

Product Design



ProPath

Office of Information and Technology

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Product Design Process Maps

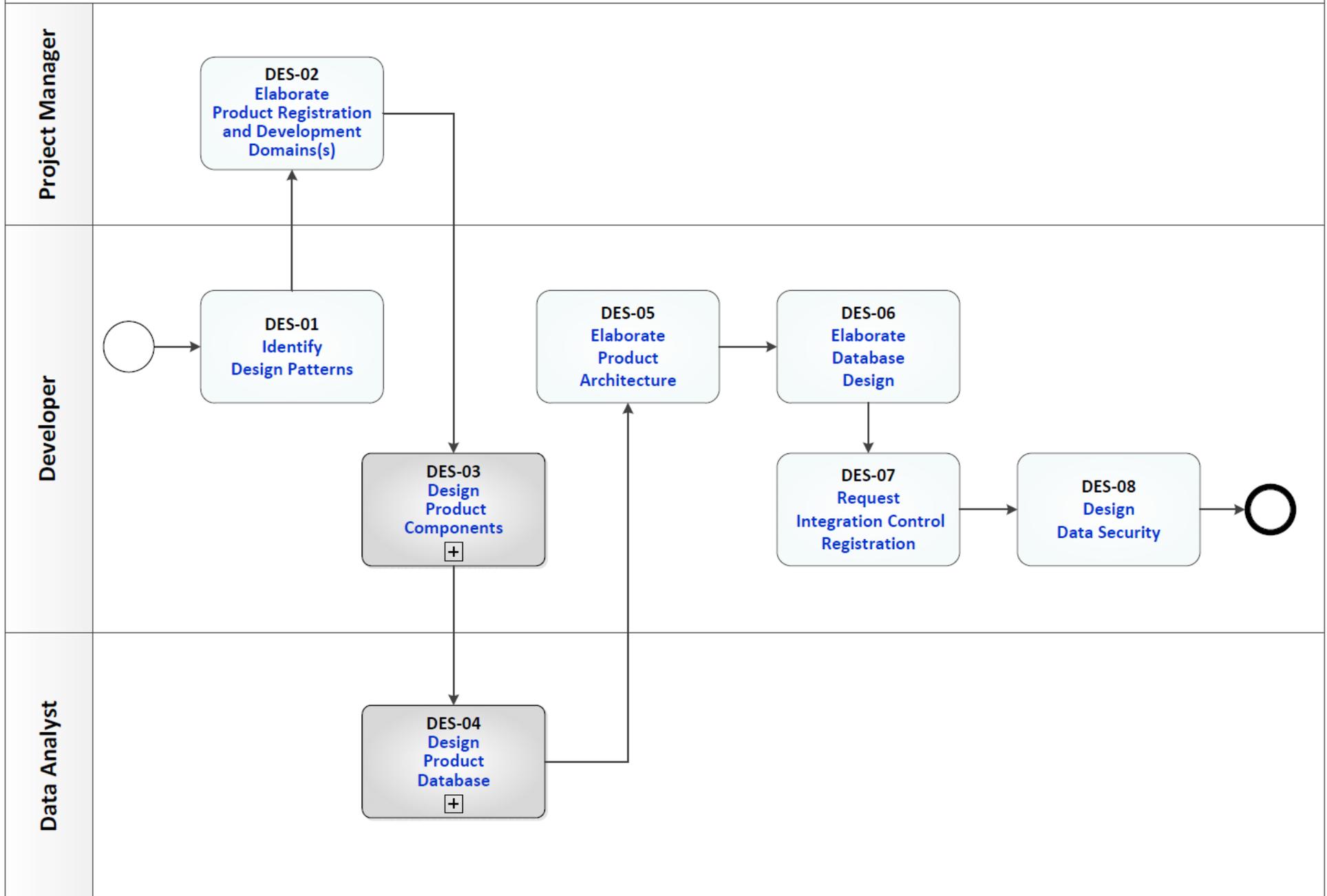
Product Design (DES)

[Home](#)

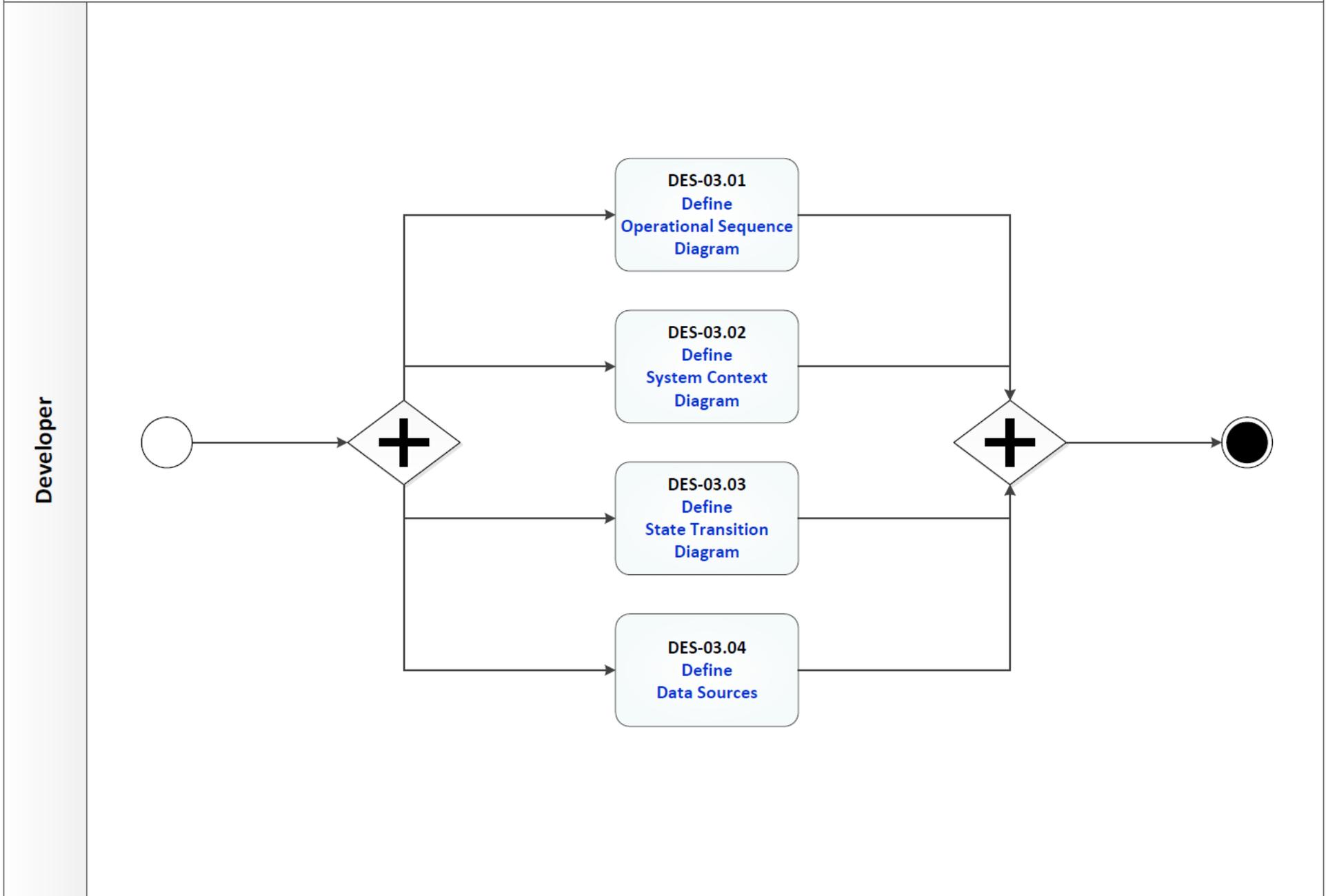
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[RACI](#)

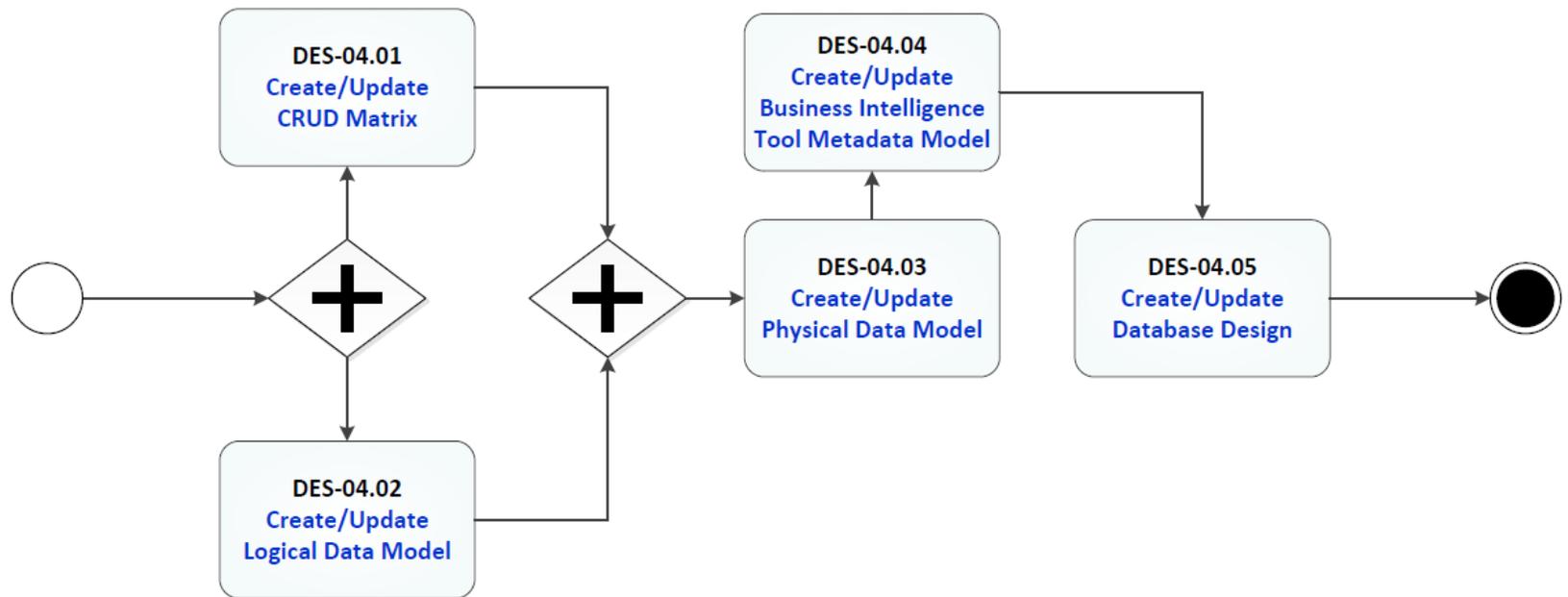
[Help](#)



Product Design: DES-03 Design Product Components



Data Analyst



Process: Product Design

Overview: The process map for Product Design cycles through the following process and review activities:

- DES-01 Identify Design Patterns
- DES-02 Elaborate Product Registration and Development Domain(s)
- DES-03 Design Product Components
 - DES-03.01 Define Operational Sequence Diagram
 - DES-03.02 Define System Context Diagram
 - DES-03.03 Define State Transition Diagram
 - DES-03.04 Define Data Sources
- DES-04 Design Product Database
 - DES-04.01 Create/Update CRUD Matrix
 - DES-04.02 Create/Update Logical Data Model
 - DES-04.03 Create/Update Physical Data Model
 - DES-04.04 Create/Update Business Intelligence Tool Metadata Model
 - DES-04.05 Create/Update Database Design
- DES-05 Elaborate Product Architecture
- DES-06 Elaborate Database Design
- DES-07 Request Integration Control Registration
- DES-08 Design Data Security

Product Design Description and Goals

Description

This process is used to describe a new system in sufficient detail that skilled developers can develop the software with limited additional input. Key Product Design artifacts are produced as a result of this process.

Goals

To describe the new system in sufficient detail that skilled developers can develop the software with minimal additional input.

The output describes the new system as a collection of product components.

Key Product Design artifacts include:

- Context Diagrams
- CRUD Matrix
- Data Sources
- Operational Sequence Diagrams
- Physical and Logical Database Models
- State Transition Diagrams

Product Design RACI Information

The following describes the RACI information for this process:

DES-01 Identify Design Patterns

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: Project Team

Informed Role: None Listed

DES-02 Elaborate Product Registration and Development Domain(s)

Responsible Role: Project Manager

Accountable Role: Program Manager

Consulted Role: Director, Product Assessment

Informed Role: None Listed

DES-03.01 Define Operational Sequence Diagram

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: None Listed

Informed Role: None Listed

DES-03.02 Define System Context Diagram

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: None Listed

Informed Role: None Listed

DES-03.03 Define State Transition Diagram

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: None Listed

Informed Role: None Listed

DES-03.04 Define Data Sources

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: None Listed

Informed Role: None Listed

DES-04.01 Create/Update CRUD Matrix

Responsible Role: Data Analyst

Accountable Role: Application and Data Architecture Service Director

Consulted Role: None Listed

Informed Role: None Listed

DES-04.02 Create/Update Logical Data Model

Responsible Role: Data Analyst

Accountable Role: Application and Data Architecture Service Director

Consulted Role: None Listed

Informed Role: None Listed

DES-04.03 Create/Update Physical Data Model

Responsible Role: Data Analyst

Accountable Role: Application and Data Architecture Service Director

Consulted Role: None Listed

Informed Role: None Listed

DES-04.04 Create/Update Business Intelligence Tool Metadata Model

Responsible Role: Data Analyst

Accountable Role: Application and Data Architecture Service Director

Consulted Role: None Listed

Informed Role: None Listed

DES-04.05 Create/Update Database Design

Responsible Role: Data Analyst

Accountable Role: Application and Data Architecture Service Director

Consulted Role: None Listed

Informed Role: None Listed

DES-05 Elaborate Product Architecture

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: None Listed

Informed Role: None Listed

DES-06 Elaborate Database Design

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: None Listed

Informed Role: None Listed

DES-07 Request Integration Control Registration

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: Director, Product Assessment

Informed Role: None Listed

DES-08 Design Data Security

Responsible Role: Developer

Accountable Role: Project Manager

Consulted Role: None Listed

Informed Role: None Listed

Product Design Associated Artifacts Information

Associated Artifacts information (including hyperlinks) for this process includes:

Acquisition Plan Template

Acquisition Requirements Package

Acquisition Strategy Template

Business Epic

Business Sub-epic

Business User Story

Master Test Plan Template

Open Source Submission Checklist

Open Source Submission Package

Production Operations Manual Template

System Design Document Template

System Security Plan

Product Design Tools and Web Sites Information

The Tools and Web Sites associated with this process (including hyperlinks) include:

Application Structure & Integration Services Website

Business Reference Model

Enterprise Design Patterns, Design Pattern Library

HealthVet-VistA Database Administration Program

PD Integration Control Registration Database

Product Registration Database

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

VA EA Enterprise Shared Services / Service Oriented Architecture

VA EA Enterprise Technical Architecture

VA EA Home

Virtual Office of Acquisition (VOA), Customer Acquisition Portal (CAP)

VistA FORUM Systems

Product Design Standards Information

Standards associated with this process (including hyperlinks) include:

FORUM Primer A Practical Guide to Using FORUM as a Research Tool

VA Directive 6051, Enterprise Architecture

VA Directive 6551, Enterprise Design Patterns

VA EA Enterprise Technical Architecture (ETA) Compliance Criteria

VA Enterprise Target Application Architecture

VA Handbook 6500, Risk Management Framework for VA Information Systems - Tier 3: VA Information Security Program

VA Open Source Methodology

Product Design Process

Process Activity Name: DES-01 Identify Design Patterns

Previous Activities

Process Begins

Next Activities

DES-02 Elaborate Product Registration and Development Domain(s)

Description

The Developer identifies the applicable design patterns to use for the given project.

Input

Business Case Document

Business Reference Model

Data Reference Model

Epics

Federal Enterprise Architecture Business Reference Model

Federal Enterprise Architecture Data Reference Model

Federal Enterprise Architecture Service Reference Model

Service Reference Model

Sub-Epics

Systems Functionality Description

User Stories

Output

Potential Design Patterns

Associated Artifacts

None Listed

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

Project Team

Informed Role

None Listed

Tools and Websites

Enterprise Design Patterns, Design Pattern Library

VA EA Enterprise Technical Architecture

VA EA Enterprise Shared Services / Service Oriented Architecture

VA EA Home

Standards

VA EA Enterprise Technical Architecture (ETA) Compliance Criteria

VA Directive 6051, Enterprise Architecture

VA Directive 6551, Enterprise Design Patterns

More Info

None Listed

Process Activity Name: DES-02 Elaborate Product Registration and Development Domain(s)

Previous Activities

DES-01 Identify Design Patterns

Next Activities

DES-03 Design Product Components

Description

The Project Manager elaborates the product registration and development domain(s). A Class 1 product's registration in the product portfolio as established during Project Planning, and its protected reservation of configured development and release domain boundaries, is updated/enhanced based on additional known design functional and system requirements, and design implications. Based on updated software architecture knowledge, the project is assigned additional coding boundaries for constructs inherent to a particular technology or platform in order to avoid any risk of product collisions in all environments where the product is to be installed. Through this process, the configuration of a software product is further defined and centrally registered.

Input

Data Reference Model

Product Registration

Service Reference Model

Systems Functionality Description

Output

Updated Product Registration

Associated Artifacts

None Listed

Responsible Role

Project Manager

Accountable Role

Program Manager

Consulted Role

Director, Product Assessment

Informed Role

None Listed

Tools and Websites

Application Structure & Integration Services Website

PD Integration Control Registration Database

VistA FORUM Systems

Standards

FORUM Primer A Practical Guide to Using FORUM as a Research Tool

More Info

VA OIT PD Project Management Council Email group: VA OIT OED VistA DBA

Process Activity Name: DES-03 Design Product Components**Previous Activities**

DES-02 Elaborate Product Registration and Development Domain(s)

Next Activities

DES-03.01 Define Operational Sequence Diagram

And

DES-03.02 Define System Context Diagram

And

DES-03.03 Define State Transition Diagram

And

DES-03.04 Define Data Sources

Description

The sub-process map Design Product Components cycles through the following independent activities:

- Define Operational Sequence Diagram
- Define System Context Diagram
- Define State Transition Diagram
- Define Data Sources

Process Activity Name: DES-03.01 Define Operational Sequence Diagram

Concurrent Activities

DES-03.02 Define System Context Diagram

And

DES-03.03 Define State Transition Diagram

And

DES-03.04 Define Data Sources

Previous Activities

DES-03 Design Product Components

Next Activities

DES-04 Design Product Database

Description

As necessary, the Developer creates the Operational Sequence Diagram and illustrates the order and flow of events within the application and external systems.

Input

Epics

Logical Data Model

Physical Data Model

Sub-Epics

User Stories

Output

Operational Sequence Diagram

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

Operation sequence diagrams (OSD) are graphical representations of team interaction in a network. They portray how tasks are performed and how individuals interact over time.

Process Activity Name: DES-03.02 Define System Context Diagram**Concurrent Activities**

DES-03.01 Define Operational Sequence Diagram

And

DES-03.03 Define State Transition Diagram

And

DES-03.04 Define Data Sources

Previous Activities

DES-03 Design Product Components

Next Activities

DES-04 Design Product Database

Description

As necessary, the Developer creates the System Context Diagram and illustrates the connections within the product component and the external systems. The design includes components, data stores and interfaces within the application as well as interfaces between internal components and external systems.

Input

Epics

Functional Architecture Model Deliverables

Interface Architecture Diagrams

Logical Data Model Deliverables

Physical Data Model Deliverables

Sub-Epics

User Stories

Output

System Context Diagram

Epics

Sub-Epics

User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

A system context diagram (SCD) in software engineering and systems engineering is a diagram that defines the boundary between the system, or part of a system, and its environment, showing the entities that interact with it. This diagram is a high level view of a system. It is similar to a block diagram.

Process Activity Name: DES-03.03 Define State Transition Diagram

Concurrent Activities

DES-03.01 Define Operational Sequence Diagram

And

DES-03.02 Define System Context Diagram

And

DES-03.04 Define Data Sources

Previous Activities

DES-03 Design Product Components

Next Activities

DES-04 Design Product Database

Description

The Developer creates the State Transition Diagram and illustrates the behavior of subsystems within the component and the external systems.

Input

Epics

Functional Architecture Model Deliverables

Interface Architecture Diagrams

Logical Data Model Deliverables

Physical Data Model Deliverables

Sub-Epics

User Stories

Output

State Transition Diagram

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

A state diagram is a type of diagram used in computer science and related fields to describe the behavior of systems. State diagrams require that the system described is composed of a finite number of states; sometimes, this is indeed the case, while at other times this is a reasonable abstraction. Many forms of state diagrams exist, which differ slightly and have different semantics.

Process Activity Name: DES-03.04 Define Data Sources

Concurrent Activities

DES-03.01 Define Operational Sequence Diagram

And

DES-03.02 Define System Context Diagram

And

DES-03.03 Define State Transition Diagram

Previous Activities

DES-03 Design Product Components

Next Activities

DES-04 Design Product Database

Description

As necessary, the Developer creates the Data Sourcing Diagram and presents a detailed view of the data involved in the product. This activity converts logical or conceptual data constructs to physical storage constructs of the target Database Management System (DBMS).

Input

Epics

Logical Data Model Deliverables

Physical Data Model Deliverables

Sub-Epics

User Stories

Output

Data Sourcing Diagram

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

None Listed

Process Activity Name: DES-04 Design Product Database

Previous Activities

DES-03.01 Define Operational Sequence Diagram

AND

DES-03.02 Define System Context Diagram

AND

DES-03.03 Define State Transition Diagram

AND

DES-03.04 Define Data Sources

Next Activities

DES-04.01 Create/Update CRUD Matrix

And

DES-04.02 Create/Update Logical Data Model

Description

The sub-process Design Product Database cycles through the following independent activities:

- Create/Update CRUD Matrix
- Create/Update Logical Data Model
- Create/Update Physical Data Model
- Create/Update Business Intelligence Tool Metadata Model
- Create/Update Database Design

Process Activity Name: DES-04.01 Create/Update CRUD Matrix

Concurrent Activities

DES-04.02 Create/Update Logical Data Model

Previous Activities

DES-04 Design Product Database

Next Activities

DES-04.03 Create/Update Physical Data Model

Description

As necessary, the Data Analyst identifies the processes, the data and CRUD (CREATION, READ, UPDATE, and DELETE) points of every attribute within the product components.

Input

Epics

Logical Data Model Deliverables

Physical Data Model Deliverables

Sub-Epics

User Stories

Output

CRUD Matrix

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Data Analyst

Accountable Role

Application and Data Architecture Service Director

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

None Listed

Process Activity Name: DES-04.02 Create/Update Logical Data Model

Concurrent Activities

DES-04.01 Create/Update CRUD Matrix

Previous Activities

DES-04 Design Product Database

Next Activities

DES-04.03 Create/Update Physical Data Model

Description

As necessary, the Data Analyst creates or updates the Logical Data Model to illustrate the connections within the subsystem/application and external systems. This includes components, data stores and interfaces within the application as well as interfaces between internal components and external systems. The Data Analyst submits a copy of the Logical Data Model along with the Open Source Submission Checklist to OIT PD Open Source, Configuration & Tools Management Division via the mail group OIT Open Source Software Delivery or OSSOFT@va.gov.

Input

Epics

Sub-Epics

User Stories

Output

Open Source Submission Checklist

Logical Data Model

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Open Source Submission Checklist

Business Sub-epic

Business User Story

Responsible Role

Data Analyst

Accountable Role

Application and Data Architecture Service Director

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

A logical data model or logical schema is a data model of a specific problem domain expressed independent of a particular database management product or storage technology (physical data model) but in terms of data structures such as relational tables and columns, object-oriented classes, or XML tags. This is as opposed to a conceptual data model, which describes the semantics of an organization without reference to technology.

Emails to OIT PD Open Source, Configuration & Tools Management Division are sent via the mail group OIT Open Source Software Delivery or OSSOFT@va.gov.

Process Activity Name: DES-04.03 Create/Update Physical Data Model

Previous Activities

DES-04.01 Create/Update CRUD Matrix

AND

DES-04.02 Create/Update Logical Data Model

Next Activities

DES-04.04 Create/Update Business Intelligence Tool Metadata Model

Description

As necessary, the Data Analyst creates/updates the Physical Data Model. This activity converts logical or conceptual data constructs and CRUD (CREATION, READ, UPDATE, and DELETE) attributes to physical storage constructs (e.g., tables, files) of the target Database Management System (DBMS).

Input

CRUD Matrix

Epics

Logical Data Model

Sub-epics

User Stories

Output

Physical Data Model

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Data Analyst

Accountable Role

Application and Data Architecture Service Director

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

A physical data model (or database design) is a representation of a data design which takes into account the facilities and constraints of a given database management system. In the lifecycle of a project it typically derives from a logical data model, though it may be reverse-engineered from a given database implementation. A complete physical data model will include all the database artifacts required to create relationships between tables or to achieve performance goals, such as indexes, constraint definitions, linking tables, partitioned tables or clusters. Analysts can usually use a physical data model to calculate storage estimates; it may include specific storage allocation details for a given database system.

Process Activity Name: DES-04.04 Create/Update Business Intelligence Tool Metadata Model

Previous Activities

DES-04.03 Create/Update Physical Data Model

Next Activities

DES-04.05 Create/Update Database Design

Description

The Data Analyst adds metadata from various data sources, designing and organizing the metadata to a data warehouse, and using that metadata for decision analysis and reporting.

Input

CRUD Matrix

Epics

Logical Data Model

Physical Data Model

Sub-Epics

User Stories

Output

Business Intelligence (BI) Tool Metadata Model

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Data Analyst

Accountable Role

Application and Data Architecture Service Director

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

None Listed

Process Activity Name: DES-04.05 Create/Update Database Design

Previous Activities

DES-04.04 Create/Update Business Intelligence Tool Metadata Model

Next Activities

DES-05 Elaborate Product Architecture

Description

The Data Analyst documents how the new software module or service meets the criteria of separating and loosely coupling data acquisition, data conformance, data centralization, data federation, operational data exploitation, and analytic data exploitation. The Data Analyst submits the Open Source Submission Checklist to OIT PD Open Source, Configuration & Tools Management Division via the mail group OIT Open Source Software Delivery or OSSOFT@va.gov.

Input

Business Intelligence (BI) Tool Metadata Model

Data Architecture Diagram

Data Security Diagram

Enterprise Data Architecture Document

Epics

Logical Data Model

Physical Data Model

Sub-Epics

User Stories

Output

Database Design

Open Source Submission Checklist

Updated Epics

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Open Source Submission Checklist

Business Sub-epic

Business User Story

Responsible Role

Data Analyst

Accountable Role

Application and Data Architecture Service Director

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

VA EA Home

Standards

VA EA Enterprise Technical Architecture (ETA) Compliance Criteria

More Info

The VA EA Enterprise Technical Architecture (ETA) Compliance Criteria document establishes minimum compliance criteria for a product or product release. Use the VA EA Home Feedback Section to submit Enterprise Data Architecture Enhancement Requests.

Emails to OIT PD Open Source, Configuration & Tools Management Division are sent via the mail group OIT Open Source Software Delivery or OSSOFT@va.gov.

Process Activity Name: DES-05 Elaborate Product Architecture

Previous Activities

DES-04.05 Create/Update Database Design

Next Activities

DES-06 Elaborate Database Design

Description

As necessary, the Developer specifies the following:

- All required interactions within the system and all necessary interfaces with external entities
- Multi-step integration processes for the integration of the product component
- Application units to include, at minimum, a description of every input (request) into the system, every output (response) from the system and all functions performed by the system in response to an input or in support of an output

The resulting revised diagrams and interface descriptions are incorporated into Epics, Sub-Epics and User Stories.

Input

Activity Hierarchy Diagrams

Configuration Diagrams

Deployment Diagrams

Epics

Functional Flow Diagrams

Interface Architecture Diagrams

Sub-Epics

User Stories

Output

Expanded Activity Hierarchy Diagrams

Expanded Configuration Diagrams

Expanded External Interface Diagrams

Expanded Integration Architecture Diagrams

Expanded Internal Interface Diagrams

Expanded User Interface Diagrams

Updated Epics

Updated Functional Flow Diagrams

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

None Listed

More Info

All required User Reports are created prior to this activity.

Process Activity Name: DES-06 Elaborate Database Design

Previous Activities

DES-05 Elaborate Product Architecture

Next Activities

DES-07 Request Integration Control Registration

Description

As necessary, the Developer specifies unit-level data requirements and communication protocols and formats between each software unit in the functional group. During this activity the following are fully attributed and updated:

- Business Intelligence (BI) Tool Metadata Design
- Logical Data Model
- Physical Data Model

Input

Business Intelligence (BI) Tool Metadata Design

Data Flow Diagrams

Epics

Logical Data Model

Physical Data Model

Sub-Epics

User Stories

Output

Data Definition Document

Fully Attributed BI Tool Metadata Design

Fully Attributed Logical Data Model

Fully Attributed Physical Data Model

Updated Sub-Epics

Updated User Stories

Associated Artifacts

Business Epic

Business Sub-epic

Business User Story

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

VA EA Enterprise Technical Architecture (ETA) Compliance Criteria

More Info

The VA EA Enterprise Technical Architecture (ETA) Compliance Criteria document establishes minimum compliance criteria for a product or product release.

Process Activity Name: DES-07 Request Integration Control Registration

Previous Activities

DES-06 Elaborate Database Design

Next Activities

DES-08 Design Data Security

Description

The Developer requests the Integration Control Registration (ICR). All built and acquired software products requiring interfaces with or dependencies on data or functionality existing outside of its production registration/development domain boundary and within (see Project Planning for establishment of development domain boundaries) must adhere to the development domain assigned to that product or be addressed by an active ICR. ICRs must be in effect at all times when a package references components external to its development domain. Thus, packages that are not yet released but are installed at field facilities (alpha or beta test) must have active ICRs for all external components. This step begins the discussion and review process for new, updated or retired ICRs including all requests to subscribe or modify existing ICRs. All products must review their dependencies on data and functionality that resides/is owned by other products, and must initiate the ICR request process during this step.

Input

Data Flow Diagram

Existing ICR

External Interface Diagrams

Integration Control Document

Interface Architecture Diagram

Internal Interface Diagrams

Physical Data Model Deliverable

Product Registration

Output

Inactive ICRs retired

Newly Created ICR

Updated Existing ICR

Associated Artifacts

None Listed

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

Director, Product Assessment

Informed Role

None Listed

Tools and Websites

HealthVet-VistA Database Administration Program

PD Integration Control Registration Database

VistA FORUM Systems

Standards

None Listed

More Info

Integration Control Registrations Mail Group: OIT PD Integration Control Registrations

Process Activity Name: DES-08 Design Data Security**Previous Activities**

DES-07 Request Integration Control Registration

Next Activities

Process Ends

Description

The Developer defines the processes enabling the security requirements and also expands on those said requirements. The Developer identifies components which could be vulnerable to a breach of system security and documents how the new software module or service meets Enterprise Security and Privacy criteria. The Developer identifies components which could fail and develops a correction/recovery strategy to ensure that the design minimizes or eliminates the potential for failures of the system.

Input

Application Security Diagrams

Configuration Diagrams

Data Security Diagrams

Deployment Diagram

Domain Model Deliverables

Epics

Integration Architecture Model Deliverables

Interface Architecture Model Deliverables

Logical Data Model

Master Test Plan

Physical Data Model

Production Operations Manual

Security Architecture Deliverables

Service Delivery Model Deliverables

Sub-Epics

System Security Plan

User Stories

Output

Data Security Diagrams

Expanded Trust Model

Updated Epics

Updated Master Test Plan

Updated Production Operations Manual

Updated Sub-Epics

Updated System Security Plan

Updated User Stories

Associated Artifacts

Business Epic

Master Test Plan Template

Production Operations Manual Template

Business Sub-epic

System Security Plan

Business User Story

Responsible Role

Developer

Accountable Role

Project Manager

Consulted Role

None Listed

Informed Role

None Listed

Tools and Websites

Rational Requirements DOORS Next Generation

Rational Team Concert (Change/Configuration Management)

Standards

VA EA Enterprise Technical Architecture (ETA) Compliance Criteria

VA Handbook 6500, Risk Management Framework for VA Information Systems - Tier 3: VA Information Security Program

More Info

The VA EA Enterprise Technical Architecture (ETA) Compliance Criteria document establishes minimum compliance criteria for a product or product release.

END OF PROCESS