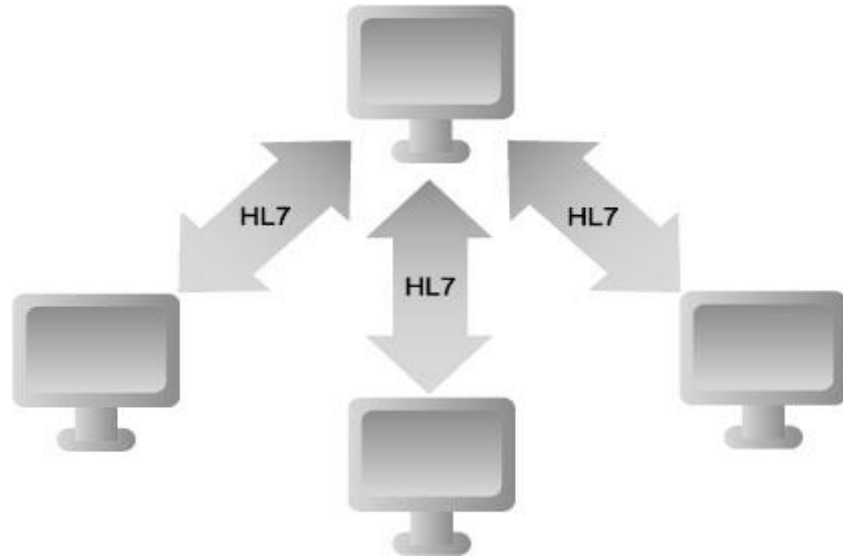


Introduction to HL7/FHIR



Introduction to HL7



Learning objectives

- Define HL7 and its role in messaging
- List the major domains in which HL7 operates
- Know which domains are essential to enterprise integration
- Recognise the structures of HL7:
 - Messages
 - Segments
 - Data types
- Understand the basics of an HL7 conversation
- Be able to build a simple patient registration message

How to read and in HL7 messages



Overview of the enterprise and HL7



Information systems in the healthcare enterprise

- Patient registration systems
- Billing systems
- Service “order filler” systems, eg
 - Laboratory
 - Radiology
 - Surgery
- Appointment schedulers
- Others...

What these information systems share

- Patient demographic data
- Patient healthcare history
- Practitioner information
- Hospital and clinic information
- Other common data...

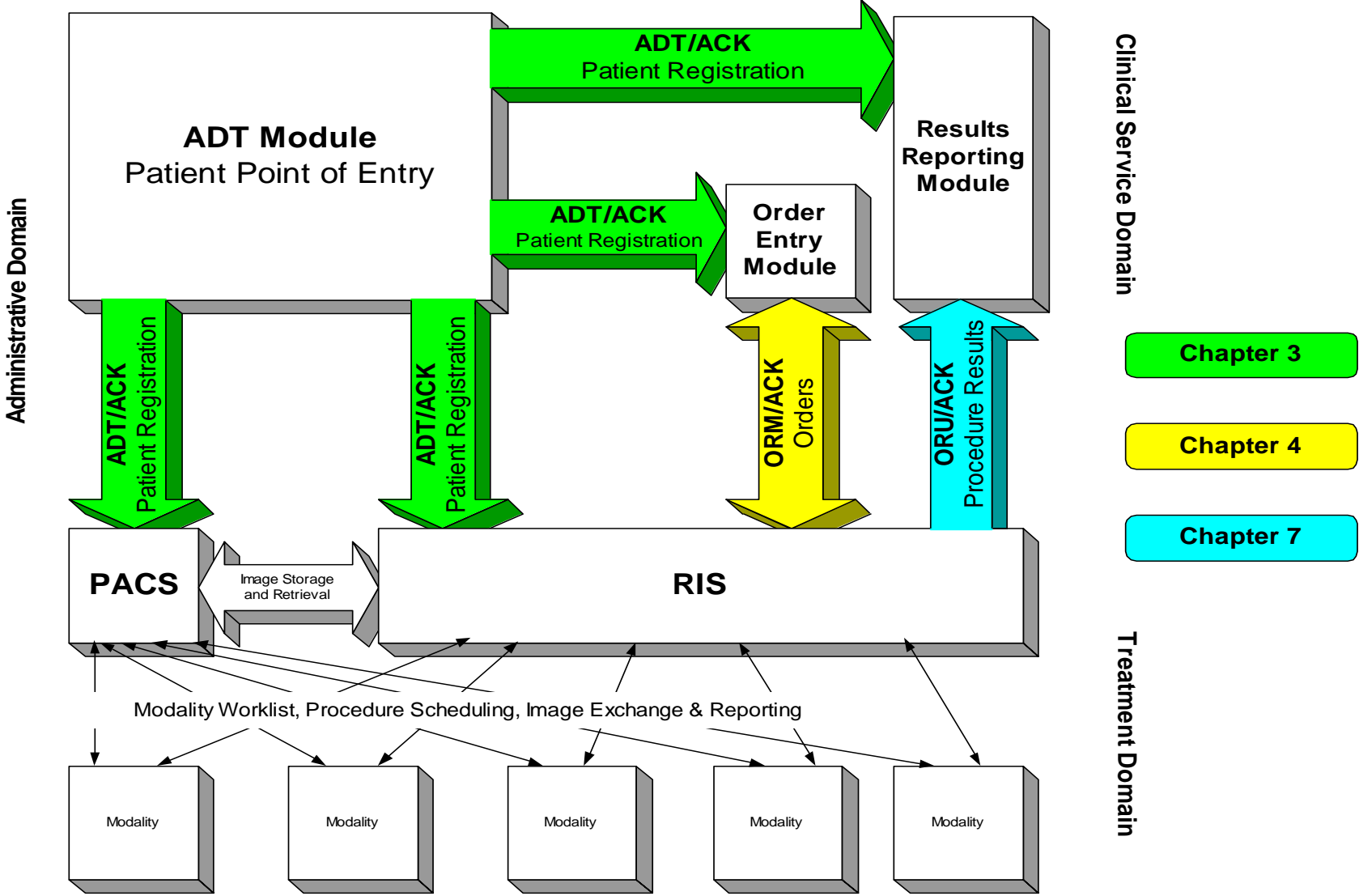
How these information systems can differ

- Objectives supported (eg treatment, billing, supply stocking)
- User interface
- Database schema
- Domain model
- Operating system
- Communication protocol
- Messaging protocol

How information systems communicate

- Batch processing
 - Update files
 - Tapes
- Real time
 - Messages

A simple architecture for integration



Using messages in real-time communication

- List the data to be carried in the message
 - Patient data
 - Visit data
 - Doctor data
- Define a format for carrying the data
 - Proprietary
 - Defined by the enterprise
 - Defined by the system manufacturer
 - Standards-based

Identifying HL7 message types

