FHIR Bundle
* MessageHeader
* Binary
- Base 64 encoded
- EmisOpen, OpenHR, etc.

FHIR

REST

Load Balancer
* TLS/MA Check

MHS

MHS

MHS

EMISOpen

SOAP

EMIS

TPP Proprietry

FTP

TPP

FHIR

REST

Data Service

General
* Transformer as seperate plugin/JAR/Maven
* Async manager as seperate plugin/JAR/Maven

MHS
* Audit (in)
* Header Validation
- Valid FHIR Bundle
- Contains Message Header
- Contains Binary (Base64 Body)
- Body is of a known format
* Cert Thumbprint Validation
* Contract Check
- Recipient known
- Recipient allowed
* Transform to recipient format
* Audit (out)
* Send to recipient

Data Service
* Audit (in)
* LR Check
* Transform (FHIR -> internal format)
* Store/Cache
* Identify Sharing Protocols
* Apply protocols (filters)
* Transform (internal -> FHIR)
* Audit (out)
* Identify protocol subscribers
* Send to subscribers (via MHS)

For CIM :-
* MHS Endpoint can use wildcard path (/api/v1.0/*)
* Transformer embeds path as method name in MessageHeader
* Data service maintains single endpoint
* Future method changes in data service incurs no MHS change