Digital Bridge – Technical Architecture Diagram Narrative Approved Jan. 19, 2017

*See Task Flow Diagram

Task Steps #1, 2, 3

Task Steps #4, 5, 6, 8

Task Step #7

Task Steps #9.20

Task Steps #11, 12, 14, 17

Inputs

Integrated EHR (desktop, mobile, peripherals)

Outputs

A patient begins their visit and their medical information is recorded through integrated instruments and manual entry into their integrated EHR systems. The information within the software is automatically saved to the backend system.

The eICR and/or reportability response documents are received

by the PH Integration Layer. Upon

successful receipt, validation, and

parsing, an acknowledgement is

sent back to Decision Support

Intermediary using Secure

Transport*.

Inputs

Integrated EHR

(internal

system/

background)

Outputs

Decision Support Secure Transport*

eICR to PH

Task Step #18, 19

> Reportability Response to **HC Provider**

Secure Transport*

eICR &/or Reportability Response to

PH

Inputs

AIMS (AWS Platform)

Outputs

The eICR is received and validated by AIMS. Errors are returned to the

provider, and validated eICR

determine reportability. AIMS

routing rules through Secure

based on a data persistence

operations that are confirmed

documents are sent to RCKMS to

response to the HC Provider and

receives and routes the reportability

receives and routes the eICR and/or

Transport*. Information is retained

determination (correlation of RR,

reportability response to PH based on

Outputs

RCKMS

Inputs

The backend of the integrated EHR system compares the coded clinical information with the PH trigger codes. Upon a match, and according to the eICR Trigger Sequence Diagram**, the system builds the eICR, sends it to the **Decision Support Intermediary** (AIMS) through Secure Transport*

and documents the activity related

to reporting and not reporting.

Task Step #21, 23

RCKMS receives the eICR from AIMS, determines reportability, builds the response, and sends the reportability response back to AIMS to be routed to the appropriate party(s).

Secure Transport*

delivery).

Inputs

Public Health Integration layer

Outputs

Legend

HC Provider Decision Support Public Health

*Secure Transport (e.g. Web Services, PHINMS, VPN, S3, SFTP, DirectTrust, FHIR, Sequoia)

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