

DATEX II v3.0

Structural changes in the data model

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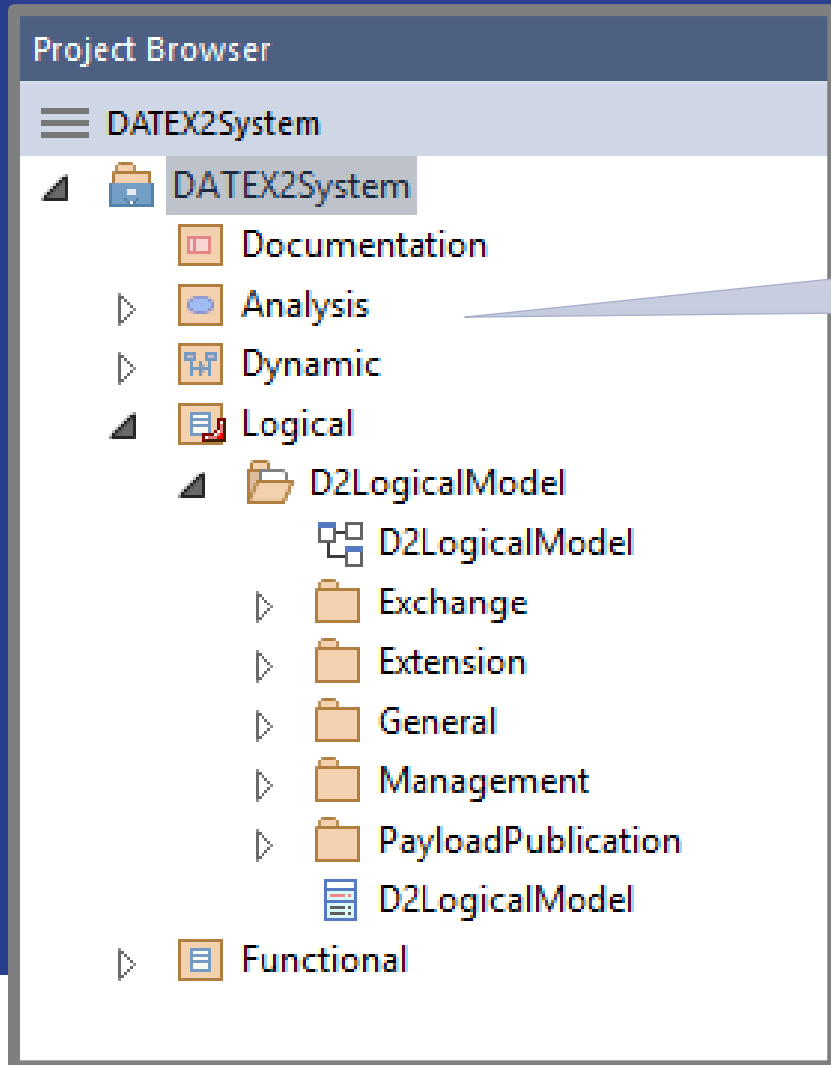
Technical Management Group

Modular approach with namespaces

- New package structure
- Each topic has its own namespace
 - No need to take care of existing elements in other environments**
- Modules can be selected according to the user's needs
 - No unnecessary ballast**
- Modules / Namespaces can be easily created to add new topics

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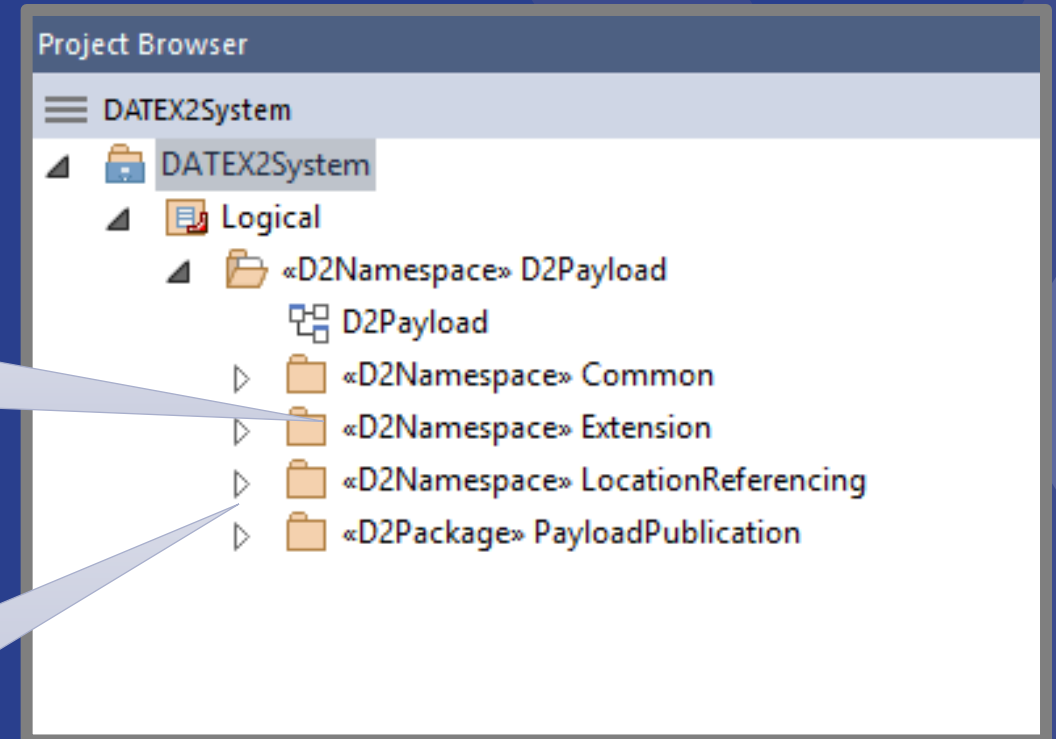
The model structure The new model structure



Cleaned up

New stereotype
„D2Namespace“

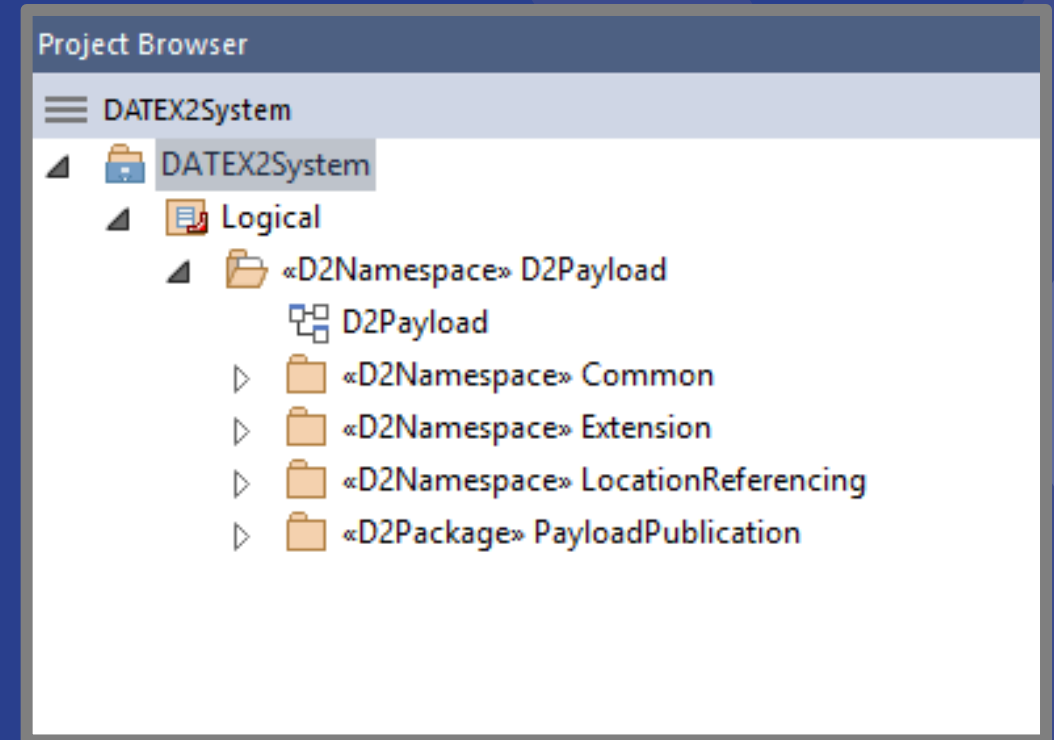
Moved and
reordered topics



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Packages overview

- D2Payload
Overall namespace (kind of envelope)
- Common
Collection of elements reused in several namespaces
Covers parts of the old 'General' and 'Reusable classes'
- Extension
As before a space for customisation
- LocationReferencing
Own namespace for well known LR standards
- PayloadPublication
Container for the content



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Modularity results in multiple schema files

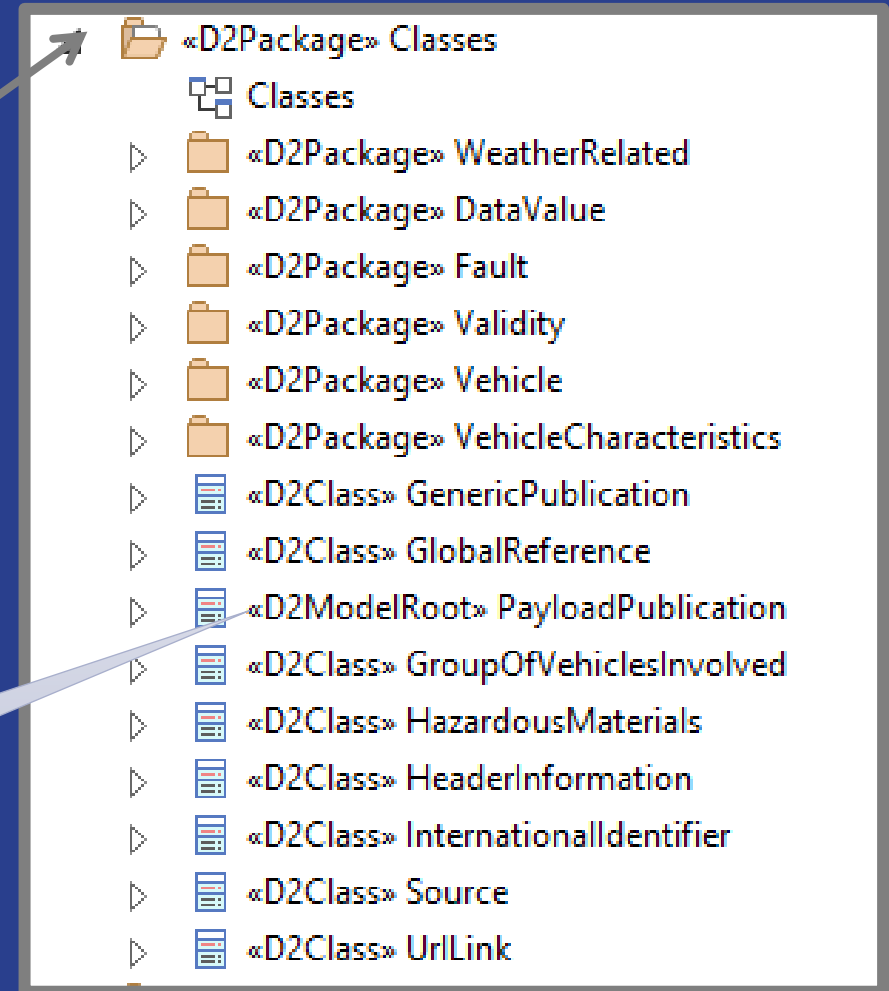
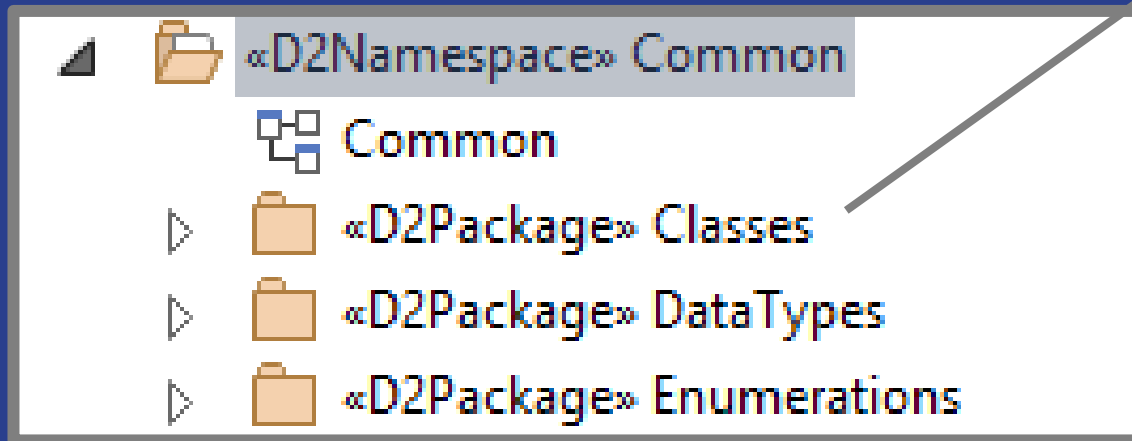
 DATEXII_3_Common.xsd	XML Schema
 DATEXII_3_D2Payload.xsd	XML Schema
 DATEXII_3_LocationReferencing.xsd	XML Schema
 DATEXII_3_Parking.xsd	XML Schema
 DATEXII_3_RoadTrafficData.xsd	XML Schema
 DATEXII_3_Situation.xsd	XML Schema
 DATEXII_3_Vms.xsd	XML Schema

D2Payload imports all the others.

Usually, only one of the latter four is used at a time

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What does the new Common look like?



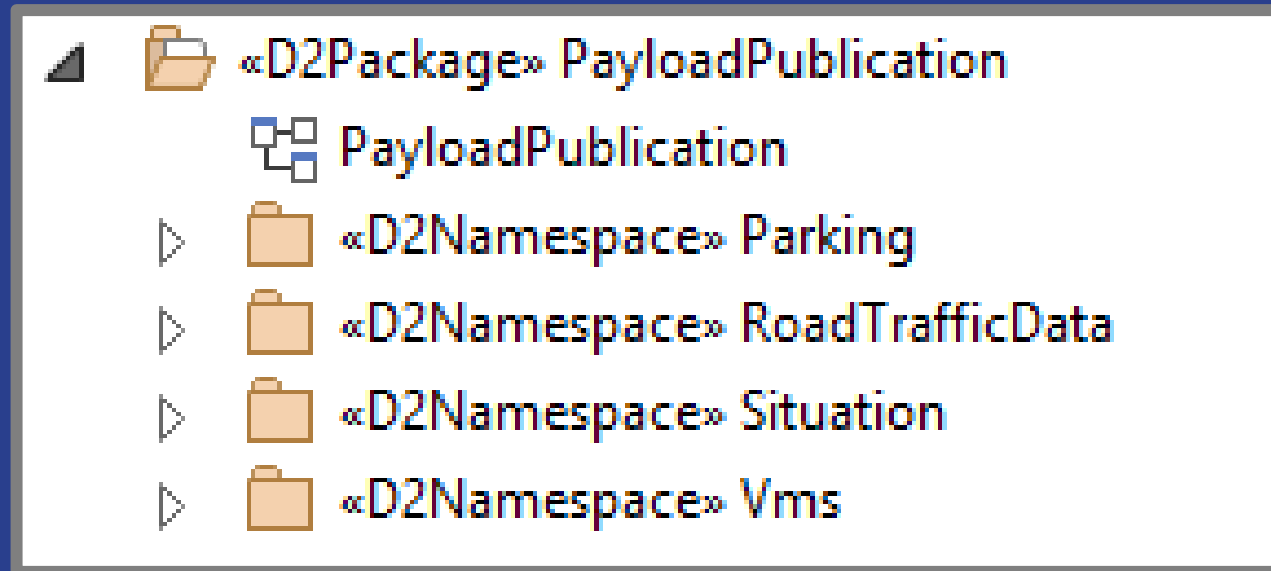
Model root class

Plus 36 Data Types and 34 Enumerations

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‘Common’ is standardised in the (new) CEN/EN 16157 Part 7

PayloadPublication content



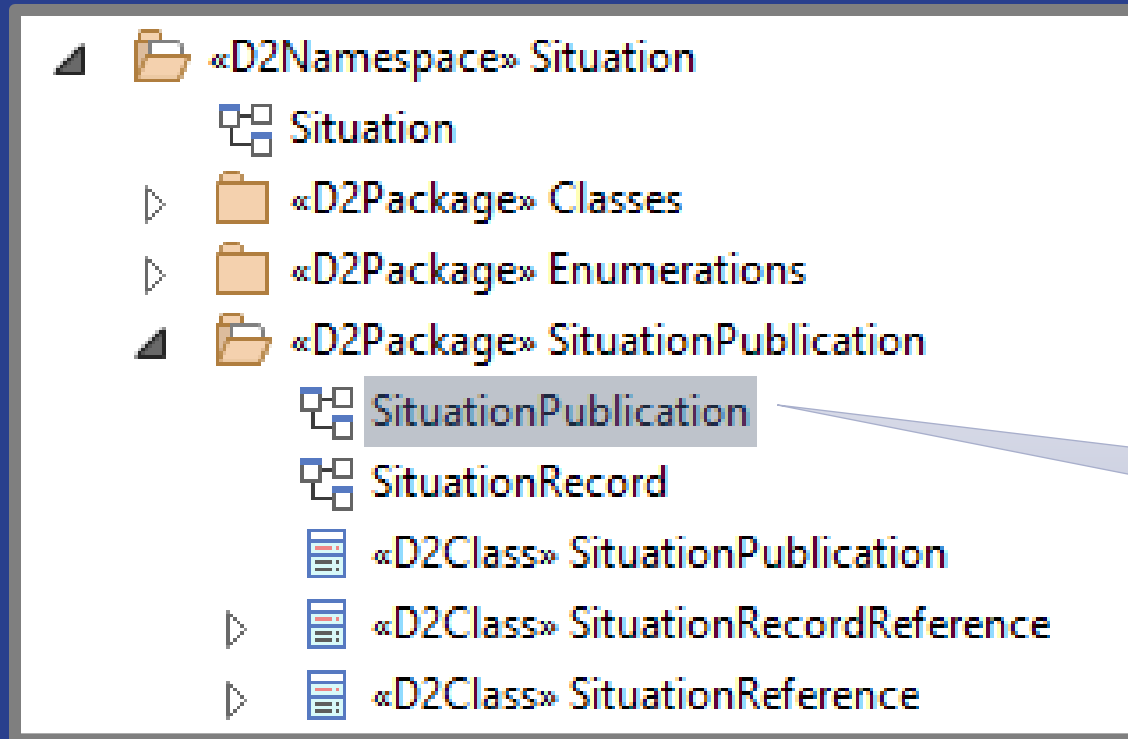
Caution: Parking, RoadTrafficData and VMS might effect changes in the near future, as the corresponding CEN standards are in revision. Those parts are still represented with their data model of version 2.3.

- Usually, you only choose one package of these
- Most probably, you add Common and LocationReferencing (as shown before)
- Predefined UML bundles exist, for example {Common, LR and Situation}
- More packages / namespaces might be developed in future

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The Situation Publication package

- Likewise nearly the same top-level structure for all publications
- Enumerations (or also data types) might be included, which are not in 'Common'



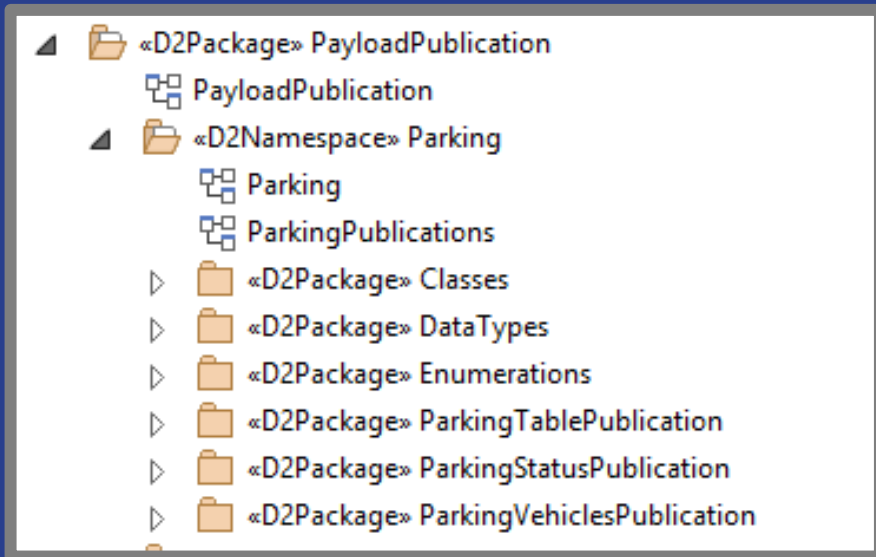
Main UML diagram for the Situation Publication

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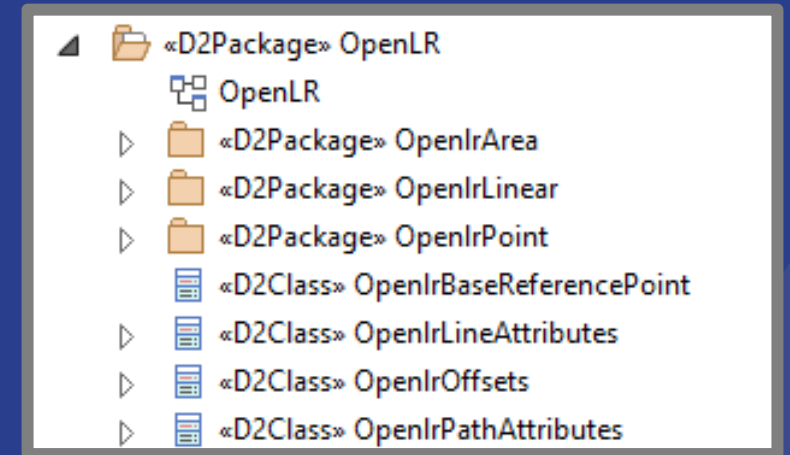
'Situation' is standardised in CEN/EN 16157 Part 3

Approved Extensions from v2.3 added to Level A

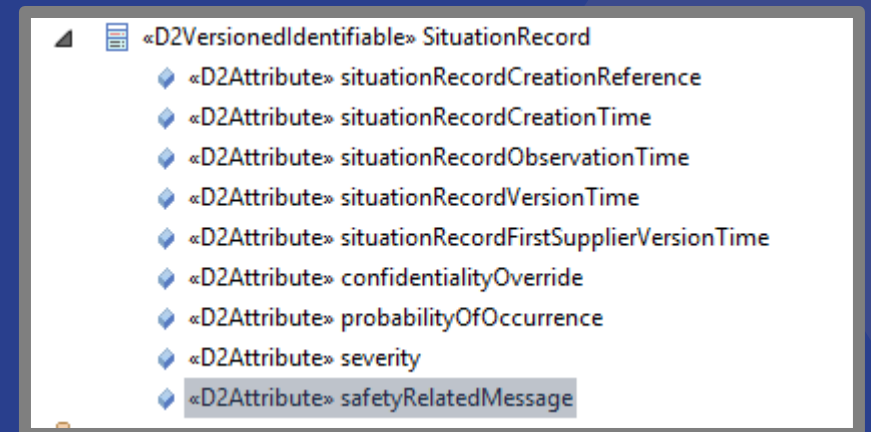
1) Parking



2) OpenLR



3) Safety Related Messages



CEN/TS 16157 Part 6 - will be revised and updated and become CEN/EN 16157 Part 6

Overview on the DATEX European Norm CEN/EN 16157

Part 1: Context and Framework	in publication
Part 2: Location referencing	in publication
Part 3: Situation	in publication
Part 4: Variable Message Sign	in progress
Part 5: Measured & Elaborated data	in progress
Part 6: Parking Information	in progress
Part 7: Common data elements	in publication

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