

FHA NHIN ADAPTOR

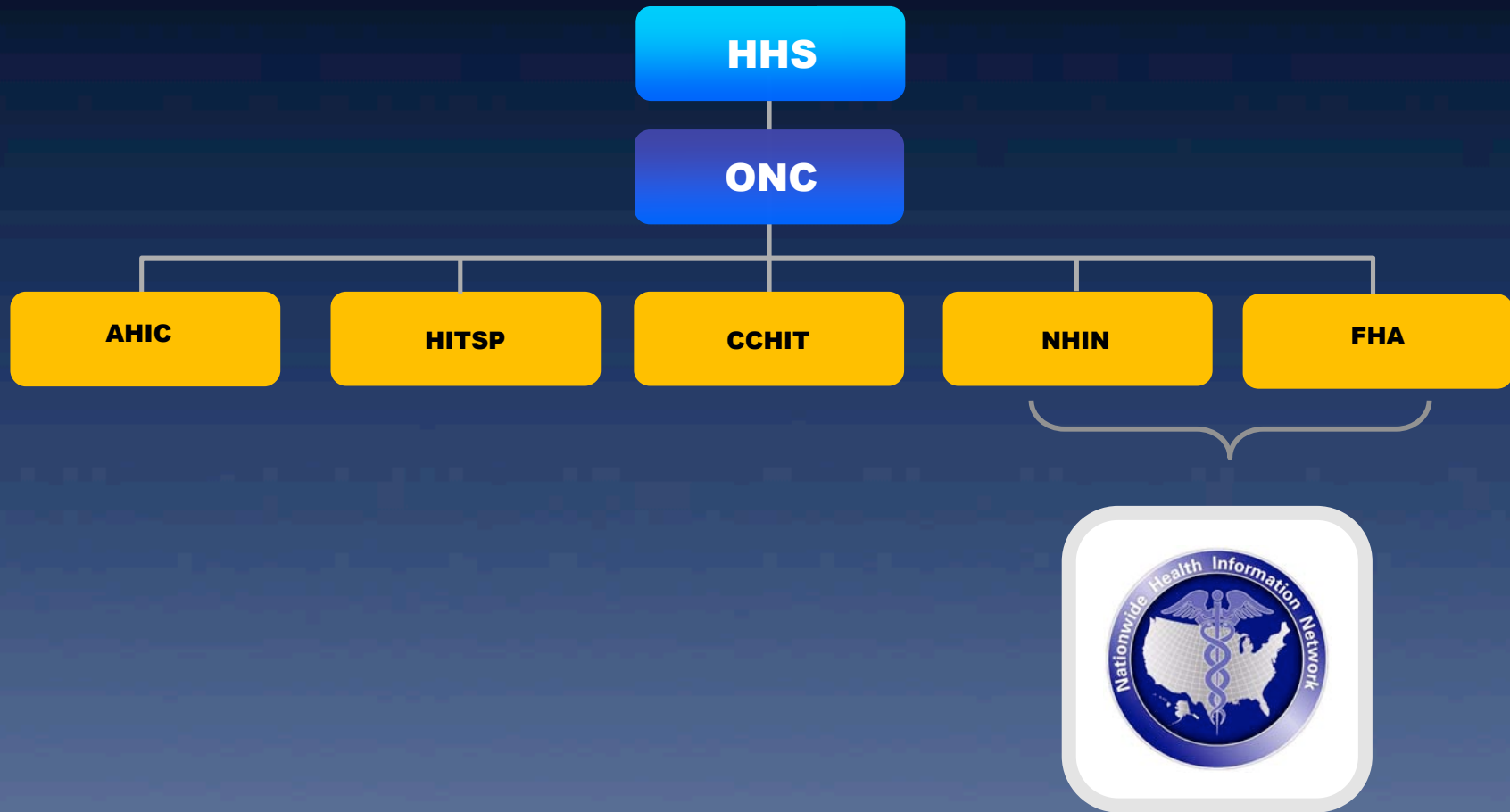
Simple Connector or SOA For Healthcare?

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Office of the National Coordinator



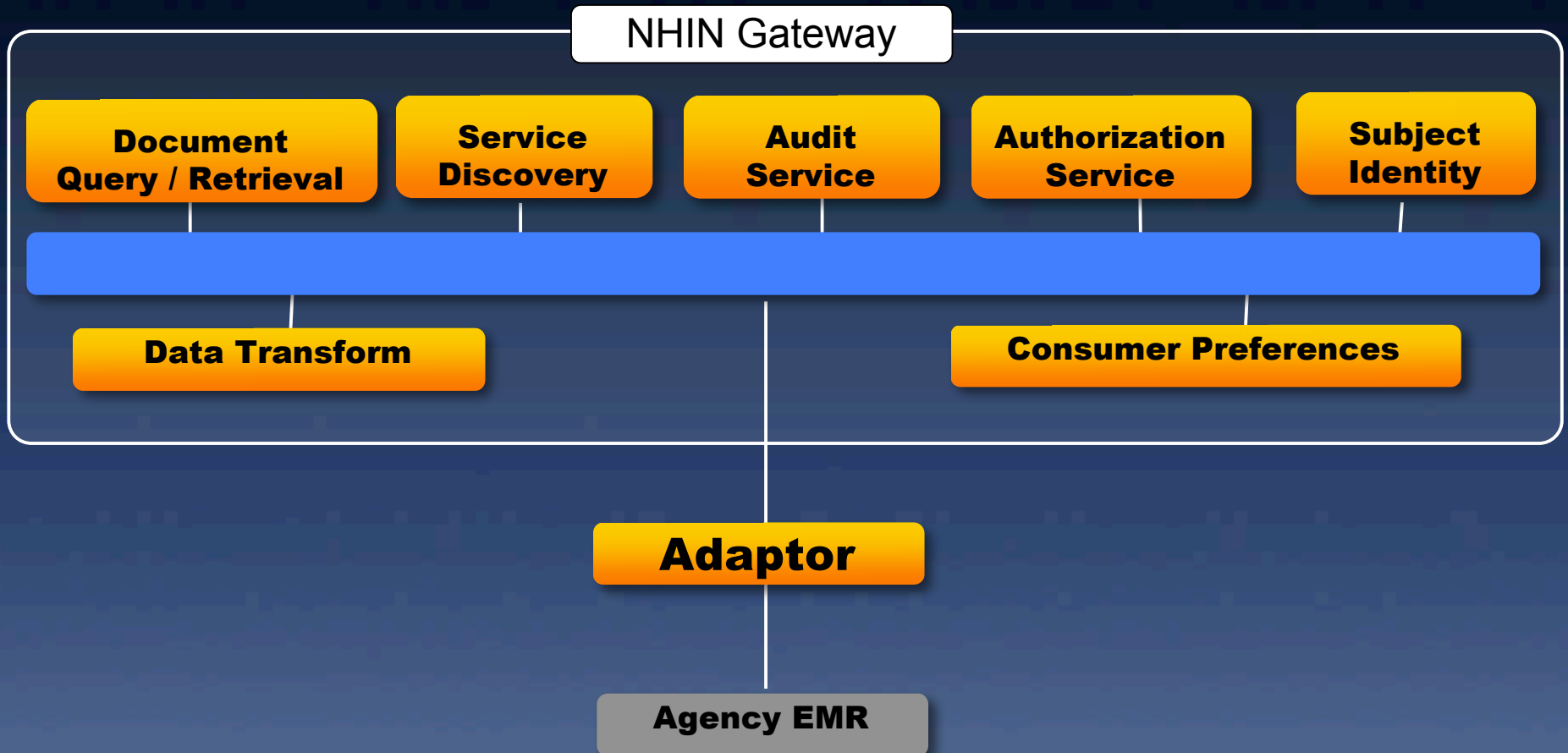
Nationwide Health Information Network

NHIN

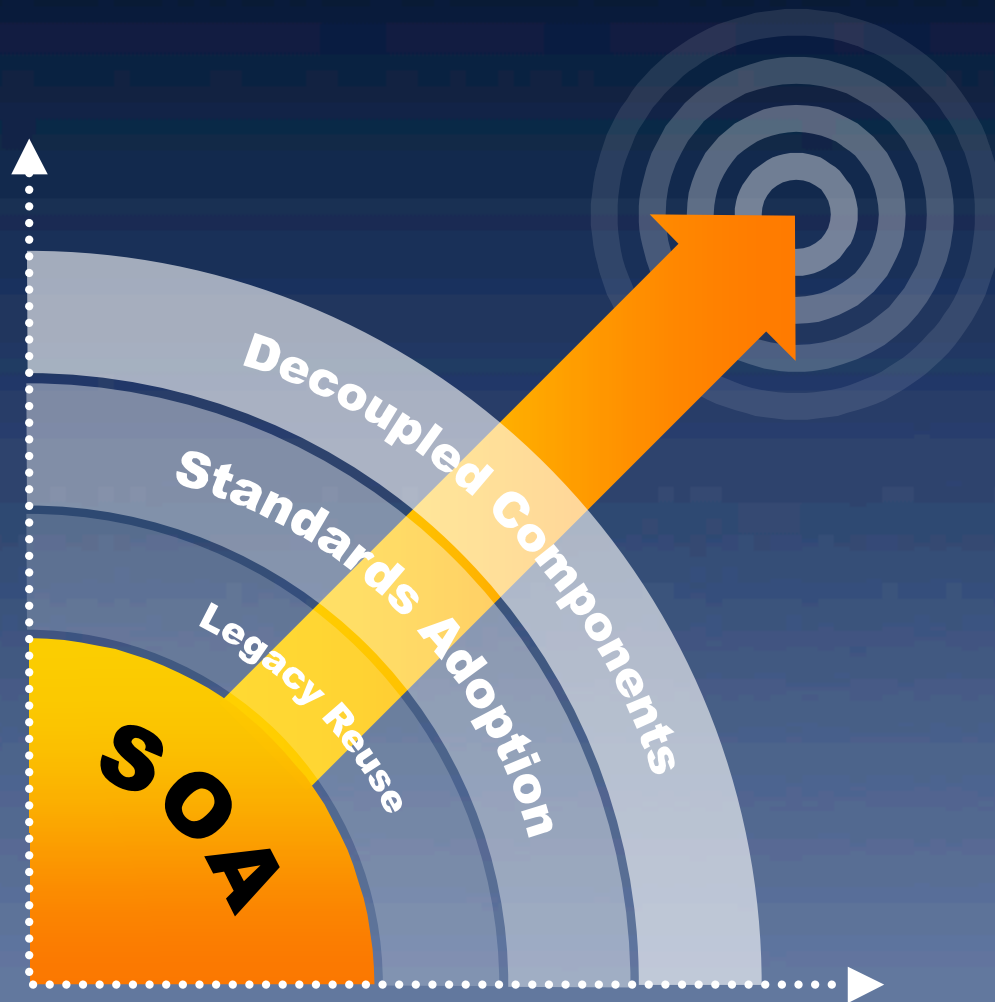
Decoupled standards-based common infrastructure



Gateway Centric Implementation



The SOA Value Proposition



Decoupling

Decoupled system components help organizations react and adapt to rapidly changing operational conditions

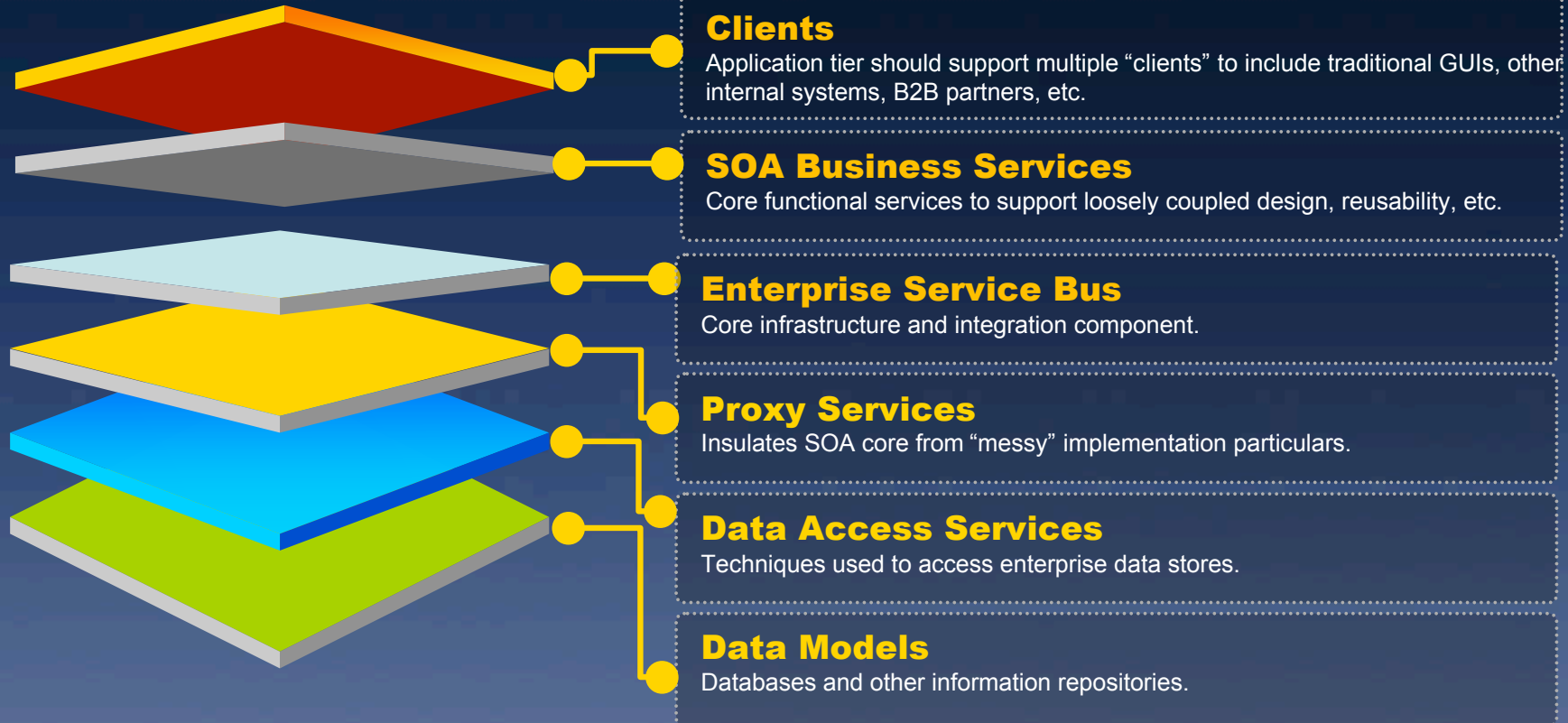
Standards Adoption

Use of standard based interfaces facilitates interoperability

Legacy System Reuse

Reuse of legacy systems preserves prior capital investments and may reduce future costs

SOA Approach



NHIN Reconsidered

Service Organization

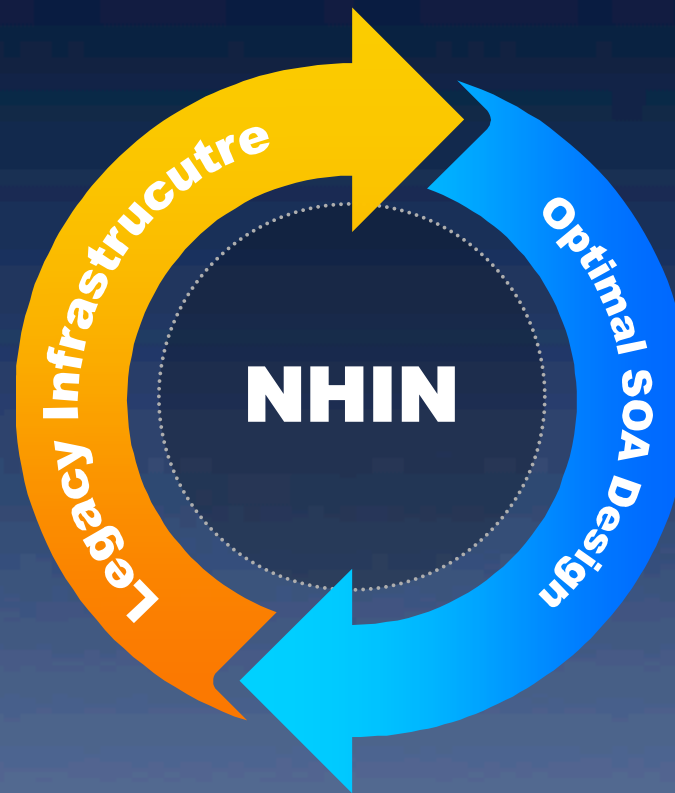
Where should certain components reside for maximum flexibility? Are NHIN requirements applicable to other use cases?

Document Delivery

Implied need for dynamic assembly. What other documents might be exchanged in future? What other standards might need to be supported?

Semantic Support

What translation services are available or needed to ensure that required semantic constraints are supportable?



Clinical Workflow

How best to integrate NHIN document exchange into provider / patient workflow? Can service be hosted within AHLTA?

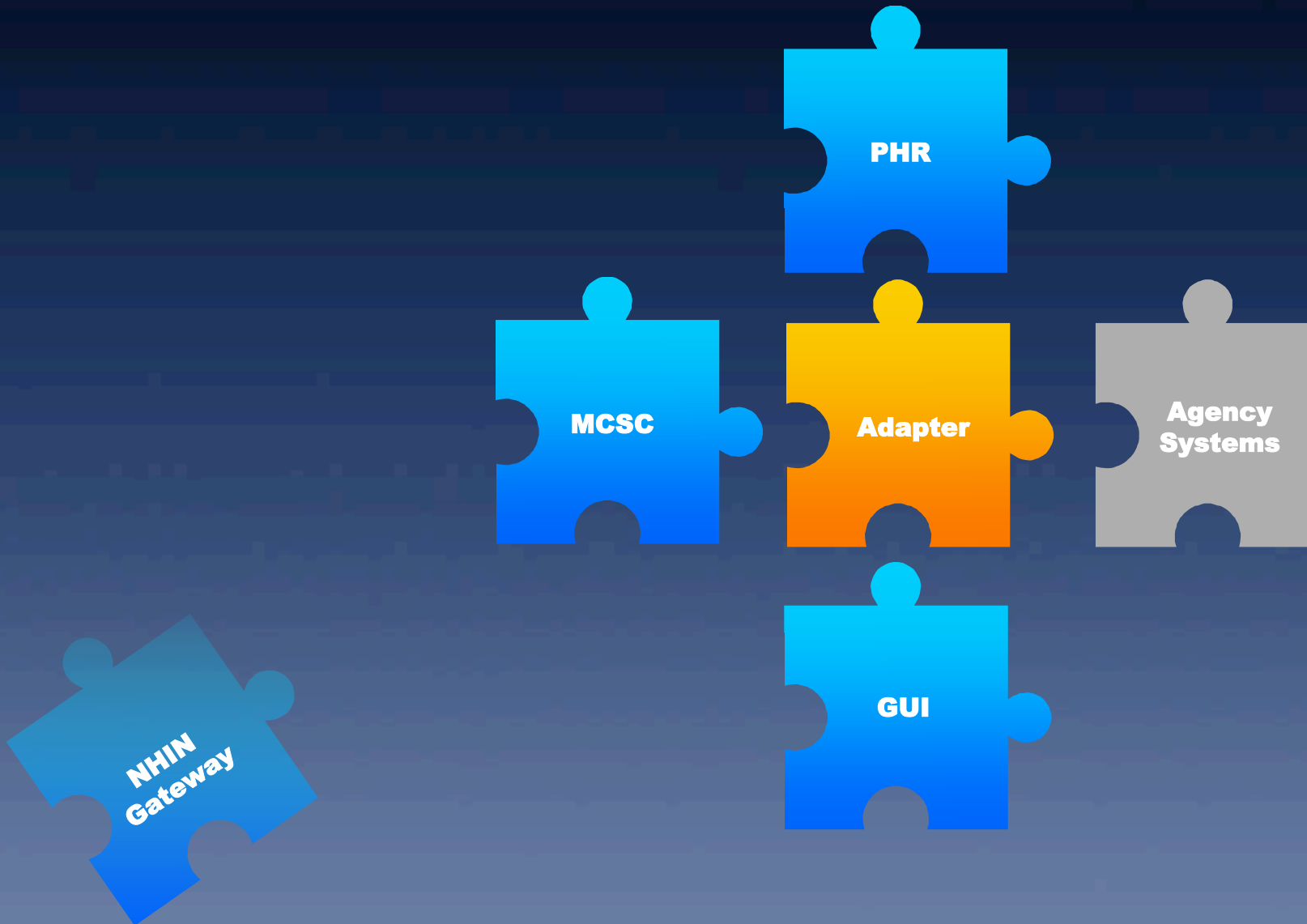
Medical - Legal

Are NHIN audit requirements sufficient? Are they clinically sufficient? Can we persist NHIN documents directly into the CDR?

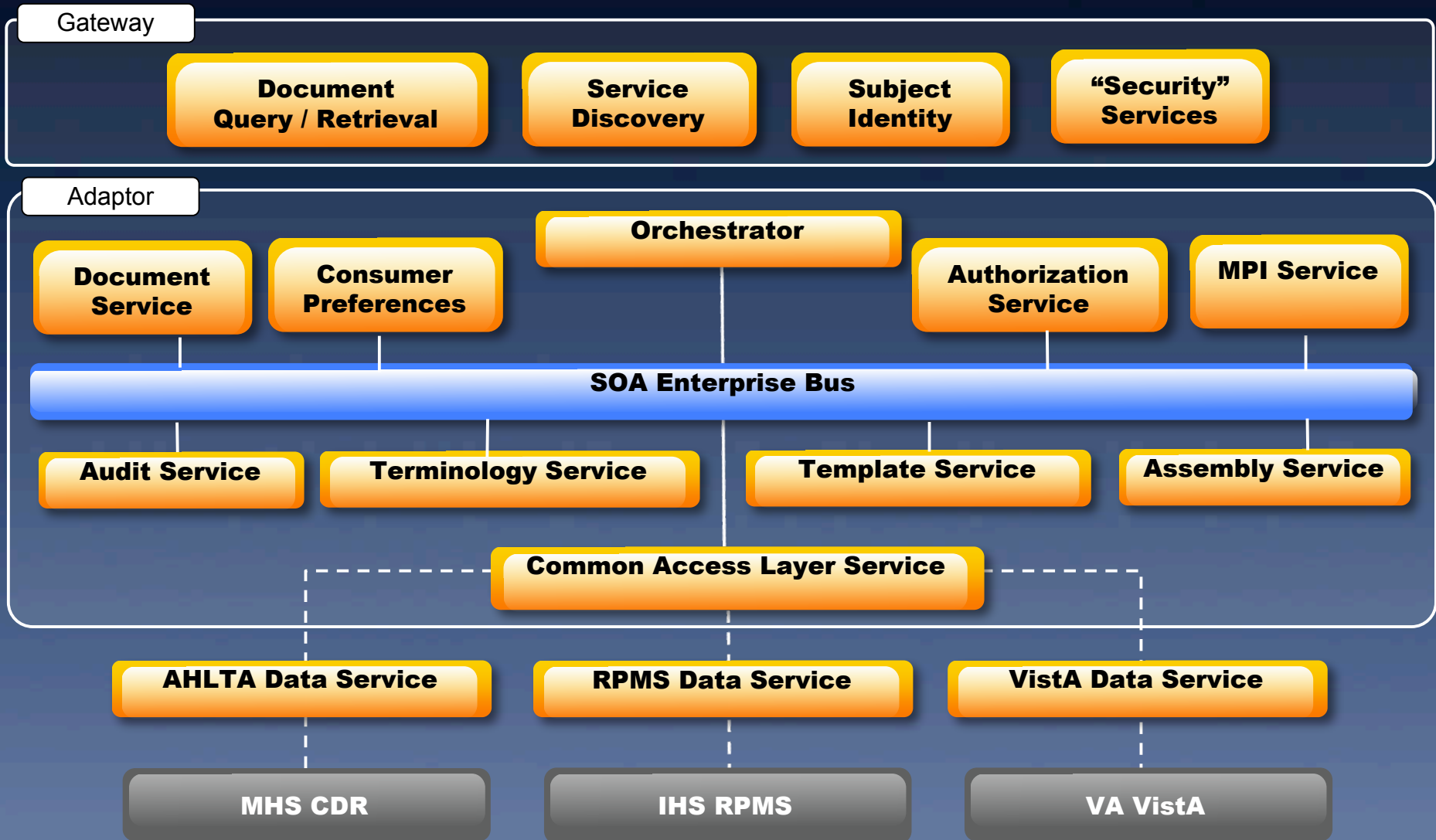
Reusability

Can we build reusable SOA components applicable to all Federal partners? Can we build a Federal Adaptor as well as a Federal Gateway?

Federal SOA Bus For Healthcare?



DoD "Federal" Adaptor Approach



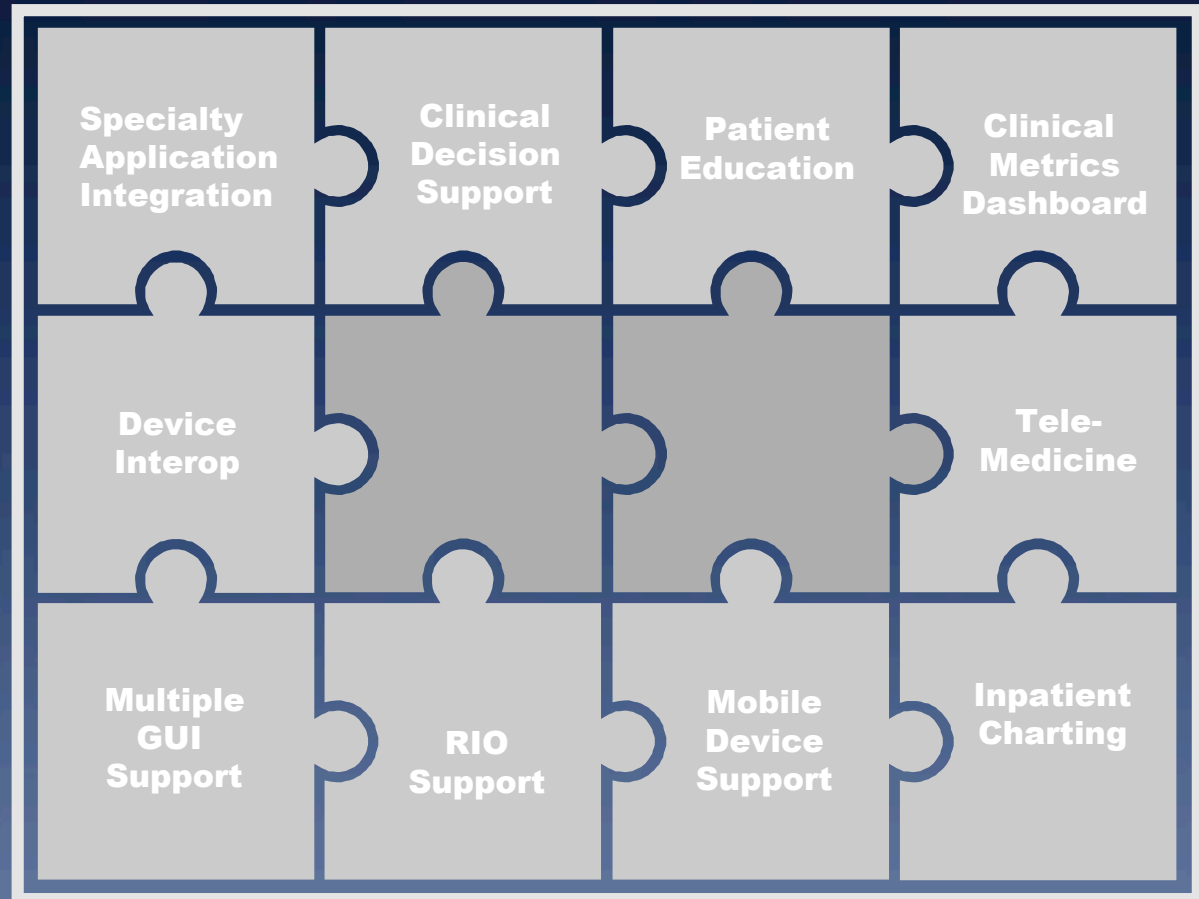
National Demonstration Outcomes

- Successful demonstration Dec 2008
- Only three participants were dynamically generating required C32 document
- Only one NHIN participant was fully compliant with all semantic requirements

Future SOA Components

Desirable Services

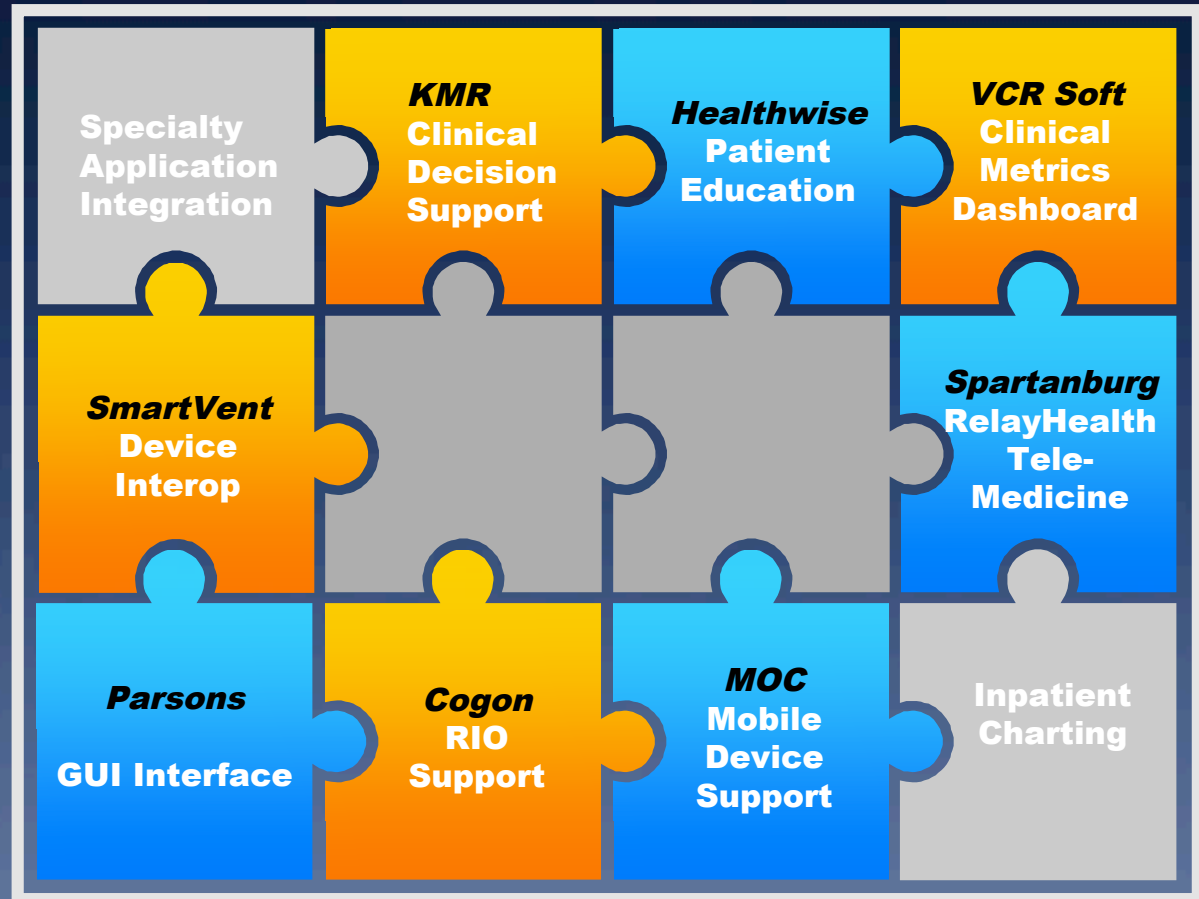
Future SOA services can be developed to support non-NHIN use cases. The components simply plug into the bus to rapidly provide new functionality..



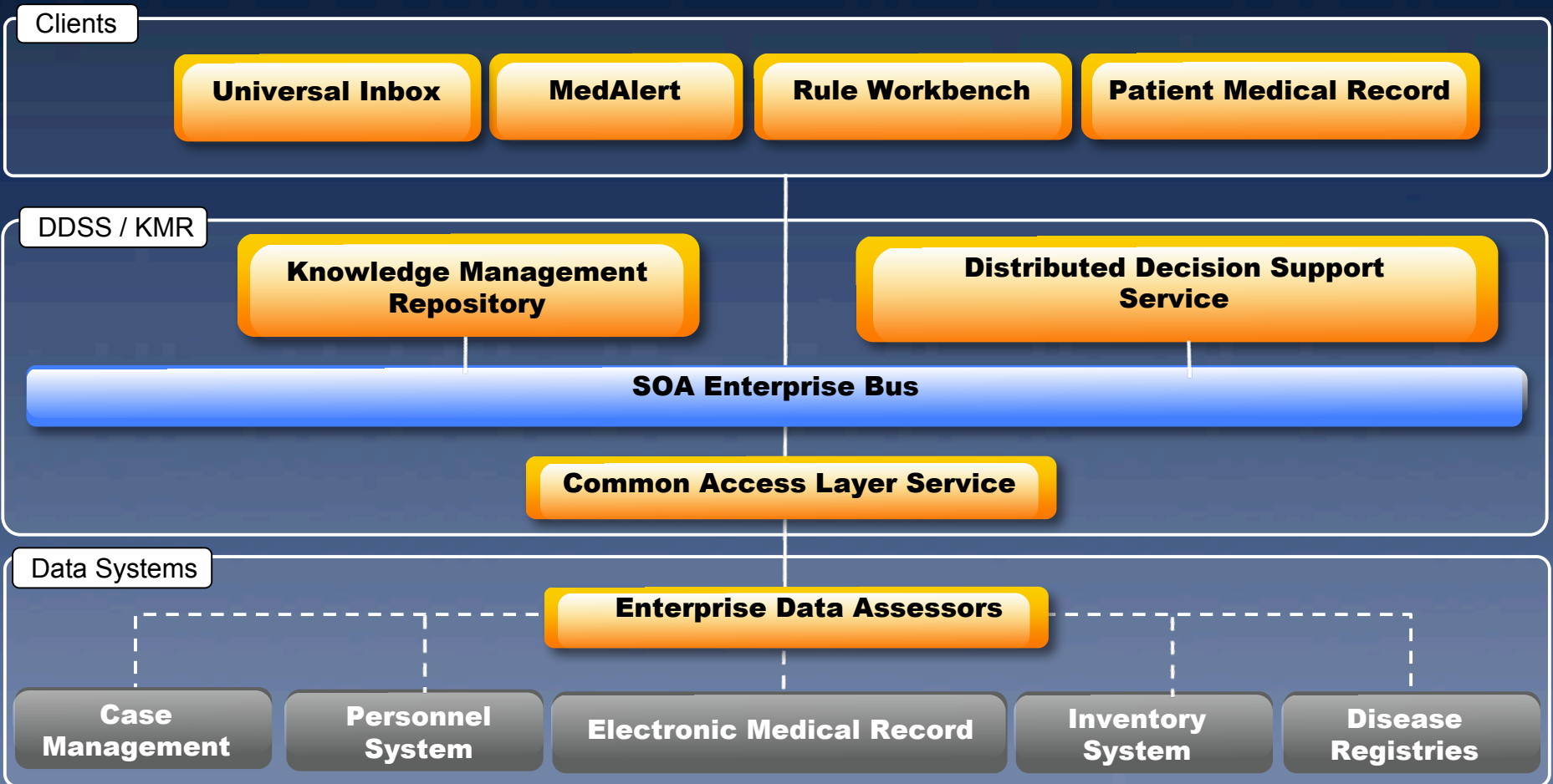
Leveraging Opportunities

Desirable Services

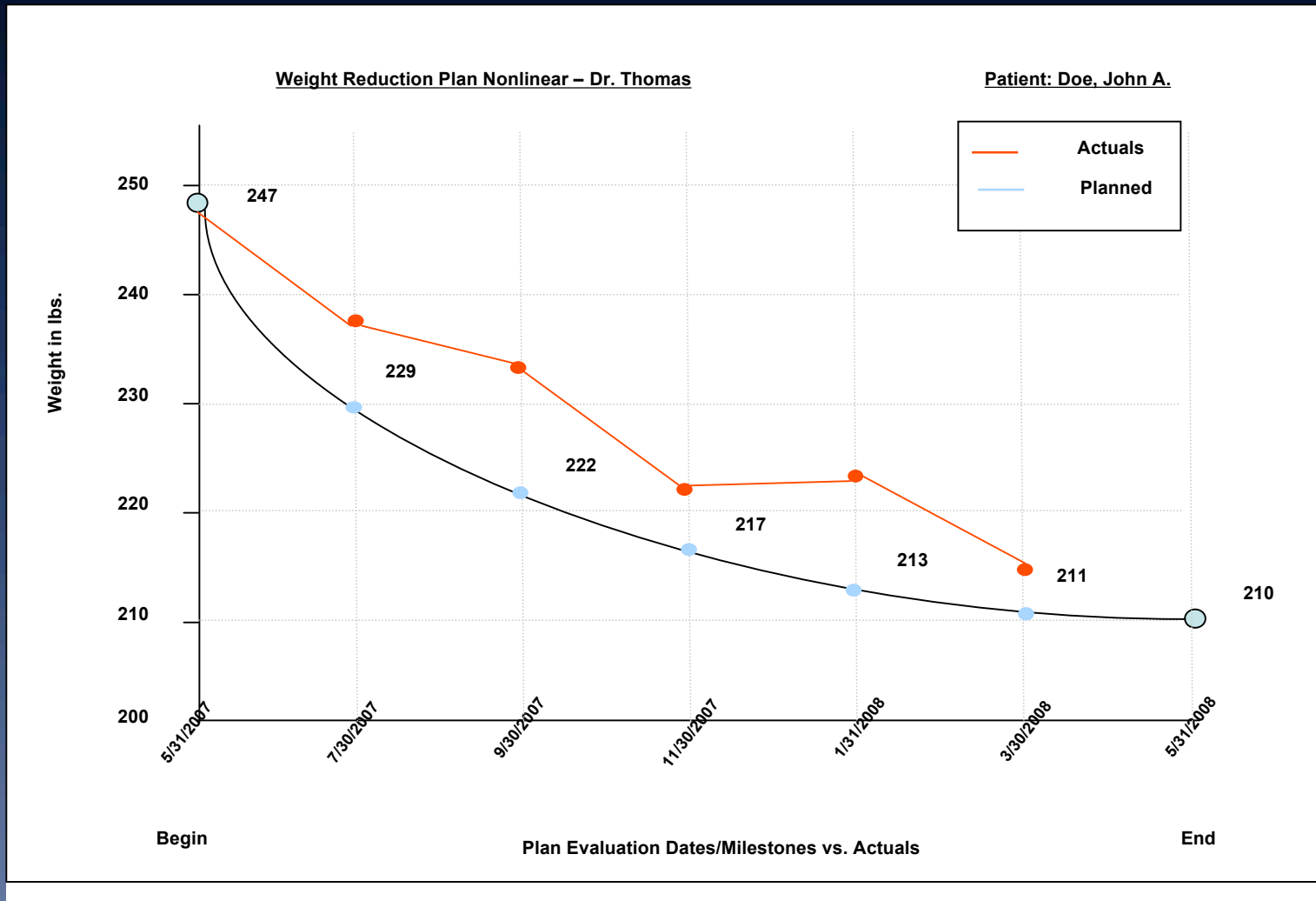
Potential alignment of Congressional set asides to SOA services.



DDSS / KMR System Overview



Careplan Runtime Engine



NHIN-Connect: Significance

- Reference infrastructure for seeding NHIN standards, policies, and objectives
- Platform for iterative refinement of those standards
- Birth of a multi-agency collaborative process
- Creative of a new “vertical market” open source collaboration

NHIN-Connect: Challenges

- How to facilitate the dialog between vendors, OSS projects, and Federal interests regarding governance, intellectual property, business models and philosophical (religious?) sensibilities?
- How to leverage this infrastructure for quality management, process improvement, and regulatory compliance?
- How to engage patient, family and community into the infrastructure discussion now?
- How can we use this reference architecture to explore the possible rather than commoditize the current?

Questions?