
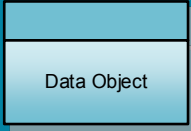



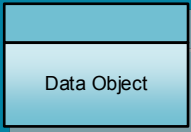


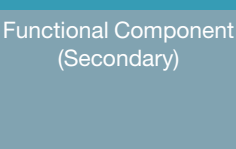



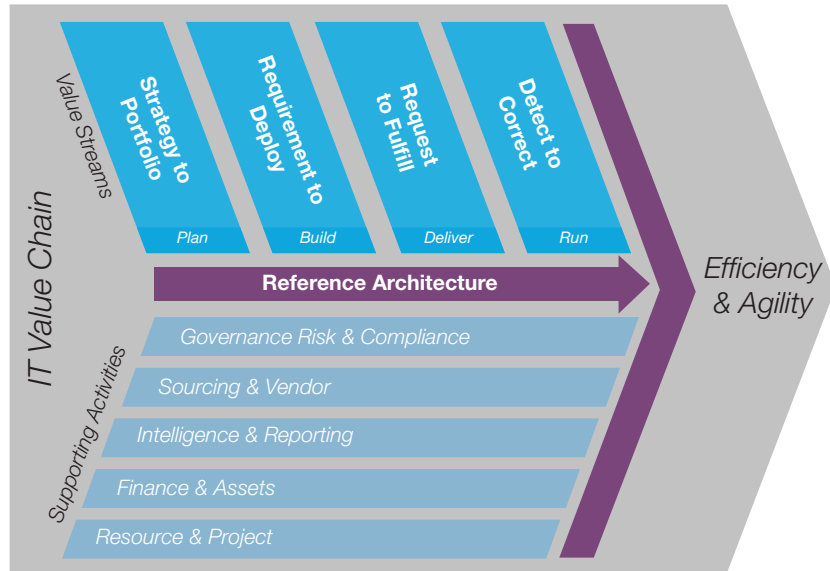
Information Model

Object Type	Description	Informal Representation	Formal Representation
Key Data Object	Key data objects describe aspects of “how” services are created, delivered, and consumed; they are essential to managing the service lifecycle. Managing the end-to-end service lifecycle and associated measurement, reporting, and traceability would be virtually impossible without them. The IT4IT Reference Architecture defines 32 key data objects and most are depicted as black circles.	 Key Data Object	 Data Object
Service Model	Service models are a stand-alone subclass of key data objects that describe “what” IT delivers to its consumers. They represent the attributes of a service at three levels of abstraction: Conceptual, Logical, and Realized. These data objects are referred to as Service Model Backbone data objects (or service backbone data objects in short form) and depicted using a purple colored circle in the IT4IT Reference Architecture diagrams.	 Service Model	 Data Object
Auxiliary Data Object	Auxiliary data objects provide context for the “why, when, where, etc.” attributes and, while they are important to the IT function, they do not play a vital role in managing the service lifecycle. The IT4IT Reference Architecture currently describes eight (8) auxiliary data objects and they are depicted using a gray colored circle.	 Auxiliary Data Object	 Data Object

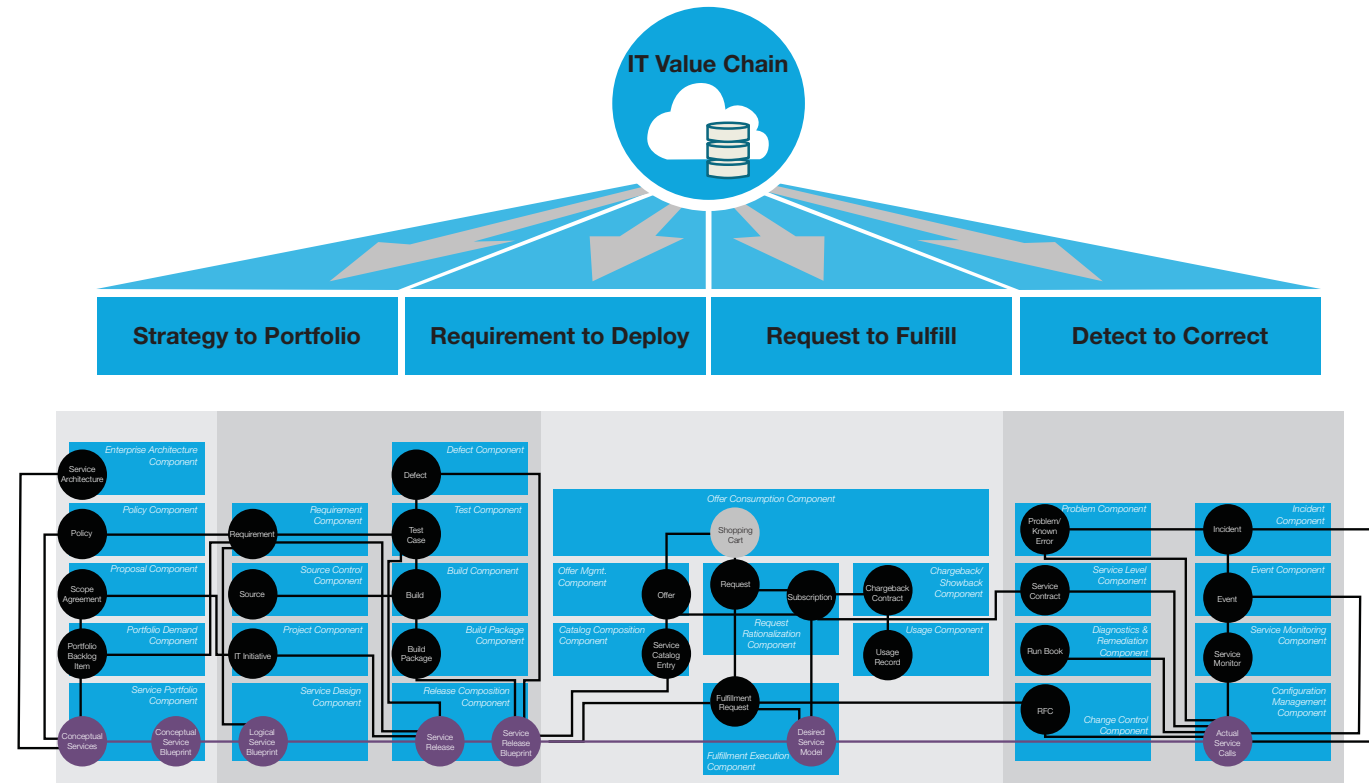
Functional Model

Object Type	Description	Informal Representation	Formal Representation
Primary Functional Component	A primary functional component is depicted using a blue colored rectangle and is core to a specific value stream. This means that the functional component plays a key role in the activities of a particular value stream. Without this functional component, the integrity of the data objects and thus the Service Model could not be maintained consistently and efficiently. Most IT4IT documentation will use language such as “a functional component is owned by or is core to a particular value stream” to represent a primary functional component.	 Functional Component (Primary)	 Application Component
Secondary Functional Component	Secondary functional components are depicted using a gray colored rectangle and represent some level of dependency or interaction with a value stream and its data objects. While they interact with a value stream, they are not core to it and are either primary to another value stream or supporting function or represent a capability	 Functional Component (Secondary)	 Application Component

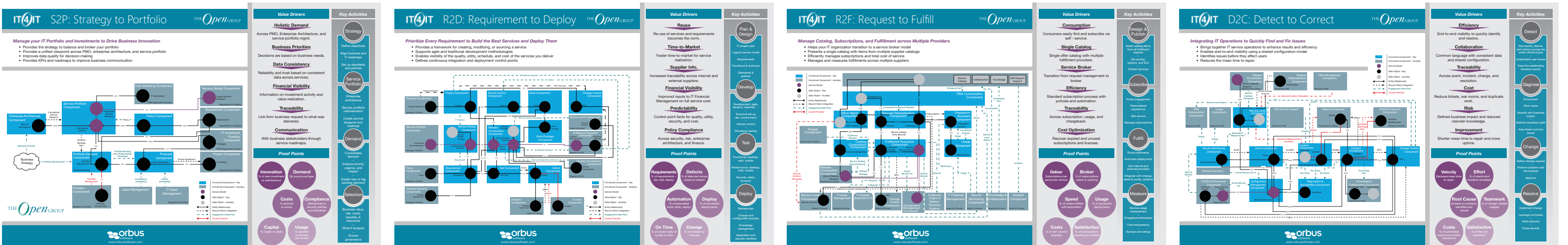
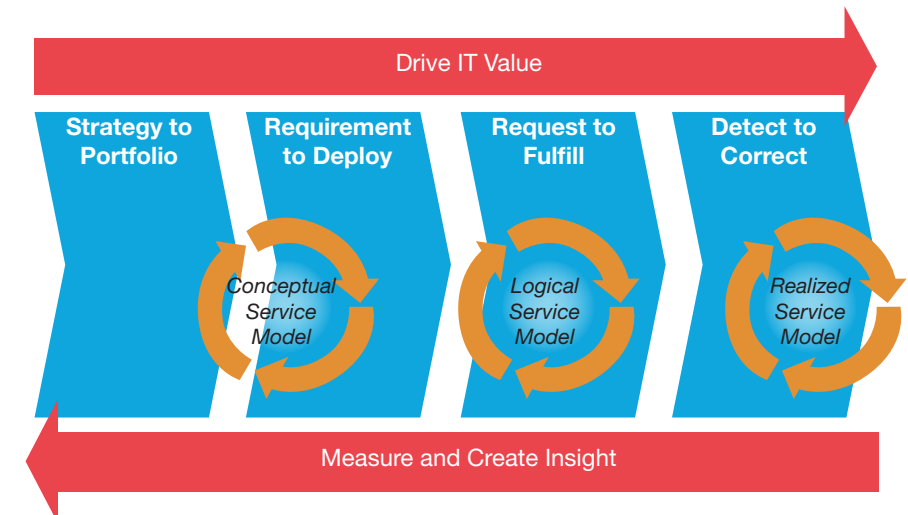
Leveraging Business Value Chain Success



Value Stream Overview



Service Model Lifestyle



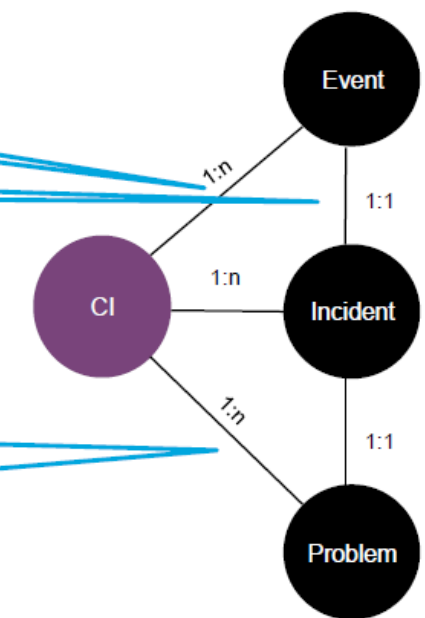
Information Model

Relationship Type	Description	Informal Representation	Formal Representation
Entity Relationship	The essential relationships between data objects within and across value streams are defined in the IT4IT Reference Architecture. These relationships function as a prescriptive guide for ensuring the integrity of the Service Model as it progresses through its lifecycle and facilitate traceability across value streams. Within the IT4IT Reference Architecture, the relationship between data objects is annotated as follows:		
	<i>1 to 1 (1:1): implies that if there is a relationship, it is between two data objects. It does not imply that there will always be a relationship. For example, Events without Incidents or Incidents without Events are legitimate scenarios.</i>	1:1	0..1 0..1
	<i>1 to many (1:n): implies that one data object relates (A) to one or more other data objects (B...) in scenarios where there is a relationship.</i>	1:n	0..1:*
	<i>Many to many (n:m): implies that both A and B above can relate to zero, one, or many of the connected data objects.</i>	n:m	*..*
Record Fabric Relationship	These entity relationship definitions ensure the consistent management of the lifecycle for individual data objects, as well as ensuring that the data objects are consistently named and crosslinked through prescriptive data flows between functional components to maintain the integrity of the Service Model. They are represented by a dotted black line.	----->	
Engagement Dataflow	These are user interface integrations derived from value stream use-cases and user stories. These integrations deliver the technology underpinning for a capability by combining several functional components into a single user experience to facilitate human interaction with data objects. In the IT4IT Reference Architecture system of engagement integrations are represented by the blue arrow	-.-.-.->	

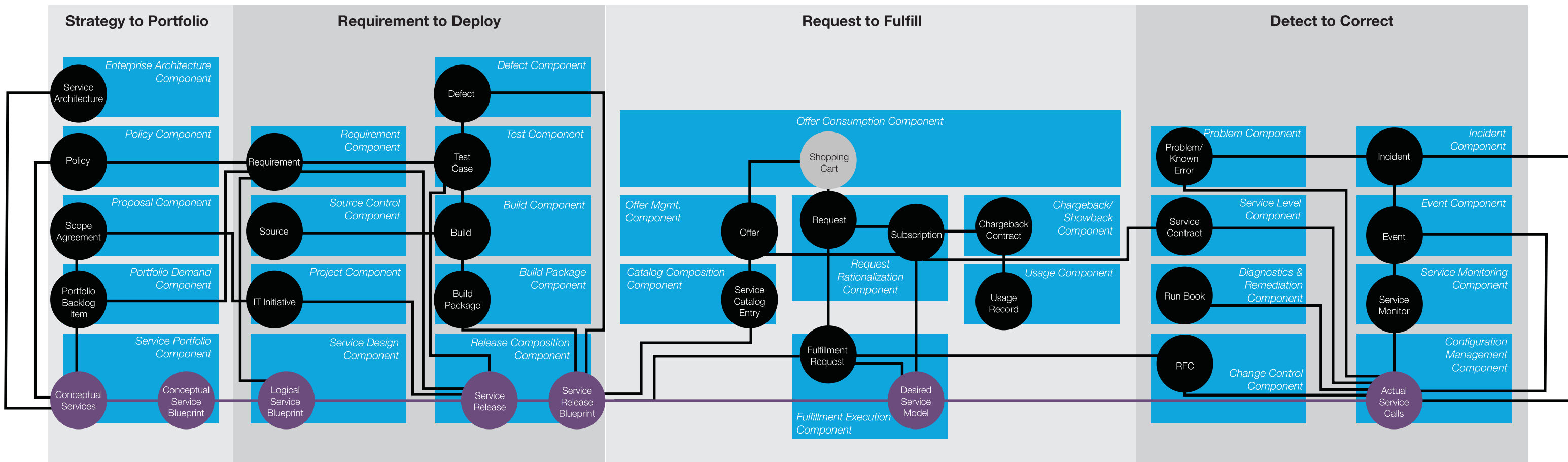
An Event is a data object. Each Event relates to a single Configuration Item (CI) at most. A CI can relate to several Events: 1:n

Events can relate to Incidents in a 1:1 manner.

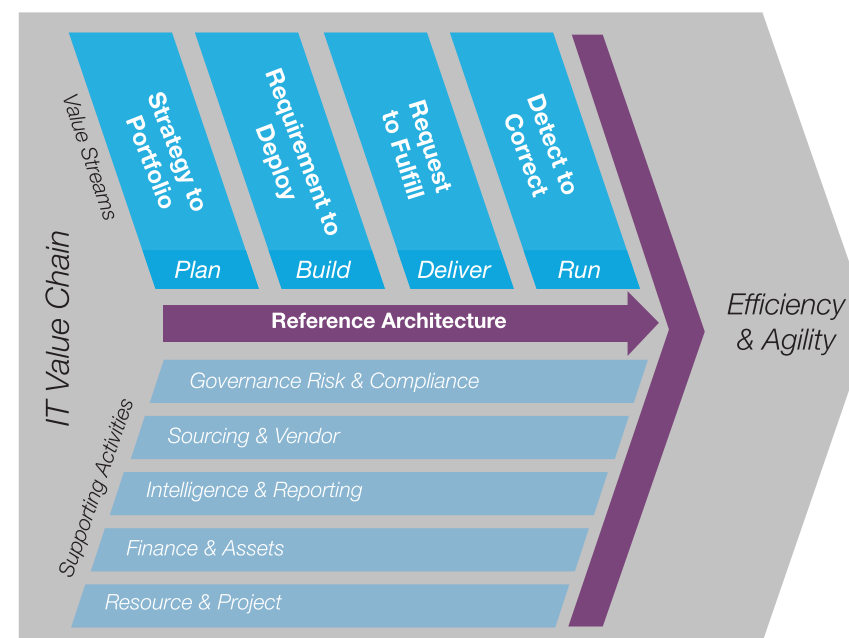
The actual implementation and maintenance of the relationship is not specified. In some cases, only maintaining a one-directional pointer attribute is enough. In other cases, the entire relationship might be derived from a more complicated search.



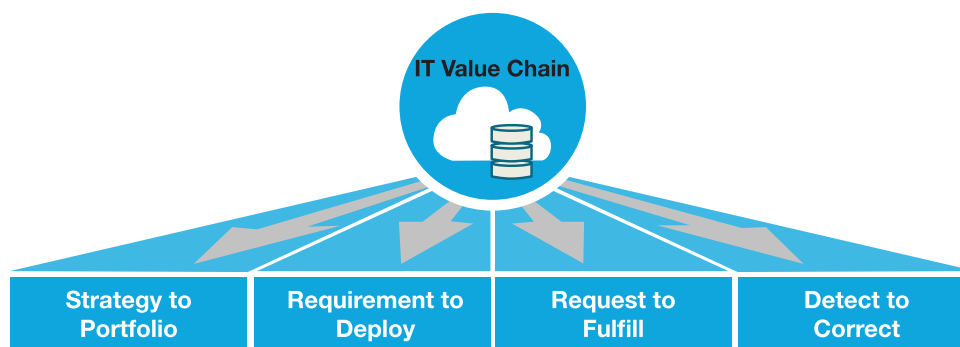
IT4IT Reference Architecture, Level 1



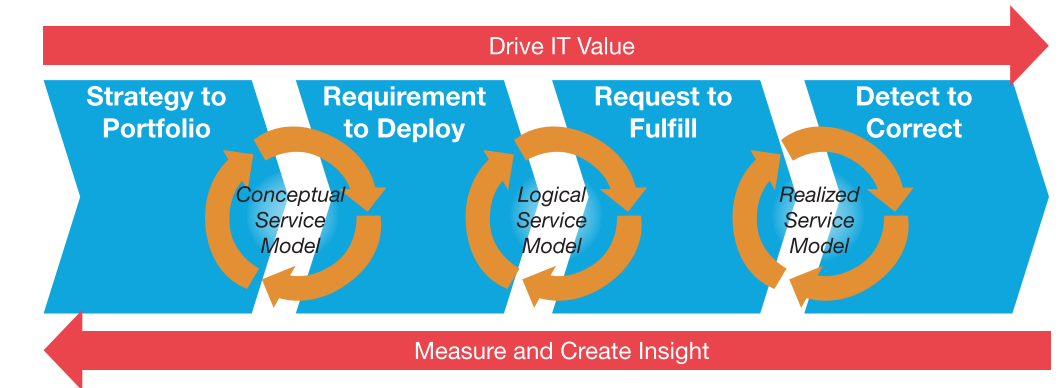
Leveraging Business Value Chain Success



Value Stream Overview



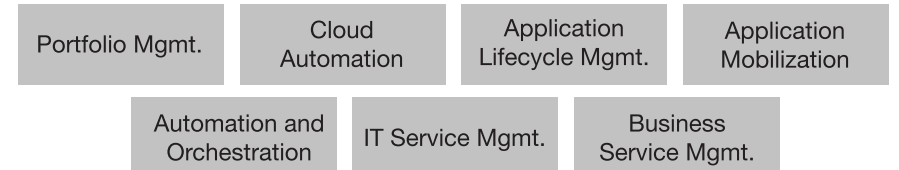
Service Model Lifecycle



An Operating Model for the New Style of IT

- Plan** Define your **strategy** to balance and broker your **Portfolio**
- Build** Prioritize every **requirement** to build the best services and **deploy** them
- Deliver** Handle each **request** by streamlining the process to **fulfill** it
- Run** Seek to **detect** issues and to **correct** them before impacting users

End-to-End
Integrated
Reference
Architecture

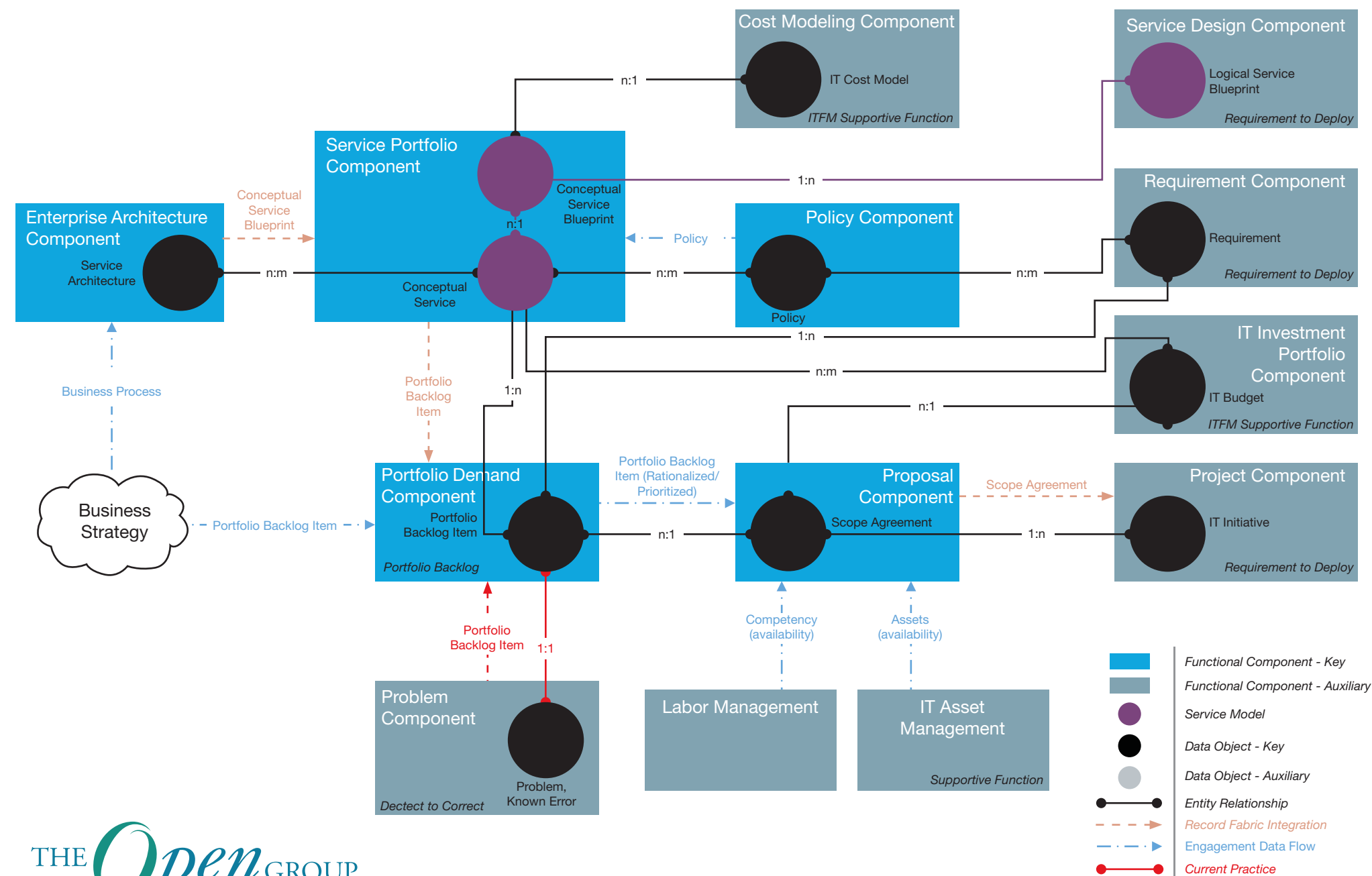


Source: Open Group - <http://www.opengroup.org/IT4IT>

IT4IT S2P: Strategy to Portfolio

Manage your IT Portfolio and Investments to Drive Business Innovation

- Provides the strategy to balance and broker your portfolio
- Provides a unified viewpoint across PMO, enterprise architecture, and service portfolio
- Improves data quality for decision-making
- Provides KPIs and roadmaps to improve business communication



Source: Open Group - <http://www.opengroup.org/IT4IT>

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Value Drivers

Holistic Demand

Across PMO, Enterprise Architecture, and service portfolio mgmt.

Business Priorities

Decisions are based on business needs.

Data Consistency

Reliability and trust based on consistent data across services.

Financial Visibility

Information on investment activity and value realization.

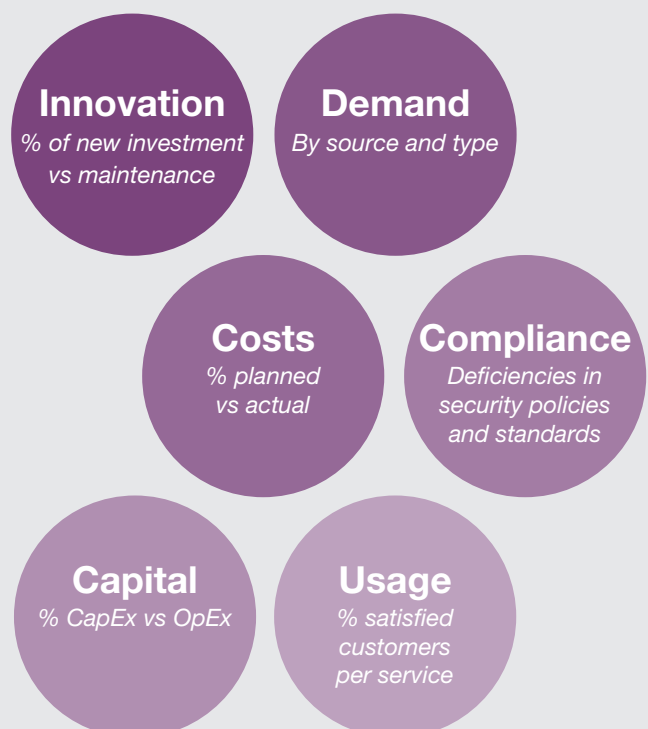
Traceability

Link from business request to what was delivered.

Communication

With business stakeholders through service roadmaps.

Proof Points



Key Activities

Strategy

- Define objectives
- ~
- Align business and IT roadmaps
- ~
- Set up standards and policies

Service Portfolio

- Enterprise architecture
- ~
- Service portfolio rationalization
- ~
- Create service blueprint and roadmap

Demand

- Consolidate demand
- ~
- Analyze priority, urgency, and impact
- ~
- Create new or tag existing demand

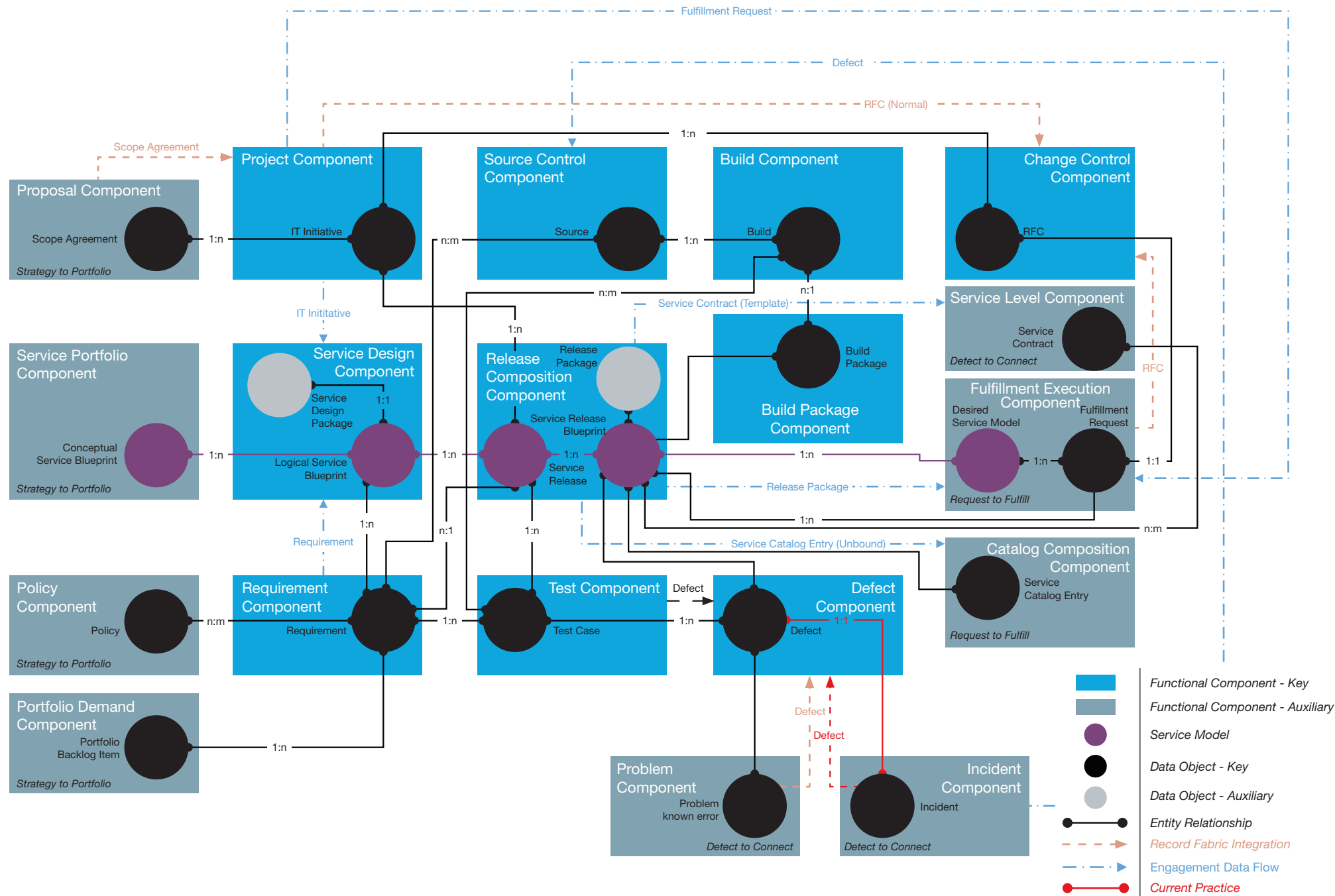
Selection

- Business value, risk, costs, benefits, & resources
- ~
- What-if analysis
- ~
- Ensure governance

IT4IT R2D: Requirement to Deploy

Prioritize Every Requirement to Build the Best Services and Deploy Them

- Provides a framework for creating, modifying, or sourcing a service
- Supports agile and traditional development methodologies
- Enables visibility of the quality, utility, schedule, and cost of the services you deliver
- Defines continuous integration and deployment control points



Source: Open Group - <http://www.opengroup.org/IT4IT>

Value Drivers

Reuse

Re-use of services and requirements becomes the norm.

Time-to-Market

Faster time-to-market for service realization.

Supplier Info.

Increased traceability across internal and external suppliers.

Financial Visibility

Improved inputs to IT Financial Management on full service cost.

Predictability

Control point facts for quality, utility, security, and cost.

Policy Compliance

Across security, risk, enterprise architecture, and finance.

Proof Points

Requirements

% of requirements – dev, test, deploy

Defects

% of detected versus closed at release

Automation

% of automated build, tests, deploy

Deploy

% of successful deployments

On Time

% of project tasks or cycles on time

Change

% of emergency changes

Key Activities

Plan & Design

IT project plan
~
Logical service model
~
Requirements
~
Functional & technical
~
Standards & policies

Develop

Development: agile, iterative, waterfall, ...
~
Source & set up dev. environment
~
Version control
~
Developer testing

Test

Functional: desktop, web, mobile
~
Performance: desktop, web, mobile
~
Security: static, dynamic

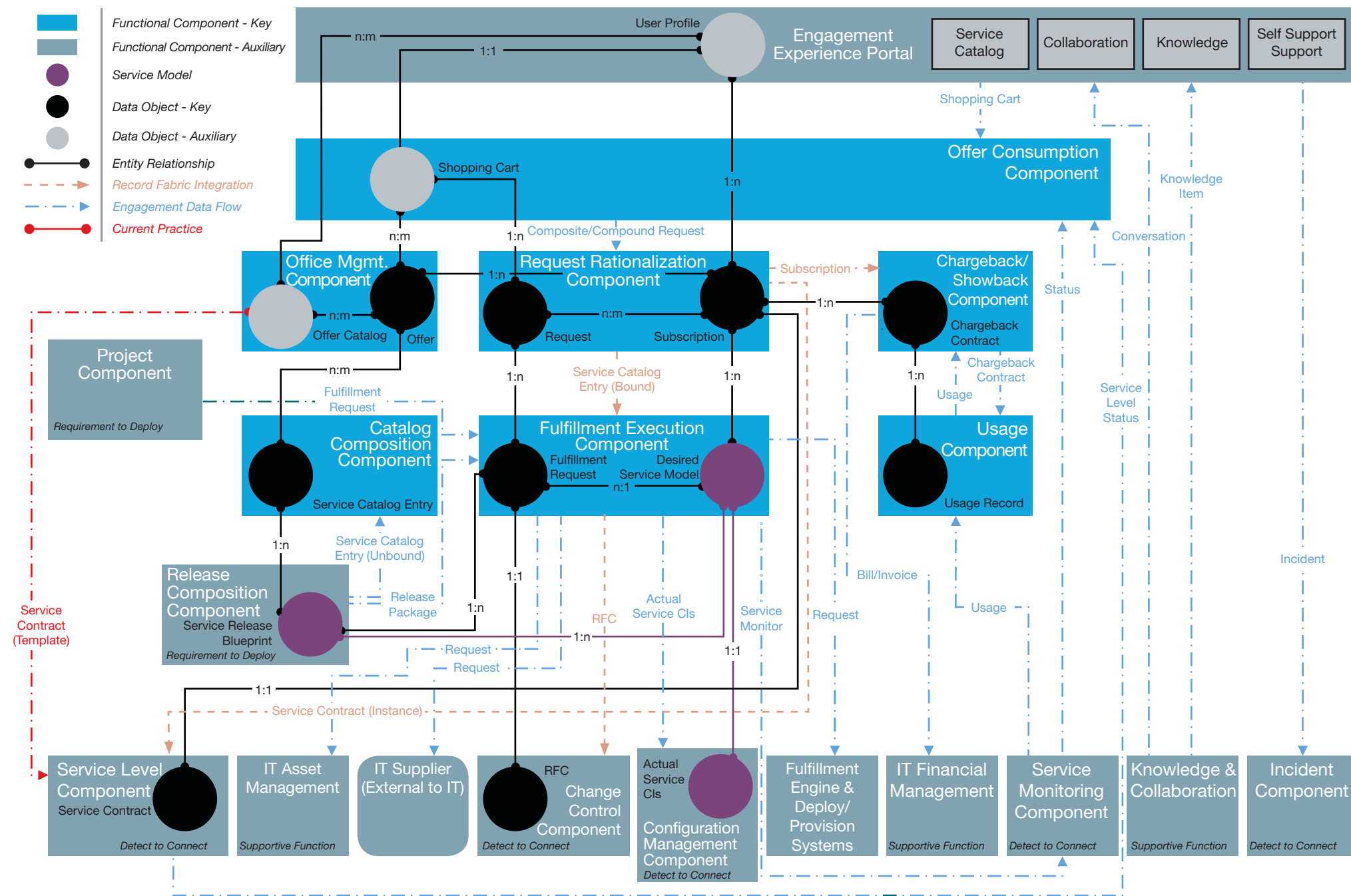
Deploy

Release plan
~
Change and configuration process
~
Knowledge management
~
Application and security monitors

IT4IT R2F: Request to Fulfill

Manage Catalog, Subscriptions, and Fulfillment across Multiple Providers

- Helps your IT organization transition to a service broker model
- Presents a single catalog with items from multiple supplier catalogs
- Efficiently manages subscriptions and total cost of service
- Manages and measures fulfillments across multiple suppliers



Source: Open Group - <http://www.opengroup.org/IT4IT>

Value Drivers

Consumption

Consumers easily find and subscribe via self - service.

Single Catalog

Single offer catalog with multiple fulfillment providers.

Service Broker

Transition from request management to broker.

Efficiency

Standard subscription process with policies and automation.

Traceability

Across subscription, usage, and chargeback.

Cost Optimization

Recover expired and unused subscriptions and licenses.

Proof Points

Deliver

Subscriptions per period per service

Broker

% of subscriptions active or expiring

Speed

% of orders fulfilled with automation

Usage

% of successful deployments

Costs

% of self -service requests

Satisfaction

% of subscriptions requiring an incident

Key Activities

Design & Publish

Mash catalog items from all fulfillment engines
~
Set pricing, options, and SLA
~
Publish services

Subscribe

Portal engagement
~
Personalized experience
~
Self-service
~
Manage subscriptions

Fulfill

Route fulfillments
~
Automate deployment
~
Use internal and external providers
~
Integrate with change, asset & config. systems

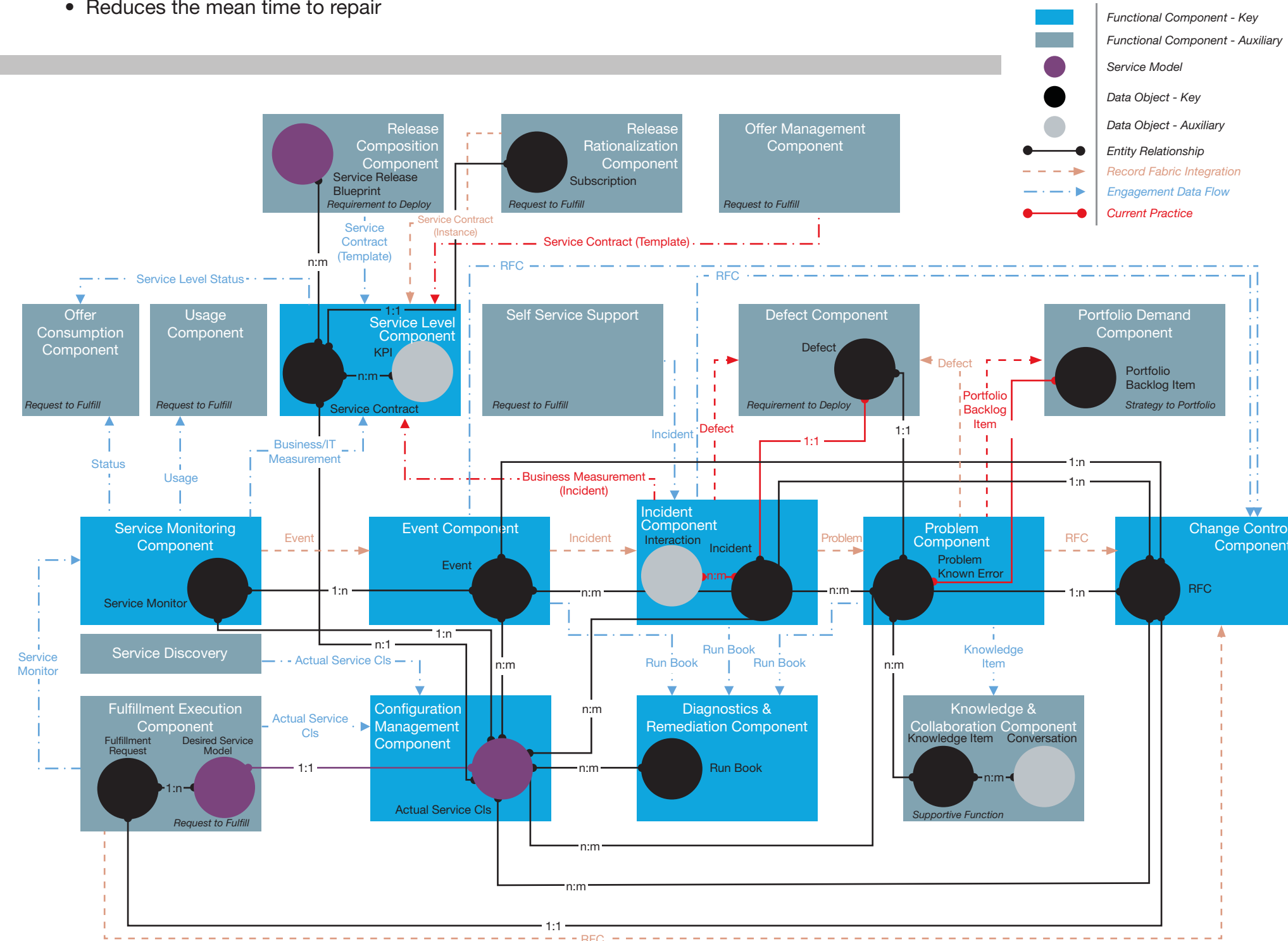
Measure

Service usage measurement
~
Chargeback/showback
~
Cost transparency
~
Surveys and ratings

IT4IT D2C: Detect to Correct

Integrating IT Operations to Quickly Find and Fix Issues

- Brings together IT service operations to enhance results and efficiency
- Enables end-to-end visibility using a shared configuration model
- Identifies issues before they affect users
- Reduces the mean time to repair



Source: Open Group - <http://www.opengroup.org/IT4IT>

Value Drivers

Efficiency

End-to-end visibility to quickly identify and resolve.

Collaboration

Common language with consistent data and shared configuration.

Traceability

Across event, incident, change, and resolution.

Cost

Reduce tickets, war rooms, and duplicate work.

Risk

Defined business impact and reduced clannish knowledge.

Improvement

Shorter mean time to repair and more uptime.

Proof Points

Velocity

Decrease mean time to repair

Effort

% of events and incidents escalated

Root Cause

Increase in problems identified and solved

Teamwork

% of change-related outages

Costs

% of automated event and incident resolutions

Satisfaction

% of first call resolution

Key Activities

Detect

See events, alarms, and metrics across the entire infrastructure
~
Understand user issues
~
Trace the relationship between events

Diagnose

Enrichment
~
Root cause
~
Severity and business impact
~
Defined escalation path
~
Auto-fixed common issues

Change

Define change request
~
Perform problem and risk analysis
~
Approve

Resolve

Implement change
~
Leverage run books
~
Verify recovery
~
Close records