

Sneak preview into DATEX II version 3.2

Sneak preview

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Sneak preview

- Next version of DATEX will be published around late spring/early summer 2021
- Will be minor version, i.e.
 - only backwards compatible changes (except bug fixes) (no model changes as such)
 - adding of new content possible, especially new namespaces

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Sneak preview

3.2

- Energy publications
- Traffic Regulations (and UVAR's)
- Facilities
- Revision of Parking
- open API

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Energy Infrastructure Publication

- Describing infrastructure sites for energy supply of vehicles (ordinary petrol stations as well as electric charging stations)
- Describing their current status (availability, status, next free time slot etc)
- A first smaller model part came with the parking publication, but now the model is specified on its own

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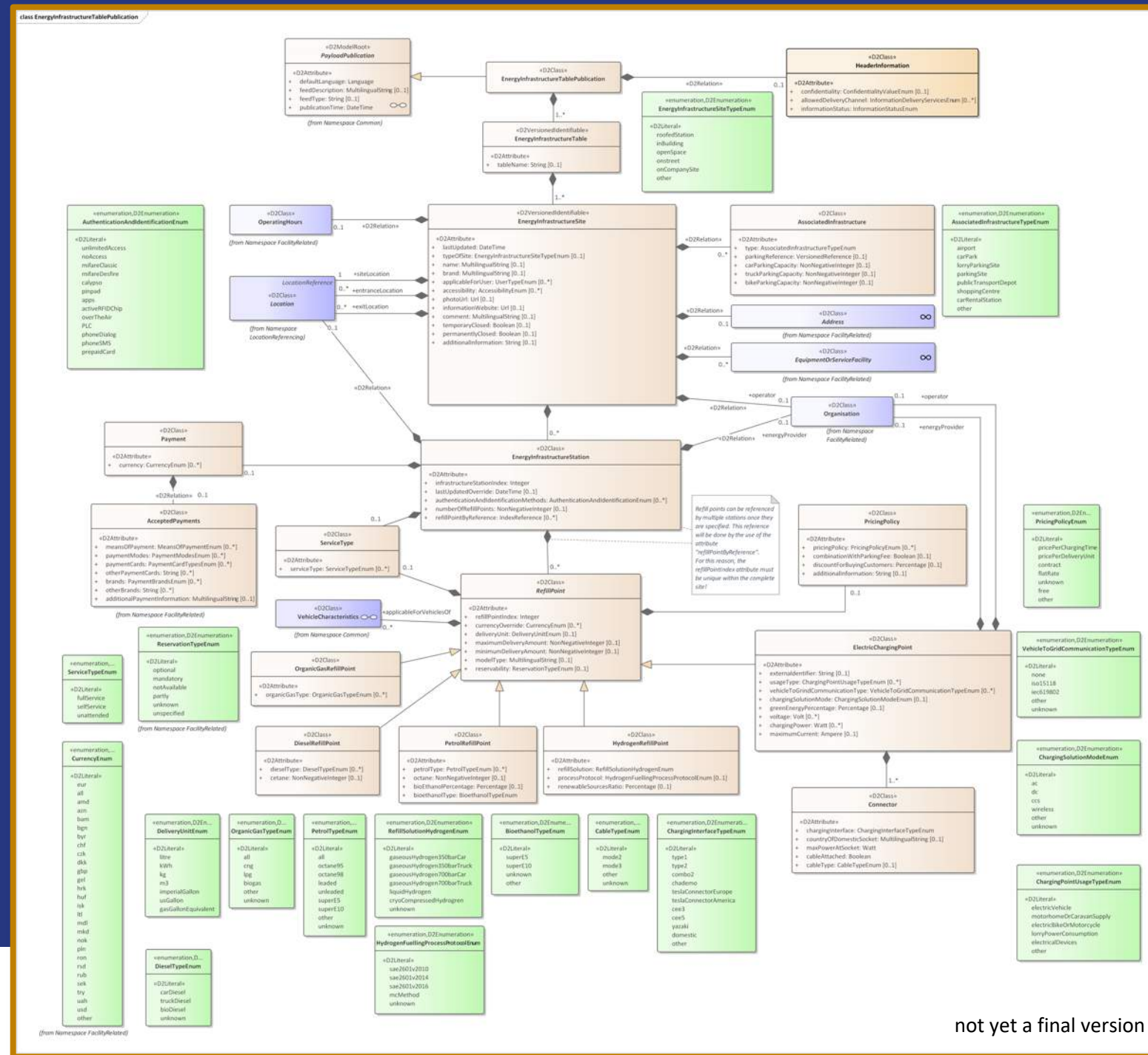
Energy Infrastructure Publication

(only static part shown here)

Currently going to be standardised in CEN/TS 16157 Part 10

Comments from several stakeholder groups are or will be integrated, such as Electromobility sub group, EU project IDACS, Hydrogen community, ...

27th January 2021



not yet a final version

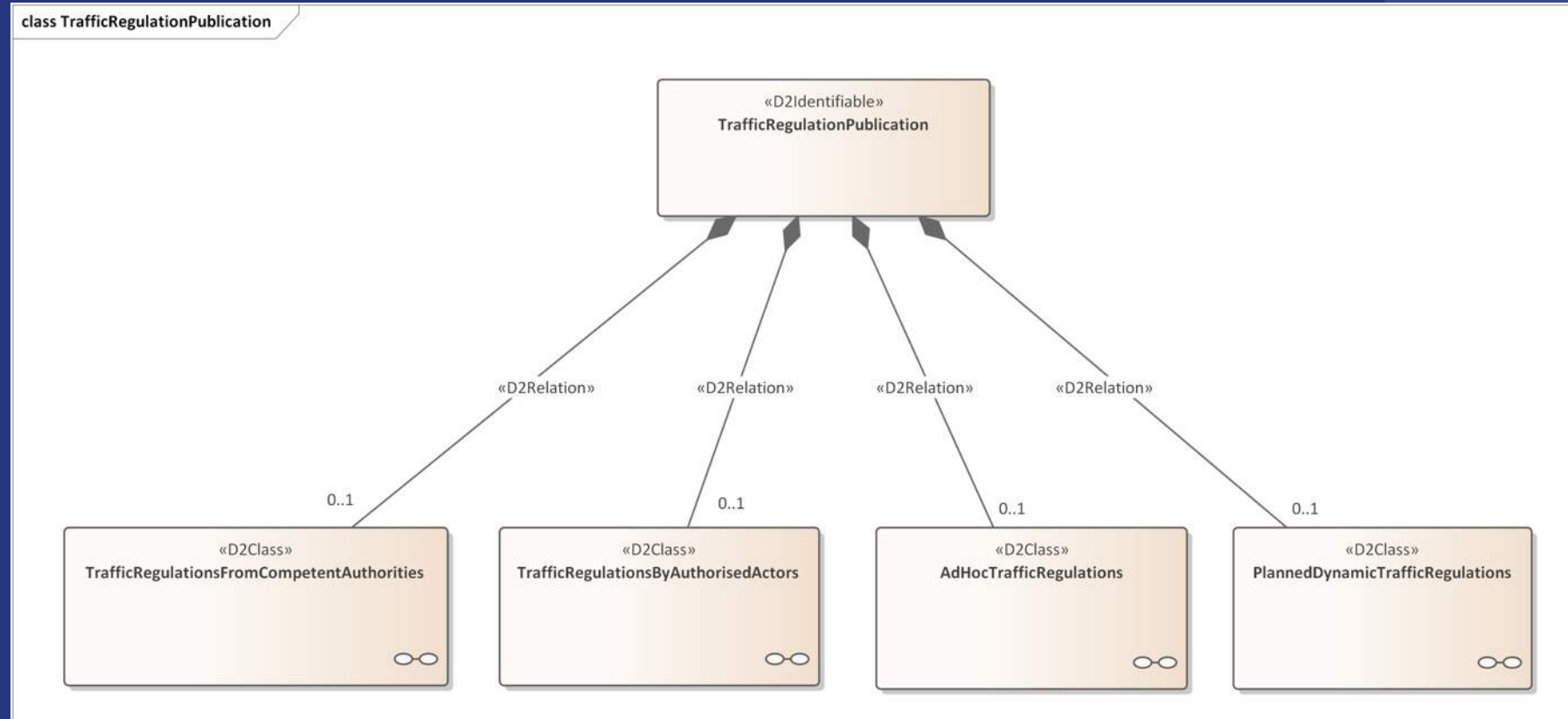
Traffic regulations

- Enabling proper digitalised information about traffic regulation is of rapidly growing importance
 - Increasing number and complexity of access regulations for cities (UVARs)
 - Deficiencies of today's ITS services (navigation says go ahead at closed road)
 - Growing clarity about future requirements (C-ITS, CCAM)
 - ...
- DATEX II has aspects of regulations in the "Situation" model (CEN EN 16157-3), but:
 - Regulations seen primarily from the RO perspective 20 years ago (traffic management)
 - Refactoring inside the current scope not favoured (too big, not focussed, no proper framework)

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Traffic regulation



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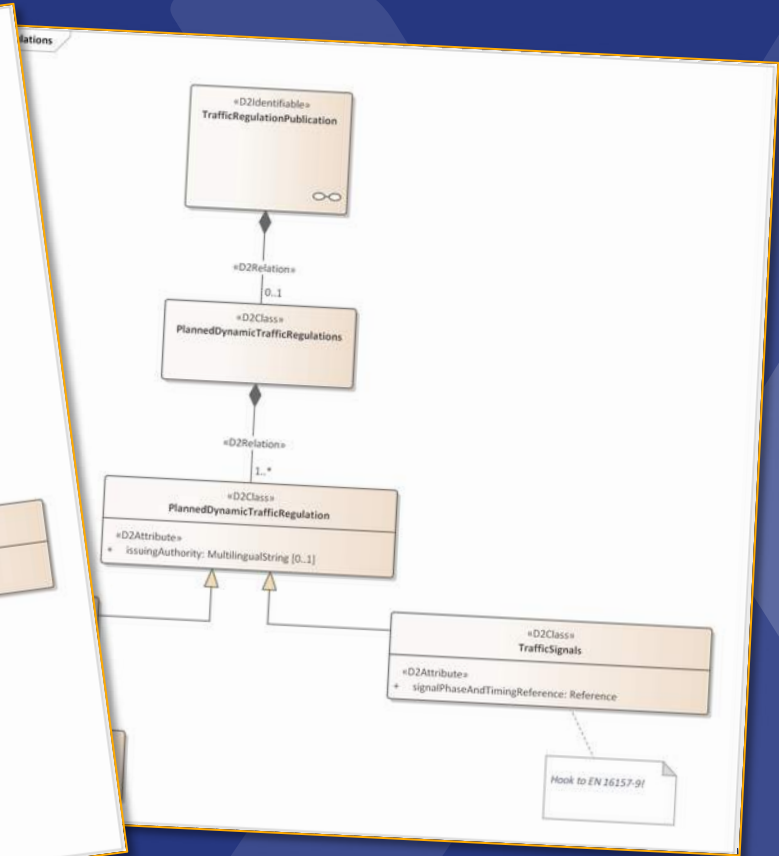
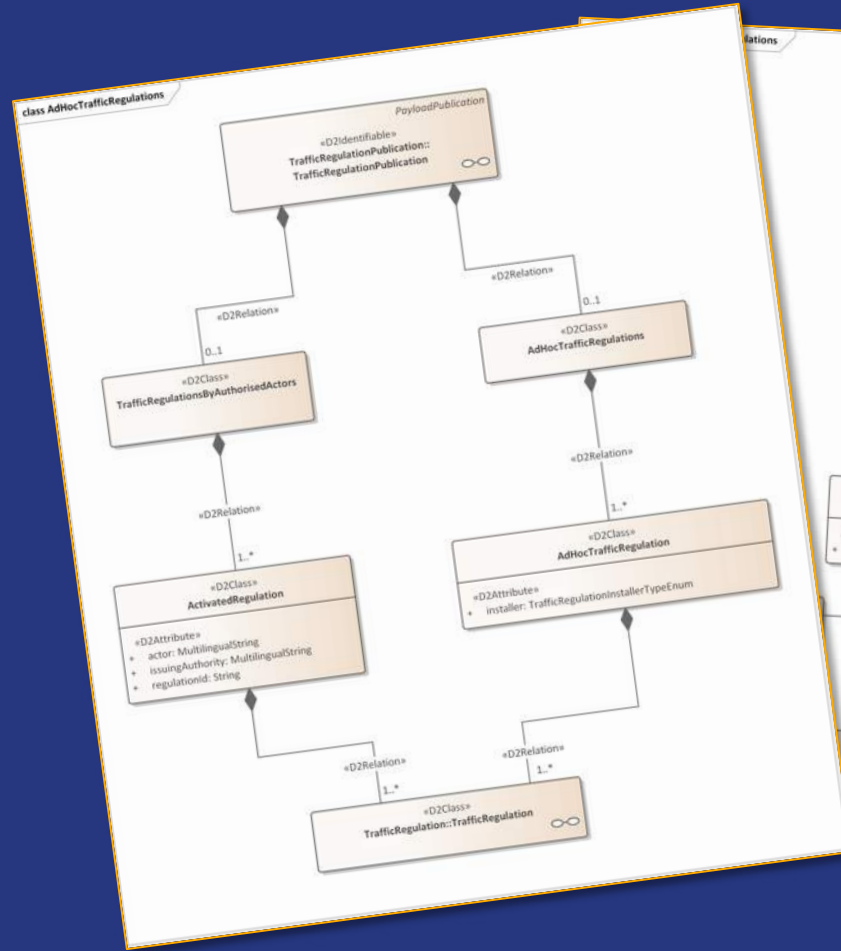
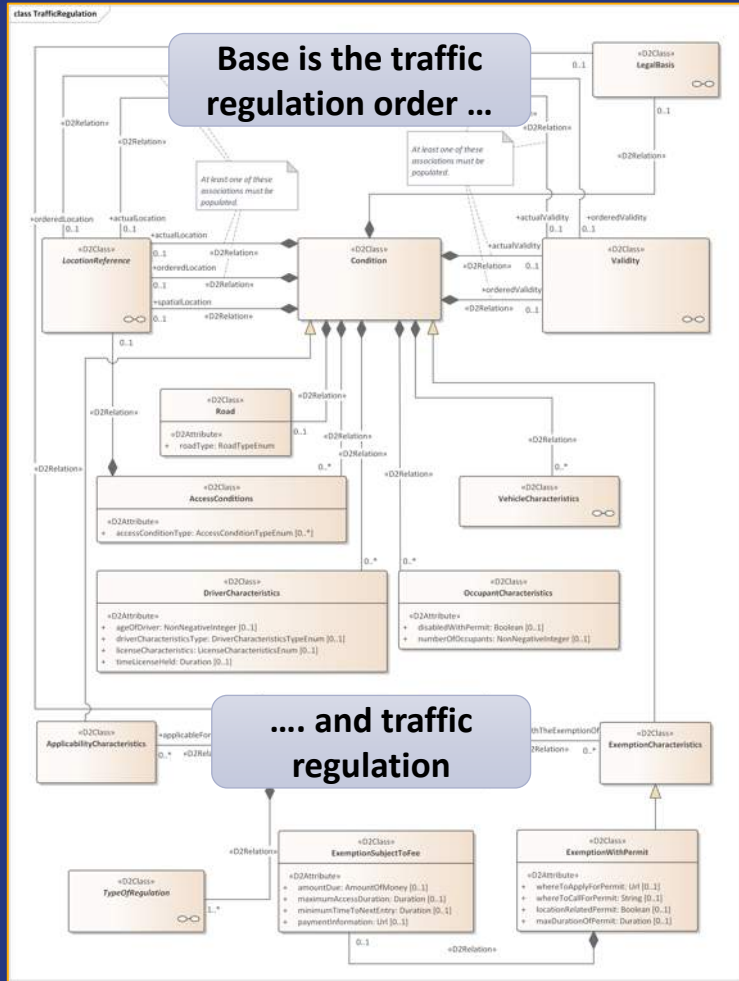
Traffic regulations

- Each traffic regulation is defined by
 - a type of regulation (e.g. an overtaking ban or a speed limit)
 - conditions for the applicability
such as location, validity, access conditions, trailer characteristics, vehicle characteristics and driver characteristics
 - exemptions of the regulation

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Traffic regulations (and UVAR's)

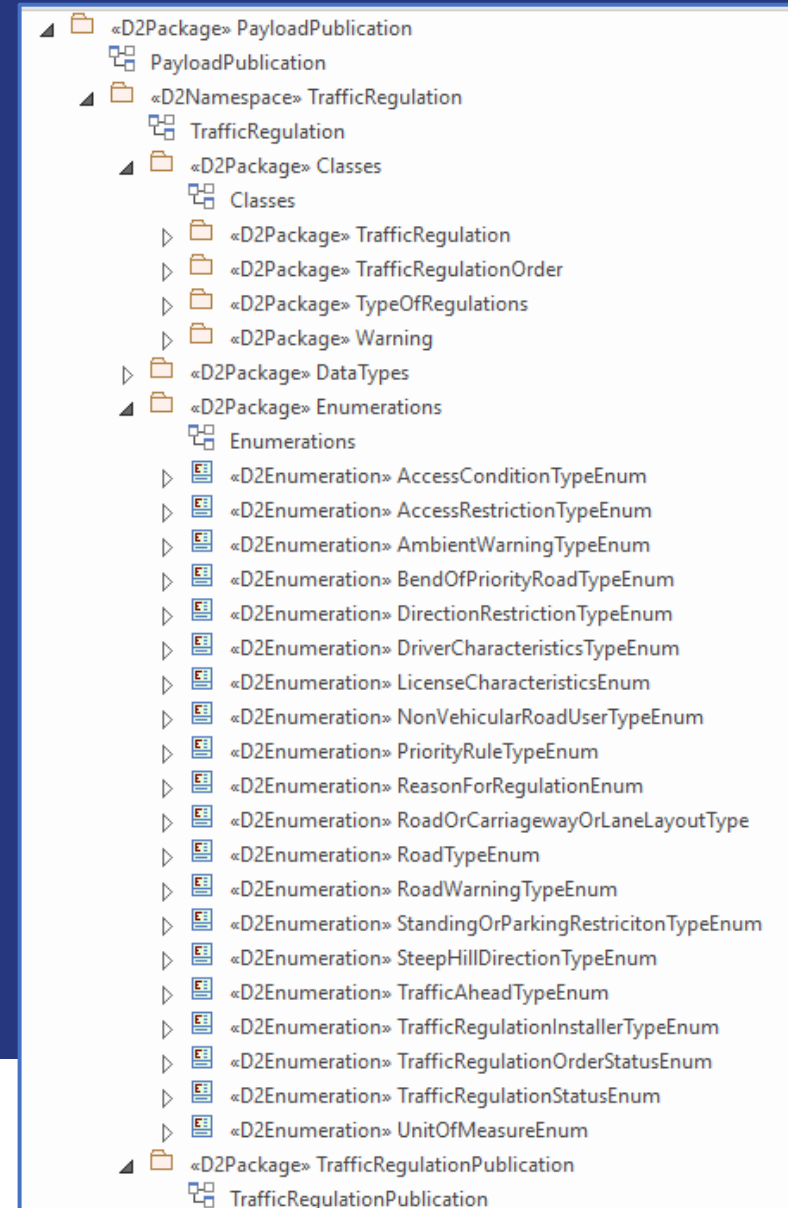


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Traffic regulations model

- Is currently being standardised in CEN/TS 16157 Part 11
- Will become part of DATEX II, version 3.2
- Is currently being further extended to the needs of **UVAR** (Urban vehicle access restrictions) using a controlled zone model
 - > will also be standardised (CEN/TS 16157 Part 13)



Facilities

- New namespace that contains elements used to describe facilities:
 - Opening Times
 - Tariffs and Payment
 - Dimensions
 - Organisation and Contact information
 - Equipment and Service Facilities

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Facilities

- Content was developed in context of Parking & Energy Publications
- Due to larger modifications for Parking, Facilities needed to be separated from the Parking content
- New namespace „FacilityRelated“, in standardisation for CEN/TS 16157 Part 12

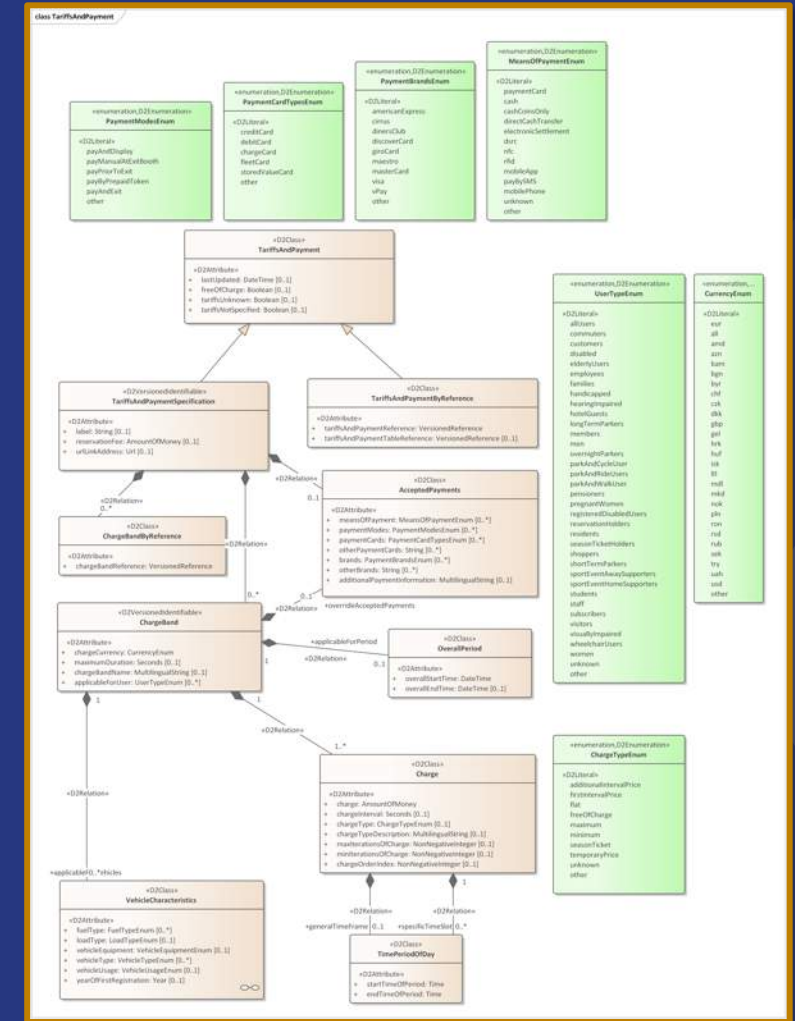
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Facilities - Tariffs

Most interesting might be the Tariff model:

- Tariff topic is highly dynamic, lots of stakeholders
- Currently, harmonisation process with APDS (Alliance for Parking data standards) is ongoing
- Tariff models have similarities, but are also different



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Revision of Parking

- Huge Parking model exists in DATEX since quite a time, e.g. for Truck Parking according to Delegated Regulation (EU) 885/2013
- Alliance for Parking data standards (APDS) started to create an own model and to standardise it in ISO TS 5206-1
- In 10/2020 DATEX PSA decided to follow Parking model from APDS
- Huge impact on the next steps: Revision of CEN/TS 16157 Part 6 could not be concluded in early 2021 as planned
- Lot of harmonisation effort is ongoing (methodology side, content side) to get a common core model for parking
- Updated plan is to possibly present a model in version 3.2

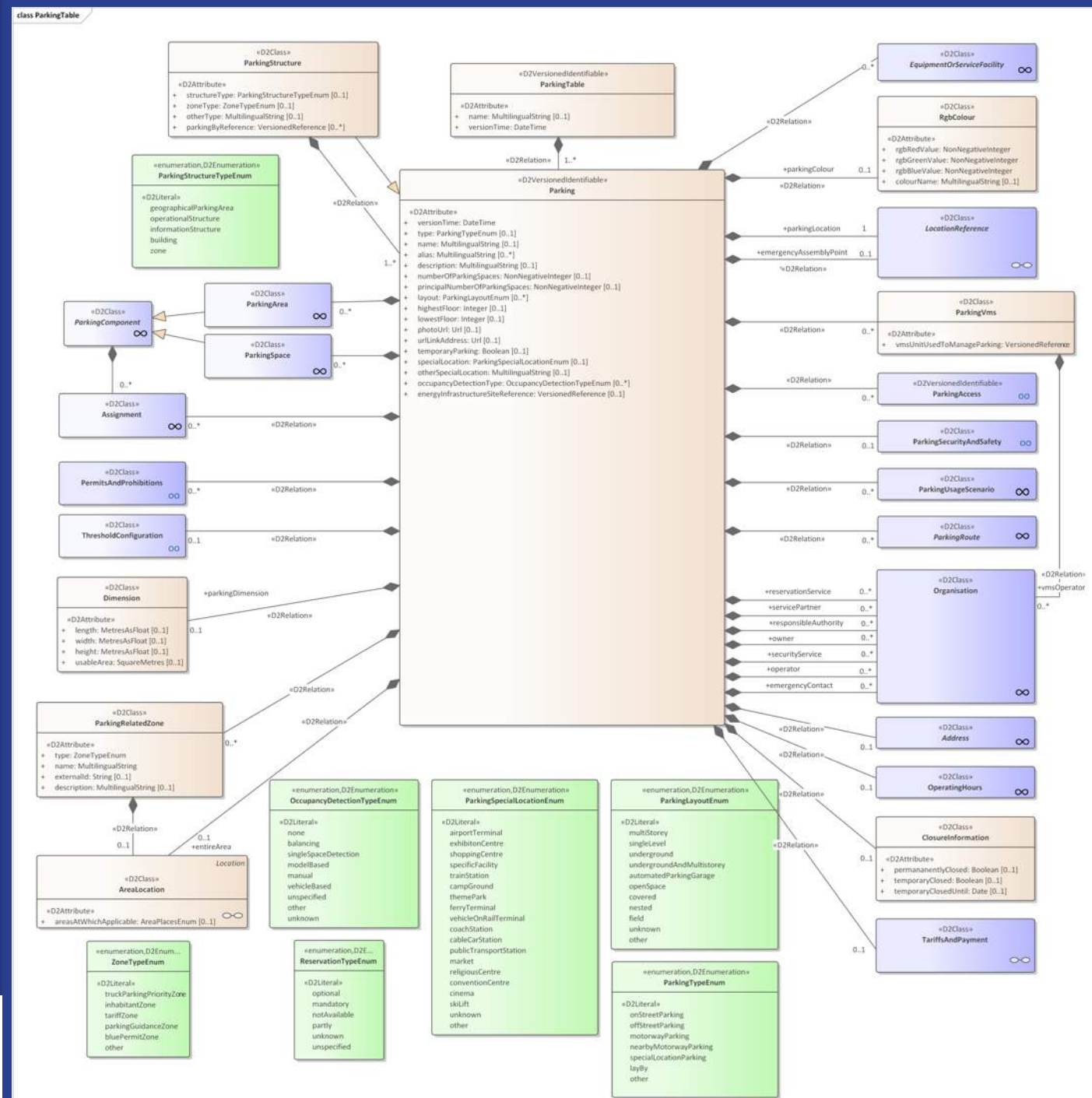
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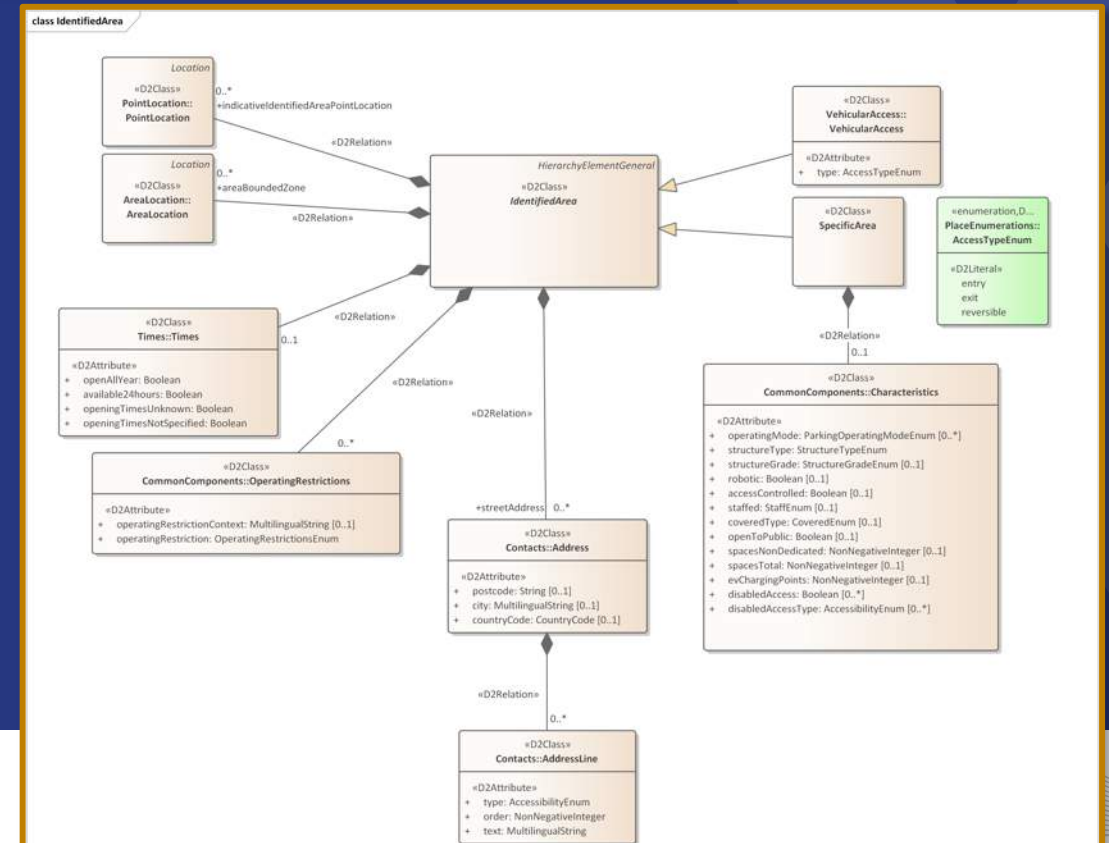
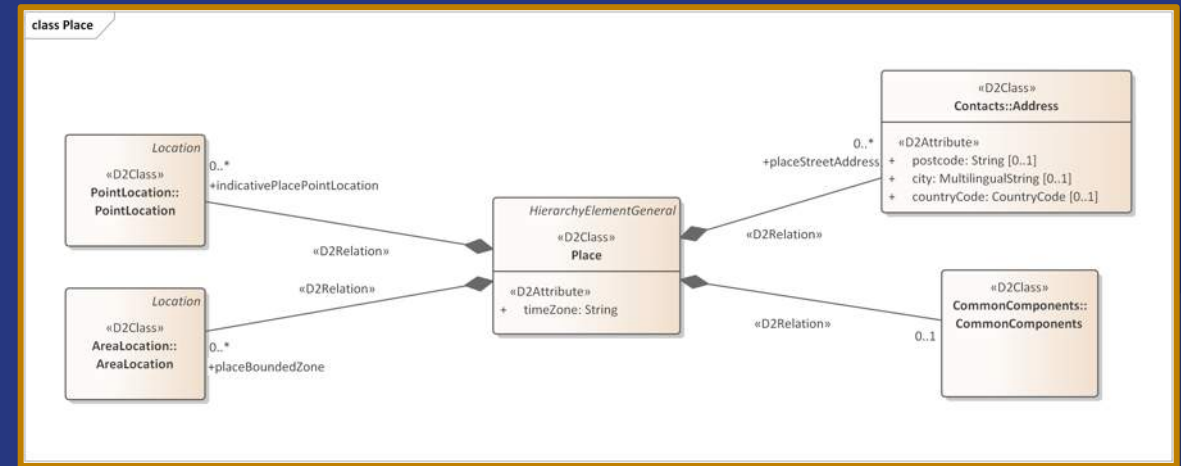
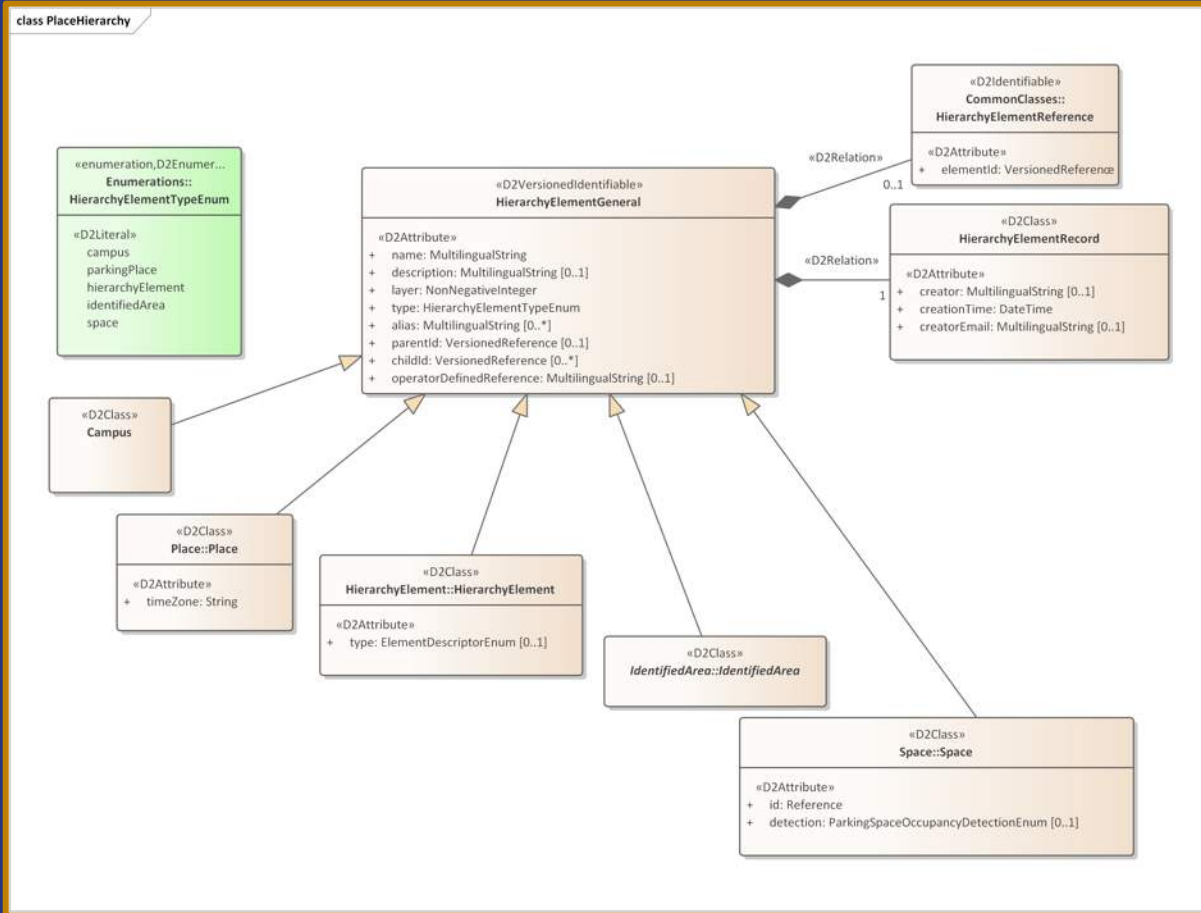
Revision of Parking

Latest DATEX parking model (extract) –
to be updated to APDS core

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Revision of Parking



Latest APDS draft (extract)

OpenAPI

- Defines a standard, language-agnostic interface to RESTful APIs
- For DATEX, we did a Piece of Code with OpenAPI 3.0 on D2Light/JSON
- No support for JSON Schema at that time
- Now there is OpenAPI 3.1 coming which will support full JSON schema
- OpenAPI 3.1 RC available but limited tool support
- Continue work when OpenAPI 3.1 is released and tools are available

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DATEX II Standard Overview

as of January 2021

Intelligent transport systems – DATEX II data exchange specifications for traffic management and information

EN 16157

- Part 1: Context and Framework
- Part 2: Location Referencing
- Part 3: Situation Publication
- Part 4: VMS publication
- Part 5: Measured and elaborated data publications
- Part 7: Common data elements

CEN/TS 16157

- Part 6: Parking publications (*)
- Part 8: Traffic management publications and extensions to the urban environment
- Part 9: Traffic signal management publications dedicated to the urban environment
- Part 10: Energy infrastructure publication (**)
- Part 11: Publication of electronic traffic bans and traffic regulations (**)
- Part 12: Facility related publications (**)
- Part 13: Urban Vehicle Access Regulations (**) (***)

(*) in revision - (**) in preparation - (***) working title

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**Thank you for joining us on
this second webinar day**

**We hope to see you on the next
webinar day:**

10th of March 2021 9:00 – 12:00 CET

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