OpenEMR Reference Architecture
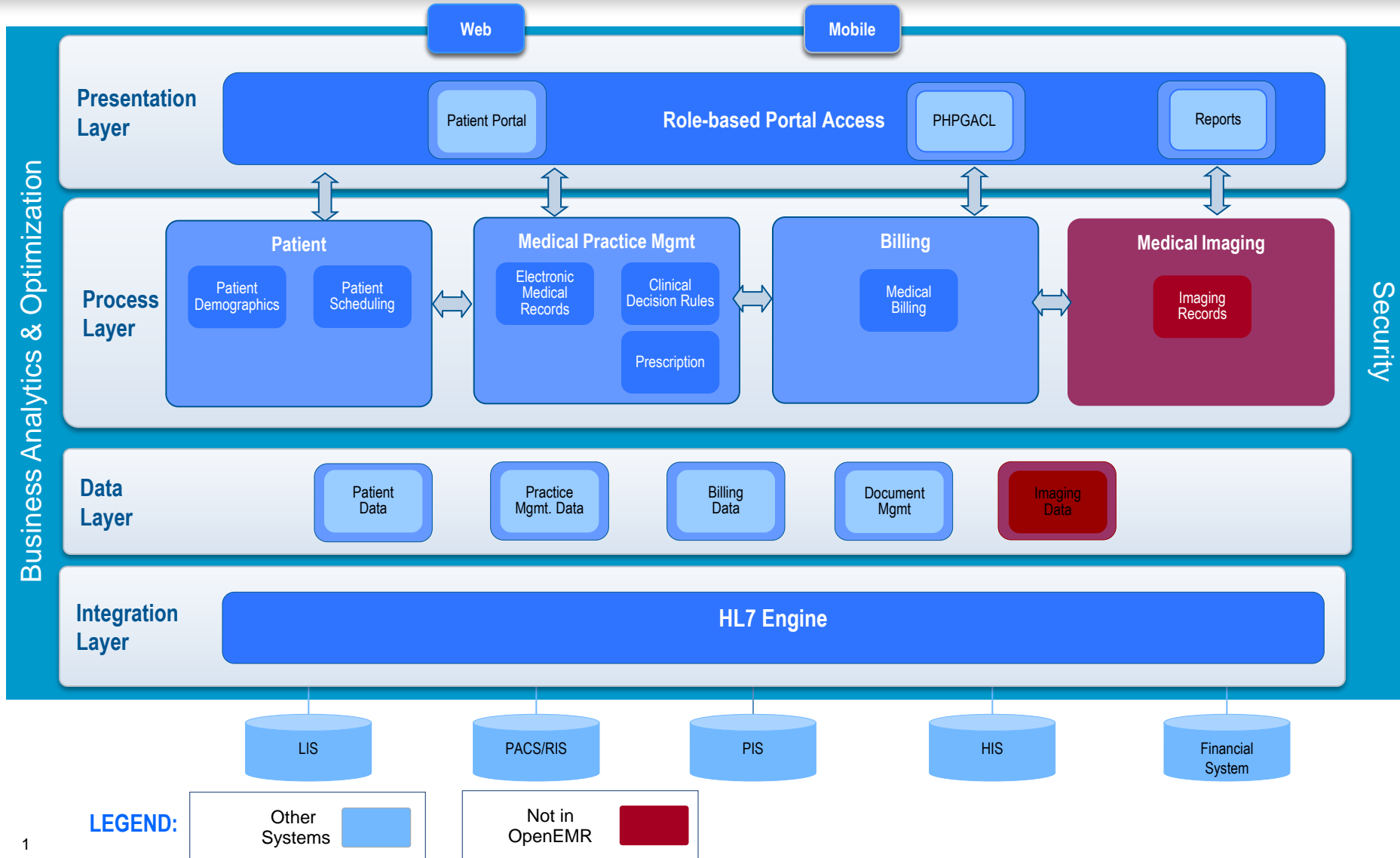
Providers

Hospitals
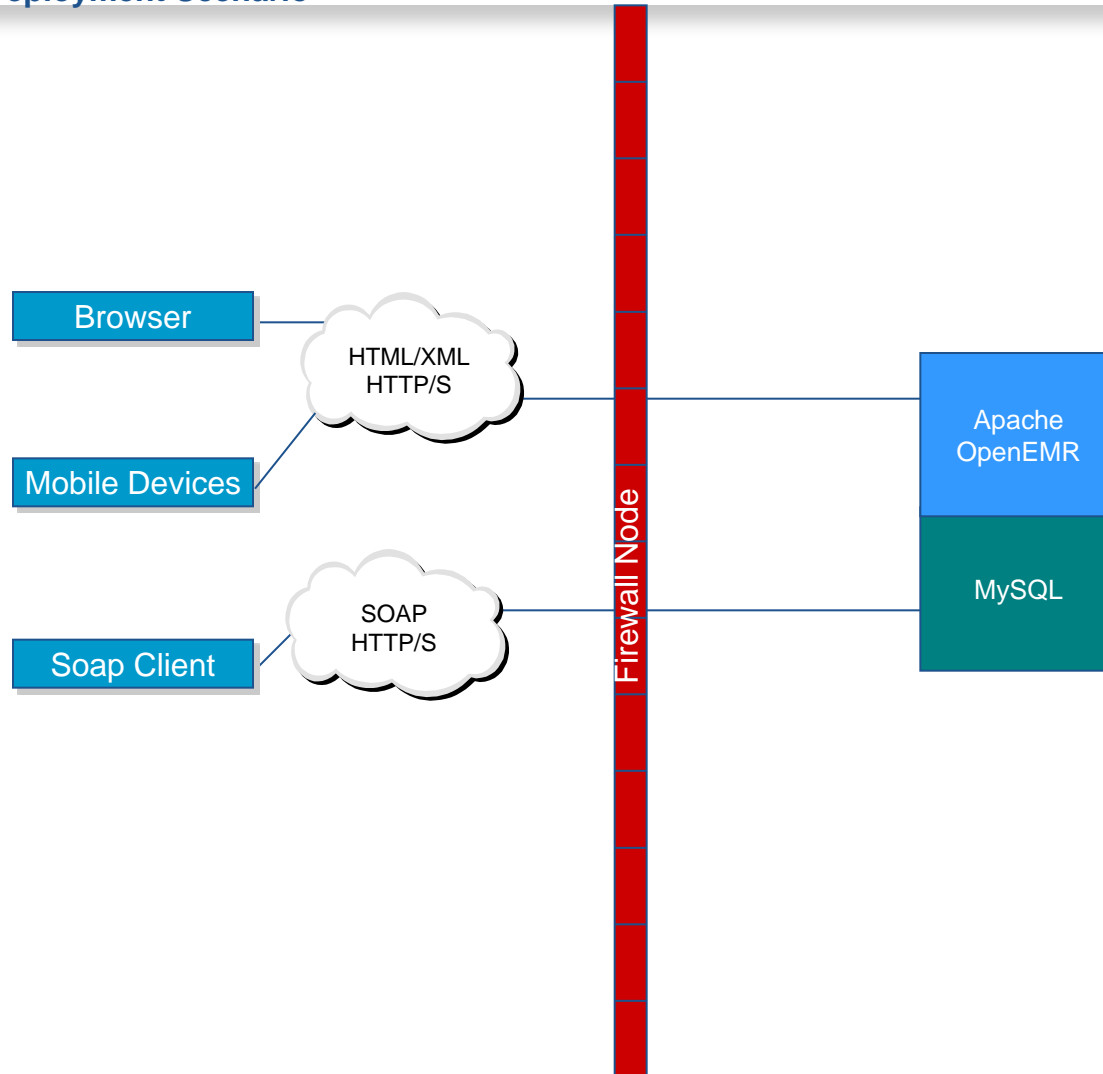
Regional Clinics
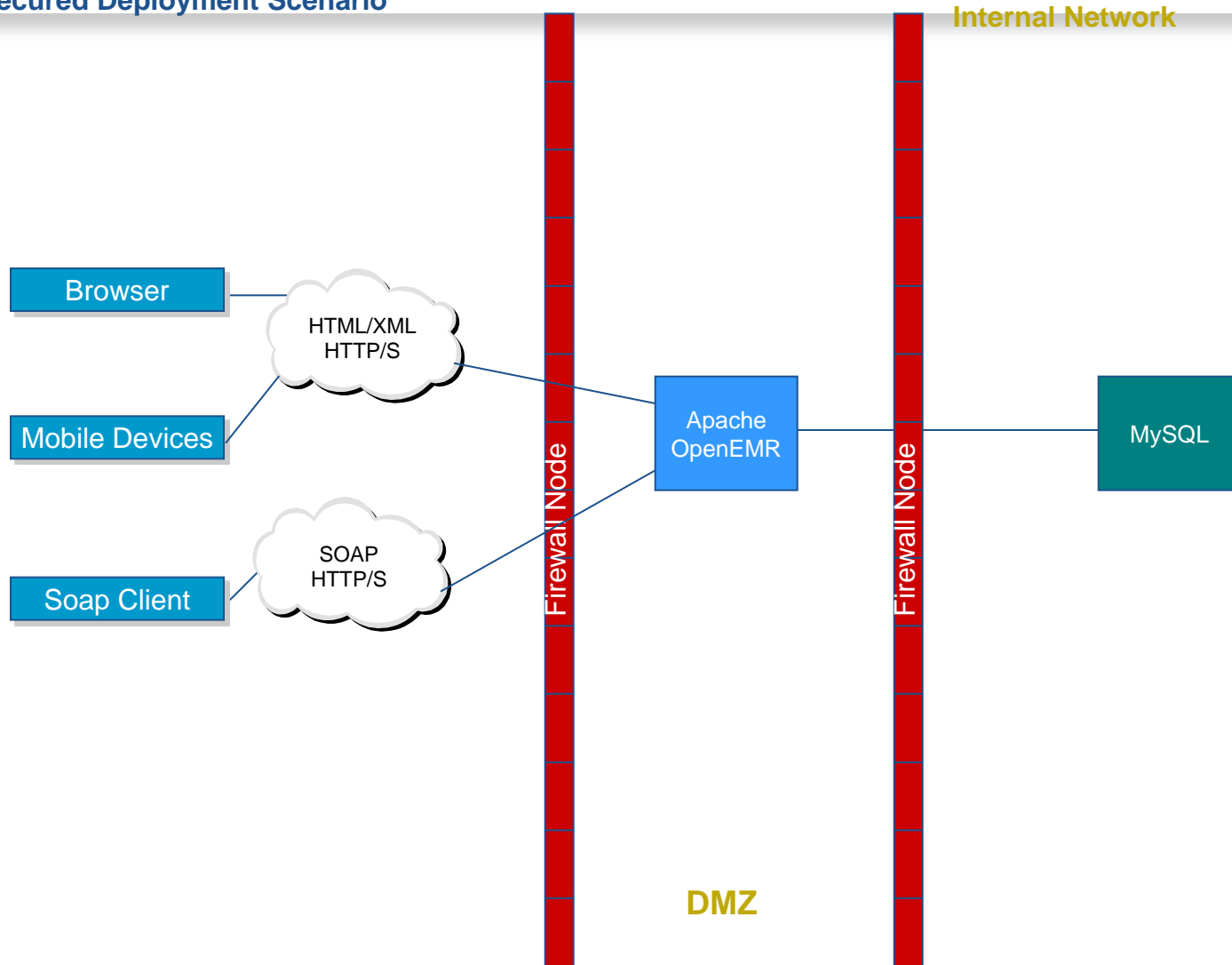
Web

Mobile

Business Analytics & Optimization

Security

Presentation Layer

Patient Portal

Role-based Portal Access

PHPGACL

Reports

Process Layer

Patient

- Patient Demographics
- Patient Scheduling

Medical Practice Mgmt

- Electronic Medical Records
- Clinical Decision Rules
- Prescription

Billing

- Medical Billing

Medical Imaging

- Imaging Records

Data Layer

- Patient Data
- Practice Mgmt. Data
- Billing Data
- Document Mgmt
- Imaging Data

Integration Layer

HL7 Engine

LIS

PACS/RIS

PIS

HIS

Financial System

LEGEND:

Other Systems

Not in OpenEMR

1

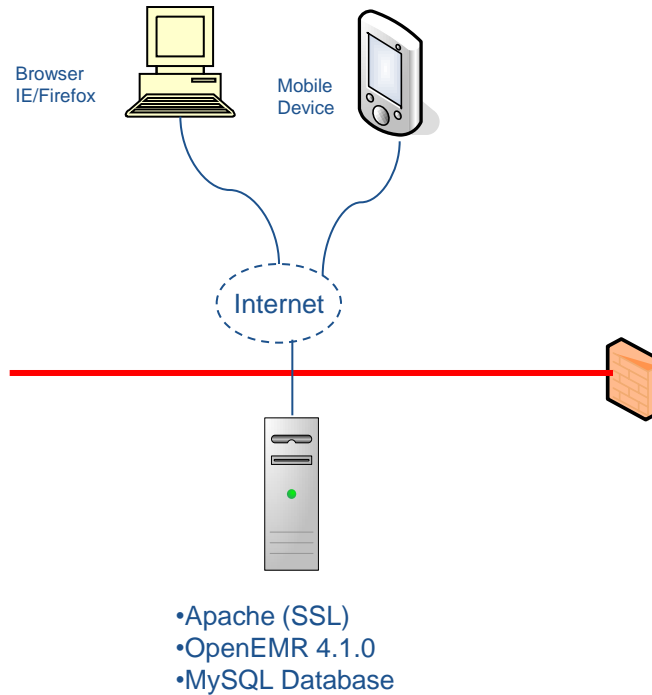# Operational Model – System Topology View

Typical Deployment Scenario

Operational Model – System Topology View

More Secured Deployment Scenario

Operational Model – Software View

Typical Deployment Scenario

Browser IE/Firefox

Mobile Device

Internet

- Apache (SSL)
- OpenEMR 4.1.0
- MySQL Database

Operational Model – Software View

More Secured Deployment Scenario