CBIIT’s Technology Strategy: Moving to a Semantically-Aware Services-Oriented Architecture (sSOA)

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SOA Strategic Goals
(CBIIT “semantics” frame these Goals)

- Intrinsic Interoperability
  - Interoperability vs Integration

- Increased Federation
  - Common endpoint and local governance

- Increased business/technology alignment
  - Linear “degree of difficulty” for change

- Increased vendor neutrality options
  - Specifications at a logical level (ECCF PIM)

-- Thomas Erl, “Principles of Service Design”
SOA **Strategic** Benefits
(CBIIT “semantics” frame these Benefits)

- **Increased ROI**
  - Reuse vs inconsistent Redundancy
  - Applications as “compositional aggregations”

- **Increased Organizational Agility**
  - Business evolution aligned with technology flexibility

- **Reduced IT footprint**
  - Elimination of redundancy and inconsistency
  - Elimination of one-off integration activities
  - Decreased governance burden

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*Thomas Erl, “Principles of Service Design”*
SOA Design Principles
(CBIIT “semantics” frame these Principles)

- Standardized Service Contracts
- Service Loose Coupling
- Service Abstraction
- Service Reusability
- Service Autonomy
- Service Statelessness
- Service Discoverability
- Service Composability

-- Thomas Erl, “Principles of Service Design”
**caBIG Compatibility Guidelines: Today**

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<td>Domain Analysis Model</td>
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<td><strong>PIM (Logical)</strong></td>
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