## VDAO - Viable DAO Framework

19 Jun 2020 19:02:27

## Purpose

A generalized component structure for modelling DAOs and Self-Regulatory Entities

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## Views

## **Default View**

No viewpoint

Governance 
Design
Constraints

Element	Туре
Governance Design Constraints	Constraint

## **Generated View for Administrator**

Implementation and Migration viewpoint



Element	Туре
Administrator	Contract

# Generated View for Contract Objectives Requirements Realization viewpoint



Element	Туре
Contract Objectives	Contract

# Generated View for Contract Objectives Outcome Realization viewpoint



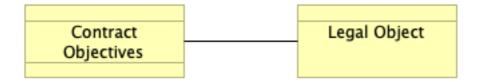
Element	Туре
Contract Objectives	Contract

## Generated View for Contract Objectives Implementation and Migration viewpoint



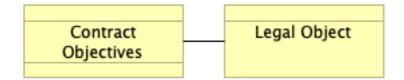
Element	Туре
Contract Objectives	Contract

# Generated View for Contract Objectives Requirements Realization viewpoint



Element	Туре
Contract Objectives	Contract
Legal Object	Business Object

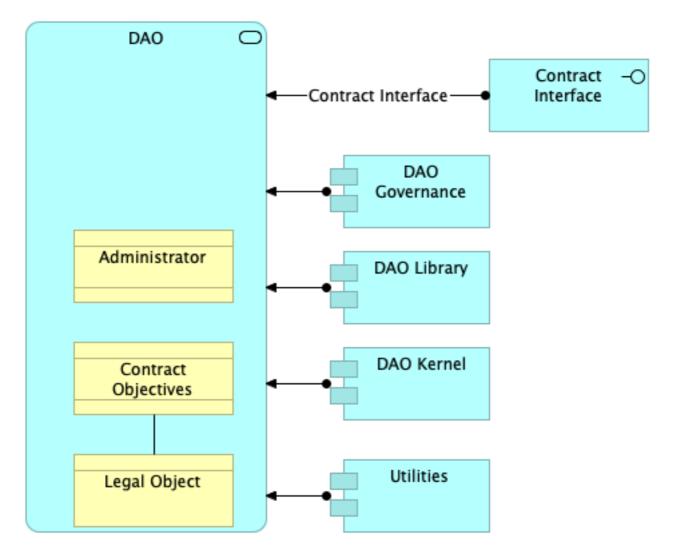
# Generated View for Contract Objectives Product viewpoint



Element	Туре
Contract Objectives	Contract
Legal Object	Business Object

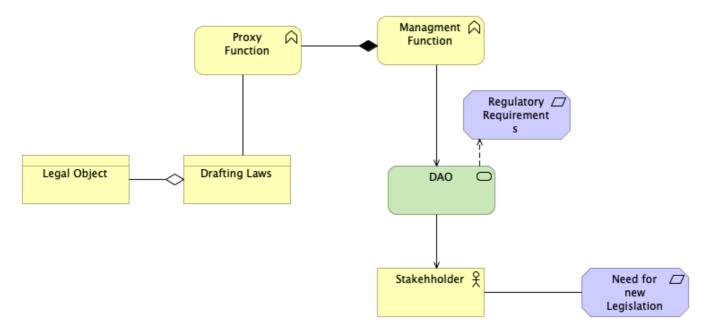
## Generated View for DAO

Implementation and Migration viewpoint



Element	Туре
Administrator	Contract
Contract Interface	Application Interface
Contract Objectives	Contract
DAO	Application Service
DAO Governance	Application Component
DAO Kernel	Application Component
DAO Library	Application Component
Legal Object	Business Object
Utilities	Application Component

## Generated View for Drafting Laws Implementation and Migration viewpoint



Element	Туре
DAO	Technology Service
Drafting Laws	Business Object
Legal Object	Business Object
Managment Function	Business Function
Need for new Legislation	Requirement
Proxy Function	Business Function
Regulatory Requirements	Requirement
Stakehholder	Business Actor

## Generated View for Governance Design Constraints Implementation and Migration viewpoint

Governance / Design Constraints

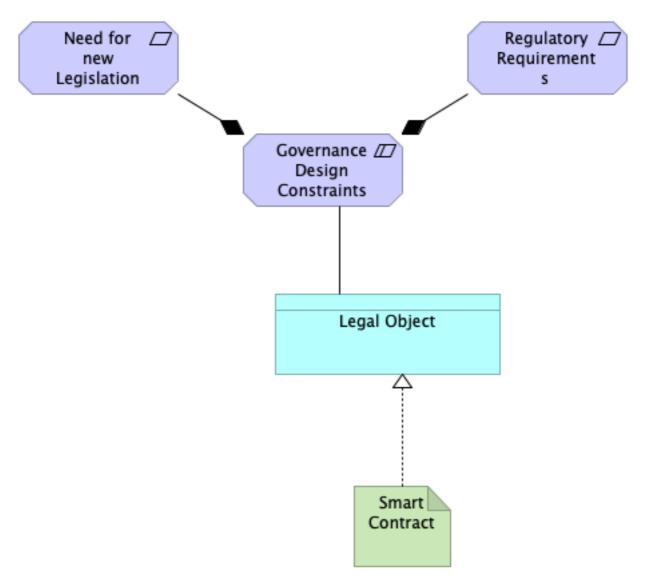
Element	Туре
Governance Design Constraints	Constraint

## Generated View for Governance Stakeholders Stakeholder viewpoint



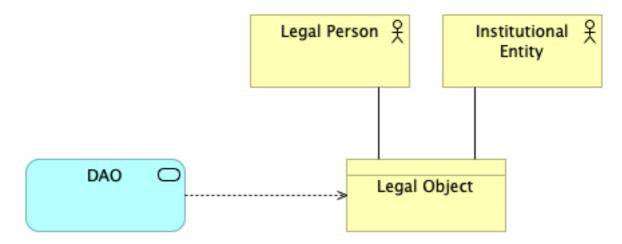
Element	Туре
Governance Stakeholders	Stakeholder
Institutional Entity	Business Actor
Stakehholder	Business Actor

## Generated View for Legal Object Implementation and Migration viewpoint



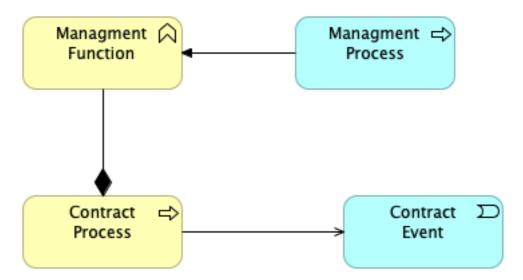
Element	Туре
Governance Design Constraints	Constraint
Legal Object	Data Object
Need for new Legislation	Requirement
Regulatory Requirements	Requirement
Smart Contract	Artifact

# Generated View for Legal Object Application Usage viewpoint



Element	Туре
DAO	Application Service
Institutional Entity	Business Actor
Legal Object	Business Object
Legal Person	Business Actor

## Generated View for Managment Function Application Usage viewpoint



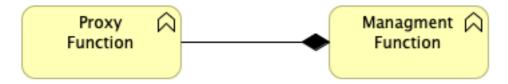
Element	Туре
Contract Event	Application Event
Contract Process	Business Process
Managment Function	Business Function
Managment Process	Application Process

## Generated View for Need for new Legislation Implementation and Migration viewpoint



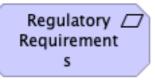
Element	Туре
Need for new Legislation	Requirement

# Generated View for Proxy Function Application Usage viewpoint



Element	Туре
Managment Function	Business Function
Proxy Function	Business Function

## Generated View for Regulatory Requirements Implementation and Migration viewpoint



Element	Туре
Regulatory Requirements	Requirement

## Map View No viewpoint

Default View	
Generated View for Regulatory Requirements	
Generated View for Need for new Legislation	
Generated View for Governance Design Constraints	<u>-</u>
Generated View for Legal Object	0-
Generated View for Drafting Laws	
Generated View for DAO	
Generated View for Governance Stakeholders	
Generated View for Contract Objectives	<u>-</u>
Generated View for Contract Objectives	
Generated View for Contract Objectives	
Generated View for Contract Objectives	
Generated View for Administrator	- -
Generated View for Contract Objectives	
Generated View for Legal Object	
Generated View for Managment Function	
Generated View for Proxy Function	==

## **Business Layer**

#### Administrator

**Type** Contract

Admin Key

### **Contract Objectives**

**Type** Contract

#### **Contract Process**

Type Business Process

#### **Drafting Laws**

Type Business Object

### Governance as a Service

Type Business Service

#### Governance Stakeholders

Type Business Interaction

#### **Institutional Entity**

Type Business Actor

This is the entity that the DAO controls

### Legal Object

Type Business Object

#### Legal Person

Type Business Actor

#### Managment Function

Type Business Function

#### **Protocol**

Туре	Product
protocol	contract
contract	event

A generalized objective, for example to manage assets under the contracts control or to implement some discrete process

## **Proxy Function**

Type Business Function	
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## Stakehholder

Туре	Business Actor	
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## **Application Layer**

#### **Contract Event**

Type Application Event

#### Contract Interface

Type Application Interface

DAO

Type Application Service

**DAO** Governance

Type Application Component

**DAO** Kernel

Type Application Component

This is the core logic implemtation for the smart contract

**DAO Library** 

Type Application Component

Legal Object

**Type** Data Object

**Managment Process** 

Type Application Process

**Utilities** 

Type Application Component

## Technology & Physical Layer

#### DAO

Type Technology Service

**DAO** Interaction

Type Technology Interaction

**Smart Contract** 

**Type** Artifact

## **Motivation**

#### Goal

**Type** Goal

## Governance Design Constraints

Туре	Constraint
legal	schema

#### Governance Stakeholders

**Type** Stakeholder

As of this model, it only represents the direct stake holders. 3rd parties to governance which may have a stake in such governance are not reperesented in this diagram.

### Need for new Legislation

**Type** Requirement

## Regulatory Requirements

**Type** Requirement

## Relations

## Assignment relation

Туре	Assignment relation
Source	Utilities
Target	DAO

## Assignment relation

Туре	Assignment relation
Source	DAO Kernel
Target	DAO

## Assignment relation

Туре	Assignment relation
Source	DAO Library
Target	DAO

## Assignment relation

Туре	Assignment relation
Source	DAO Governance
Target	DAO

## Assignment relation

Туре	Assignment relation
Source	Stakehholder
Target	Governance Stakeholders

## Serving relation

Туре	Serving relation
Source	Contract Interface
Target	DAO

### Realization relation

Туре	Realization relation
Source	Smart Contract
Target	Legal Object

## Realization relation

Туре	Realization relation
Source	Legal Object
Target	Goal

#### Realization relation

Туре	Realization relation
J 1 -	

Source	Legal Object
Target	Governance Design Constraints

## Composition relation

Туре	Composition relation
Source	Governance Design Constraints
Target	Regulatory Requirements

## Composition relation

Туре	Composition relation
Source	Governance Design Constraints
Target	Need for new Legislation

#### Association relation

Туре	Association relation
Source	Governance Design Constraints
Target	Legal Object

### Association relation

Туре	Association relation
Source	Contract Objectives
Target	Legal Object

#### Association relation

Туре	Association relation
Source	Legal Person
Target	Legal Object

## Association relation

Туре	Association relation
Source	Institutional Entity
Target	Legal Object

#### Access relation

Туре	Access relation
Source	DAO
Target	Legal Object

## Realization relation

Туре	Realization relation
Source	Smart Contract
Target	Legal Object

## Access relation

Туре	Access relation
Source	DAO
Target	Administrator

### Access relation

Туре	Access relation
Source	DAO
Target	Contract Objectives

## Triggering relation

Туре	Triggering relation
Source	Managment Process
Target	Managment Function

## Composition relation

Туре	Composition relation
Source	Contract Process
Target	Managment Function

## Serving relation

Туре	Serving relation
Source	Contract Process
Target	Contract Event

## Composition relation

Туре	Composition relation
Source	Managment Function
Target	Proxy Function

## Association relation

Туре	Association relation
Source	Drafting Laws
Target	Proxy Function

## Triggering relation

Туре	Triggering relation
Source	Stakehholder
Target	Managment Function

## Aggregation relation

Туре	Aggregation relation
Source	Drafting Laws
Target	Legal Object

## Serving relation

Туре	Serving relation
Source	DAO
Target	Stakehholder

## Influence relation

Туре	Influence relation
Source	DAO
Target	Regulatory Requirements

### Realization relation

Туре	Realization relation
Source	DAO
Target	Need for new Legislation

## Serving relation

Туре	Serving relation
Source	Managment Function
Target	DAO

## Association relation

Туре	Association relation
Source	Need for new Legislation
Target	Stakehholder

## Contract Interface

Туре	Assignment relation
Source	Contract Interface
Target	DAO

## A Smart Contract Interface