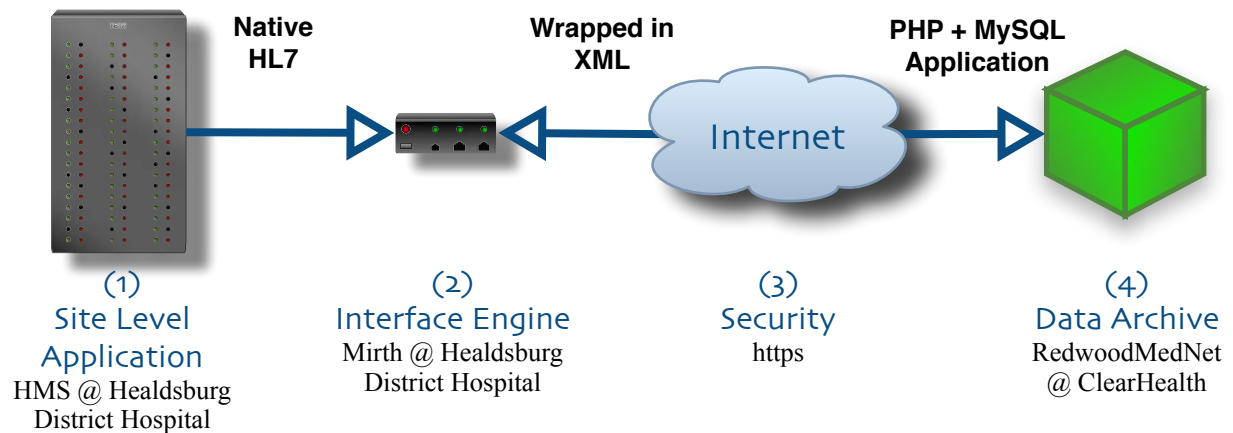


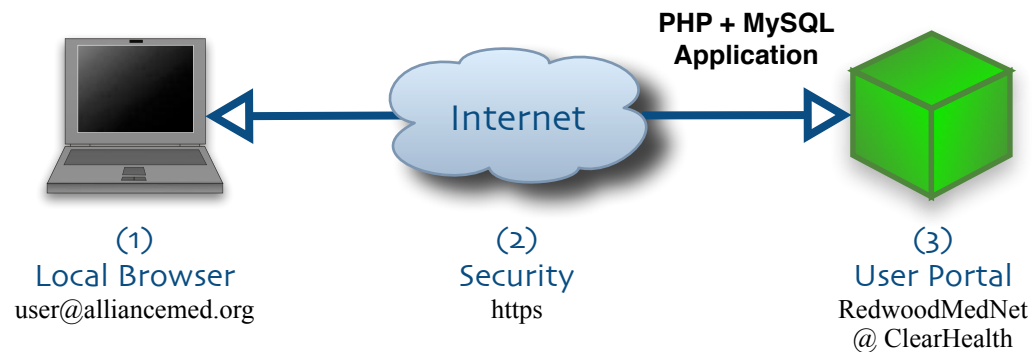
Inbound Health Data

- (1) Site Level Application pushes Lab Result Data from Data Provider to Mirth
- (2) Mirth parses the incoming data stream, filters messages on one field against a lookup table, and builds an outbound database of filtered messages
- (3) ClearHealth issues a web services query to Mirth once per hour
- (4) In response to a valid query, Mirth retrieves Lab Result Data from the outbound database, encloses the data inside an XML wrapper, includes a destination address acquired from the lookup table, presents the transformed message to ClearHealth, and sets a “message delivery” flag to prevent a repeat query of the same message



Outbound Health Data

- (1) ClearHealth uses destination address to post Lab Result Data as messages in the In Box of an Authorized User
- (2) From a secure browser session, an Authorized User queries their In Box on the User Portal for delivered Lab Result Data
- (3) In Box on the User Portal allows Authorized User to view Lab Result Data



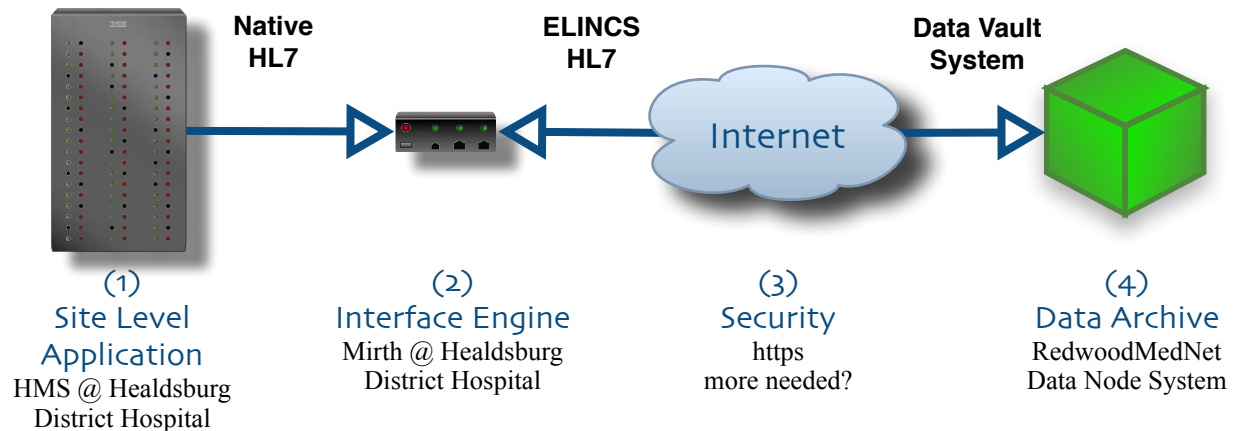
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<i>site</i>	Minformatics HSP
<i>author</i>	Will Ross
<i>date</i>	27 September 2007
<i>document</i>	1.0.j

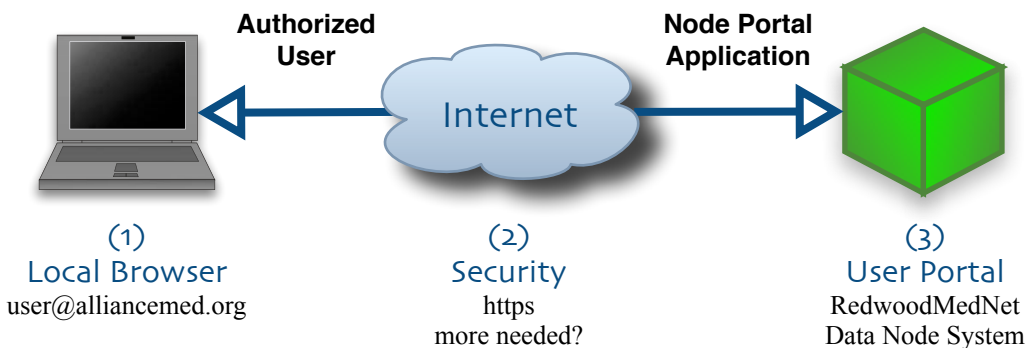
Inbound Health Data

- + Site Level Application pushes Lab Result Data from Data Provider to Mirth box
- + Mirth parses incoming data stream
 - Filters message against destination lookup table to acquire routing value
 - Transforms Lab Result Data into ELINCS compliant XML
 - Loads outbound queue with filtered and transformed messages
 - Tracks when queued messages are retrieved to prevent redelivery of same message
- + Archiving subsystem copies inbound and outbound queues of Mirth box
- + Security subsystem encrypts health data and protects message traffic
- + Access subsystem manages user roles, node permissions, swarm auditing
- + LOINC subsystem correctly codes incoming message traffic
- + Node Data Vault system securely hosts standardized data acquired by inbound health data process



Outbound Health Data

- + Node Portal queues Lab Result Data as unread messages in the In Box of an Authorized User
- + From a secure browser session, Authorized User queries In Box for delivered Lab Result Data
- + In Box allows Authorized User to view Lab Result Data
- + Node Portal manages Authorized User roles



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<i>date</i>	18 October 2007
<i>document</i>	1.0.c