

**Request for change**  
**IVI - Initial Vehicle Information**  
**Version 1.3**  
**(incl. correction RoadLoadCoefF1WLTP and**  
**correction NEDCDeviationFactor)**

Date : 27-8-2017  
Version: 1.3  
Status: Final (corrected 0.2)

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## 1. Correction 0.1 for RoadLoadCoefF1WLTP

Please note that after publication on the Ereg site for version 1.3 generated on 25th of July 2017 an error was found for the field RoadLoadCoefF1WLTP. This field can contain a negative value. In the published XSD version 1.3 this is not possible.

As the change is minor we decided to keep the same version 1.3 and only change the "Date Generated" to 2017-08-18.

The following has been changed:

Version 1.3 - 2017-07-25:

```
<xs:simpleType name="RoadLoadCoefF1WLTP">
  <xs:restriction base="xs:decimal">
    <xs:totalDigits value="9"/>
    <xs:fractionDigits value="6"/>
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="999.999999"/>
  </xs:restriction>
</xs:simpleType>
```

Version 1.3 - 2017-08-18:

```
<xs:simpleType name="RoadLoadCoefF1WLTP">
  <xs:restriction base="xs:decimal">
    <xs:totalDigits value="9" />
    <xs:fractionDigits value="6" />
    <xs:minInclusive value="-999.999999" />
    <xs:maxInclusive value="999.999999" />
  </xs:restriction>
</xs:simpleType>
```

## 2. Correction 0.2 for NEDCDeviationFactor

Please note that after publication on the Ereg site for version 1.3 with the correction for RoadLoadCoefF1WLTP included a manufacturer stated that the field NEDCDeviationFactor could also contain a negative value. In the published XSD version 1.3 on the 18th of August 2017 this is not possible.

As the change is minor we decided to keep the same version 1.3 and only change the "Date Generated" to 2017-08-27.

The following has been changed:

Version 1.3 - 2017-08-18:

```
<xs:simpleType name="NEDCDeviationFactor">  
  <xs:restriction base="xs:decimal">  
    <xs:totalDigits value="7" />  
    <xs:fractionDigits value="5" />  
    <xs:minInclusive value="0" />  
    <xs:maxInclusive value="99.99999" />  
  </xs:restriction>  
</xs:simpleType>
```

Version 1.3 - 2017-08-27:

```
<xs:simpleType name="NEDCDeviationFactor">  
  <xs:restriction base="xs:decimal">  
    <xs:totalDigits value="7"/>  
    <xs:fractionDigits value="5"/>  
    <xs:minInclusive value="-99.99999"/>  
    <xs:maxInclusive value="99.99999"/>  
  </xs:restriction>  
</xs:simpleType>
```

### 3. General

Please note that changes between the draft 1.3a version and the final 1.3 version can be found by searching this Release Notes document for "Version info 1.3a".

### 4. Use of legislation references in message book

In the current version of the message book Header "**Description**" there's a reference to the guideline/regulation. Example:

```
2007/46/EC: NA  
371/2010: NA  
183/2011 IAC: NA  
2002/24/EC: NN  
901/2014: NA  
2003/37/EC: 2.4.6.1.1.  
2015/504: 38.3. and 38.4.
```

To reduce maintenance of this listing we've removed the references where NA is stated.  
If a guideline isn't mentioned this means it's Not Applicable.

## 5. Request for change : Coding list (enumeration)

<b>Change Request</b>	Add Enumeration
<b>Messageheader</b>	<b>ExhaustEmissionLevelEuro</b>
<b>New values</b>	EURO 6 AA, EURO 6 AB, EURO 6 AC, EURO 6 AD, EURO 6 AE, EURO 6 AF, EURO 6 AG, EURO 6 AH, EURO 6 AI, EURO 6 AJ, EURO 6 AK, EURO 6 AL, EURO 6 BA, EURO 6 BB, EURO 6 BC, EURO 6 BG, EURO 6 BH, EURO 6 BI, EURO 6 PLN , EURO 6 ZG, EURO 6 ZH, EURO 6 ZI, EURO 6 ZJ, EURO 6 ZL, EURO 6 ZK, AX, AY, AZ
<b>Reason</b>	Regulation (EU) 2016/646

<b>Change Request</b>	Add Enumeration
<b>Messageheader</b>	<b>VehicleCategoryCode</b>
	L4e-A1 L4e-A2 L4e-A3
<b>Reason</b>	Regulation (EU) 168/2013

<b>Change Request</b>	Add Enumeration
<b>Messageheader</b>	VersionNumberXsd
<b>Current value collection</b>	None. Due to an error the enumeration is missing in version 1.2. This will be added again.
<b>New value collection</b>	<pre> =&lt;xs:simpleType name="VersionNumberXsd"&gt; =&lt;xs:restriction base="xs:string"&gt;   &lt;xs:maxLength value="5" /&gt;   &lt;xs:enumeration value="1.1" /&gt;   &lt;xs:enumeration value="1.2" /&gt;   &lt;xs:enumeration value="1.3" /&gt; </pre> <p>This will be added to version 1.2 as a correction as well. Will not result in a new version.</p>
<b>Reason</b>	Correction.

<b>Change Request</b>	Add Enumeration
<b>Messageheader</b>	BrakedTypeTrailCode
<b>New value collection</b>	UND = Undefined
<b>Reason</b>	Correction

<b>Change Request</b>	Add Enumeration
<b>Messageheader</b>	TrailerBrakeConnectionsCode
<b>New value collection</b>	NON = None
<b>Reason</b>	Correction

<b>Request</b>	Add enumeration
<b>Version info 1.3a</b>	Added to final version, wasn't available in version 1.3a.
<b>Messageheader</b>	LocOfTheStatutoryPlatesCode
<b>Enumeration</b>	D7 = Left hand B/C post
<b>Reason</b>	Request manufacturer

<b>Change Request</b>	Add Enumeration
<b>Version info 1.3a</b>	In version 1.3 these fuel codes are added to the enumeration.
<b>Messageheader</b>	Fuelcode
<b>New value collection</b>	23 GTL (Gaz to liquid = Diesel) 24 BTL (Biomass to liquid = Diesel) 25 CTL (Coal to liquid = Diesel) 26 HVO (Hydrotreated vegetable oil = Diesel) 61 LNG-L 62 LNG-H 63 LNG-HL 83 B10 (Diesel) 84 B15 (Diesel) 85 B20 (Diesel) 86 B30 (Diesel) 87 B50 (Diesel)
<b>Reason</b>	Additional fuel codes

<b>Change Request</b>	Add Enumeration
<b>Messageheader</b>	<b>OdometerUnitCode</b>
<b>New values</b>	B = Both
<b>Reason</b>	Correction

## 6. Changes to the description in the message book

Field	BallastSetNumberOfComponents
XSD Grouping	Body, CocDataGroup, BallastSetTable, BallastSetGroup
Format	NUM 3
XML Format	nonNegativeInteger
Description	Number of components on each set. Set 1:..... Set 2:..... Set... 2015/504: 29.1.1. 2016/1789: 29.2.1.

Field	NumberOfSetsBallastMasses
XSD Grouping	Body, CocDataGroup
Format	NUM 2
XML Format	nonNegativeInteger
Description	Number of sets of ballast masses. 2015/504: 29.1. 2016/1789: 29.2.1

Field	BallastMassTotal
XSD Grouping	Body, CocDataGroup
Format	NUM 6
XML Format	nonNegativeInteger
Description	Ballast masses (total) 2003/37/EC:2.3. 2015/504: 29.3. 2016/1789: 29.3.

Field	HeightMaximum
XSD Grouping	Body, CocDataGroup
Format	NUM 4
XML Format	nonNegativeInteger
Unit	mm
Description	Height maximum 2007/46/EC: 8. 371/2010: 7. 183/2011 IAC: 7. 2002/24/EC: 8. 901/2014: 2.2.3. 2015/504: 4.2.2.1.3. 2016/1789: 4.2.1.3.

Usage

In case of complete vehicles only to be used when the vehicle is adjustable. It is not permitted to use this entry for a range of values as defined in the type approval.

In case of incomplete vehicles only to be used to define the installation range. If more then 4000 then ExceedingDimensionIndicator has to be present with the



value "Y".  
Also as Height.

<b>Field</b>	<b>HeightMinimum</b>
XSD Grouping	Body, CocDataGroup
Format	NUM 4
XML Format	nonNegativeInteger
Unit	mm
Description	Height mimimum 2007/46/EC: 8. 371/2010: 7. 183/2011 IAC: 7. 2002/24/EC: 8. 901/2014: 2.2.3. 2003/37/EC: 2.7.3. 2015/504: 4.2.2.1.3 2016/1789: 4.2.1.3.
Usage	In case of complete vehicles only to be used when the vehicle is adjustable. It is not permitted to use this entry for a range of values as defined in the type approval. In case of incomplete vehicles only to be used to define the installation range. If more then 4000 then ExceedingDimensionIndicator has to be present with the value "Y". Also as Height.

<b>Field</b>	<b>ExtSoundLevelNrBaseRegulAct</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup
Format	A-N 35
XML Format	string
Description	Exterior sound level number of the base regulatory act and latest amending regulatory act applicable, incl phase 2007/46/EC: 45. 371/2010: NA 183/2011 IAC: NA 2002/24/EC: 46. 901/2014: 4.0.2. 2016/1825: 4.0.6. 2003/37/EC: 13. 2015/504: NN

<b>Field</b>	<b>SoundLevelStatEngineSpeed</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup
Format	NUM 5
XML Format	nonNegativeInteger
Unit	1/min
Description	Sound level Stationary engine speed 2007/46/EC: 45. 371/2010: 46. 183/2011 IAC: 46. 2002/24/EC: 45. 901/2014: 4.0.2.1. 2016/1825: 4.0.6.1.

2003/37/EC: 13.1.  
2015/504: NN

<b>Field</b>	<b>SoundLevelStationary</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup
Format	NUM 5,2
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='999.99'
Unit	dB(A)
Value collection	0-999.99
Description	Sound level Stationary
	2007/46/EC: 45. 371/2010: 46. 183/2011 IAC: 46. 2002/24/EC: 45. 901/2014: 4.0.2.1. 2016/1825: 4.0.6.1. 2003/37/EC: 13.1. 2015/504: NN

<b>Field</b>	<b>SoundLevelDriveBy</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup
Format	NUM 5,2
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='999.99'
Unit	dB(A)
Value collection	0-999.99
Description	Sound level Drive-by
	371/2010: 46. 183/2011 IAC: 46. 2002/24/EC: 45. 901/2014: 4.0.2.2. 2016/1825: 4.0.6.2. 2003/37/EC: 13.2.

<b>Field</b>	<b>TestprocType1CO</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocedureType1Group
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	g/km
Value collection	0-9999.99999
Description	Testprocedure Type I - CO
	2007/46/EC: 46.1.1. 371/2010: 48.

2002/24/EC: 46.  
 901/2014: 3.2.15.1.  
 2016/1825: 3.2.15.1.  
 2003/37/EC: NA  
 2015/504: NA

<b>Field</b>	<b>TestprocType1HC</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocedureType1Group
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	g/km
Value collection	0-9999.99999
Description	Testprocedure Type I - HC
	2007/46/EC: 46.1.1. 371/2010: 48. 2002/24/EC: 46. 901/2014: 3.2.15.1. 2016/1825: 3.2.15.1. 2015/504: NA

<b>Field</b>	<b>TestprocType1HC_NOx</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocedureType1Group
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	g/km
Value collection	0-9999.99999
Description	Testprocedure Type I - HC + NOx
	2007/46/EC: 46.1.1. 371/2010: 48. 2002/24/EC: 46. 901/2014: 3.2.15.1. 2016/1825: 3.2.15.1.

<b>Field</b>	<b>TestprocType1NMHC</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocedureType1Group
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	g/km
Value collection	0-9999.99999
Description	Testprocedure Type I - NMHC
	371/2010: 48. 901/2014: 3.2.15.1. 2016/1825: 3.2.15.1.

Field	TestprocType1NOx
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocedureType1Group
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	g/km
Value collection	0-9999.99999
Description	Testprocedure Type I - Nox  2007/46/EC: 46.1.1. 371/2010: 48. 2002/24/EC: 46. 901/2014: 3.2.15.1. 2016/1825: 3.2.15.1.

Field	TestprocType1Particulates
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocedureType1Group
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	g/km
Value collection	0-9999.99999
Description	Testprocedure Type I - Particulates  2007/46/EC: 46.1.1. 371/2010: 48. 901/2014: 3.2.15.1. 2016/1825: 3.2.15.1.

Field	TestprocTypeVII CO2
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocTypeVIIGroup
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	g/km
Value collection	0-9999.99999
Description	4.0.3.1. CO2. 2.2.1.8.6. CO2 Result of type VII (TR TTVIIx) ...g/km  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 4.0.3.1. 2016/1825: 4.0.3. 2003/37/EC: NA

2015/504: NA

<b>Field</b>	<b>TestprocTypeVIIIFuelConsumption</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup, TestprocTypeVIIIGroup
Format	NUM 9,5
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='9999.99999'
Unit	l/100km
Value collection	0-9999.99999
Description	2.2.1.8.6. Fuelconsumption Result of type VII (TR TTVIIx) ...g/km  901/2014: 4.0.3.2. 2016/1825: 4.0.2.

<b>Field</b>	<b>ElectricEnergyConsPureElectric</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup
Format	NUM 7,2
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='99999.99'
Unit	Wh/km
Value collection	0-99999.99
Description	Electric energy consumption pure electric 371/2010: 49. 183/2011 IAC: 49. 901/2014: 4.0.3.3. 2016/1825: 4.0.4.

<b>Field</b>	<b>ElectricEnergyConsWeightedComb</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup
Format	NUM 7,2
XML Format	decimal
Min/max value	minInclusive value='0'
Min/max value	maxInclusive value='99999.99'
Unit	Wh/km
Value collection	0-99999.99
Description	Electric energy consumption weighted, combined 371/2010: 49. 183/2011 IAC: 49. 901/2014: 4.0.3.3. 2016/1825: 4.0.4.

Usage Mandatory for complete vehicles of the vehicle categories M1 and N1 for OVC-hybrid vehicles (Plug-in hybrids).  
Use this entry only in case of OVC hybrid vehicles.

<b>Field</b>	<b>ElectricRange</b>
XSD Grouping	Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup
Format	NUM 5
XML Format	nonNegativeInteger
Unit	km

Description Electric range for pure electric vehicles.  
371/2010: 49.  
901/2014: 4.0.3.4.  
2016/1825: 4.0.5..

Usage Use this entry only in case of pure electric vehicles

**Field ElectricRangeExternChargeable**

XSD Grouping Body, CocDataGroup, EngineTable, EngineGroup, FuelTable, FuelGroup

Format NUM 5

XML Format nonNegativeInteger

Unit km

Description Electric range externally chargeable hybrid vehicle.  
371/2010: 49.  
901/2014: 4.0.3.4.  
2016/1825: 4.0.5.

Usage Mandatory for complete vehicles of the vehicle categories M1 and N1 for OVC-hybrid vehicles (Plug-in hybrids).  
Use this entry only in case of OVC hybrid vehicles.

## 7. Field corrections

<b>Request</b>	Add new field
<b>Field</b>	PureElectricVehIndicator
<b>XSD Grouping</b>	CocDataGroup
<b>Out of use</b>	PureElectricIndicator This field has been changed from engine to vehicle level and is out of use. Please use PureElectricVehIndicator instead.

<b>Request</b>	Add new field
<b>Field</b>	HybridVehIndicator
<b>XSD Grouping</b>	CocDataGroup
<b>Out of use</b>	HybridIndicator This field has been changed from engine to vehicle level and is out of use. Please use HybridVehIndicator instead.

## 8. New fields requested for by users

Some manufacturers state that the engine maximum power curve is a flat line over a specific engine rpm range (example: max engine power: 85 kW @ engine-rpm: 5200-5600).

This means that for a correct input in the IVI tag <EngineSpeedMaximumNetPower> the value 5200-5600 should be required, while currently the tag definition states “Numeric-Nonnegative-5 characters”, so the range cannot fit).

Due to this issue two entries will be added:

<b>Request</b>	Add new field
<b>Field</b>	EngineSpeedMaximumNetPowerMax
<b>XSD Grouping</b>	CocDataGroup EngineTable EngineGroup FuelTable FuelGroup
<b>Format</b>	NUM 5
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	1/min
<b>Description</b>	Engine speed maximum net power maximum  2007/46/EC: 26. 371/2010: 27. 136/2014: 27.1. 183/2011 IAC: 27. 2002/24/EC: 26. 901/2014: 1.9. 2003/37/EC: 3.6. 2015/504: 5.3.

<b>Request</b>	Add new field
<b>Field</b>	EngineSpeedMaximumNetPowerMin
<b>XSD Grouping</b>	CocDataGroup EngineTable EngineGroup FuelTable FuelGroup
<b>Format</b>	NUM 5
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	1/min
<b>Description</b>	Engine speed maximum net power minimum  2007/46/EC: 26. 371/2010: 27.



	136/2014: 27.1. 183/2011 IAC: 27. 2002/24/EC: 26. 901/2014: 1.9. 2003/37/EC: 3.6. 2015/504: 5.3.
--	---

<b>Request</b>	Ad new field
<b>XSD Group</b>	CoCDataGroup
<b>Messageheader</b>	MechanicalCouplingNumber
<b>XSD Grouping</b>	CocDataGroup MechanicalCouplingTable MechanicalCouplingGroup
<b>Format</b>	NUM 3
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	
<b>Description</b>	To uniquely identify a mechanical coupling. The other fields in the group could be the same for different coupling devices.

## 9. New fields as a result of Guideline changes: RDE

### ANNEX III

Part I of Annex IX to Directive 2007/46/EC is amended as follows:

(a) A new point 48.2 is introduced after point 48.1 in the side 2 of the Certificate of Conformity (CoC) of M1 vehicles as follows:

"48.2 Declared maximum RDE values (if applicable)

Complete RDE trip: NOx: ....., Particles (number): .....

Urban RDE trip: NOx: ....., Particles (number): ....."

(a) A new point 48.2 is introduced after point 48.1 in the side 2 of the Certificate of Conformity (CoC) of M2 vehicles as follows:

"48.2 Declared maximum RDE values (if applicable)

Complete RDE trip: NOx: ....., Particles (number): .....

Urban RDE trip: NOx: ....., Particles (number): ....."

(c) A new point 48.2 is introduced after point 48.1 in the side 2 of the Certificate of Conformity (CoC) of N1 vehicles as follows:

"48.2 Declared maximum RDE values (if applicable)

Complete RDE trip: NOx: ....., Particles (number): .....

Urban RDE trip: NOx: ....., Particles (number): ....."

(d) A new point 48.2 is introduced after point 48.1 in the side 2 of the Certificate of Conformity (CoC) of N2 vehicles as follows:

"48.2 Declared maximum RDE values (if applicable)

Complete RDE trip: NOx: ....., Particles (number): .....

Urban RDE trip: NOx: ....., Particles (number): ....."

<b>Request</b>	Add new field
<b>Field</b>	TestprocRdeCompleteRdeNOx
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureRdeGroup
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km

<b>Value collection</b>	
<b>Description</b>	Complete RDE trip: NOx 2017/1151: 48.2
<b>Reason</b>	RDE Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocRdeCompleteRdeNrOfPart
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureRdeGroup
<b>Format</b>	NUM 9,5
<b>Unit</b>	1/km
<b>Value collection</b>	
<b>Description</b>	Complete RDE trip: Particles (number): 2017/1151: 48.2
<b>Reason</b>	RDE Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocRdeCompleteRdeExpPart
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureRdeGroup
<b>Format</b>	NUM 2
<b>Unit</b>	
<b>Value collection</b>	
<b>Description</b>	Complete RDE trip: Particles (number): 2017/1151: 48.2
<b>Reason</b>	RDE Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocRdeUrbanRdeNOx
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureRdeGroup
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Urban RDE trip: NOx: 2017/1151: 48.2
<b>Reason</b>	RDE Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocRdeUrbanRdeNrOfPart
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureRdeGroup
<b>Format</b>	NUM 9,5
<b>Unit</b>	1/km
<b>Value collection</b>	
<b>Description</b>	Urban RDE trip: Particles (number): 2017/1151: 48.2
<b>Reason</b>	RDE Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocRdeUrbanRdeExpPart
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureRdeGroup
<b>Format</b>	NUM 2
<b>Unit</b>	
<b>Value collection</b>	
<b>Description</b>	Urban RDE trip: Particles (number): 2017/1151: 48.2
<b>Reason</b>	RDE Guideline

## 10. New fields as a result of Guideline changes: WLTP

23. Pure electric: yes/no (1)

23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV

<b>Request</b>	Add new field
<b>Field</b>	ClassOfHybridVehicleCode
<b>XSD Grouping</b>	CoCDataGroup
<b>Format</b>	A-N 15
<b>Value collection</b>	OVC-HEV, NOVC-HEV, OVC-FCHV, NOVC-FCHV
<b>Description</b>	Class of Hybrid [electric] vehicle 2017/1151: 23.1.  Values: OVC-HEV = Off vehicle-charging hybrid electric vehicle NOVC-HEV = Not off-vehicle charging hybrid electric vehicle OVC-FCHV = Off-vehicle charging fuel cell hybrid vehicle NOVC-FCHV = Not off-vehicle charging fuel cell hybrid vehicle
<b>Reason</b>	23. Pure electric: yes/no (1) 23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (1)

35. Tyre/wheel combination/Rolling Resistance Class (if applicable) (h): ...

<b>Request</b>	Add new field
<b>Field</b>	RollingResistanceClassCode
<b>XSD Grouping</b>	TyreAxleTable TyreAxleGroup
<b>Format</b>	A-N 3
<b>Value collection</b>	A,B,C,D,E,F,G
<b>Description</b>	Rolling Resistance Class. As stated on the Tyre Label 2017/1151: 35.

In WLTP guideline suggested under Remarks:

<b>Request</b>	<b>Remove</b> draft 1.3a field
<b>Version info 1.3a</b>	Field was available in version 1.3a, will not be available in version 1.3 anymore. Not stated in the final version of the guideline.
<b>Field</b>	WLTPTestTyreRimVehInd
<b>XSD Grouping</b>	TyreAxleTable

	TyreAxleGroup
<b>Format</b>	A-N 1
<b>Value collection</b>	Y,N
<b>Description</b>	To indicate which tyre was mounted during the WLTP test cycle.  2017/1151: 35.

<b>Change Request</b>	Add new field
<b>Field</b>	ProductionTyreRimVehInd
<b>XSD Grouping</b>	TyreAxleTable TyreAxleGroup
<b>Format</b>	A-N 1
<b>Value collection</b>	Y,N
<b>Description</b>	To indicate which tyre and rim has been mounted by the manufacturer at the time of the production of the vehicle (COP).  2017/1151: 35.

**ANNEX IV**  
**EMISSIONS DATA REQUIRED AT TYPE-APPROVAL FOR ROADWORTHINESS**  
**PURPOSES**

5.4. The manufacturer of the base vehicle shall test a representative multi-stage vehicle for CO<sub>2</sub> emission and fuel consumption and make available a calculation tool to establish, on the basis of the parameters of completed vehicles, the final fuel consumption and CO<sub>2</sub> values as set in Sub-Annex 7 of Annex XXI.

- 47.1. Parameters for emission testing
- 47.1.1 Test mass, kg: ...
  - 47.1.2. Frontal area, m<sup>2</sup>: ...
  - 47.1.3. Road load coefficients (for complete)
    - 47.1.3.0.  $f_0$ , N:
    - 47.1.3.1.  $f_1$ , N/(km/h):
    - 47.1.3.2.  $f_2$ , N/(km/h)<sup>2</sup>

<b>Request</b>	Add new field
<b>Field</b>	EmisTestMassWLTP
<b>XSD Grouping</b>	CoCDataGroup WLTP EmissionTestParamGroup
<b>Format</b>	NUM 6
<b>Unit</b>	kg
<b>Value collection</b>	
<b>Description</b>	2017/1151: 47.1.1.
<b>Usage</b>	"Test mass of the vehicle" means the sum of the actual mass of the vehicle, 25 kg and the mass representative of the vehicle load. (Annex XXI Type 1 Emission test procedures).

<b>Request</b>	Add new field
<b>Field</b>	FrontalAreaWLTP
<b>XSD Grouping</b>	CoCDataGroup WLTP EmissionTestParamGroup
<b>Format</b>	NUM 8,6
<b>Unit</b>	m <sup>2</sup>
<b>Value collection</b>	
<b>Description</b>	Frontal area of the vehicle. 2017/1151: 47.1.2.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Version info 1.3a</b>	Version 1.3a field length 8,5. Version 1.3 field length 9,6
<b>Field</b>	RoadLoadCoefF0WLTP
<b>XSD Group</b>	CoCDataGroup WLTP EmissionTestParamGroup
<b>Format</b>	NUM 9,6
<b>Unit</b>	N (newton)
<b>Value collection</b>	
<b>Description</b>	F0 is the constant road load coefficient used in in the WLTP test performed with the vehicle. f0, f1, f2 are the road load coefficients of the road load equation $F = f0 + f1 \times v + f2 \times v^2$  2017/1151: 47.1.3.0.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Version info 1.3a</b>	Version 1.3a field length 8,5. Version 1.3 field length 9,6
<b>Field</b>	RoadLoadCoefF1WLTP
<b>XSD Grouping</b>	CoCDataGroup WLTP EmissionTestParamGroup
<b>Format</b>	NUM 9,6
<b>Unit</b>	N/(km/h)
<b>Value collection</b>	
<b>Description</b>	f1 is the first order road load coefficient used in in the WLTP test performed with the vehicle. f0, f1, f2 are the road load coefficients of the road load equation $F = f0 + f1 \times v + f2 \times v^2$  2017/1151: 47.1.3.1.
<b>Reason</b>	WLTP Guideline



<b>Request</b>	Add new field
<b>Version info 1.3a</b>	Version 1.3a field length 8,5. Version 1.3 field length 9,6
<b>Field</b>	RoadLoadCoefF2WLTP
<b>XSD Grouping</b>	CoCDataGroup WLTP EmissionTestParamGroup
<b>Format</b>	NUM 9,6
<b>Unit</b>	N/(km/h) <sup>2</sup>
<b>Value collection</b>	
<b>Description</b>	f2 is the second order road load coefficient used in in the WLTP test performed with the vehicle. f0, f1, f2 are the road load coefficients of the road load equation $F = f0 + f1 \times v + f2 \times v^2$  2017/1151: 47.1.3.2.
<b>Reason</b>	WLTP Guideline

**48. Exhaust emissions (m)(m1)(m2):**

1.2. test procedure: Type 1 (NEDC average values, **WLTP highest values**) or WHSC (EURO VI) (1) CO: ... THC: ... NMHC: ... NOx: ... THC + NOx: ... NH3: ... Particulates (mass): .....Particulates (number): ...

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1CO
<b>XSD Grouping</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Messageheaders</b>	TestprocWltpType1CO
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - CO 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1THC
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - THC 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1NMHC
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - NMHC 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1NOx
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - NOx 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1THC_NOx
<b>XSD Group</b>	FuelTable FuelGroup

	TestprocedureWLTPType1Group
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - (T)HC + NOx 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1NH3
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - NH3 2017/1151: 48.

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1Particulates
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Format</b>	NUM 8,2
<b>Unit</b>	mg/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - Particulates 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1NrOfPart
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Field</b>	TestprocWltpType1NumberOfParticles
<b>Format</b>	NUM 9,5
<b>Unit</b>	1/km
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - Number of particles 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	TestprocWltpType1ExPart
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPType1Group
<b>Format</b>	NUM 2
<b>Unit</b>	
<b>Value collection</b>	
<b>Description</b>	Testprocedure WLTP Type I - Exponent particles 2017/1151: 48.
<b>Reason</b>	WLTP Guideline

49. CO<sub>2</sub> emissions/fuel consumption/electric energy consumption (m) (r):

1. all power trains, except pure electric vehicles (if applicable)

NEDC values	CO <sub>2</sub> emissions	Fuel consumption in case of emission testing according to Regulation (EC) No 692/2008
Urban conditions(1):	... g/km	... l/100 km or m <sup>3</sup> /100 km or kg/100km (1)
Extra-urban conditions(1):	... g/km	l/100 km or m <sup>3</sup> /100 km or kg/100km (1)
Combined(1):	... g/km	... l/100 km or m <sup>3</sup> /100 km or kg/100km (1)
Weighted(1), combined	... g/km	... l/100 km or m <sup>3</sup> /100 km or

		kg/100km
Deviation factor (if applicable)		
Verification factor (if applicable)		'1' or '0'

**Existing fields:**

UrbanConditionsCO2  
UrbanConditionsFuelConsumption>  
ExtraUrbanConditionsCO2  
ExtraUrbanConditionsFuelCons  
CombinedCO2  
CombinedFuelConsumption  
WeightedCombinedCO2  
WeightedCombinedFuelCons

<b>Request</b>	Add new field
<b>Version info 1.3a</b>	Version 1.3 field has been moved to FuelGroup
<b>Field</b>	NEDCDeviationFactor
<b>XSD Grouping</b>	FuelTable FuelGroup
<b>Format</b>	NUM 7,5
<b>Unit</b>	
<b>Value collection</b>	
<b>Description</b>	NEDC Deviation factor The relative deviation (De) between the measured value (Random testresult RTr) of the physical test and the manufacturer declared value (DV) . Formula $De=(RTr-DV)/DV$ 2017/1151: 49.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Version info 1.3a</b>	Version 1.3 field has been moved to FuelGroup.
<b>Field</b>	NEDCVerificationFactor
<b>XSD Grouping</b>	FuelTable FuelGroup
<b>Format</b>	NUM 1
<b>Unit</b>	
<b>Value collection</b>	0,1
<b>Description</b>	NEDC Verification factor to indicate if the type approval authority concludes that the physical test results whether do not confirm or confirm the input data provided by the manufacturer. The verification factor shall be set to 1 (not conform) and set to 0 (conform) 2017/1151: 3.2.8.
<b>Reason</b>	WLTP Guideline

3.1. General code of the eco-innovation(s) (p1): ...

3.2. Total CO<sub>2</sub> emissions savings due to the eco-innovation(s) (p2) (repeat for each reference fuel tested):

3.2.1. NEDC savings: ...g/km (if applicable) = TotalCO<sub>2</sub>EmisSavingDueEcoInnov

Description messagebook add: NEDC

3.2.2. WLTP savings: ...g/km (if applicable)

<b>Request</b>	Add new field
<b>Field</b>	TotalCO <sub>2</sub> WLTPEmisSavDueEcoInnov
<b>XSD Grouping</b>	CoCDataGroup TotalCO <sub>2</sub> WLTPEmisSavDueEcoInnov
<b>Format</b>	NUM 5,2
<b>Unit</b>	g/km
<b>Value collection</b>	
<b>Description</b>	Total CO <sub>2</sub> emissions saving due the eco-innovation(s) in WLTP-test. 2017/1151: 3.2.2.
<b>Reason</b>	WLTP Guideline

4. all power trains, CO<sub>2</sub> emissions / Fuel consumption

except pure electric vehicle, under xxx/2016 (if applicable) WLTP values

<i>Low (1):</i>	<i>... g/km</i>	<i>... l/100 km or m<sup>3</sup>/100 km or kg/100km(1)</i>
<i>Medium(1):</i>	<i>... g/km</i>	<i>... l/100 km or m<sup>3</sup>/100 km or kg/100km(1)</i>
<i>High(1):</i>	<i>... g/km</i>	<i>... l/100 km or m<sup>3</sup>/100 km or kg/100km(1)</i>
<i>Extra High(1):</i>	<i>... g/km</i>	<i>... l/100 km or m<sup>3</sup>/100 km or kg/100km(1)</i>
<i>Combined:</i>	<i>... g/km</i>	<i>... l/100 km or m<sup>3</sup>/100 km or kg/100km(1)</i>
<i>Weighted, combined(1)</i>	<i>... g/km</i>	<i>... l/100 km or m<sup>3</sup>/100 km or kg/100km(1)</i>

<b>Request</b>	Add new field
<b>Field</b>	WLTPLowCO2
<b>XSD Grouping</b>	FuelTable FuelGroup TestprocedureWLTPCO2Group
<b>Format</b>	NUM 5,2
<b>Unit</b>	g/km
<b>Value collection</b>	
<b>Description</b>	All power trains, CO2 emissions of the WLTP medium speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPMediumCO2
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPCO2Group
<b>Format</b>	NUM 5,2
<b>Unit</b>	g/km
<b>Value collection</b>	
<b>Description</b>	All power trains, CO2 emissions of the WLTP medium speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPHighCO2
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPCO2Group
<b>Format</b>	NUM 5,2
<b>Unit</b>	g/km
<b>Value collection</b>	
<b>Description</b>	All power trains, CO2 emissions of the WLTP high speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPExtraHighCO2
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPCO2Group
<b>Format</b>	NUM 5,2
<b>Unit</b>	g/km
<b>Value collection</b>	
<b>Description</b>	All power trains, CO2 emissions of the WLTP extra high speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline



<b>Request</b>	Add new field
<b>Field</b>	WLTPCombinedCO2
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPCO2Group
<b>Format</b>	NUM 3
<b>Unit</b>	g/km
<b>Value collection</b>	
<b>Description</b>	All power trains, CO2 emissions of the WLTP medium combined testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPWeightedCombinedCO2
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPCO2Group
<b>Format</b>	NUM 3
<b>Unit</b>	g/km
<b>Value collection</b>	
<b>Description</b>	All power trains, CO2 emissions weighted combined of the WLTP test result 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPLowFuelConsumption
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPFuelGroup
<b>Format</b>	NUM 5,3
<b>Unit</b>	l/100km
<b>Value collection</b>	
<b>Description</b>	WLTP fuel consumption of the WLTP low speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPMediumFuelConsumption
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPFuelGroup
<b>Format</b>	NUM 5,3
<b>Unit</b>	l/100km
<b>Value collection</b>	
<b>Description</b>	WLTP fuel consumption of the WLTP medium speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPHighFuelConsumption
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPFuelGroup
<b>Format</b>	NUM 5,3
<b>Unit</b>	l/100km
<b>Value collection</b>	
<b>Description</b>	WLTP fuel consumption of the WLTP high speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPExtraHighFuelConsumption
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPFuelGroup
<b>Format</b>	NUM 5,3
<b>Unit</b>	l/100km
<b>Value collection</b>	
<b>Description</b>	WLTP fuel consumption of the WLTP extra high speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPCombinedFuelCons
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPFuelGroup
<b>Format</b>	NUM 5,3
<b>Unit</b>	l/100km
<b>Value collection</b>	
<b>Description</b>	WLTP fuel consumption of the WLTP combined speed testing phase 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPWeightedCombinedFuelCons
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPFuelGroup
<b>Format</b>	NUM 5,3
<b>Unit</b>	l/100km
<b>Value collection</b>	
<b>Description</b>	WLTP fuel consumption weighted combined of the WLTP test result 2017/1151: 4.
<b>Reason</b>	WLTP Guideline

### 5.1. Pure electric vehicles

<i>Electric energy consumption</i>	<i>... Wh/km</i>
<i>Electric range</i>	<i>... km</i>
<i>Electric range city</i>	<i>... km</i>

<b>Request</b>	Add new field
<b>Field</b>	WLTPElecEnergyConsPureElectric
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPEnergyGroup
<b>Format</b>	NUM 7,2
<b>Unit</b>	Wh/km
<b>Value collection</b>	
<b>Description</b>	WLTP electric energy consumption pure electric 2017/1151: 5.1.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPElectricRangePureElectric
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPEnergyGroup
<b>Format</b>	NUM 5
<b>Unit</b>	km
<b>Value collection</b>	
<b>Description</b>	WLTP electric range pure electric 2017/1151: 5.1.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPElectricRangeCityPureElec
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPEnergyGroup
<b>Format</b>	NUM 5
<b>Unit</b>	km
<b>Value collection</b>	
<b>Description</b>	WLTP electric range city pure electric 2017/1151: 5.1.
<b>Reason</b>	WLTP Guideline

### 5.2 OVC hybrid electric vehicles

<i>Electric energy consumption (ECAC,weighted)</i>	... Wh/km
<i>Electric range (EAER)</i>	... km
<i>Electric range city (EAER city)</i>	... km

<b>Request</b>	Add new field
<b>Field</b>	WLTPElectEnergyConsExternCharg
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPEnergyGroup
<b>Format</b>	NUM 7,2
<b>Unit</b>	Wh/km
<b>Value collection</b>	
<b>Description</b>	WLTP electric energy consumption externally chargeable 2017/1151: 5.2.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPElectricRangeExternCharg
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPEnergyGroup
<b>Format</b>	NUM 5
<b>Unit</b>	km
<b>Value collection</b>	
<b>Description</b>	WLTP electric range externally chargeable 2017/1151: 5.2.
<b>Reason</b>	WLTP Guideline

<b>Request</b>	Add new field
<b>Field</b>	WLTPElectricRangeCityExtCharg
<b>XSD Group</b>	FuelTable FuelGroup TestprocedureWLTPEnergyGroup
<b>Format</b>	NUM 5
<b>Unit</b>	km
<b>Value collection</b>	
<b>Description</b>	WLTP electric range city externally chargeable 2017/1151: 5.2.
<b>Reason</b>	WLTP Guideline

## 11. New fields as a result of Guideline changes: Agricultural Vehicles 2015/504

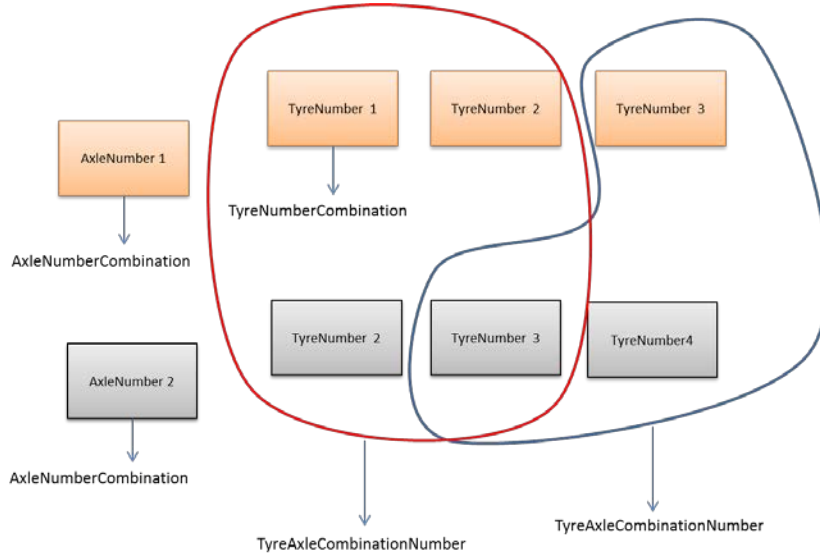
<b>Request</b>	Add new field
<b>Field</b>	DeclaredMaximumSpeed
<b>XSD Grouping</b>	CocDataGroup EngineTable EngineGroup FuelTable FuelGroup
<b>Format</b>	NUM 5,2
<b>XML Format</b>	decimal
<b>Unit</b>	km/h
<b>Description</b>	Declared maximum speed. The maximum speed forward which can be reached declared by the manufacturer or applicant. 2016/1789.: 5.1.1.1

<b>Request</b>	Add new field
<b>Field</b>	DeclaredMaximumSpeedRearward
<b>XSD Grouping</b>	CocDataGroup EngineTable EngineGroup FuelTable FuelGroup
<b>Format</b>	NUM 5,2
<b>XML Format</b>	decimal
<b>Unit</b>	km/h
<b>Description</b>	Declared rearward maximum speed. The maximum speed rearward which can be reached declared by the manufacturer or applicant. 2016/1789: 5.1.2.1

### TyreCombination options across the different axles

A new table/group will be added in order to specify which combination of tyres is allowed across the different axles.

#### 4.1.2.2 Mas(ses) and tyre(s)



Tyre combination No	Axle No	Tyre dimension incl load capacity index & speed category symbol	Rolling radius ( 1 ) [mm]	Tyre Load rating per tyre [kg]	Maximum permissible mass per axle [kg] (*)	Maximum permissible mass of the vehicle [kg] (*)	Maximum permissible vertical load on the coupling point [kg]	Track width [mm] Minimum	Track width [mm] Maximum
1	1								
	2								
	...								
2	1								
	2								
	...								
...	1								
	2								
	...								



<b>Request</b>	Add new field
<b>Version info 1.3a</b>	In the final version 1.3 the grouping has been changed.
<b>XSD Grouping 1.3a (draft)</b>	CocDataGroup TyreAxleCombinationTable TyreAxleCombinationGroup TyreAxleCombinationNumber AxleCombinationNumber TyreCombinationNumber TechPermMaxMassTyreComb
<b>XSD Grouping 1.3</b>	CocDataGroup TyreAxleMassCombinationTable TyreAxleMassCombinationGroup TyreAxleCombinationNumber TechPermMaxMassTyreComb TyreAxleCombinationTable TyreAxleCombinationGroup AxleNumberCombination TyreNumberCombination
TyreAxleCombinationTable	A table contains one or more occurrences of a group of attributes
TyreAxleCombinationGroup	A group contains attributes that describe a single object.

<b>Request</b>	Add new field
<b>Field</b>	TyreAxleCombinationNumber
<b>XSD Grouping</b>	CocDataGroup CocDataGroup TyreAxleMassCombinationTable TyreAxleMassCombinationGroup
<b>Format</b>	NUM 3
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	NA
<b>Description</b>	The tyre combination number is necessary to make a relation between the tyres and the axle(s). 2016/1789: 4.1.2.2.

<b>Request</b>	Add new field
<b>Field</b>	TechPermMaxMassTyreComb
<b>XSD Grouping</b>	CocDataGroup TyreAxleMassCombinationTable TyreAxleMassCombinationGroup
<b>Format</b>	NUM 6

XML Format	nonNegativeInteger
Unit	kg
Description	Maximum permissible mass of the vehicle according to the tyre specification.  2015/504: 4.1.2.2

<b>Request</b>	Add new field
Field	AxleNumberCombination
	CocDataGroup TyreAxleMassCombinationTable TyreAxleMassCombinationGroup TyreAxleCombinationNumber TechPermMaxMasTyreComb TyreAxleCombinationTable TyreAxleCombinationGroup
Format	NUM 2
XML Format	nonNegativeInteger
Unit	
Description	Refers to the AxleNumber which is used in the TyreAxleCombination.

<b>Request</b>	Add new field
<b>Field</b>	TyreNumberCombination
	CocDataGroup TyreAxleMassCombinationTable TyreAxleMassCombinationGroup TyreAxleCombinationNumber TechPermMaxMassTyreComb TyreAxleCombinationTable TyreAxleCombinationGroup
<b>Format</b>	NUM 3
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	
<b>Description</b>	Refers to the TyreNumber which is used in the TyreAxleCombination.

<b>Request</b>	Add new field
<b>Field</b>	TyreNumber
<b>XSD Grouping</b>	COCDDataGroup TyreAxleTable TyreAxleGroup TyreNumber
<b>Format</b>	NUM 3
<b>XML Format</b>	nonNegativeInteger
<b>Min/max value</b>	minInclusive value='0'
<b>Min/max value</b>	maxInclusive value='999'
<b>Unit</b>	NA
<b>Value collection</b>	0-999
<b>Description</b>	In order to identify a specific tyreThe number can be used to define a tyre within the TyreAxleCombinationGroup.

<b>Request</b>	Add new field
<b>Field</b>	TyreAxleTrackMinimum
<b>XSD Grouping</b>	AxleTable AxleGroup TyreAxleTable TyreAxleGroup
<b>Format</b>	NUM 4
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	mm
<b>Description</b>	Axle track minimum related to the mentioned tyres and rims 2016/1789: 4.1.2.2.
<b>Usage</b>	To be used if the axle track is available on tyre level To be used when the track is adjustable. It is not permitted to use this entry for a range of values as defined in the type approval

<b>Request</b>	Add new field
<b>Field</b>	TyreAxleTrackMaximum
<b>XSD Grouping</b>	AxleTable AxleGroup TyreAxleTable TyreAxleGroup
<b>Format</b>	NUM 4
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	mm
<b>Description</b>	Axle track maximum related to the mentioned tyres and rims 2016/1789: 4.1.2.2.
<b>Usage</b>	To be used if the axle track is available on tyre level To be used when the track is adjustable. It is not permitted to use this entry for a range of values as defined in the type approval

<b>Request</b>	Add new field
<b>Field</b>	TyreAxleTrack
<b>XSD Grouping</b>	AxleTable AxleGroup TyreAxleTable TyreAxleGroup
<b>Format</b>	NUM 4
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	mm
<b>Description</b>	Axle track related to the mentioned tyres and rims 2016/1789: 4.1.2.2.
<b>Usage</b>	To be used if the axle track is available on tyre level To be used when the track-width is not adjustable.

<b>Request</b>	Add new field
<b>Field</b>	Iso7638ConnectorInd
<b>XSD Grouping</b>	CocDataGroup
<b>Format</b>	A-N 1
<b>XML Format</b>	string
<b>Value collection</b>	Y, N
<b>Description</b>	ISO 7638:2003 connector indicator 2016/1789: 43.6.5.
<b>Usage</b>	This field is used to indicate the presence of ISO 7638:2003 connector

<b>Request</b>	Add new field
<b>Field</b>	ProtectiveStructFoldAssistCode
<b>XSD Grouping</b>	ProtectiveStructureTable ProtectiveStructureGroup
<b>Format</b>	A-N 3
<b>XML Format</b>	string
<b>Value collection</b>	NA, PA, FA
<b>Description</b>	Folding operation method of the roll-over-protective structure  Values: NA = non-assisted PA = partially assisted FA = fully assisted  2016/1789: 46.2.2.1.

<b>Request</b>	Add new field
<b>Field</b>	TechnPermMaxMassThreePointLift
<b>XSD Grouping</b>	CocDataGroup
<b>Format</b>	NUM 6
<b>XML Format</b>	nonNegativeInteger
<b>Unit</b>	kg
<b>Description</b>	Maximum towable mass of the three-point lifting mechanism 2016/1789: 39.2
<b>Usage</b>	

## 12. New fields as a result of Guideline changes: Two Three wheel

<b>Request</b>	Add new field
<b>Field</b>	LimitValueSoundLUrban
<b>XSD Grouping</b>	Body CocDataGroup EngineTable EngineGroup FuelTable FuelGroup
<b>Format</b>	NUM 5,2
<b>XML Format</b>	decimal
<b>Unit</b>	dB(A)
<b>Description</b>	Limit value of the sound level. L urban is calculated by the weighted combination of a constant speed test and a full throttle acceleration test. The limits for L urban are mentioned in annex 6 of ECE Regulation 41.  2016/1825/EC: 4.0.6.3
<b>Usage</b>	