## **Current Environment ---- The Industry**

- Healthcare is a \$1.7 trillion dollar industry, which is: highly fragmented, labor intensive, expensive, highly competitive...
- Healthcare Industry has undergone rapid growth and regulation, which has generated significant stress:
  - Increased processes and workflow requirements;
  - Created additional standards and industry specifications without compliant implementations;
  - Increased the demand for services, documentation, coordination and paper processing with potential liabilities.

"Every year at least 98,000 Americans die and millions more are injured as a result of medical errors" The Institute of Medicine

"Standardized information exchange would save the nation \$86.8 Billion each year"

Blackford Middleton

Chairman, Center for Information Technology Leadership0



- The amount of detailed healthcare information is overwhelming.
- The ability to generate the information has outstripped its usability.
- Commercial and proprietary solutions have generated multiple environments without the basic interoperability of information.
- Healthcare information systems encompass vastly different types of information tracking from pre-natal to post-mortem.
- Process oriented automated solutions are impractical in the current manually driven context.
- Industry standards and specifications are broad, complex and lack implementations.
- Industry has suffered from proliferation of new technologies which have yielded more complexities rather than collaborative solutions.
- Privacy and security are of critical concern.





Patients demand care provider integrate across the entire value chain of medical, insurance, accounting and record keeping systems.



The following must be achieved to be successful:

- Create, manage, store, and retrieve an interoperable Electronic Health Record (EHR), which conforms to the industry standards.
- Preserve and protect the privacy, security, and identity of individuals and systems.
- Adapt legacy environments:
  - Data and Information
  - Work flow processes
  - Skills and training
- Create a new generation of human-to-machine and machine-to-machine interfaces and interoperability.

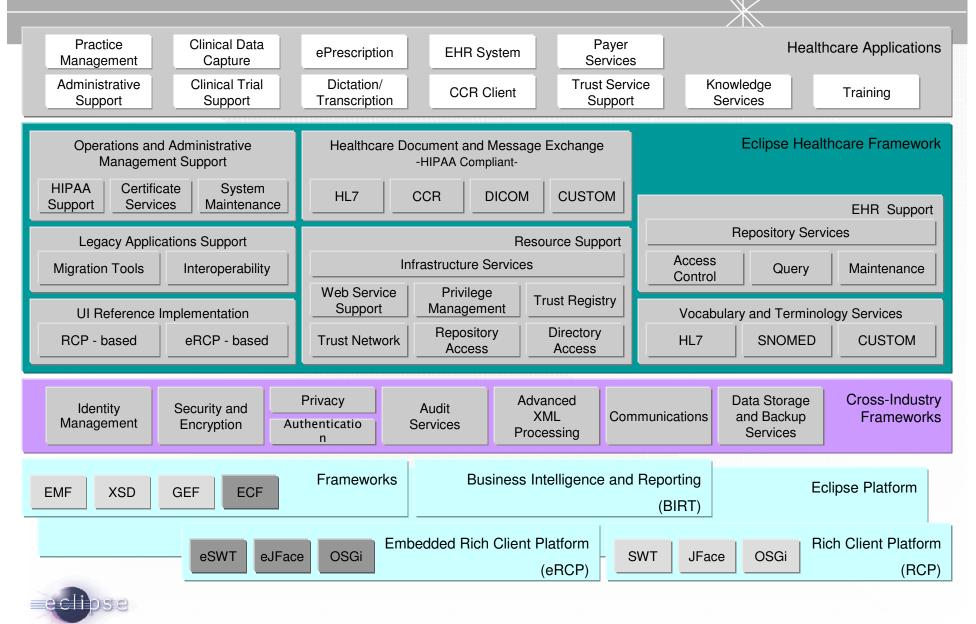


#### Proposed Solution Launch an Eclipse-based Healthcare Vertical Project

- Create Open Healthcare Framework (OHF) to address the needs of the healthcare industry.
  - Build OHF on top of the Eclipse platform.
  - Integrate OHF with the healthcare standards, specifications and governmental regulations.
- Dedicate the scope to include:
  - An open source reference implementation for creating, maintaining, managing and securing an Electronic Health Record (EHR).
  - Technology that will provide the foundation for the integration, interoperability, development, and operations of EHR across the entire healthcare domain.
  - Series of exemplary applications to demonstrate the vitality & viability of OHF.
- Enable commercial adoption of OHF:
  - Enable the public and private healthcare organizations to build a robust set of common cross-industry open source components (plug-ins) for OHF.
  - Enable the 3<sup>rd</sup> party application providers to build interoperable applications for profit by reusing OHF.



#### **Summary Detailed View of Eclipse Healthcare Architecture**



## HL7/ OMG eHR System Functional Model

#### **Definition:**

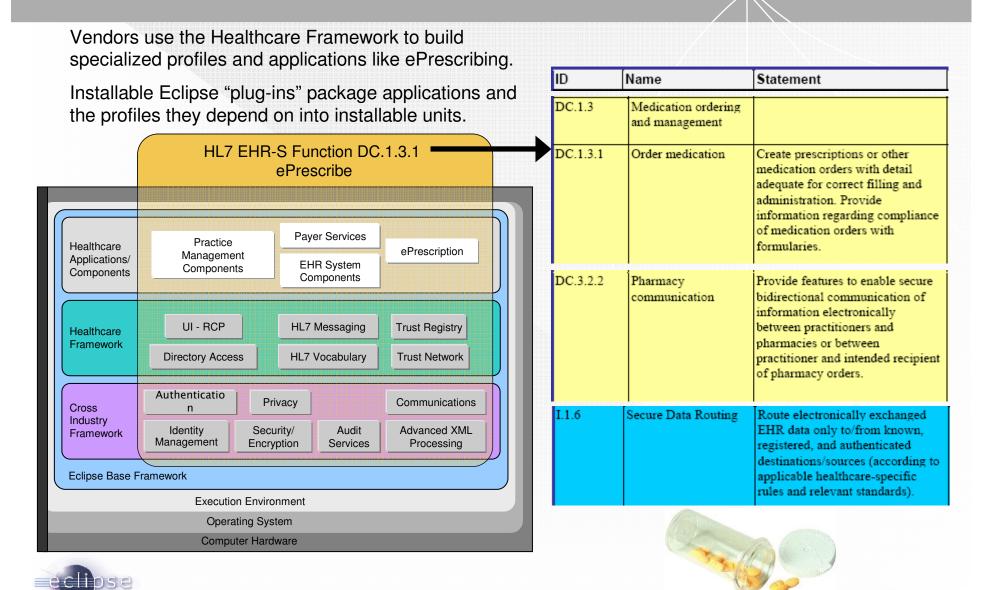
The HL7 / OMG eHR System Functional Model provides a comprehensive set of reference Functions and their associated Functional Descriptors that may be present in an Electronic Health Record System (eHR-S). The Functions are intended to become a common specification that can be used by vendors, providers, regulators, policymakers, and other parties when describing the capabilities of eHR-S and Sub-System applications.

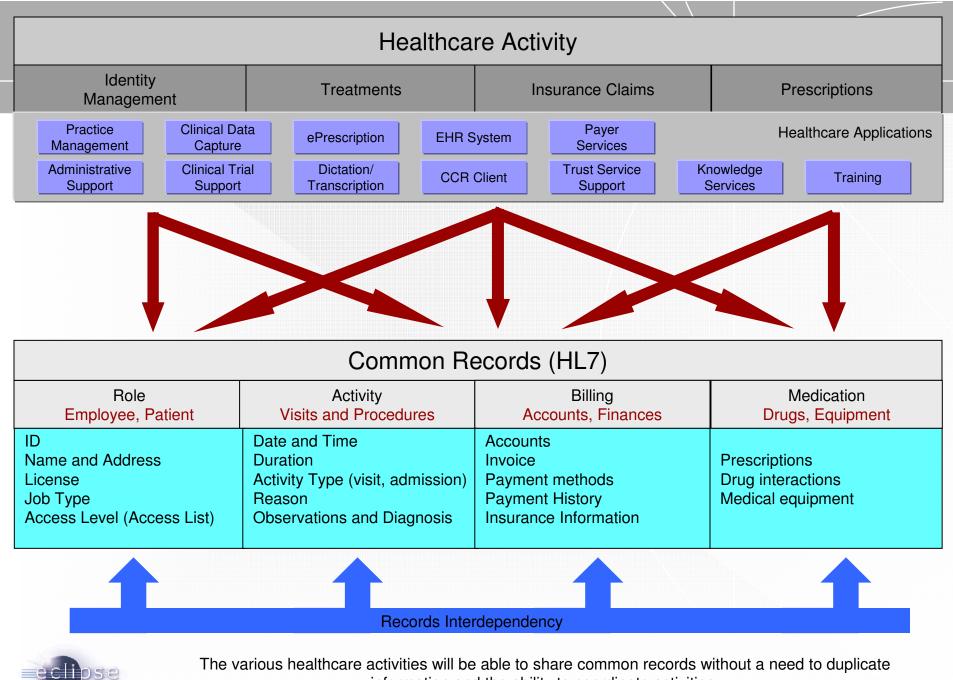
"The HL7 / OMG eHR-S Functional Model and Standard judiciously stays away from implementation issues. The vendor-generated innovation and applicable know-how is what will give life to the functions within the model."

> HL7 EHR System Functional Model: A Major Development Towards Consensus on Electronic Health Record System Functionality- A White Paper

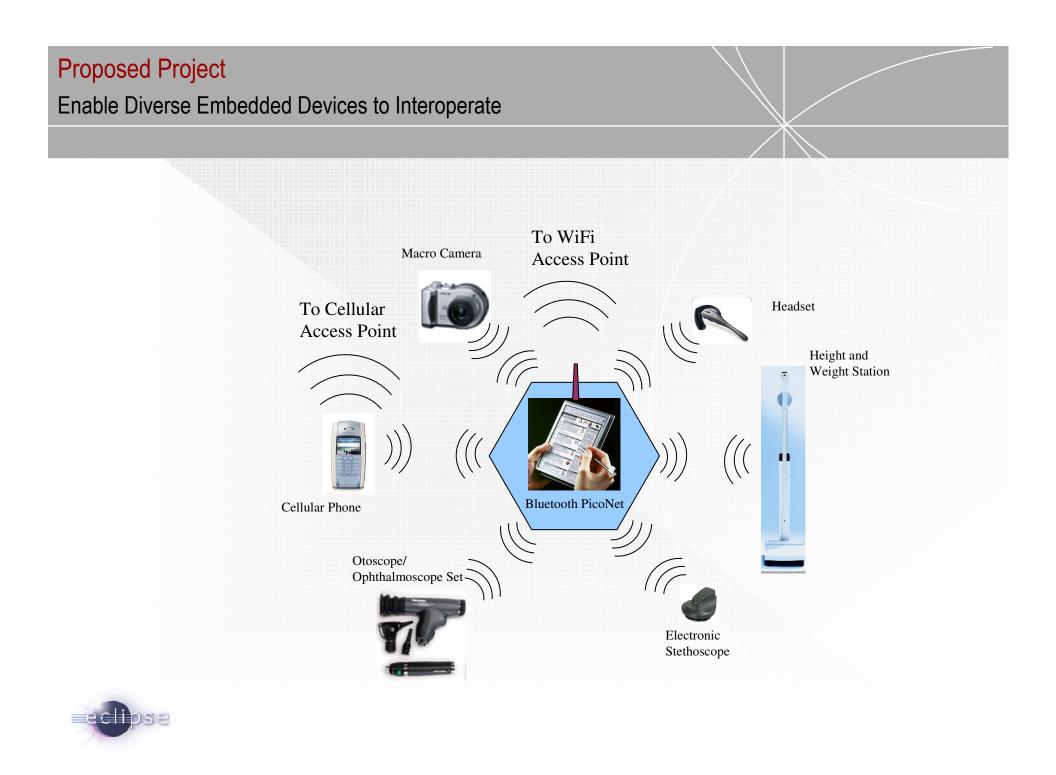


### Example – Vendor ePrescription Sub-Profile





information and the ability to coordinate activities.



# Introducing ITG

- Global system integration firm, based in Los Angeles, CA.
- Leader in creating OHF via the Eclipse project.
- Draws from a pool of 1500+ R&D IT personnel in Ukraine.
- Specializes in the following Competency Centers:

✓Eclipse / Open Source	✓Security
✓Healthcare	✓Banking
✓Automotive	✓Security
✓Telecom	✓Embedded

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