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Model Documentation

Model Detail

This document provides a complete overview of all element details. For simpler and more focused reports, simply copy this initial template and turn off the sections not required.

NOW DCX v1

Type: **Package**
Status: Proposed. Version . Phase 1.0.
Package:
Detail: Created on 1/18/2023. Last modified on 1/18/2023
GUID: {026AF574-80E2-43fd-BD67-CFED4DA94273}

Domain model

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NOW DCX v1
Detail: Created on 4/14/2017. Last modified on 4/14/2017
GUID: {39304A2A-D103-42d1-BB31-35A4E4F4BB4C}

A diagram summarizing the key business domain concepts.

Domain model - (Logical diagram)

Created By: Bob Hruska on 8/16/2017
Last Modified: 1/17/2023
Version: 1.0. **Locked:** False
GUID: {E413D5E4-26F6-4ec7-AD19-0376B4872A12}

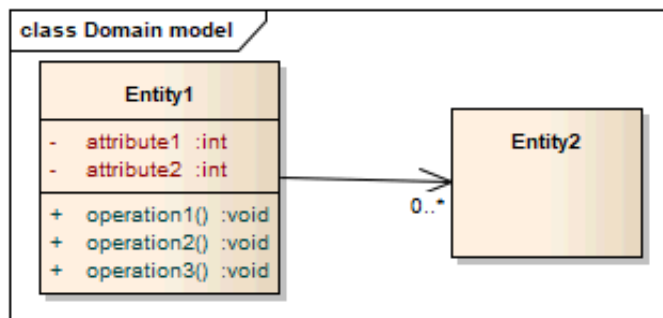


Figure: 1

Entity1

Type: **Class**

Status: Proposed. Version 1.0. Phase 1.0.
Package: Domain model *Keywords:*
Detail: Created on 1/17/2023. Last modified on 1/17/2023.
GUID: {5552CC34-4D66-4fc7-A56A-80BD20345AE4}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Association Source -> Destination	Public Entity1	Public Entity2	

Attributes

Attribute	Notes	Constraints and tags
attribute1 int Private		<i>Default:</i>
attribute2 int Private		<i>Default:</i>

Operations

Method	Notes	Parameters
operation1() void Public		
operation2() void Public		
operation3() void Public		

Entity2

Type: Class

Status: Proposed. Version 1.0. Phase 1.0.
Package: Domain model *Keywords:*
Detail: Created on 1/17/2023. Last modified on 1/17/2023.
GUID: {5AFFE082-6889-47c5-8136-60360884E7D4}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Association Source -> Destination	Public Entity1	Public Entity2	

Requirements Model

Type: **Package**
Status: Proposed. Version . Phase 1.0.
Package: NOW DCX v1
Detail: Created on 5/6/2017. Last modified on 5/16/2017
GUID: {8CD23EB2-D034-4989-8838-7777D59B48A9}

Requirements Model - (Custom diagram)

Created By: Bob Hruska on 5/6/2017
Last Modified: 1/18/2023
Version: 1.0. *Locked:* False
GUID: {7E8209F2-C9CB-459a-9806-3538FEC25D82}

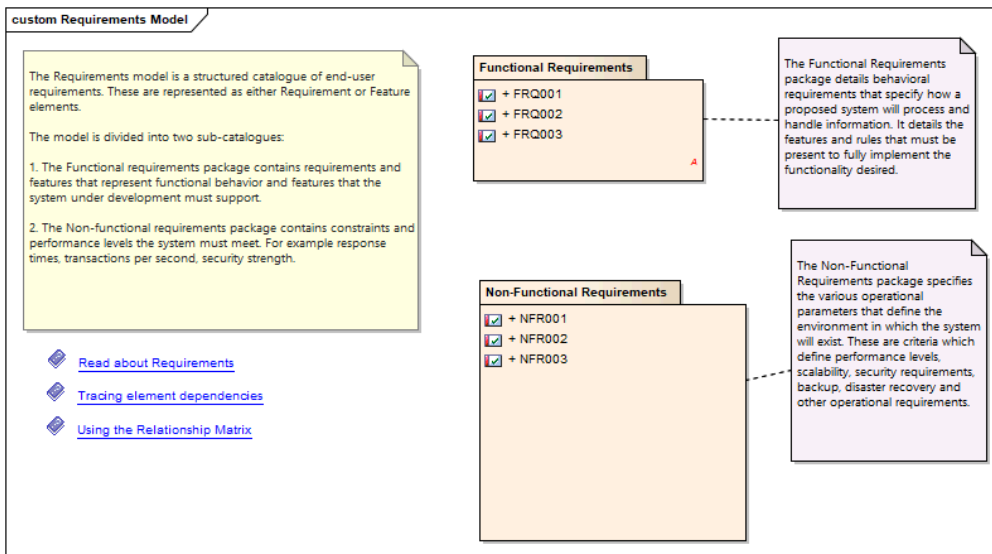


Figure: 2

Functional Requirements

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Requirements Model
Detail: Created on 5/6/2017. Last modified on 5/15/2017
GUID: {0B080C04-2C13-42f4-B07F-C07F20F9FCF4}

Functional Requirements - (Requirements diagram)

Created By: Bob Hruska on 5/15/2017
Last Modified: 1/18/2023
Version: 1.0. **Locked:** False
GUID: {07E20E5F-8032-4696-A7DD-E5D2A219BB3F}

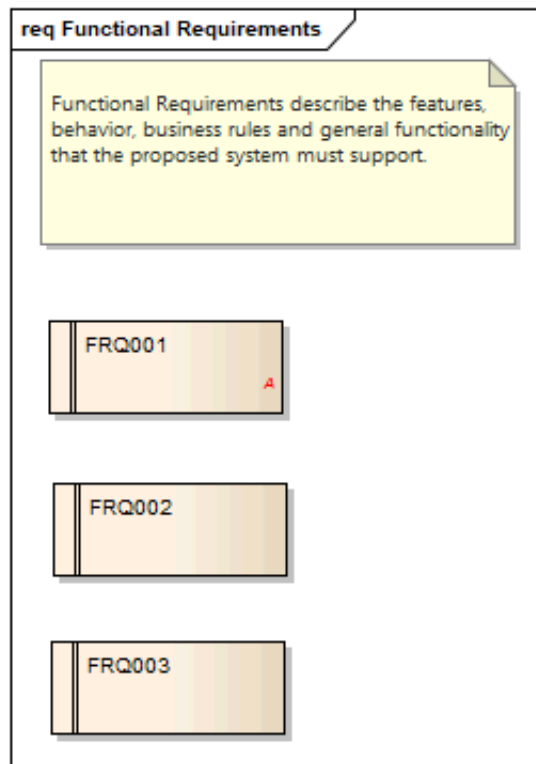


Figure: 3

FRQ001

Type: Requirement
Status: Proposed. Version 1.0. Phase 1.0.
Package: Functional Requirements **Keywords:**
Detail: Created on 1/18/2023. Last modified on 1/18/2023.
GUID: {9C332FEF-3CAA-4261-A49A-E43A76A9B4BE}

Connections

Connector	Source	Target	Notes
Realization Source -> Destination	Public Impact Instance	Public FRQ001	

FRQ002

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Functional Requirements **Keywords:**
Detail: Created on 1/18/2023. Last modified on 1/18/2023.
GUID: {68CF8587-F526-433c-826D-5923B01802A1}

Connections

Connector	Source	Target	Notes
Realization Source -> Destination	Public Impact Instance	Public FRQ002	

FRQ003

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Functional Requirements **Keywords:**
Detail: Created on 1/18/2023. Last modified on 1/18/2023.
GUID: {0E94F334-B3AC-4d50-B424-BAD57D403860}

Connections

Connector	Source	Target	Notes
Realization Source -> Destination	Public Impact Instance	Public FRQ003	

Non-Functional Requirements

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Requirements Model
Detail: Created on 5/6/2017. Last modified on 5/6/2017
GUID: {5A87DD0A-5177-416c-AC21-908E503C4865}

Non-Functional Requirements - (Requirements diagram)

Created By: Bob Hruska on 5/15/2017
Last Modified: 1/18/2023
Version: 1.0. **Locked:** False
GUID: {AD5FC08E-2A50-4d94-B611-0B55C7F614A1}

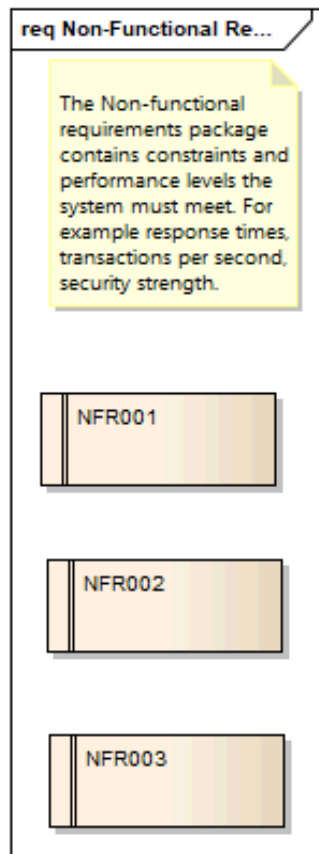


Figure: 4

NFR001

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Non-Functional Requirements **Keywords:**
Detail: Created on 1/18/2023. Last modified on 1/18/2023.
GUID: {E4F53714-9068-4c93-BDAD-A9A2300F1D69}

NFR002

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Non-Functional Requirements **Keywords:**

Detail: Created on 1/18/2023. Last modified on 1/18/2023.
GUID: {966153CA-16BB-4d27-B22D-70CA71AA88E1}

NFR003

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Non-Functional Requirements *Keywords:*
Detail: Created on 1/18/2023. Last modified on 1/18/2023.
GUID: {37783F46-030E-419d-8BEC-E733DCD44CF0}

Actors

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NOW DCX v1
Detail: Created on 4/30/2017. Last modified on 4/30/2017
GUID: {752EEE07-14D7-4c7e-8511-E3689CF8CA08}

Person1

Type: **Person**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Actors *Keywords:*
Detail: Created on 8/16/2017. Last modified on 8/16/2017.
GUID: {4A222F53-66CA-475d-BF92-20E31EE43F29}

Custom Properties

- _makeComposite = false
- isActive = False

Connections

Connector	Source	Target	Notes
Synchronous Source -> Destination	Public Person1	Public Impact	
Synchronous Source -> Destination	Public Person1	Public Impact Instance	

Connector	Source	Target	Notes

Person2

Type: **Person**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Actors **Keywords:**
Detail: Created on 1/17/2023. Last modified on 1/17/2023.
GUID: {DEFEB465-8C5A-4afc-B0ED-9BAB545B7C49}

Custom Properties

- _makeComposite = false
- isActive = False

Connections

Connector	Source	Target	Notes
Synchronous Source -> Destination	Public Person2	Public Impact	
Synchronous Source -> Destination	Public Person2	Public Impact Instance	

Person3

Type: **Person**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Actors **Keywords:**
Detail: Created on 1/18/2023. Last modified on 1/18/2023.
GUID: {7615EC34-E9BE-4dbb-AC55-4334E862C9ED}

Custom Properties

- _makeComposite = false
- isActive = False

Connections

Connector	Source	Target	Notes
Asynchronous Source -> Destination	Public Person3	Public Impact	

Connector	Source	Target	Notes
Asynchronous Source -> Destination	Public Person3	Public Impact Instance	

Use Case Model

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NOW DCX v1
Detail: Created on 4/14/2017. Last modified on 4/28/2017
GUID: {242D23DD-9005-4cb5-B5B0-07A6A7A27CEC}

Use Case Context - (C4 Use Case diagram)

Created By: Bob Hruska on 5/15/2017
Last Modified: 1/17/2023
Version: 1.0. *Locked:* False
GUID: {27669EE7-9678-434a-ACF6-583758D4D0B5}

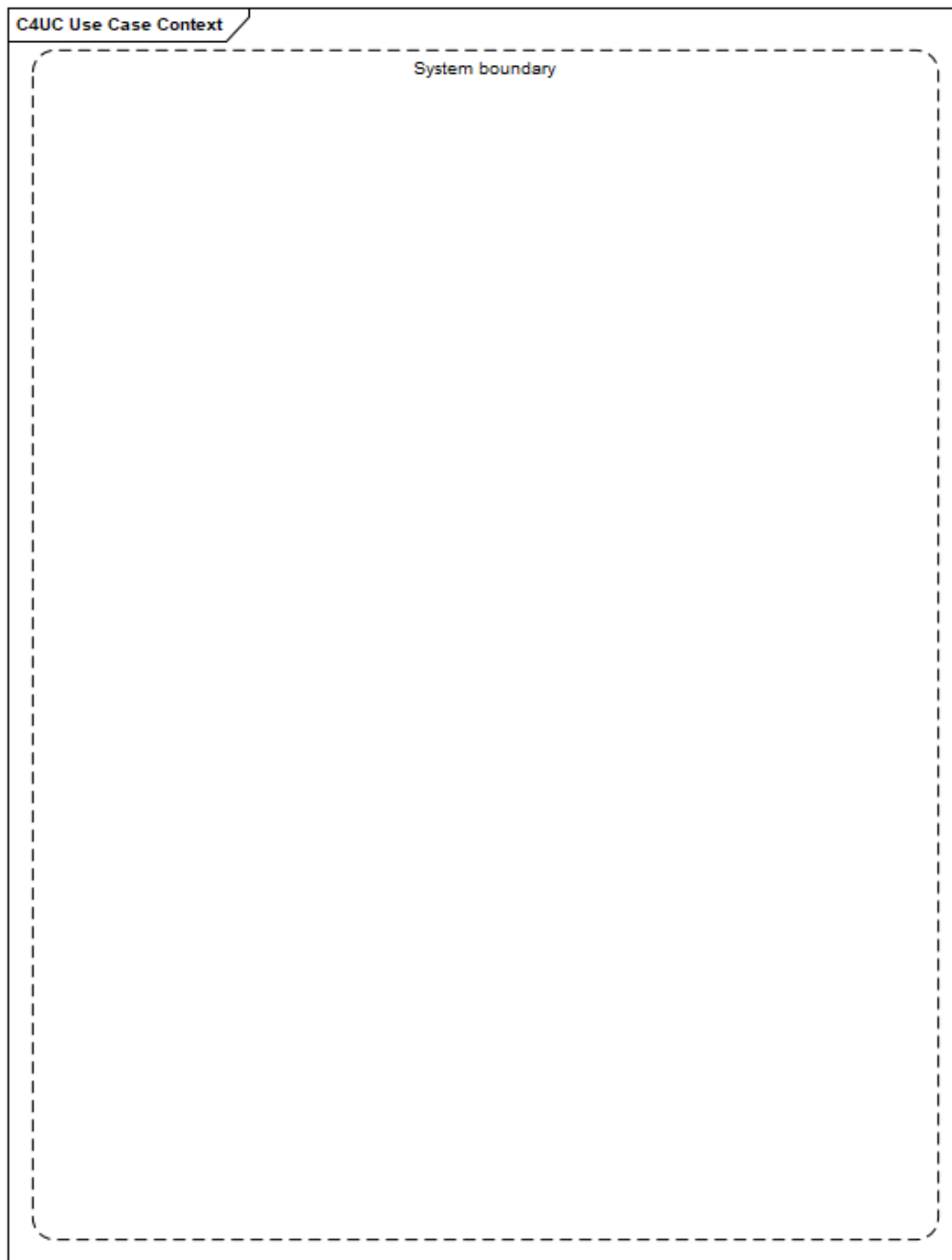


Figure: 5

Context

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NOW DCX v1
Detail: Created on 4/14/2017. Last modified on 4/14/2017
GUID: {2DE9ADA3-235F-4ad4-B0EB-2F9FEC1AE6EB}

A high-level diagram that sets the scene; including key system dependencies and people (actors/ roles/ personas/ etc).

Context - (C4 Context diagram)

Created By: Bob Hruska on 5/6/2017
Last Modified: 1/18/2023
Version: 1.0. **Locked:** False
GUID: {72E471AE-B9DE-4189-99DC-2B9A0813D112}

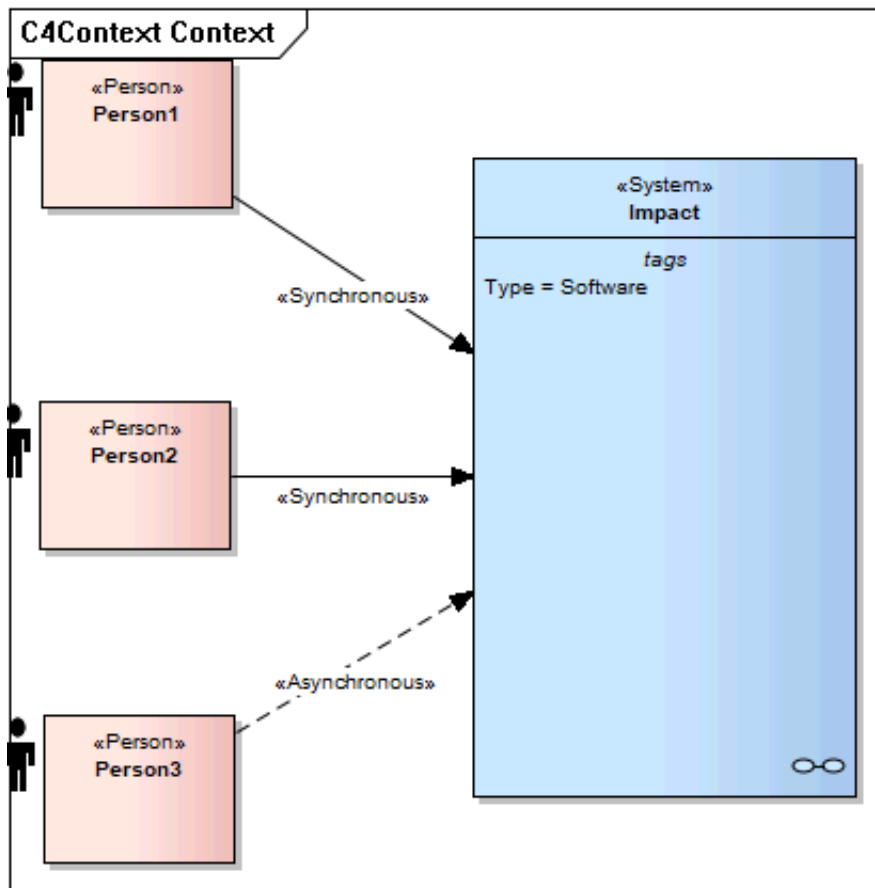


Figure: 6

Impact

Type: **System**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Context **Keywords:**
Detail: Created on 8/16/2017. Last modified on 1/18/2023.
GUID: {61688D8D-4075-4335-B85F-24A96A89DA16}

Custom Properties

- _makeComposite = true
- _defaultDiagramType = C4 Structural Diagrams::Container
- _subtypeProperty = C4 Elements::System under design::Type
- isActive = False

Tagged Values

- Type = Software.
Values: Software,Other

Connections

Connector	Source	Target	Notes
Synchronous Source -> Destination	Public Person1	Public Impact	
Synchronous Source -> Destination	Public Person2	Public Impact	
Asynchronous Source -> Destination	Public Person3	Public Impact	

C4 Container diagram: System under design1

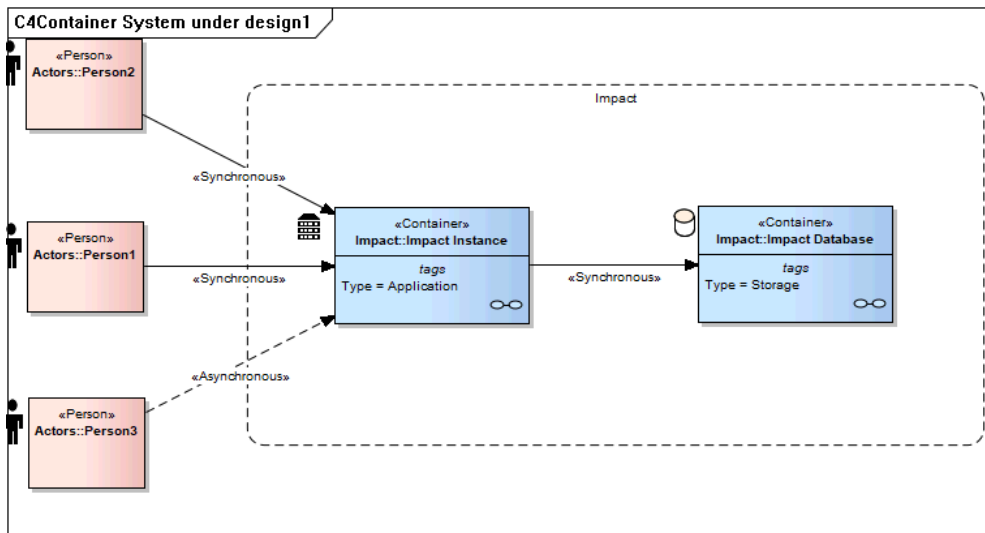


Figure: 7

Impact Database

Type: Container
Status: Proposed. Version 1.0. Phase 1.0.
Package: Context *Keywords:*
Detail: Created on 8/16/2017. Last modified on 1/18/2023.
GUID: {927ED602-16EE-412e-931B-F0EB54C1698E}

Custom Properties

- _makeComposite = true
- _defaultDiagramType = C4 Structural Diagrams::Component
- _subtypeProperty = C4 Elements::Container::Type
- isActive = False

Tagged Values

- Type = Storage.
Values: Application,Storage,Service

Connections

Connector	Source	Target	Notes
Synchronous Source -> Destination	Public Impact Instance	Public Impact Database	

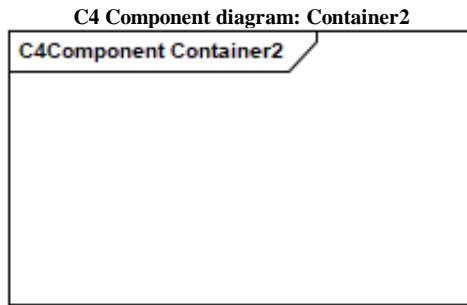


Figure: 8

Impact Instance

Type: **Container**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Context **Keywords:**
Detail: Created on 8/16/2017. Last modified on 1/18/2023.
GUID: {0BD554B5-D4A4-446b-BE53-1A13C8B69EAE}

Responsibilities (external requirements)

- FRQ001 (*Proposed, Medium difficulty*)
- FRQ002 (*Proposed, Medium difficulty*)
- FRQ003 (*Proposed, Medium difficulty*)

Custom Properties

- _makeComposite = true
- _defaultDiagramType = C4 Structural Diagrams::Component
- _subtypeProperty = C4 Elements::Container::Type
- isActive = False

Tagged Values

- Type = Application.
Values: Application,Storage,Service

Connections

Connector	Source	Target	Notes
Synchronous Source -> Destination	Public Impact Instance	Public Impact Database	
Synchronous Source -> Destination	Public Person2	Public Impact Instance	
Synchronous Source -> Destination	Public Person 1	Public Impact Instance	
Asynchronous Source -> Destination	Public Person3	Public Impact Instance	
Realization Source -> Destination	Public Impact Instance	Public FRQ001	
Realization Source -> Destination	Public Impact Instance	Public FRQ002	
Realization Source -> Destination	Public Impact Instance	Public FRQ003	

C4 Component diagram: Container1

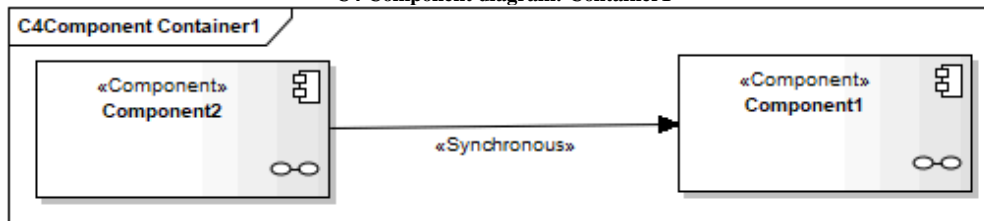


Figure: 9

Component1

Type: **Component**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Context **Keywords:**
Detail: Created on 8/16/2017. Last modified on 8/16/2017.
GUID: {592039FB-A8C3-45e3-8EC8-C566C7F3F208}

Custom Properties

- _makeComposite = true
- _defaultDiagramType = C4 Structural Diagrams::Class
- isIndirectlyInstantiated = True

Connections

Connector	Source	Target	Notes
Synchronous Source -> Destination	Public Component2	Public Component1	

C4 Class diagram: Component1

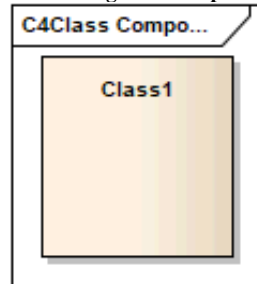


Figure: 10

Class1

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Context **Keywords:**
Detail: Created on 8/16/2017. Last modified on 8/16/2017.
GUID: {DCF76B62-4531-433c-95A4-E5784B78C7BB}

Custom Properties

- isActive = False

Component2

Type: **Component**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Context **Keywords:**
Detail: Created on 8/16/2017. Last modified on 8/16/2017.
GUID: {C3EB5B5D-4A09-4cbe-A68B-6E422991A891}

Custom Properties

- _makeComposite = true
- _defaultDiagramType = C4 Structural Diagrams::Class
- isIndirectlyInstantiated = True

Connections

Connector	Source	Target	Notes
Synchronous Source -> Destination	Public Component2	Public Component1	

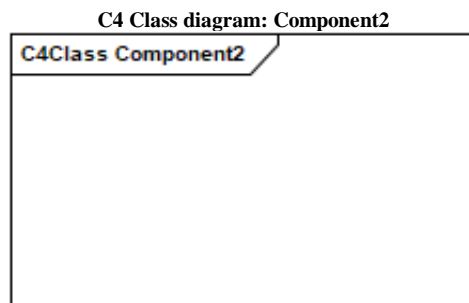


Figure: 11

Containers

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NOW DCX v1
Detail: Created on 4/14/2017. Last modified on 5/15/2017
GUID: {C9B5A5BD-24EB-4ba1-9DF4-BFDD4628500F}

A container diagram shows the high-level technology choices, how responsibilities are distributed across them and how the containers communicate.

Scenarios

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Containers
Detail: Created on 5/15/2017. Last modified on 5/15/2017
GUID: {A9E8C2F5-A825-49ea-9A1B-408491844414}

Scenarios - (Interaction diagram)

Created By: Bob Hruska on 5/16/2017
Last Modified: 5/16/2017
Version: 1.0. *Locked:* False
GUID: {059A866B-A0EB-4433-ACF9-D94F211CDB02}

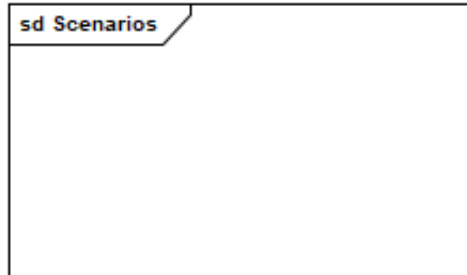


Figure: 12

Components

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NOW DCX v1
Detail: Created on 4/14/2017. Last modified on 5/15/2017
GUID: {40ABA49F-8E65-4c86-B2A0-EE923803E348}

For each container, a component diagram lets you see the key logical components and their relationships.

Scenarios

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Components
Detail: Created on 8/16/2017. Last modified on 5/15/2017
GUID: {A3930FA5-C071-42cd-B33D-174A6909DA07}

Scenarios - (Interaction diagram)

Created By: Bob Hruska on 8/16/2017
Last Modified: 8/16/2017
Version: 1.0. *Locked:* False
GUID: {83374AA0-D506-4fa9-A2D1-29EDBA985CD5}

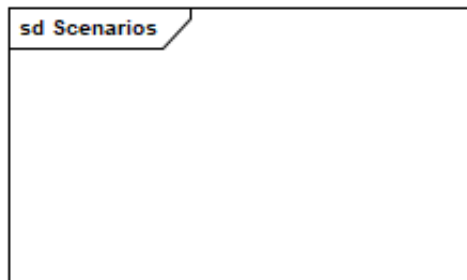


Figure: 13

Classes

Type:

Package

Status: Proposed. Version 1.0. Phase 1.0.

Package: NOW DCX v1

Detail: Created on 4/14/2017. Last modified on 4/14/2017

GUID: {2BB8B5E5-A92C-4ce1-A9CF-0C324CC93EAE}

This is an optional level of detail and I will draw a small number of high-level UML class diagrams if I want to explain how a particular pattern or component will be (or has been) implemented. The factors that prompt me to draw class diagrams for parts of the software system include the complexity of the software plus the size and experience of the team. Any UML diagrams that I do draw tend to be sketches rather than comprehensive models.