

RHEA: The Rwandan Health Information Mediator

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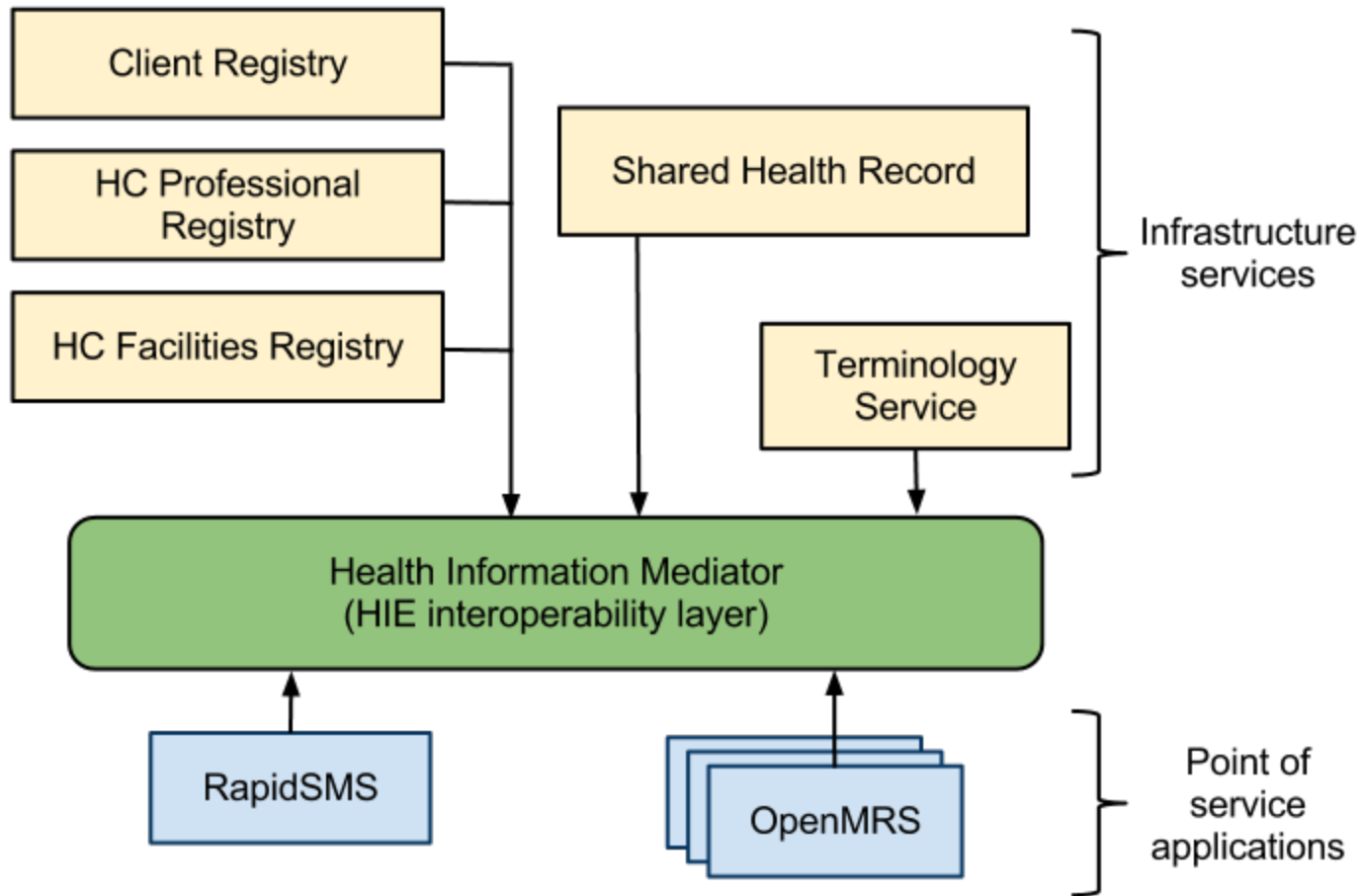
Jembi Health Systems
UKZN: HeAL Laboratory

The interoperability problem

Many disparate system deployed and managed by many different organization.

This makes creating a cohesive National health Information Systems difficult.

An approach is to create a Health Information Exchange to manage the complexity of interoperability.

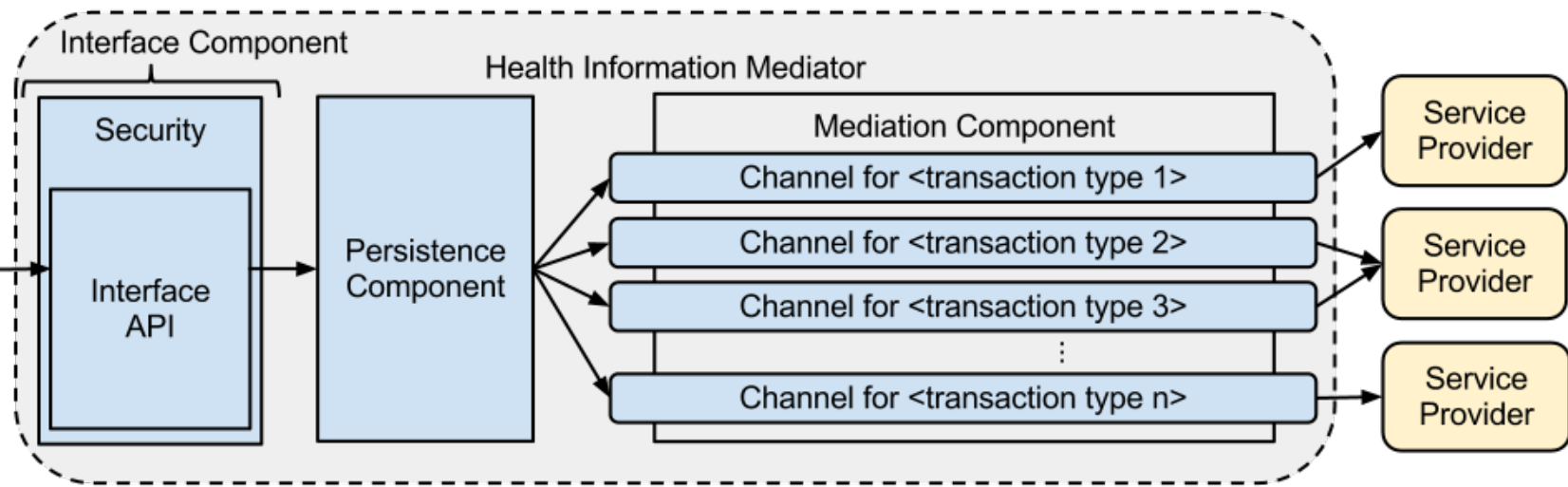


RHEA system overview

Requirements and challenges of Interoperability

- Facilitate interoperability between disparate and heterogeneous systems, both existing and future.
- Adapt and scale within a changing environment
- Local changes should not propagate through the system
- Provide a low barrier to entry to connect new and legacy systems

Enterprise Service Bus approach



Overview of HIM components

Rwandan HIM

- Built to support the maternal Health use case in the Rwamagana district
 - Implemented an API in the HIM
 - Built transaction orchestrations
 - Connected infrastructure services
 - = platform to share patients clinical information between sites
- Built using:
 - Mule ESB
 - RESTful web services
 - XML: HL7 and custom
- Rwandan Maternal Health HIE Rolling out in September