

DATEX II Release notes for version 3.0

Platform Independent Model

March 2018

This document currently uses no particular format because it may be converted to web text using mark-up and styling yet to be advised.

Changes from v2.3

There are changes to both the top-level structure and the lower-level detail. The higher level structural changes are partly due to the changes in modelling methodology [\[add link\]](#).

The changes to each package in v2.3 are summarised in the following tables.

High-level package in v2.3	Change in v3.0
D2LogicalModel	The top-level package has been renamed D2Payload.
Exchange	This no longer exists in the PIM. Exchange information is no longer mixed with information content in the PIM and should be covered in separate exchange specifications.
Extension	The approved folder has been removed. The content of approved extensions in v2.3 has been merged into the main model in version 3, as its approved status indicated it would be.
General	This package is now called Common. Location elements have been moved to a separate package to allow reuse of Common elements without location elements. Sub-packages for classes and enumerations have been renamed and have further internal changes. See also the entries on specific sub-packages: DataTypes, GroupOfLocations, PayloadEnumerations and ReusableClasses.
Management	This no longer exists in the PIM.
PayloadPublication	The sub-packages are now grouped by namespace. PayloadPublication now contains the top level packages for each namespace, each of which contains further sub-packages.

'General' sub-package in v2.3	Change in v3.0
DataTypes	DataTypes that are specific to one namespace have been moved out of the DataTypes package into that namespace. Unused datatypes have been removed. Several new types have been added to support new or changed attributes.
GroupOfLocations	This corresponds to the v3.0 LocationReferencing::LocationReference package. Within this package, sub-packages are now grouped by the family of location referencing method e.g. AlertC location referencing elements are grouped in the AlertC sub-package. The OpenLR and GML methods have been added.

	<p>Several classes and attributes have been renamed. SupplementaryPositionalDescription has been substantially expanded.</p> <p>PointCoordinates has been expanded to allow the description of height, accuracy, and confidence.</p> <p>See also the table on sub-packages.</p>
PayloadEnumerations	<p>Each enumeration is now allocated to its appropriate namespace to support modular reuse. Enumerations that are common to multiple namespaces are in the Common::Enumerations package. The alphabetic sub-packages of v2.3 have been removed.</p> <p>Several enumerations have been expanded, and several have been rationalised.</p>
ReusableClasses	<p>Each class is now allocated to its appropriate namespace to support modular reuse. Classes that are common to multiple namespaces are in the Common::Classes package.</p> <p>There are many changes to classes, as described in the entries for specific packages.</p> <p>See also the table for sub-packages.</p>

'PayloadPublication' sub-package in v2.3	Change in v3.0
ElaboratedDataPublication	<p>ElaboratedDataPublication is now in the RoadTrafficData namespace i.e. in PayloadPublication::RoadTrafficData. Since the EN 16157 part for the RoadTrafficData namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of ElaboratedDataPublication is modified only to fit with version 3 structures but is not otherwise internally modified from the v2.3 model.</p>
GenericPublication	<p>The only content of this package – the class GenericPublication – has been moved to Common::Classes.</p>
MeasuredDataPublication	<p>MeasuredDataPublication is now in the RoadTrafficData namespace i.e. in PayloadPublication::RoadTrafficData. Since the EN 16157 part for the RoadTrafficData namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of MeasuredDataPublication is modified only to fit with version 3 structures but is not otherwise internally modified from the v2.3 model.</p>
MeasurementSiteTablePublication	<p>MeasuredSiteTablePublication is now in the RoadTrafficData namespace i.e. in PayloadPublication::RoadTrafficData. Since the EN 16157 part for the RoadTrafficData namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of MeasuredSiteTablePublication is modified only to fit with version 3 structures but is not otherwise internally modified from the v2.3 model.</p>
PredefinedLocationsPublication	<p>New options have been added allowing predefined location groups to include locations directly, as well as via</p>

	predefined locations. Some class names have been shortened or improved.
SituationPublication	Some contents have moved to Situation::Classes. A Situation may now have a designated information manager, and one of the SituationRecords may be identified to be a summary record. The method of referring to related situations now uses a more explicit construct. Mobility, now in Situation::Classes, now has an optional speed attribute. See also the entry for the sub-package SituationRecord.
TrafficViewPublication	This package has been removed.
VmsPublication	VmsPublication is now in the Vms namespace i.e. in PayloadPublication::Vms. Since the EN 16157 part for the Vms namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of VmsPublication is modified only to fit with version 3 structures but is not otherwise internally modified from the v2.3 model.
VmsTablePublication	VmsTablePublication is now in the Vms namespace i.e. in PayloadPublication::Vms. Since the EN 16157 part for the Vms namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of VmsTablePublication is modified only to fit with version 3 structures but is not otherwise internally modified from the v2.3 model.

'GroupOfLocations' sub-package in v2.3	Change in v3.0
AlertC packages	The attributes of AlertCDirection have been altered for clarity.
Area	In addition to the AlertC and Tpeg area methods there are now Gml, OpenLR, and NamedArea methods. In each case the classes live in method-specific packages, and there is no longer a generic "Area" package.
Linear	In addition to the AlertC, Tpeg and linear referencing methods there are now Gml and OpenLR methods. In each case the classes live in method-specific packages, and there is no longer a generic "Linear" package. The new methods (Gml, OpenLR) are not constrained to represent a single road.
LinearWithinLinearElement, PointAlongLinearElement	A new option is added where LinearElement may use a GmlLineString.
Point	In addition to the AlertC, Tpeg, linear referencing and coordinates methods, there is now an OpenLR method. In each case the classes live in method-specific packages, and there is no longer a generic "Point" package.
Tpeg packages	No changes.

'SituationPublication' sub-package in v2.3	Change in v3.0
---	-----------------------

SituationRecord	The classes are now in the package Situation::Classes. The Cause class hierarchy has been redesigned and now consists of one concrete class with optional compositions. A SituationRecord may be designated as safety-related and may have an information manager.
------------------------	--

'ReusableClasses' sub-package in v2.3	Change in v3.0
BasicData	Now in RoadTrafficData::Classes. Since the EN 16157 part for the RoadTrafficData namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of BasicData is modified only to fit with other version 3 structures but is not otherwise internally modified from the v2.3 model.
DataValue	Concrete DataValue subclasses specific to one namespace have moved to a package within the namespace. There are some new concrete kinds of DataValue. The attribute of FloatingPointMetreDistanceValue has been renamed for brevity.
ElaboratedData	Now in RoadTrafficData::Classes. Since the EN 16157 part for the RoadTrafficData namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of ElaboratedData is modified only to fit with other version 3 structures but is not otherwise internally modified from the v2.3 model.
Fault	Additional optional attributes are available. Concrete Fault subclasses specific to one namespace have moved to a package within the namespace.
Impact	Now in Situation::Classes. Change to attributes of the Impact class.
NonRoadEventInformation	Now in Situation::Classes, and called ServiceInformation. CarParks removed here because it is superseded by elements in the Parking namespace.
OperatorAction	SignSetting has been removed. There are further changes inside sub-packages - see the table below.
TimePeriodOfDay	Contents are now in the Validity package and have been simplified.
TrafficElement	The TrafficElement class now has the optional trafficConstrictionType attribute formerly in Impact. There are further changes inside sub-packages - see the table below.
Validity	There are new elements to define a "special day" in which a period can occur.
Vehicle	The Vehicle class has an additional optional attribute for an anonymized reference.
VehicleCharacteristics	The VehicleCharacteristics class has one additional optional attribute for year of first registration.

VmsRelated	<p>Now in Vms::Classes.</p> <p>Since the EN 16157 part for the Vms namespace is still in process, the version 3 form of this package is not yet published in v3.0. The available version of VmsRelated is modified only to fit with other version 3 structures but is not otherwise internally modified from the v2.3 model.</p>
WeatherRelated	<p>The sub-packages of WeatherRelated have been removed and their contents moved up into the WeatherRelated package.</p> <p>A new variant has been added to represent pressure. PrecipitationDetail now has an optional intensity grade attribute.</p> <p>RoadSurfaceConditionMeasurements has several more optional details, for temperature details, ice, and friction.</p> <p>Wind now includes optional features identifying the direction of maximum wind.</p>

'OperatorAction' sub-package in v2.3	Change in v3.0
NetworkManagement	ReroutingManagement now has an optional identifier string and the option of specifying a Destination without an Itinerary.
Roadworks	The Roadworks class has new optional attributes. The type enumeration for ConstructionWorks is now mandatory.

'TrafficElement' sub-package in v2.3	Change in v3.0
Accident	In the Accident class the collision type can now be specified separately from the accident type.
Activity	PublicEvent now has an optional venue name attribute.
Conditions	RoadConditions has been renamed as RoadSurfaceConditions, for extra clarity. PoorEnvironmentConditions may now include Pressure.
Obstruction	VehicleObstruction has new optional attributes describing the vehicle and its problem.