record System.

Patient On-Line is an online patient portal that is, at time of writing, limited in functionality. The vision for Patient On-Line is that it would become a significant channel for patients to view their medical information and interact with the Medical Center in a self-service manner that is also HIPPA compliant.

The Interface Engine is responsible for managing all interfaces to the TouchWorks electronic medical record. These include demographic and appointment data, prescription drug and diagnostic test data from Medical's custom systems and scanned documents from the Scan system. Of particular note among the external systems is E-Scripton. This is a system maintained by an Application Service Provider for the purpose of transcribing medical information captured verbally by doctors into text which can be stored within an electronic patient records.

