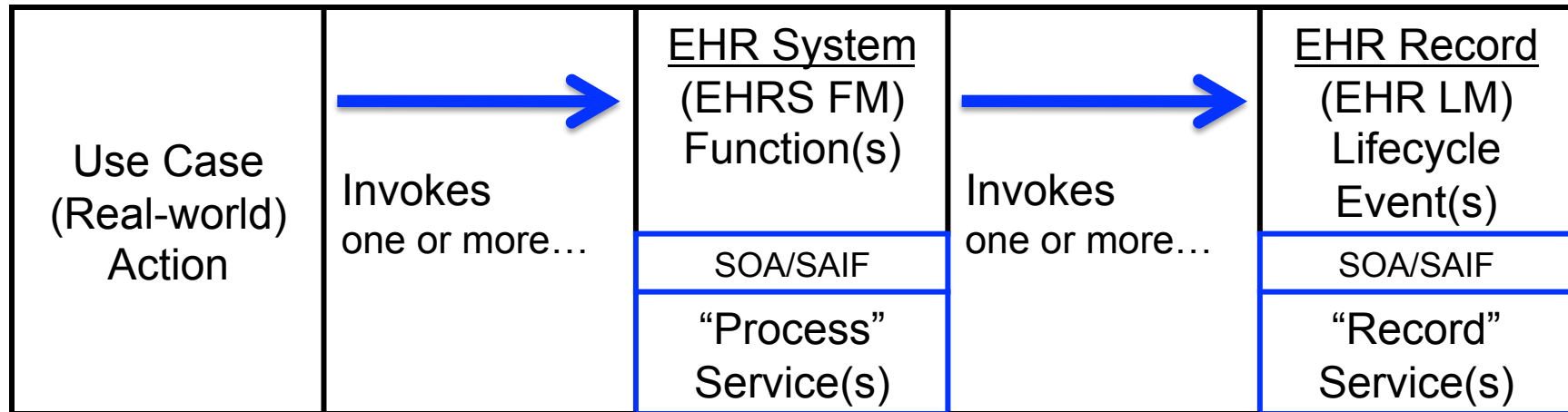


Real-World to EHR System to EHR Record

Use Case > Function > Event



Process Services		Persistent Record Services		
Action	Action Record Lifecycle Event (per EHR/LM)	Record Instance	State of Action Record Instance	
			Pre-Event	Post-Event
Order Medication	Originate/Retain	1	----	New Instance
Check Interactions Verify Med Order	Verify		Existing Instance	Instance noted as "Verified"
Transmit Med Order (copy to Pharmacy)	Transmit		Existing Instance	Instance noted as "Transmitted"
Order Received (copy in Pharmacy)	Receive/Retain		Existing Instance	Instance noted as "Received"
Dispense Med	Originate/Retain	2	----	New Instance
Administer Med (without incident)	Originate/Retain	3	----	New Instance
Administer Med (after 5 minutes, patient upchucks)	Originate/Retain	4	----	New Instance
	Amend		Existing Instance	Instance noted as "amended" with original + new content

HL7 EHR Lifecycle Model DSTU – Per Record Instance

Lifecycle Events

- 1 Originate/Retain Record
- 2.1 Amend Record Content
- 2.2 Translate Record Content
- 3.1 Verify Record Content
- 3.2 Ensure/Attest Record as Complete
- 3.3 Ensure/Attest Record as Accurate
- 4 Access/View Record Content
- 5.1 Transmit and/or Disclose Record(s) – Original + Amendments
- 5.2 Transmit and/or Disclose Record(s) – Most Recent Amendment
- 6.1 Receive and Retain/Persist Record(s) – from external source
- 6.2 Receive Record(s) – from external source – no persistence
- 7.1 De-identify or Alias Record(s)
- 7.2 Re-identify Record(s)
- 8 Converge Record(s)
- 9 Archive Record(s)
- 10 Destroy or Identify Record(s) as Missing
- 11 Deprecate Record(s)

EHR Lifecycle Event Service

One or Multiple?

- One Universal EHR Lifecycle Event Service
- Multiple Services
 - One per Lifecycle Event

EHR Lifecycle Event Service

Basic Operation

- Takes (pre-event) record instance, if any
- Preserves prior content and signature binding
- Adds to record instance
 - Event and related meta-data (who, what, when, where)
 - New/amended content, if any
 - New binding:
 - Signature, event and meta-data
 - New/amended record content
 - Prior record content and signature(s) (without alteration)
- Returns (post-event) record instance

EHR Lifecycle Event Service

External/Internal Transformation

