

Adopting FHIR as an Organization

Keren Skubach
Senior Sales Engineer
InterSystems Israel





Assuta



Assuta Medical Centers



- Private network of 9 medical centers
- Operates 13% of the surgical operations in Israel
- Has agreements with all 4 HMOs in Israel
- Operates the newest government hospital in Ashdod

The project – Home Hospitalization



- Home treatment:
 - Orthopedic treatments before and after surgery
 - Recovery after heart surgery
 - Home tests and medical consultancy
 - Clinical data report
- The project – bi-directional data transfer between the Home patient and the clinical applications

Bi-Directional Data Transfer

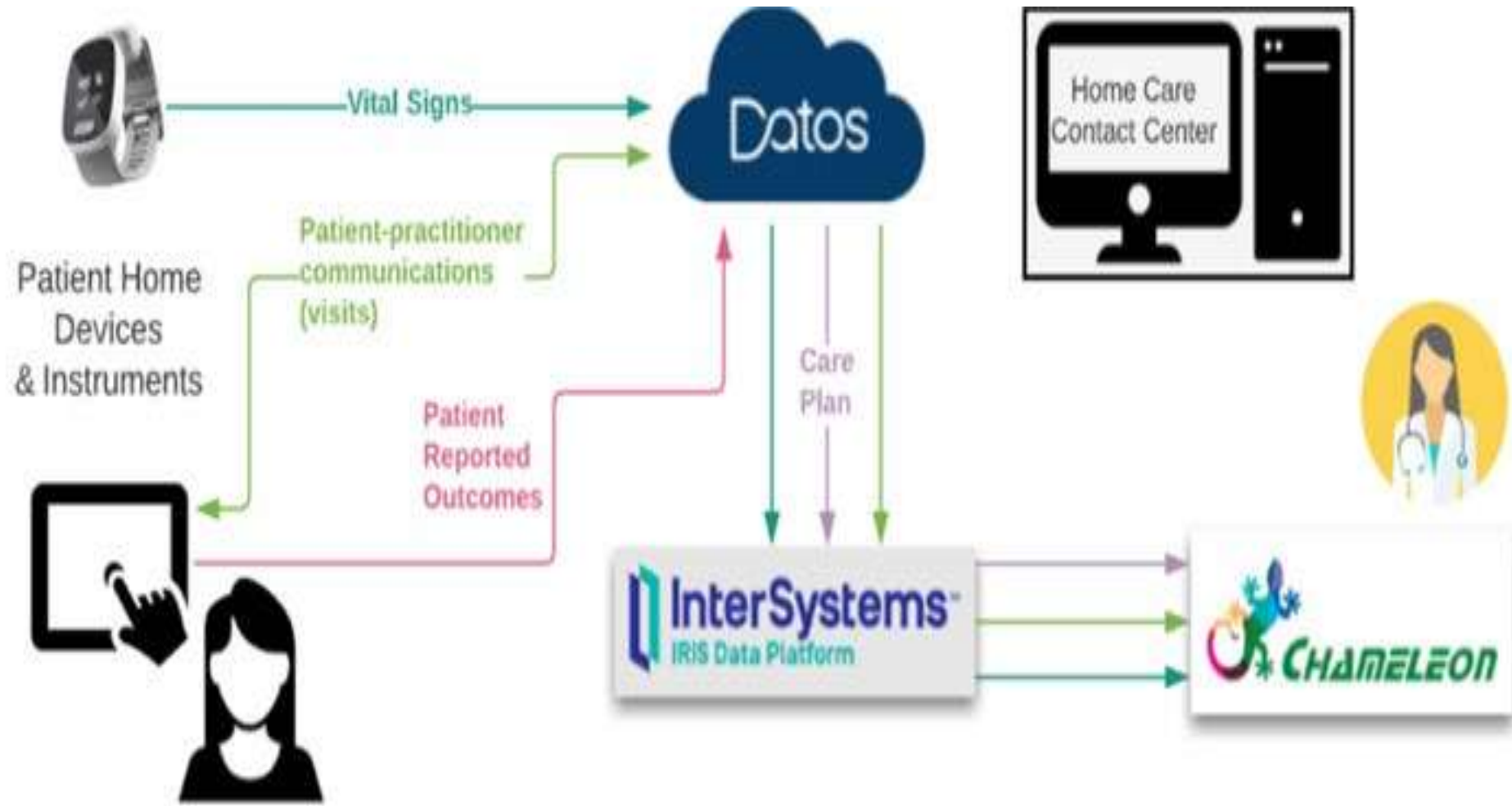


Identification •
AllergyIntolerance •

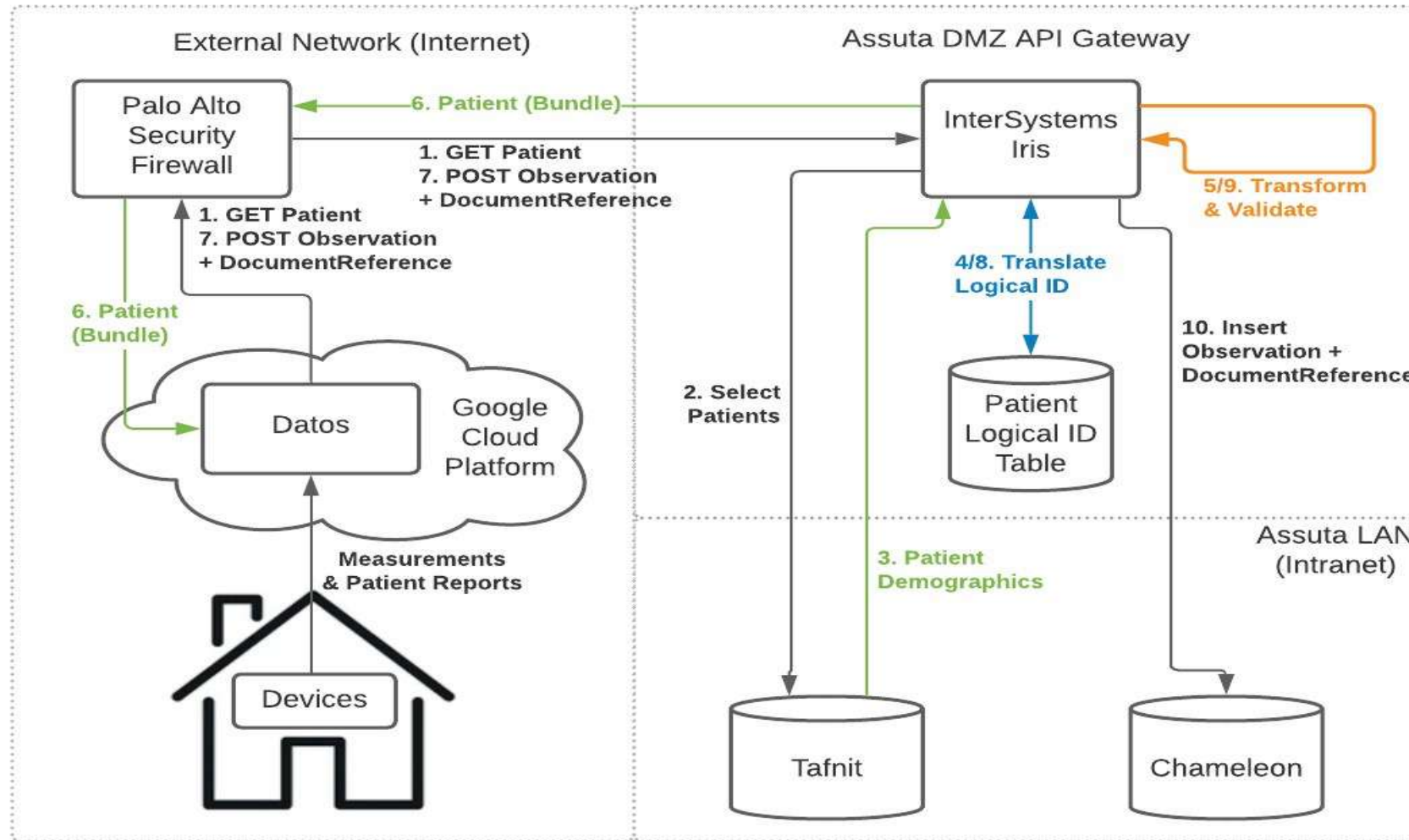
Observation (vital-signs) •
ACG, Pain report •
Questionnaire •



Architecture



Data Flow



Selected approach – FHIR Façade



- Override the FHIR repository classes
 - Get the actual data from the existing backend systems
 - The calling FHIR clients won't know the difference
 - No investment in a full new Database
 - Can be project based
- Might influence the performance of the backend systems
 - Need to define a process per each FHIR resource you wish to support



Leumit  לאומית

Lehumit - HMO



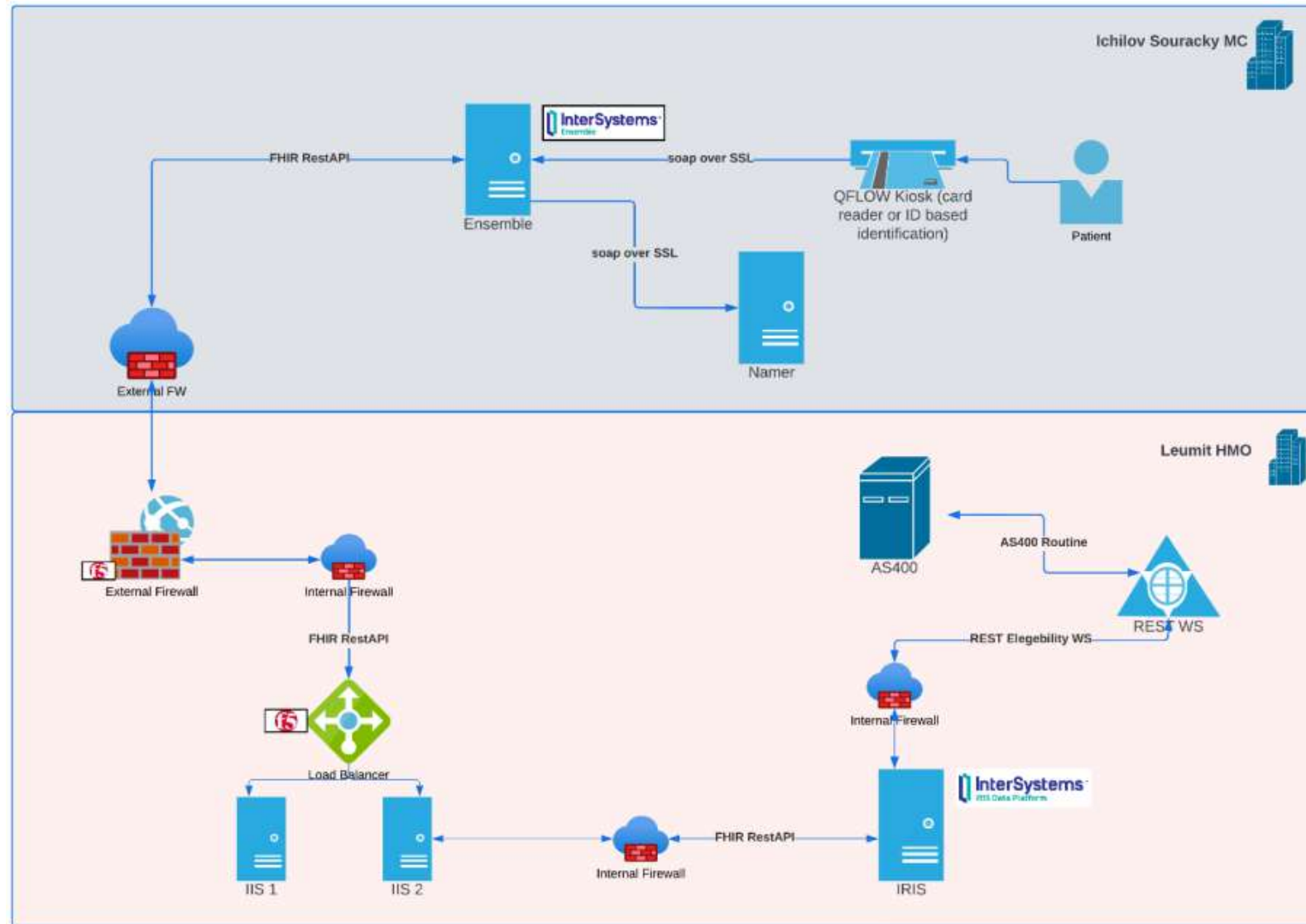
- HMO – Health Maintenance Organization
- One of the 4 HMOs in Israel
- Take care of more than 700,000 people
- 320 medical centers and clinics
- 150 pharmacies
- More than 1 million lab tests per year

The project – Eligibility coverage



- For the HMO to pay for a treatment, it must issue a coverage form for the patient.
- The patient needs to have this form before coming to the hospital.
- The Project – Query the HMO for the person's coverage eligibility automatically when he arrives at the hospital.

Architecture



Selected approach – FHIR Hybrid



- Start with a FHIR Façade option and migrate specific resources into a FHIR server option as time goes by.
 - An ongoing process that lets you have a FHIR solution with less pressure to do it all at once.
- Might take longer than the other options



Soraski Hospital



TEL AVIV SOURASKY
MEDICAL CENTER
ICHILOV

Soraski Hospital



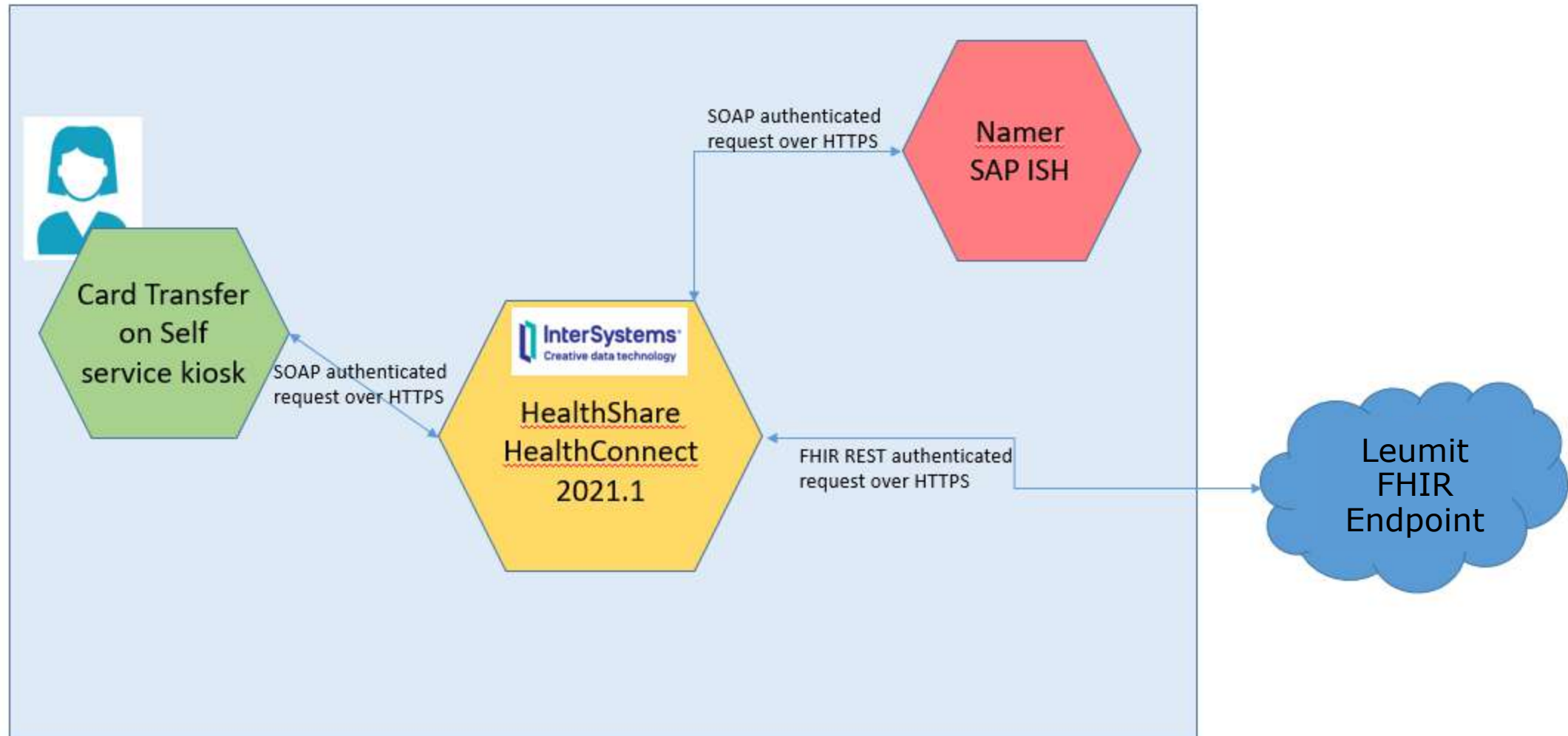
- The second largest hospital in Israel
- Treats more than 4 million people
- A government hospital with 1500 beds

The project – Eligibility coverage



- For the HMO to pay for a treatment, it must issue a coverage form for the patient.
- The patient needs to have this form before arriving in the hospital.
- The Project – Query the HMO for the person's coverage eligibility automatically when he arrives at the hospital.

Architecture



Data Flow



Selected approach – FHIR Client



- Just another REST interface
- No need to keep the data as FHIR
- Minimal change to the existing data flow



Contact

Keren Skubach

Senior Sales Engineer

Keren.skubach@intersystem.com

Thank you

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