



المركز الوطني للمعلومات الصحية
NATIONAL HEALTH INFORMATION CENTER



UniPlat & eHealth Interoperability Standards

"The Way To Collaborative Healthcare Services"



Introduction

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- **The National Health Information Center (NHIC) is the responsible agency for sitting health information standards, per the Council of Ministers' decree number 11 dated to 12/1/1434 H**
 - Article No. 3 of this decree reads *“Establish necessary rules and mechanisms for exchange of information among relevant parties and facilitate interlinking.”*
- **Ministry of Health (MOH) started the eHealth Interoperability project prior to the official establishment of NHIC**
 - The purpose is to standardize health information exchange for the establishment of the Electronic Health Record (EHR) - (الملف الصحي الموحد)

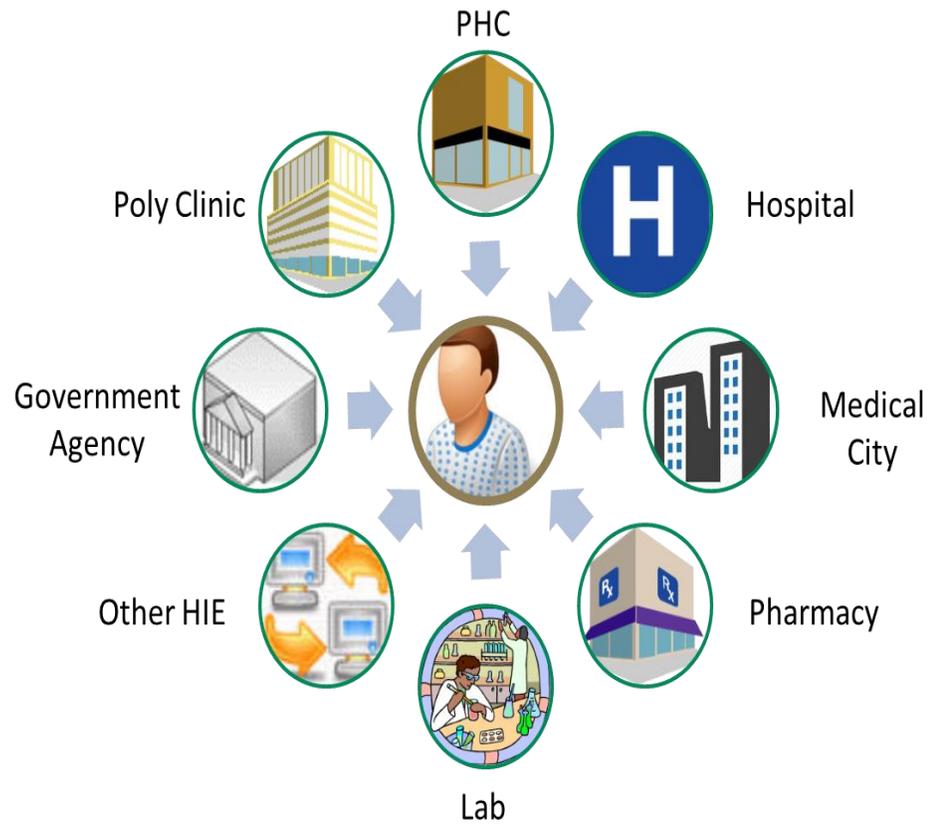


SeHE Definition

Saudi eHealth Exchange (SeHE) is the platform that facilitates electronic health data exchange among all healthcare facilities in all healthcare sectors to enable the build up of the interoperable **Electronic Health Record (EHR) – (الملف الصحي الموحد)**

It is **standards-based, clinically driven, patient-centric** and based on **open architecture** to enable future expansion of the platform to respond to industry improvements and addresses future clinical/business needs

Patient-Centric EHR Platform





SeHe Strategic Benefits

- Digitized unified health record for patients in KSA
- Improve efficiency and quality of provided healthcare services
- Reduce cost and time of healthcare services delivery
- Establish a platform for improved healthcare decision making

iEHR made available to the Right People, Right time, Right place



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Main SeHE Components

Electronic Health Record (EHR) Repository

The Electronic Health Record Repository manages standards-based, clinical data records aggregated from the various healthcare organizations. This enables the establishment of a longitudinal patient record, efficient analytics, and clinical decision support

Client/PHR Portal

The access channel for the clients (citizens, resident, and visitors) to provide controlled access to their clinical content maintained by the EHR.

Provider Portal Service

The provider portal adds the significant benefits of managing the access to the complete patient-specific, standardized, interoperable Electronic Health Record delivered to the right provider about the right patient, at the right time

Administrative Registries

Client/Provider/Organization registries that manage the unique identification as well as basic demographic information of the key participants in the healthcare delivery (Patients, Providers, and Organizations). These registries constitute the cornerstone for the eHealth program

Terminology Management

A clinical terminology capability to represent all clinical concepts (such as diagnosis, medications...etc.) and manage the various clinical terminologies (ICD10 AM, LOINC, SNOMED CT etc.). It also offers a mapping capability to common international and local codes

Health Service Bus

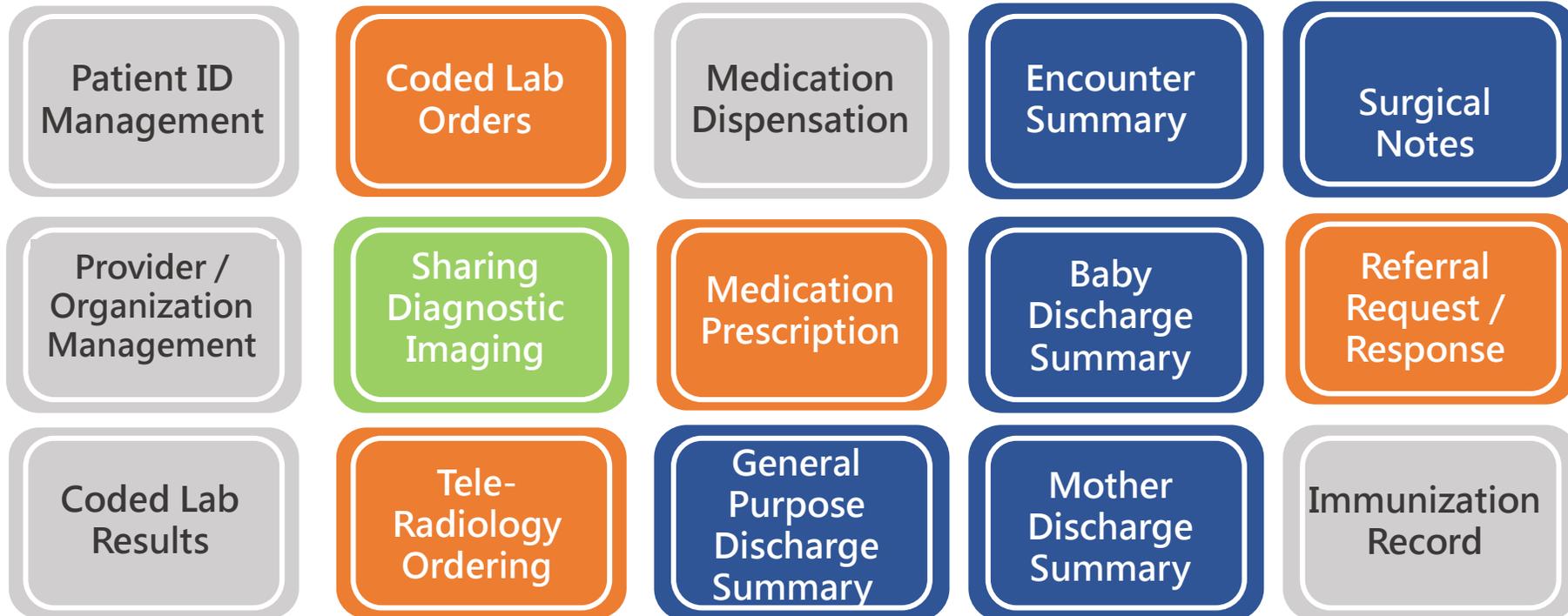
The integration layer that enables standardized access to services supporting interoperable, standards-based eHealth systems at all authorized points of care.

SeHE Use Cases

SeHE project covers fifteen (15) clinical data sharing use cases

Stage 2
Stage 4

Stage 3
Stage 6





Project SHIB Overview

Saudi Health Insurance Bus (SHIB) Is a national platform which will be used to interconnect healthcare providers with the health insurance companies to transact the business of health insurance



It Improves the role of the Council of Cooperative Health Insurance (CCHI) in regulating, controlling, and monitoring the health insurance industry in the Kingdom resulting in improved quality of service provided to the beneficiary as well as the overall improvement of the HealthCare System



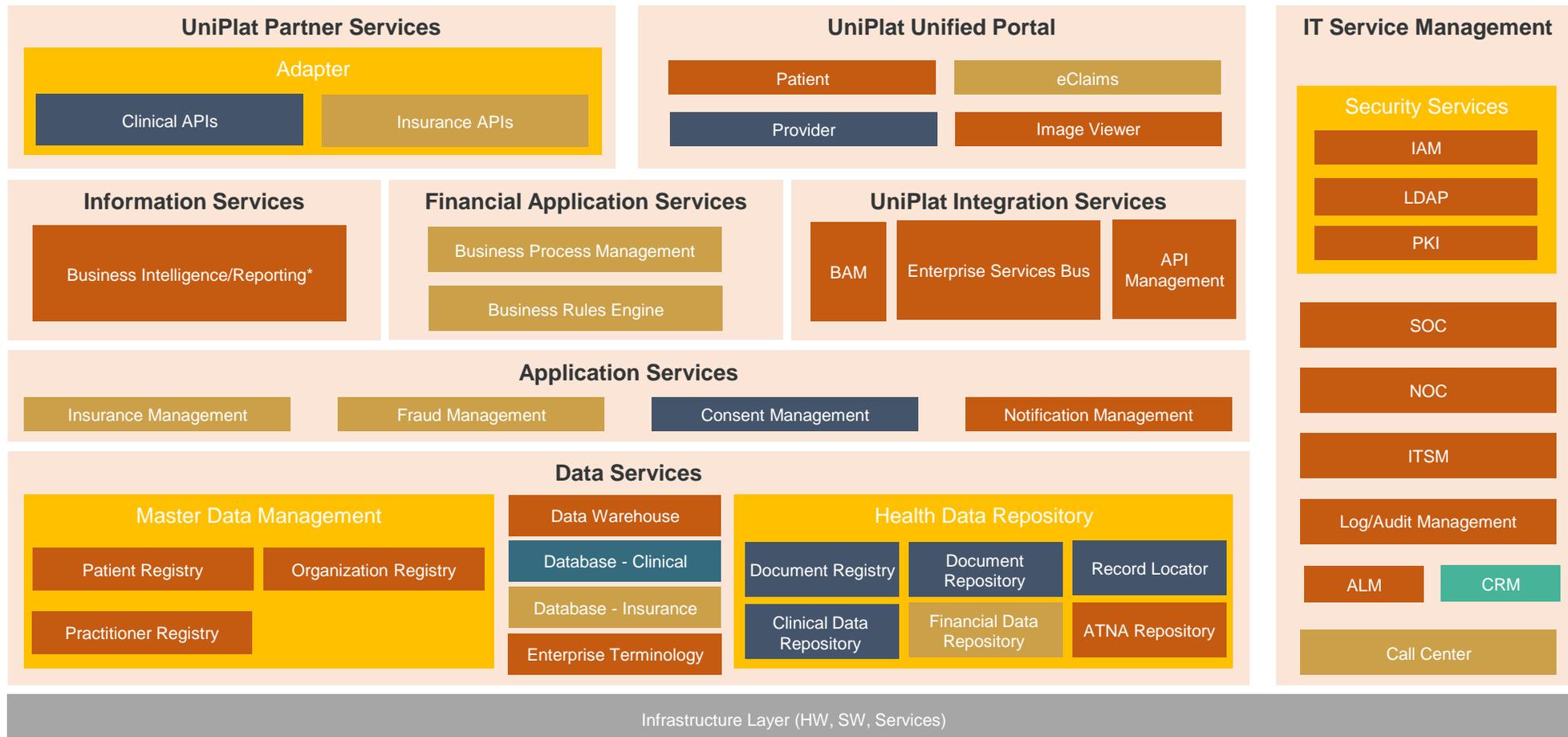
SHIB Strategic Benefits

- Improve the quality of health insurance services in the Kingdom
- Protect the rights of the health insurance stakeholders
- Provide a platform to conduct researches and analysis in the field of health insurance
- Reduce Fraud rate in the Kingdom and allow for the emergence of a mature health Insurance market

Standardise and enhance quality in delivery of services to patients and stakeholders to positively impact the health insurance business

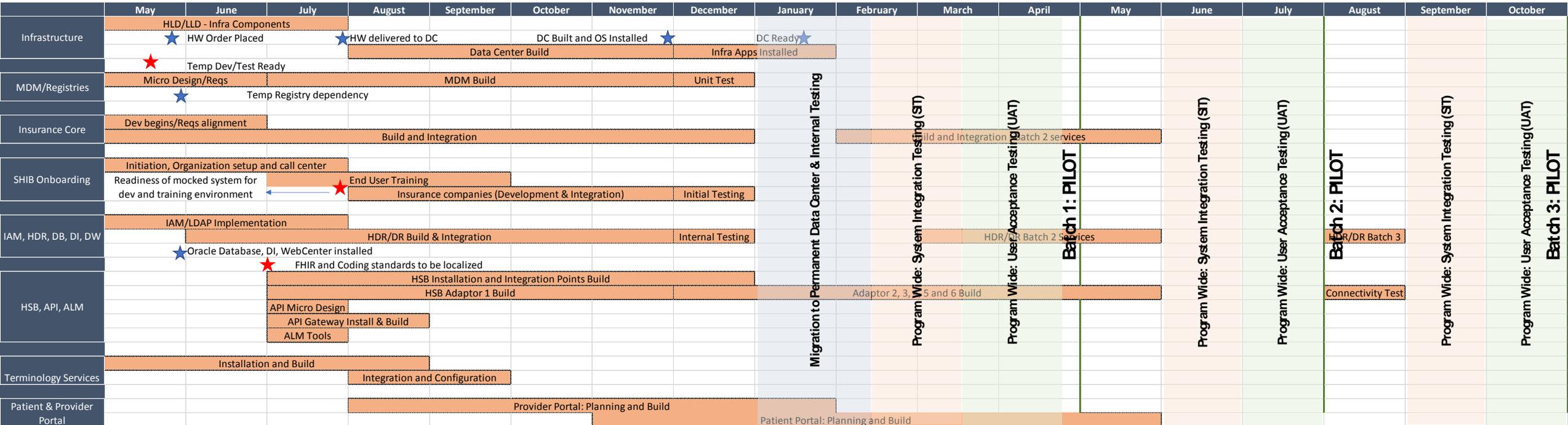


UniPlat – Conceptual Architecture – Shared Components



Financial	Clinical	Shared	Undecided
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High Level Roadmap



Batch 1

- Patient Identification
- Professional Identification
- Organization Identification
- Eligibility Management
- Claims Management
- Out-Patient Encounter Summary
- 1 National Adaptor
- 1 HIS Adapter

Batch 2

- Payment Management
- User Management
- CCHI Insurance Management
- Imaging
- Laboratory query
- eDispensation
- Immunization
- 2 National adaptor
- 2 HIS adapter

Batch 3

- eReferral
- ePrescribing
- eLab Order
- Discharge Summary, surgical notes, baby and maternity Summary.
- 3 National adaptor
- 3 HIS adapter



Interoperability Specifications



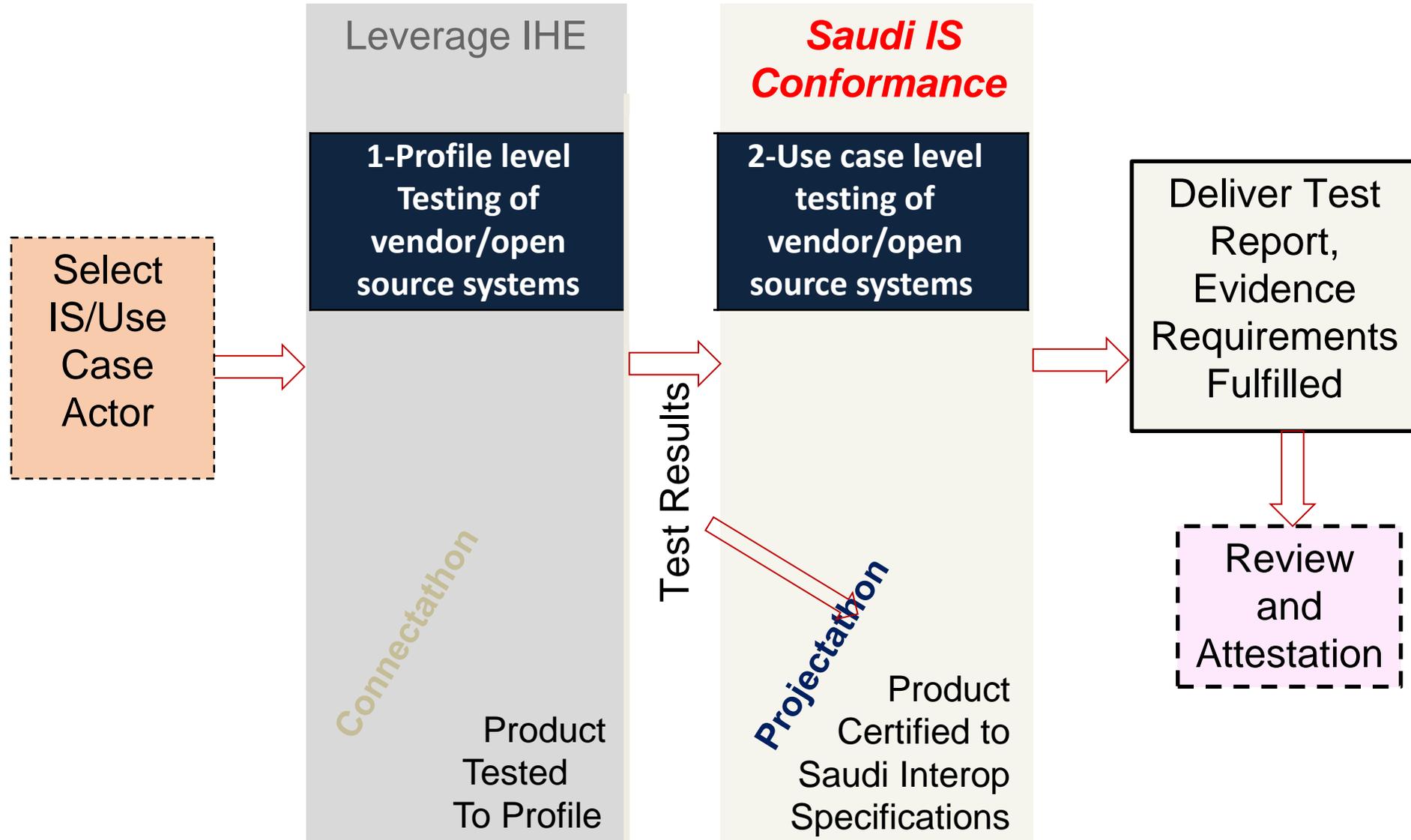
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Available at:

<https://nhic.gov.sa/en/eServices/STD/Pages/default.aspx>



Testing & Certification



Saudi eHealth Information Exchange Policies

Objective

- To protect and save confidentiality of **personal health information** whenever it's
 - ✓ Stored in Health Information Exchange.
 - ✓ Shared/ exchanged among healthcare providers.





Saudi eHealth Information Exchange Policies

Authentication Policy

Purpose of Use Policy

Identity Management Policy

Consent and Access Control Policy

Information Security Policy

Breach Notification Policy

Audit Policy

Subject of Care Rights Policy

Secondary Use Policy