

# National Underground Asset Register (NUAR) NUAR Data Model Publication

## **NUAR Harmonised Data Model - Diagrams**

#### **Publication History**

Date	Version	Description
12/08/2024	0.1	First publication of the NUAR Data Model

#### **Purpose of this document**

This document includes diagrams for the logical NUAR Harmonised Data Model.

## **Table of Contents**

1.1 NUAR Harmonised Data Model - Logical diagram	3
1.1.1.1 NUAR Harmonised Data Model - Logical - NUARCodelists-Platform diagram	4
1.1.1.2 NUAR Harmonised Data Model - Logical - NUARCodelists-Transformation diagram	5
1.1.1.2.1 Codelist Register - Protected Sites diagram	6
1.1.1.2.2 Codelist Register - Sewer Network diagram	7
1.1.2 NHDM-NUARCustomBackdrop diagram	8
1.1.3 NUAR Harmonised Data Model - Logical - NUARData diagram	9
1.1.3.1 Core Relationships diagram	10
1.1.3.2 Drainage diagram	11
1.1.3.3 Electricity Network diagram	12
1.1.3.4 Fuel and Chemicals Network diagram	13
1.1.3.5 Gas Network diagram	14
1.1.3.5.1 Planning Areas diagram	15
1.1.3.5.1.1 Historical Land Use diagram	16
1.1.3.5.1.2 Protected Sites diagram	17
1.1.3.5.1.3 Restricted Sites diagram	18
1.1.3.6 Sewer Network diagram	19
1.1.3.7 Telecommunications Network diagram	20
1.1.3.8 Thermal Network diagram	21
1.1.3.9 Transport diagram	
1.1.3.10 Water Network diagram	
1.1.4 NUAR Harmonised Data Model - Logical - NUAROrganisations diagram	
1.1.4.1 NUAR Harmonised Data Model - Logical - Rules diagram	
1.1.5 NUAR Harmonised Data Model - Logical - NUARSubmissions diagram	
1.1.6 NUAR Harmonised Data Model - Logical - NUARUserCreatedData diagram	
1.1.7 NUAR Harmonised Data Model - Logical - NUARVersion diagram	28

NHDM-Logical - Diagrams Page: 3 of 28

### 1.1 NUAR Harmonised Data Model - Logical diagram

GML diagram in package 'NHDM-Logical'

NUAR Harmonised Data Model - Logical Version 2.1.2 Created on 06/10/2023. Last modified 02/08/2024

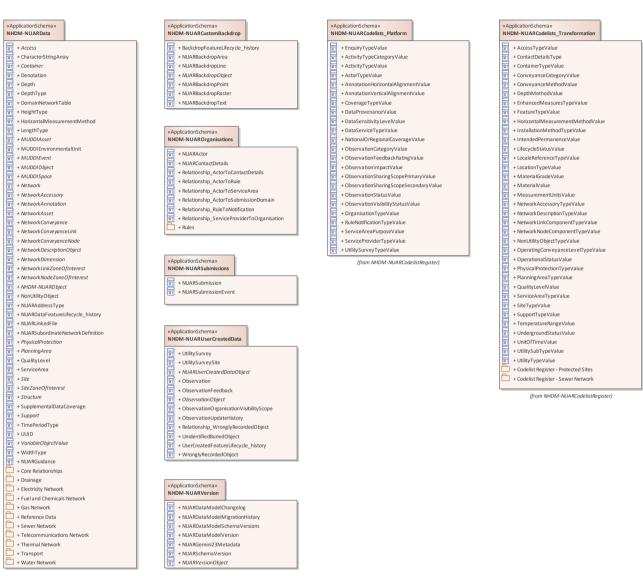


Figure 1: NUAR Harmonised Data Model - Logical

NHDM-Logical - Diagrams Page: 4 of 28

## 1.1.1.1 NUAR Harmonised Data Model - Logical - NUARCodelists-Platform diagram

GML diagram in package 'NHDM-NUARCodelists\_Platform'

NUAR Harmonised Data Model - Logical - NUARCodelists-Platform Version 2.1.2 Created on 24/11/2023. Last modified 06/08/2024

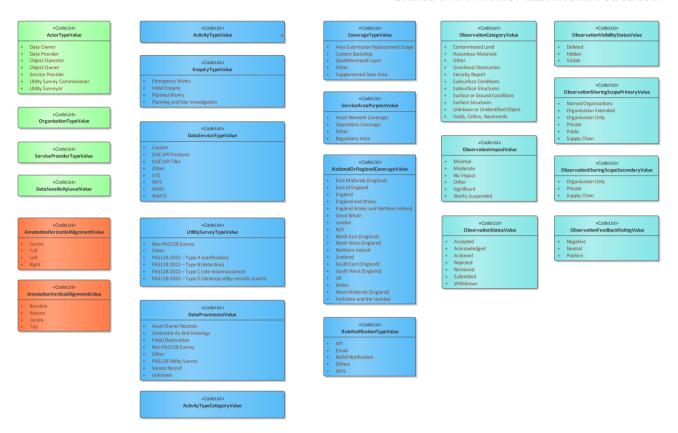


Figure 2: NUAR Harmonised Data Model - Logical - NUARCodelists-Platform

NHDM-Logical - Diagrams Page: 5 of 28

### 1.1.1.2 NUAR Harmonised Data Model - Logical - NUARCodelists-Transformation diagram

GML diagram in package 'NHDM-NUARCodelists\_Transformation'

NUAR Harmonised Data Model - Logical - NUARCodelists-Transformation Version~2.1.1 Created on 09/06/2023. Last modified 28/07/2024

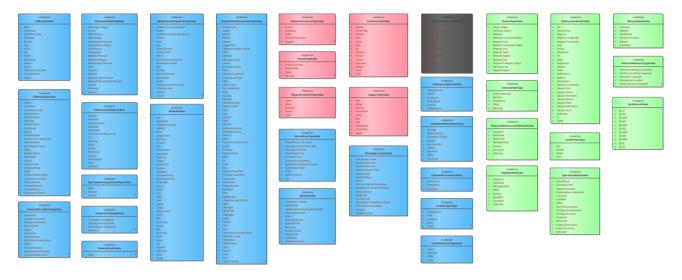


Figure 3: NUAR Harmonised Data Model - Logical - NUARCodelists-Transformation

NHDM-Logical - Diagrams Page: 6 of 28

#### 1.1.1.2.1 Codelist Register - Protected Sites diagram

GML diagram in package 'Codelist Register - Protected Sites'

 $\begin{tabular}{ll} Codelist Register - Protected Sites \\ Version 2.1.1 \\ Created on 21/08/2021. Last modified 06/02/2024 \\ \end{tabular}$ 

Conservation Area

 Mossland
 Protecting And Enhancing Biodiversity And Habitats
 Wildlife Enhancement Corridors

Figure 4: Codelist Register - Protected Sites

NHDM-Logical - Diagrams Page: 7 of 28

#### 1.1.1.2.2 Codelist Register - Sewer Network diagram

GML diagram in package 'Codelist Register - Sewer Network'

 $\begin{tabular}{ll} Codelist Register - Sewer Network & Version 2.1.1 \\ Created on 21/08/2021. Last modified 06/02/2024 \\ \end{tabular}$ 

## «CodeList» SewerDepthTypeValue

- + Downstream Invert Depth
- + Unknown
- + Upstream Invert Depth

Figure 5: Codelist Register - Sewer Network

NHDM-Logical - Diagrams Page: 8 of 28

#### 1.1.2 NHDM-NUARCustomBackdrop diagram

Class diagram in package 'NHDM-NUARCustomBackdrop'

NHDM-NUARCustomBackdrop Version 2.1.2 Created on 11/07/2022. Last modified 28/07/2024

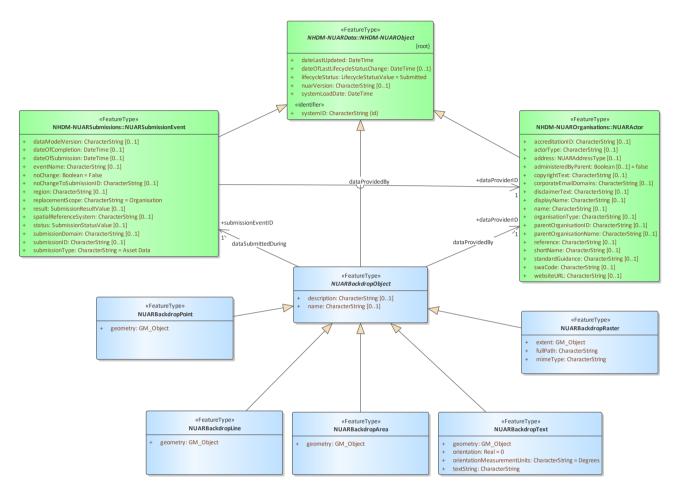


Figure 6: NHDM-NUARCustomBackdrop

NHDM-Logical - Diagrams Page: 9 of 28

## 1.1.3 NUAR Harmonised Data Model - Logical - NUARData diagram

GML diagram in package 'NHDM-NUARData'

NUAR Harmonised Data Model - Logical - NUARData Version 2.1.2 Created on 17/08/2021. Last modified 28/07/2024

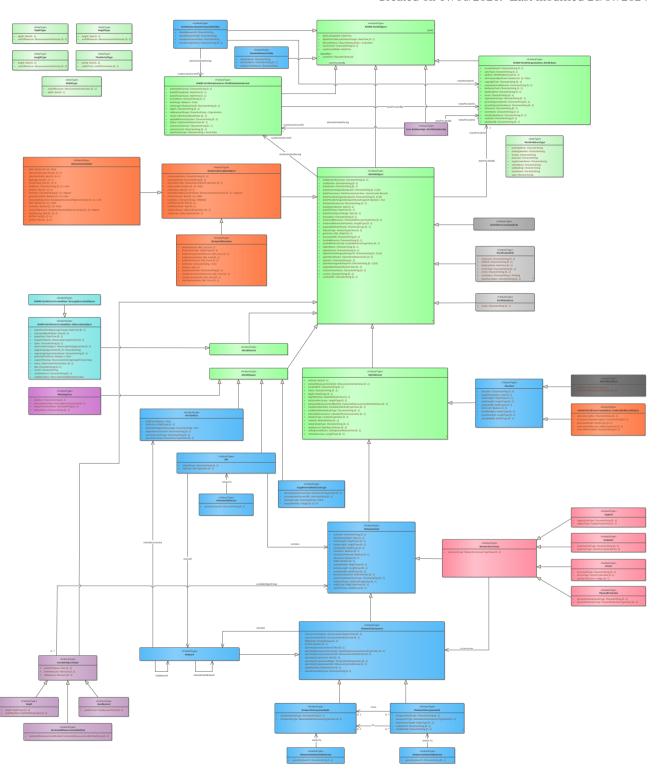


Figure 7: NUAR Harmonised Data Model - Logical - NUARData

NHDM-Logical - Diagrams Page: 10 of 28

### 1.1.3.1 Core Relationships diagram

Class diagram in package 'Core Relationships'

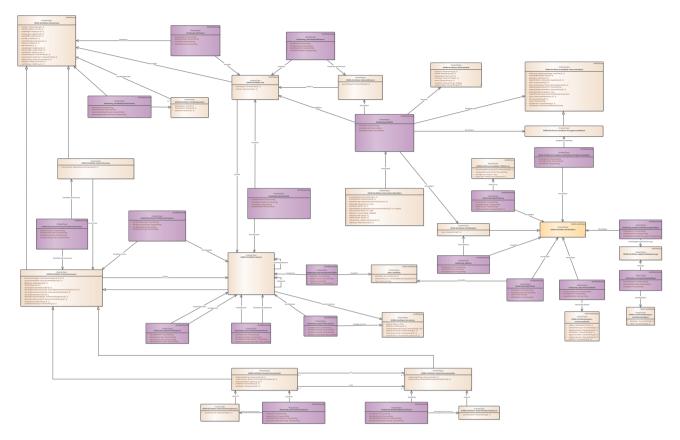


Figure 8: Core Relationships

NHDM-Logical - Diagrams Page: 11 of 28

#### 1.1.3.2 Drainage diagram

Class diagram in package 'Drainage'

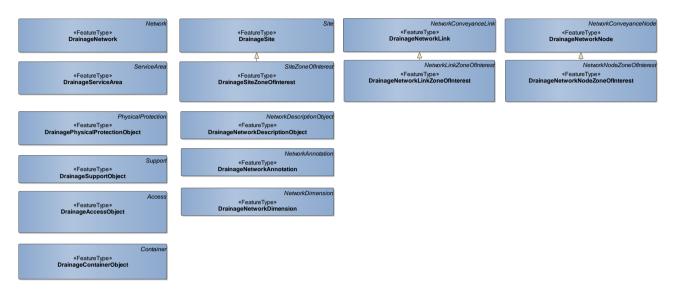


Figure 9: Drainage

NHDM-Logical - Diagrams Page: 12 of 28

#### 1.1.3.3 Electricity Network diagram

Class diagram in package 'Electricity Network'

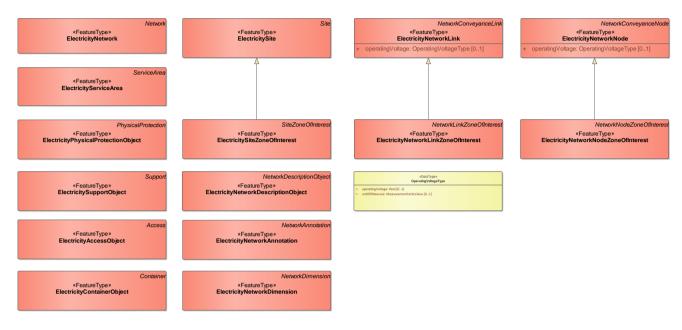


Figure 10: Electricity Network

NHDM-Logical - Diagrams Page: 13 of 28

#### 1.1.3.4 Fuel and Chemicals Network diagram

Class diagram in package 'Fuel and Chemicals Network'

Fuel and Chemicals Network
Version 2.1.1
Created on 06/08/2019. Last modified 27/07/2024

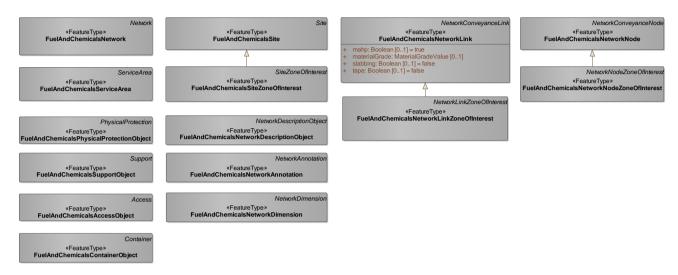


Figure 11: Fuel and Chemicals Network

NHDM-Logical - Diagrams Page: 14 of 28

#### 1.1.3.5 Gas Network diagram

Class diagram in package 'Gas Network'

 $Gas\ Network \\ Version\ 2.1.1 \\ Created\ on\ 06/08/2019.\ Last\ modified\ 27/07/2024$ 

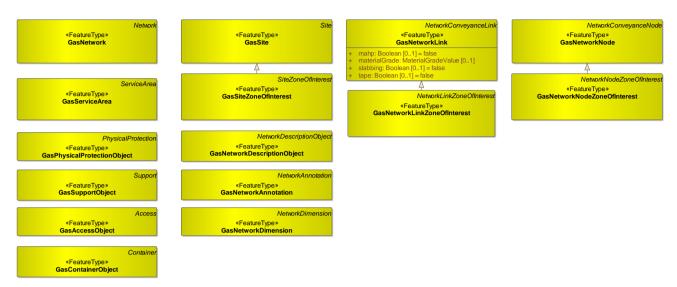


Figure 12: Gas Network

NHDM-Logical - Diagrams Page: 15 of 28

#### 1.1.3.5.1 Planning Areas diagram

GML diagram in package 'Planning Areas'

Planning Areas
Version 2.1.1
Created on 30/03/2022. Last modified 27/07/2024





Figure 13: Planning Areas

NHDM-Logical - Diagrams Page: 16 of 28

#### 1.1.3.5.1.1 Historical Land Use diagram

Class diagram in package 'Historical Land Use'



Figure 14: Historical Land Use

NHDM-Logical - Diagrams Page: 17 of 28

#### 1.1.3.5.1.2 Protected Sites diagram

Class diagram in package 'Protected Sites'



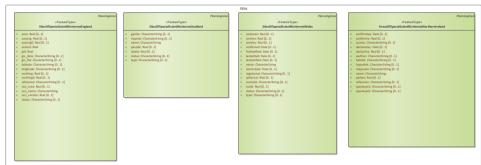


Figure 15: Protected Sites

NHDM-Logical - Diagrams Page: 18 of 28

#### 1.1.3.5.1.3 Restricted Sites diagram

GML diagram in package 'Restricted Sites'



Figure 16: Restricted Sites

NHDM-Logical - Diagrams Page: 19 of 28

#### 1.1.3.6 Sewer Network diagram

GML diagram in package 'Sewer Network'

 $\begin{tabular}{ll} Sewer Network & Version 2.1.1 \\ Created on 06/08/2019. Last modified 27/07/2024 \\ \end{tabular}$ 

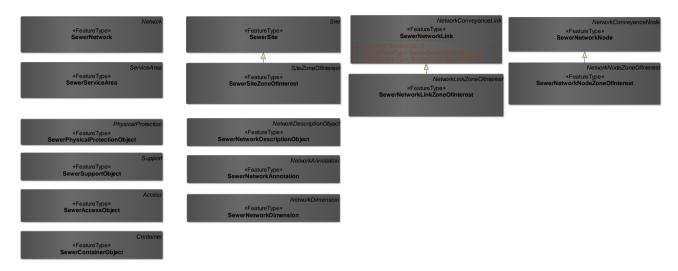


Figure 17: Sewer Network

NHDM-Logical - Diagrams Page: 20 of 28

#### 1.1.3.7 Telecommunications Network diagram

GML diagram in package 'Telecommunications Network'

Telecommunications Network
Version 2.1.1
Created on 06/08/2019. Last modified 28/07/2024

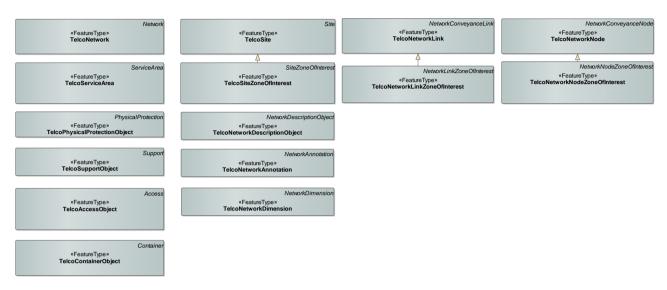


Figure 18: Telecommunications Network

NHDM-Logical - Diagrams Page: 21 of 28

#### 1.1.3.8 Thermal Network diagram

Class diagram in package 'Thermal Network'

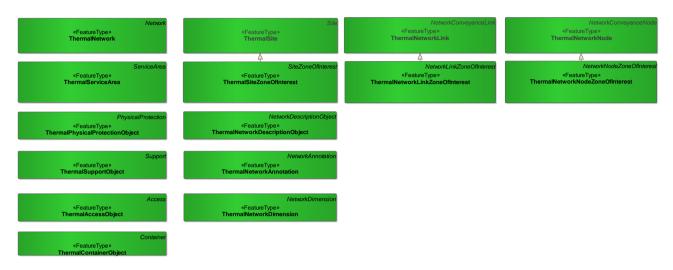


Figure 19: Thermal Network

NHDM-Logical - Diagrams Page: 22 of 28

#### 1.1.3.9 Transport diagram

Class diagram in package 'Transport'

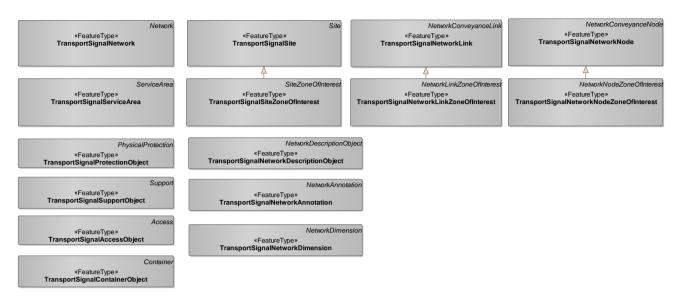


Figure 20: Transport

NHDM-Logical - Diagrams Page: 23 of 28

#### 1.1.3.10 Water Network diagram

Class diagram in package 'Water Network'

 $Water\ Network \\ Version\ 2.1.1$  Created on 06/08/2019. Last modified 27/07/2024

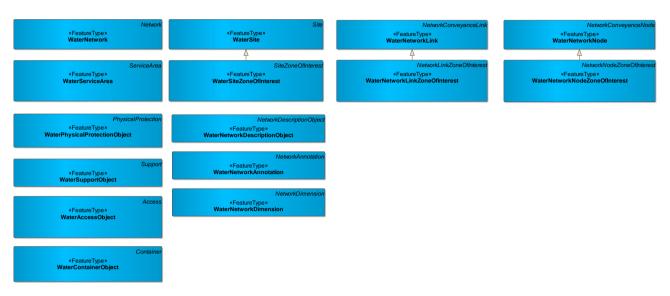


Figure 21: Water Network

NHDM-Logical - Diagrams Page: 24 of 28

# 1.1.4 NUAR Harmonised Data Model - Logical - NUAROrganisations diagram

GML diagram in package 'NHDM-NUAROrganisations'

NUAR Harmonised Data Model - Logical - NUAROrganisations Version 2.1.2 Created on 30/01/2023. Last modified 29/07/2024

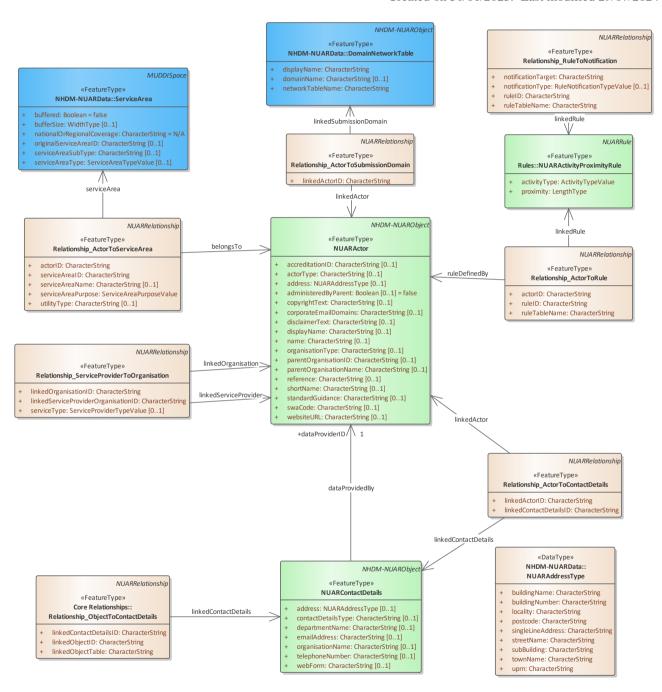


Figure 22: NUAR Harmonised Data Model - Logical - NUAROrganisations

NHDM-Logical - Diagrams Page: 25 of 28

#### 1.1.4.1 NUAR Harmonised Data Model - Logical - Rules diagram

GML diagram in package 'Rules'

NUAR Harmonised Data Model - Logical - Rules Version 2.1.2 Created on 18/08/2021. Last modified 28/07/2024

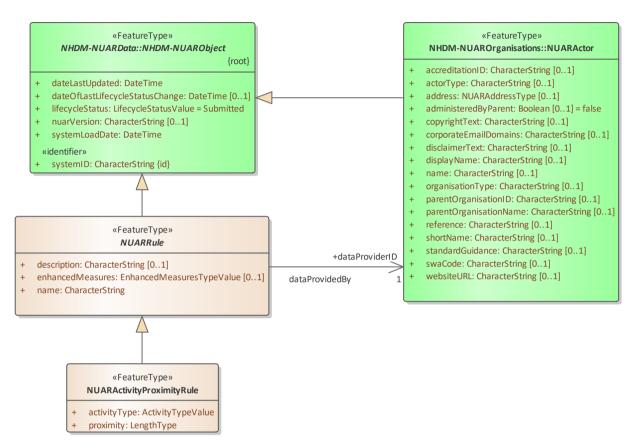


Figure 23: NUAR Harmonised Data Model - Logical - Rules

NHDM-Logical - Diagrams Page: 26 of 28

## 1.1.5 NUAR Harmonised Data Model - Logical - NUARSubmissions diagram

GML diagram in package 'NHDM-NUARSubmissions'

NUAR Harmonised Data Model - Logical - NUARSubmissions Version 2.1.2 Created on 26/01/2023. Last modified 28/07/2024

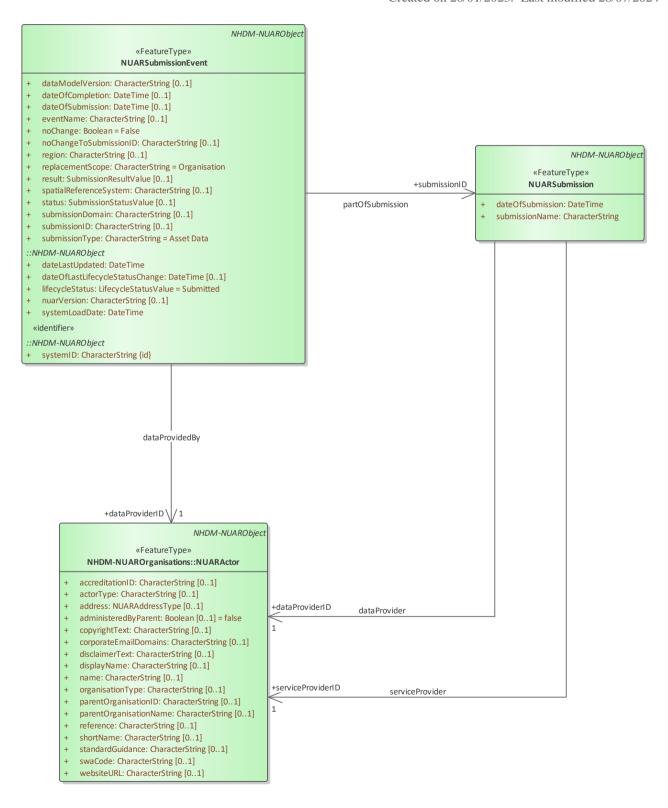


Figure 24: NUAR Harmonised Data Model - Logical - NUARSubmissions

NHDM-Logical - Diagrams Page: 27 of 28

## 1.1.6 NUAR Harmonised Data Model - Logical - NUARUserCreatedData diagram

GML diagram in package 'NHDM-NUARUserCreatedData'

NUAR Harmonised Data Model - Logical - NUARUserCreatedData Version 2.1.2 Created on 31/01/2023. Last modified 28/07/2024

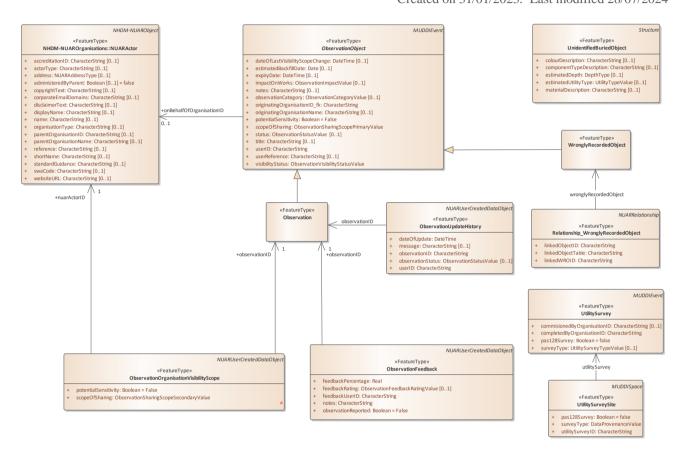


Figure 25: NUAR Harmonised Data Model - Logical - NUARUserCreatedData

NHDM-Logical - Diagrams Page: 28 of 28

### 1.1.7 NUAR Harmonised Data Model - Logical - NUARVersion diagram

GML diagram in package 'NHDM-NUARVersion'

NUAR Harmonised Data Model - Logical - NUARVersion Version 2.1.2 Created on 11/03/2022. Last modified 28/07/2024

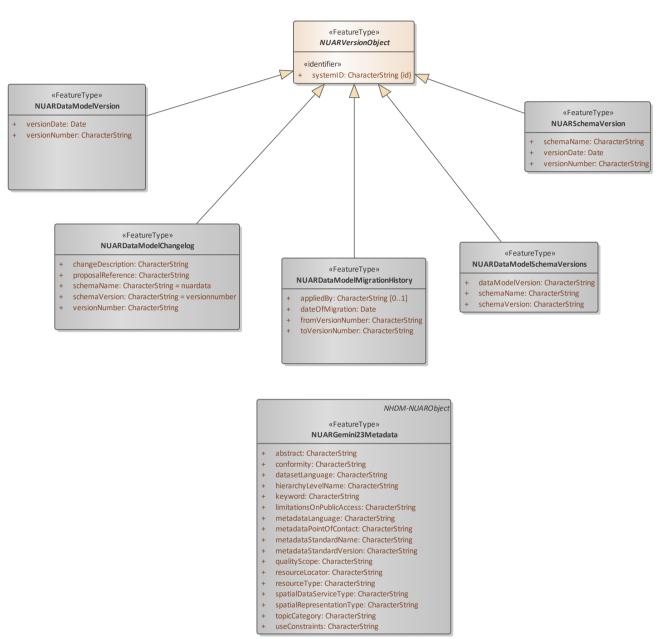


Figure 26: NUAR Harmonised Data Model - Logical - NUARVersion